

Machines & Tools



IMPRINT

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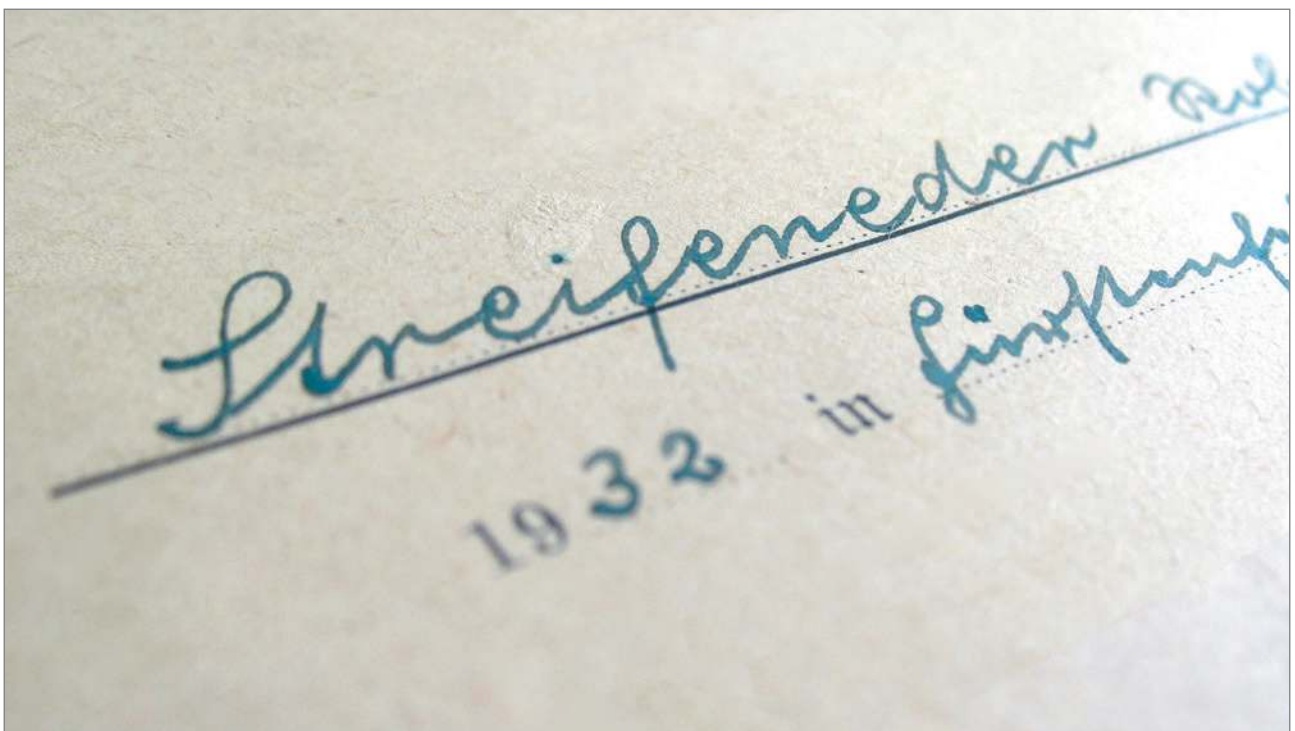
Content

• History.....	4 – 5
• Quality is our Claim	6 – 7
• Contact	7
• Development & Production	8 – 9
• Streifeneder Training Centre	10 – 11
• Workshop Planning	12 – 14
• Patient & Care Area	15 – 21
• Workshop Equipment	23 – 44
• Plaster Casting & Plaster Modelling.....	45 – 59
• Orthopaedic Shoe Technology.....	61 – 90
• Silicone Processing.....	91 – 108
• Lamination Station & Deep Drawing Technology	109 – 144
• Vacuum- & Compressed Air Technology.....	145 – 164
• Plastics- & Metal Processing Machines.....	165 – 227
• Dust Extractors	229 – 256
• Electric Tools.....	257 – 273
• Tools.....	275 – 337
• Working Safety Gear	339 – 350
• Little ABC's of Orthopaedics	351 – 357
• Explanation of Symbols.....	359
• Index	362 – 368
• Directory.....	370 – 375

History

- 1928 The Streifeneder firm is set up by Lilli and Friedrich Georg Streifeneder in Mannheim.
- 1929 The first patent is applied for.
- 1931 The property in Schöngesinger Straße in Fürstenfeldbruck is purchased.
- 1932 The first orthopaedic workshop is fitted out in Fürstenfeldbruck near Munich.
- 1945 Further orthopaedic workshops are set up to cater for war invalids.
- 1949 The orthopaedic workshop starts up at the Bad Tölz Hospital.
- 1953 The Munich site is opened. The wholesale business is expanded.
- 1968 The plastics, Streifylen and Streifylast, are launched along with the requisite heat sources.
- 1992 A production site is set up in Hungary to manufacture plastic products in small series.
- 1993 The production and distribution division expands further. Move to the new company premises in Emmering, just outside Munich.
- 1995 Export activities are stepped up.
- 1997 Takeover of Maschinen-Schmid, the world market leader in socket router machinery.
- 1998 The product range is extended by the prosthetics product division.
- 1999 Traditional in-house production is extended and the product spectrum expanded by modular components. "Everything from a single source" – with our very own department for workshop planning we can now help to realize our clients' wishes even better.
- 2001 The new site in Emmering is extended by further storage space to 6,000 qm.
- 2004 Establishment of distribution structure in China.
- 2007 Streifeneder ortho.production GmbH is set up as an independent subsidiary.
- 2009 Streifeneder ortho.production GmbH exports to more than 100 countries.
Streifeneder ortho.production GmbH wins the "red dot design award" for the knee joint KINEGEN.stream.

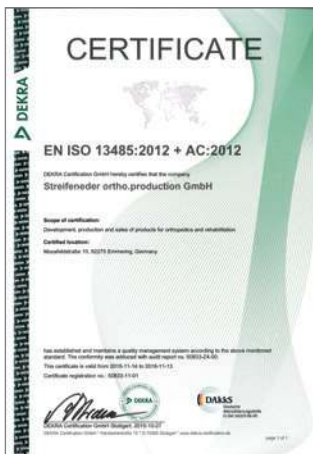
- 2010 A new building is purchased for Streifeneder ortho.production GmbH in Emmering.
- 2011 Opening of the branch Streifeneder India, located in Gurgaon/Haryana.
Establishment of distribution structures in Latin America.
Relocation of Streifeneder ortho.production to the new building with modern training and education-, logistics- and administration centre.
Foundation of Streifeneder Training Centre in Emmering.
- 2012 Grand opening of Streifeneder Training Centre, with focus on national and international markets.
Streifeneder ortho.production GmbH wins the "red dot design award" for the therapeutic shoe Pluto.
- 2013 The US-American distribution partner Euro International, located in Tampa/Florida, is integrated in the company as Streifeneder USA.
- 2014 Streifeneder group receives a new corporate design with new company logo.



Quality is our Claim

We are convinced that only constant technical innovation and development is the key to a steady improvement of products and optimal patient care. We apply high standards to be able to offer each of our clients exactly those high-quality products he requires. Each of our products is subject to a continuous quality planning, quality control, quality monitoring and quality improvement. In order to be able to satisfy even most individual customer requirements and also in order to close product-related gaps in the market, it is essential to have our own production series with large lot sizes, but to also offer products with very individual unit numbers.

Despite the rapid development of the export business within the last years and the opening up of new markets such as China, we still value Germany as our location to do business. We are proud of the quality standard "Made in Germany" and even in times of a continuously increasing cost pressure and growing competition due to globalization, we still produce predominantly in Germany.



Quality management

More than eighty years of experience, as well as the certified quality management system we introduced in 1998 according to EN ISO 13485 to ensure highest quality level. This quality management system is applied to all business divisions. Especially our product development division makes sure that the high level of quality is not only maintained but steadily increased. Thus, we ensure that we always meet the raising demands of our clients in terms of product development, manufacturing and safety.



Increasing globalisation and changing international security and safety conditions have motivated the World Customs Organisation (WCO) to draft a „Framework of Standards to Secure and Facilitate Global Trade“ (SAFE) to establish a global framework for modern and effective risk management of

customs compliances. The aim is to guarantee the security and safety of a continual international supply chain from the product manufacturer to the end consumer. The concept of European Authorised Economic Operator is an EU Customs security programme that started in 2007 and recognises companies as reliable trade partners as they met the following common criteria: customs compliance, appropriate record-keeping, financial solvency and, where relevant, appropriate security and safety standards.

Streifeneder ortho.production GmbH, as a globally operating company, has met the challenge and is proud to announce that it has been granted Authorised Economic Operator (AEO-F) certification by German customs in January, 2013, which officially regards the company as a reliable trade partner. The certificate number is DE AEO-F 115235.

On the basis of the EC Regulation 300/2008, we received the status of a known consignor by the LBA (Federal Office of Civil Aviation) in November 2013. We are listed in the EC database with approval number DE/KC01882-01/1118. Because of this we obtain a valuable time savings when processing our air freight. Due to the high standards in our factory at Emmering the consignments do not have to be subject to further security checks at the airport.

Because of this we can do even better at achieving our goal that you receive our products as quickly as possible. An important part of our delivery time concept and a valuable time saver. Part of our comprehensive safety concept is that our company is protected against entry by unauthorized persons and keep our shipments to you received the highest security and packaging standards. With this we contribute our share in building a secure supply chain.

Contacting us

Communication is a must in a working relationship. Your personal contact to our staff members in the internal sales department as well as our field service is the base of our successful collaboration.

It is our goal to react swiftly and efficiently to all of your wishes, to answer all of your questions and to keep all of the promises we make for our products. Please contact us!



Via our general office switchboard at +49 8141 6106-0 your call will be directed to the staff member in charge. Of course, you can also send your request by email to service@streifeneder.de.

Development & Production

Experience technology, create technology, utilize technology – keep track of development and concentrate synergies. It is a vital part of our company's philosophy to continually optimize our operational procedures and production processes. This is why we define the economic growth of our company by our perpetual increase in production efficiency. The creativity, the commitment and the special professional skills of each of our members of staff, as well as our state-of-the-art production facilities are our guarantor for satisfied customers.

Our equipment in terms of up-to-date drawing programs (3D-CAD), simulation software (FEM-calculation) to the point of multi-axial machining centers helps our engineers and orthopaedic technicians to assure and further expand our market position.



We subject ourselves and our products to highest quality standards. Therefore our products undergo constant internal quality testing in our own test stands and gait analysis systems.

Therefore our customers receive exactly what they can expect from us – best quality and long-lasting products.

See the quality of our products and the comprehensive service that we have to offer for yourself!



Training Centre Streifeneder ortho.training

In order to stay competitive and in order to meet the growing requirements of the patients, it is no longer enough to just use high quality orthopaedic products. Profound practical skills on the basis of current scientific research and findings creates optimal conditions to always react competently and confidently in daily practice. In order to convey valuable expertise as well as detailed knowledge to specialists in orthopaedic and orthopaedic shoe technology as well as physiotherapy and podiatry, we have originated the Training Centre Streifeneder ortho.training in Emmering.

A spacious auditorium (AudiMax) with 160 seats and a fully equipped workshop with 15 work stations, a machine room as well as a patient fitting room and a plaster room on approx. 1.000 sqm offer more than optimal conditions for a qualified advanced and continuous education on the highest level. Modern tools such as multimedia equipment, a fully equipped gait analysis laboratory, course materials and teaching aids that meet the demands of our clients are also part of our standards.





Our meticulously elaborated seminar program comprehends more than 50 events per year centered around topics such as silicone processing, pre-preg processing, synthetic materials or gait analysis. With a flexible program planning on our part, we are also able to react to individual customer's wishes and to offer seminars about special subjects upon request. In order to guarantee an array of seminars that is as broad as possible we regularly invite high-carat external guest lecturers to our training centre Streifeneder ortho.training.

You can download our current seminar calendar with further information about all of our seminars from our website at www.streifeneder.com/training.

Of course, we will also gladly send it to you by post or email. Please feel free to contact us at: training@streifeneder.de or by telephone +49 8141 6106-200.

We are looking forward to hearing from you!



Workshop Planning

The basics of modern business and workshop premises follow the same principles as an inviting home.

The object respective the building should appear bright and quiet, in order to give the customer an impression of "you are in good hands with us".

As it is not enough anymore to be known just for excellent workmanship, today's focus is on offering allround service to the customer. This starts for example with easy access to the facility by public transportation and sufficient parking space to help avoid long and time-consuming journeys. Another important criterion for many customers is a barrier-free access.


A friendly and clean ambience will give the customer a sense of professionalism and routine in all business rooms such as the sales area and fitting area. The customer should feel comfortable and be happy to come back again. The central part of the premises – the workshop area – should be also integrated into the overall concept and be considered as extension of the sales- and fitting area.

We will be happy to assist you to plan your administration- and staff rooms as well. These constitute a basis for satisfied employees which in consequence are fundamental for excellent customer service.



As an international comprehensive supplier, we know what is needed and therefore are able to offer you competent service from one source. We will be pleased to assist you to consider all requirements and to find a customised solution for your company. From preparation and execution of the planning task (supported by modern software such as AutoCAD for optimal visualisation) up to supply and installation of our machines and equipment – we are looking forward to your inquiry!



 Following up, we have worked out a short check-list in order to help you at the beginning of your plans to create your first own concept. Just call +49 (0) 8141 6106-0 or write an email to office@streifeneder.de to receive the complete checklist.



Workshop Planning – Checklist

1. Floor Space Utilisation and Allocation

As a first step, a plan for optimal floor space allocation must be developed. However, following considerations usually apply for all orthopaedic technology companies

- Local building regulations
- Legal workplace regulations with directives for dust removal, air supply and ventilation, noise pollution and lighting
- Legal regulations for fire protection, environment protection and health protection
- Construction adapted to the needs of disabled persons

2. Finding a Building

When you are looking for a proper building, you should bear following in mind

- Stairs and elevators
- Existing installations for electricity, gas, heating, water and waste water
- Load capacity of each floor
- Parking space
- Barrier-free restrooms as well as accessibility
- Adjoining rooms and storage space

3. Corporate Structure

The business structures must be considered under the aspect of the special facts applying to orthopaedic technology, as these influence the plans considerably and should be taken into account due to the longevity of the object

- Number of employees relating to room size; machinery- and workshop equipment
- Proportional division of business fields such as the challenging range of prosthetics and orthotics; small or thopaedic tasks such as shoe inserts; or clinical orthopaedics etc.
- Division into orthopaedic technology, orthopaedic shoe technology, health products shop and rehabilitation aids
- Patient structure and expected changes
- Cooperation with hospitals resp. medical specialists

4. Planning the Rooms

The individual room plans must fulfil today's ergonomic requirements. The floor plan details are determined by the working procedures within the shop and the functional areas as well as orthopaedic technology specialities, for example

- Determination of required and existing electric voltages
- Placement of equipment, machines, work benches and their specific connections
- Installations of electricity, compressed air, water, waste water, telephone system, illumination etc.
- Floor construction and floor coverings for the different rooms according to intended use
- Casting room: grid plate in the tiled area, plaster separator, plaster sink
- Short walking distance to the fitting area
- Short walking distance to the machinery area
- Separation of the noise- resp. dirt zone from the patient area
- Separation of the dust suction device

Patient & Care Area



Patient & Care Area

The patient area is the business card of your company. This is where you have the chance to create a generally positive mood for your patients by means of a comfortable atmosphere. At the same time, functional furnishing will increase the workflow efficiency and meet the requirements of organisational and practical constraints. We will help you to join patient-suitable functionality with visually attractive design in your company colours in order to optimally present your company.

Our diversified standard program is the basis to meet your personal wishes and requirements. Of course, individualised custom-made versions are part of our offer in the range of examination couches and chairs.

On the following pages, we would like to introduce to you a wide range of our products. We are looking forward to change your patient area to a room with distinctive feel-at-home flair.





Examination Couch

- with white imitation leather
- frame square tube
- upholstery D = 50 mm
- head section adjustable + 40°
- with paper roll and holder

Technical data

- dimensions W x D x H: 1950 x 650 x 680 mm
- max. body weight: 225 kg
- weight: 34 kg

	Item-No.
	140M5



Coverpaper for Roll Holder for Examination Couch, white, 2 layers

- for item 140M5, 590 mm width, 50 m roll length
- PU = 9 rolls

Features	Item-No.
100 % pulp paper, 2 layers white	570P4/59

picture similar



Examination Chair

- examination chair, platform step and holding bar mountable on left or right side
- padded seat and backrest with synthetic cover
- frame coating in selectable RAL colour
- washable cover, selectable colour
- laminated platform top, selectable colour


Technical data

- height of foot platform: 460 mm
- total height incl. backrest: 1250 mm
- total width incl. step: 800 mm
- width without step: 600 mm
- total depth: 1000 mm

Colours

- frame: opal green RAL 6026, ocean blue RAL 5020, grey brown RAL 8019, light green RAL 6027, white aluminum RAL 9006, black RAL 9005
- seat cover imitation leather: bengal red, dark green, grey, white, ocean blue, black
- plastic coated platform tops: white, light grey, textured, beige

Version	Weight	Item-No.
without drawer	37 kg	140M8
with drawer	40 kg	140M8/1

 When placing your order, please indicate the desired colours and the side where the steps and the handrails should be placed.



Leg Rest

- for examination chair 140M8, stand-alone, upholstered, height adjustable and lockable
- chrome-plated frame and star base, imitation leather support pad

Technical data

- height: 400 – 550 mm adjustable
- width: 350 mm
- weight: approx. 3 kg

Colours

- cover imitation leather: bengal red, dark green, grey, white, ocean blue, black

Item-No.
140M8/2



Measuring Chair with leg rest

- electromechanical, continuously adjustable height adjustment with 300 mm lifting height
- rotatable and lockable seat with integrated adjustable leg rests
- platform height 400 mm, with drawer and storage compartment
- upon request with one or two lateral holding bars 140M9/1
- frame coating in selectable RAL colour
- washable cover, selectable colour
- laminated platform top, selectable colour


Technical data

- work and platform height: 400 mm
- total height incl. back rest: 1270 mm
- total width: 750 mm
- total depth: 1300 mm
- max. weight load: 150 kg
- power requirements: 230 V / 50 Hz / 1 Ph / 0,5 kW
- weight: 165 kg net

Colours

- frame: opal green RAL 6026, ocean blue RAL 5020, grey brown RAL 8019, light green RAL 6027, white aluminum RAL 9006, black RAL 9005
- seat cover imitation leather: bengal red, dark green, grey, white, ocean blue, black
- plastic coated platform tops: white, light grey, textured, beige

Item-No.
140M9

 Please indicate the desired colours. Also available as a special design with 40 or 50 cm height of stroke and a higher platform!

without picture

Lateral Support

- for examination chair 140M9

Item-No.
140M9/1



Podometer

- for direct view and examination of the loaded foot soles, with 1 built-in fluorescent tube 25 W, rastered glass plate, foot size measuring device with adjustable goniometer

Technical data

- dimensions W x D x H: 600 x 450 x 330 mm
- power requirements: 230 V / 50 Hz / 1 Ph / 0,025 kW
- weight: 12,5 kg net
- max. body weight: 150 kg

Item-No.
98P6



Anatomical Chart

- 4-colour print, metal bar at top and bottom hanger
- length: 1000 mm, width: 700 mm

Anatomic chart	Language	Item-No.
human skeleton	German	10P1/D
human skeleton	English	10P1/E
upper extremities	German	10P2/D
upper extremities	English	10P2/E
lower extremities	German	10P3/D
lower extremities	English	10P3/E
muscular system	German	10P4/D
muscular system	English	10P4/E
human spine	German	10P5/D
human spine	English	10P5/E
nervous system	German	10P6/D
nervous system	English	10P6/E
vascular system	German	10P7/D
vascular system	English	10P7/E
healthy & diseased feet	German	10P8/D
healthy & diseased feet	English	10P8/E
ligaments & joints	German	10P9/D
ligaments & joints	English	10P9/E

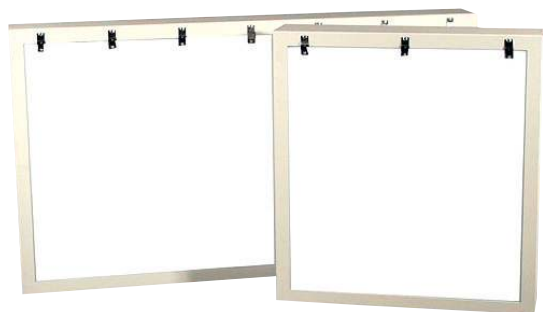
Mockup Model

- detailed models of human skeletons, joints and extremities



Mockup model	Item-No.
human skeleton	10P20
miniature human skeleton	10P25
spine and pelvis	10P30
foot skeleton	10P40
hip joint	10P45
knee joint	10P50
normal foot	10P60
flatfoot	10P61
contracted foot	10P62

X-Ray Image Viewer



Features

- steel panel housing with grey-white powder coating RAL 9002
- high-frequency light
- infinitely variable 90 % electronical adjustment of luminous density
- 2 m power cord with grounded plug

Technical data

- power requirements: 230 V / 50 Hz / 1 Ph

Field of vision w x h	Weight	Item-No.
350 x 430 mm	approx. 9 kg	145M10
700 x 430 mm	approx. 18 kg	145M11
1050 x 430 mm	approx. 27 kg	145M12



picture similar

Parallel Bars

- steel construction
- height adjustable 640 – 1040 mm, with hole raster system
- walking trail width adjustable by shifting axis 0 – 590 mm
- with angled floor panels
- foldable for easy storage, when not in use
- max. patient weight: max. 135 kg

Length	Weight	Item-No.
4000 mm	49 kg net	145M3
2000 mm	28 kg net	145M3/S

 Deviating lengths and versions as well as versions with ground anchorage available upon request!



Swivel Stool

- stool white imitation leather
- cover aluminum star base
- height adjustable 450 – 590 mm
- with step rollers

Weight	Item-No.
9 kg net	140M6

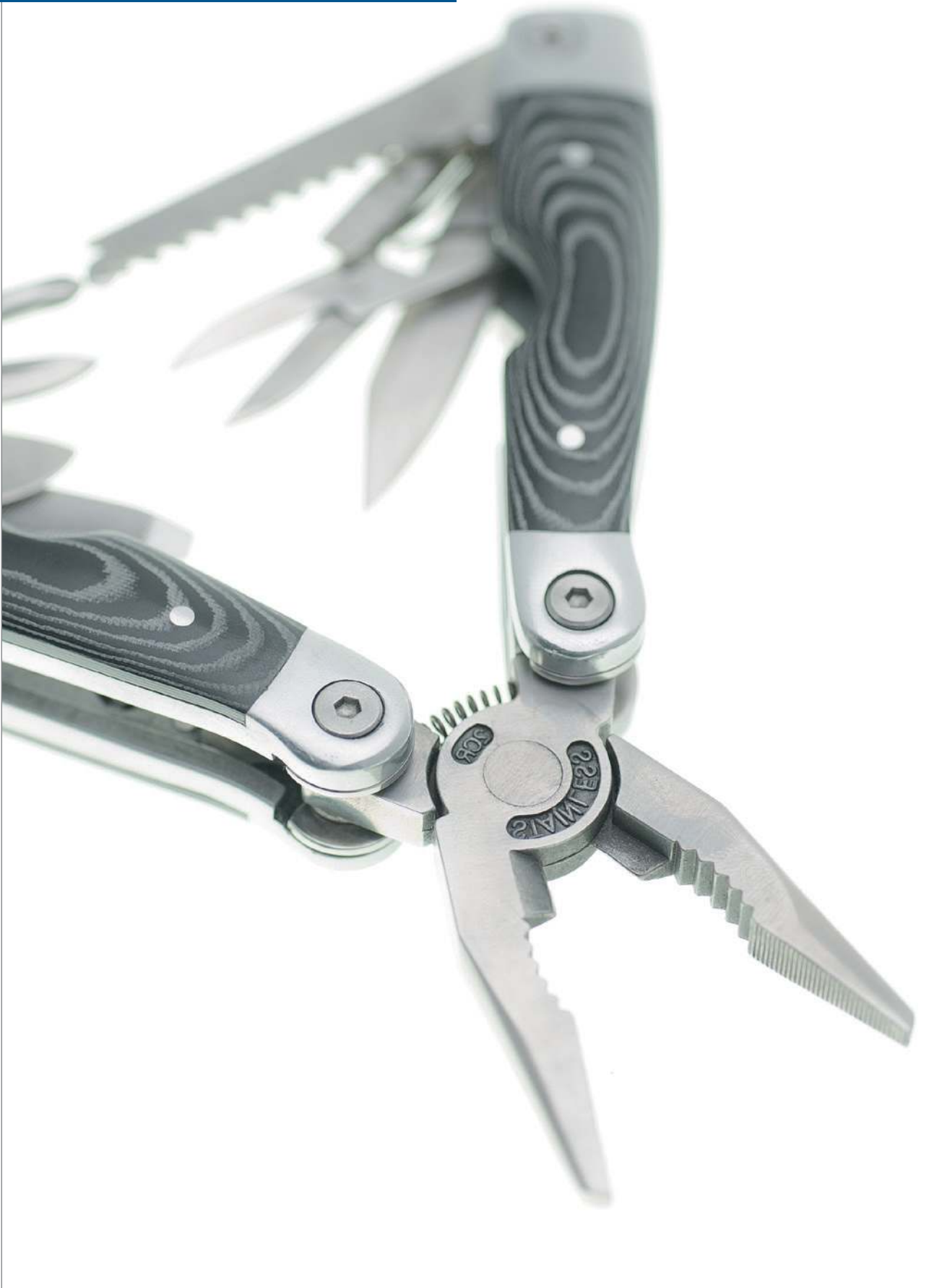


Sit Stand

- black coated, stepless height adjustment, GS-certified

Weight	Item-No.
7 kg net	140M1

Workshop Equipment



Workshop Equipment

The workshop is the centre piece of every orthopaedic technology company. The workshop equipment must cover all economic, functional and technical requirements. Short distances and process optimisation are the most important issues. Furthermore, a modern ergonomic working environment must meet the various demands for work safety and accident prevention.

Of course, standard solutions are not always applicable! The main focus must be on each company with their individual business field, employees and specific spatial requirements and to find an optimal concept for it.



For equipping a workshop, the aspects of quality and longevity are the primary goals for us. Therefore we cooperate with a large number of reputable suppliers. A wide range of over 50 available RAL-colours enables us to supply the workshop equipment in your company colours. We would be very pleased to find with you the unique solution for your workshop. You are welcome to contact us anytime!





Work Bench

Features

- bench top: 40 mm beech ply wood
- frame made of section steel and quality sheet metal
- drawer made of quality sheet metal
- aluminum ledge with label strip
- 1 drawer
- 1/2 shelf level

Technical data

- dimensions W x D x H: 750 x 750 x 850 mm
- drawers' height: 120 mm
- drawers' inside dimensions W x D: 500 x 500 mm
- colour: RAL 7035 light grey
- weight: 48 kg net

Item-No.
94M3



Work Bench

Features

- bench top: 40 mm beech ply wood
- frame made of section steel and quality sheet metal
- drawer made of quality sheet metal
- aluminum ledge with label strip
- 1 drawer
- 1/2 shelf level

Technical data

- dimensions W x D x H: 1500 x 750 x 850 mm
- drawers' height: 120 mm
- drawers' inside dimensions W x D: 500 x 500 mm
- colour: RAL 7035 light grey
- weight: 72 kg net

Item-No.
94M2



Work Bench

Features

- bench top: 40 mm beech ply wood
- frame made of section steel and quality sheet metal
- drawer and wing door made of quality sheet metal
- aluminum ledge with label strip
- 1/2 shelf level

Technical data

- dimensions W x D x H: 1500 x 750 x 850 mm
- swing door height (right): 360 mm
- drawers' height (right): 120 mm
- colour: RAL 7035 light grey
- weight: 86 kg net

Item-No.
93M4

Workshop Equipment



Work Bench

Features

- bench top: 40 mm beech ply wood
- frame made of section steel and quality sheet metal
- drawer made of quality sheet metal
- aluminum ledge with label strip

Technical data

- dimensions W x D x H: 2000 x 750 x 850 mm
- drawers' inside dimensions W x D: 500 x 500 mm
- drawers' height of left cabinet: 160, 160, 160 mm
- drawers' height of center cabinet: 120, 120, 120, 120 mm
- drawers' height of right cabinet: 80, 80, 80, 80, 80, 80 mm
- colour: RAL 7035 light grey
- weight: 191 kg net

Item-No.
93M3



Other models and colours available upon request!



Work Table

Features

- bench top: 40 mm beech ply wood
- frame made of section steel and quality sheet metal
- drawer made of quality sheet metal
- aluminum ledge with label strip

Technical data

- dimensions W x D x H: 1500 x 750 x 850 mm
- drawers' inside dimensions W x D: 500 x 500 mm
- drawers' height: 80, 80, 120, 120, 160, 160 mm
- colour: RAL 7035 light grey
- weight: 107 kg net

Item-No.
93M7



Other models and colours available upon request!



Work Table

Features

- bench top: 40 mm beech ply wood
- frame made of section steel and quality sheet metal
- aluminum ledge with label strip

Technical data

- dimensions W x D x H: 1500 x 750 x 850 mm
- drawers' inside dimensions W x D: 500 x 500 mm
- drawers' height: 160, 160, 160 mm
- colour: RAL 7035 light grey
- weight: 90 kg net

Item-No.
93M6

picture similar



Other models and colours available upon request!

Cutting Table



94M1/1



94M1/2

Features

- bench top: 40 mm beech ply wood
- frame made of section steel and quality sheet metal
- drawers made of quality sheet metal
- aluminum ledge with label strip
- 2 drawers (1 x left side and 1 x right side)

Technical data

- drawers' inside dimensions W x D: 500 x 500 mm
- drawers' height: 120 mm
- compartment base, wood: 13 mm thickness
- colour: RAL 7035 light grey

W x D x H	Weight	Item-No.
2000 x 750 x 850 mm	105 kg net	94M1/1
2000 x 1000 x 850 mm	130 kg net	94M1/2

Worktable „Ergomax“ HT



Features

- continuously height adjustable
- electro-hydraulic height adjustable table top: 700 – 1100 mm
- robust table top: 40 mm beech ply wood
- central connection unit with control switch for height adjustment

Technical data

- dimensions W x D x H: 1500 x 750 x 700 – 1100 mm
- load capacity: 300 kg net
- power requirements: 230 V / 50 Hz / 1 Ph

Weight	Item-No.
85 kg net	95M1

 Other models available upon request!

Worktable „Ergomax“ ESL




Features

- continuously height adjustable
- electro-mechanic height adjustable table top: 700 – 1100 mm
- robust table top with formica coating: 40 mm
- central connection unit with control switch for height adjustment

Technical data

- dimensions W x D x H: 1250 x 750 x 700 – 1100 mm
- load capacity: 220 kg net
- power requirements: 230 V / 50 Hz / 1 Ph

Weight	Item-No.
75 kg net	95M2

 Other models available upon request!

Workshop Equipment



Work Bench

Features

- square steel tube legs 40 x 40 x 2 mm
- bench top: joggled and bonded, solid common beech wood
- drawers made of common beech wood
- 1 drawer on left side, 150 mm height
- 2 lockable drawers on right side, 55 mm height
- back shifted shelf

Technical data

- bench top size thickness x depth: 50 x 700 mm
- work height: 850 mm
- colour: RAL 7035 light grey

Bench top length	Weight	Item-No.
1500 mm	85 kg net	92M10/150
2000 mm	100 kg net	92M10/200



Work Bench

Features

- square steel tube legs 40 x 40 x 2 mm
- bench top: joggled and bonded, solid common beech wood
- drawers made of common beech wood
- left side with 4 lockable drawers 100 mm high, and back shifted shelf

Technical data

- bench top size thickness x depth: 50 x 700 mm
- work height: 850 mm
- colour: RAL 7035 light grey

Bench top length	Weight	Item-No.
1500 mm	90 kg net	92M11/150
2000 mm	105 kg net	92M11/200



Work Bench

Features

- square steel tube legs 40 x 40 x 2 mm
- bench top: joggled and bonded, solid common beech wood
- drawers made of common beech wood
- left side with 3 lockable drawers 150 mm high, and 1 swing door right side

Technical data

- bench top size thickness x depth: 50 x 700 mm
- work height: 850 mm
- colour: RAL 7035 light grey

Bench top length	Weight	Item-No.
1500 mm	95 kg net	92M12/150
2000 mm	110 kg net	92M12/200



Work Bench

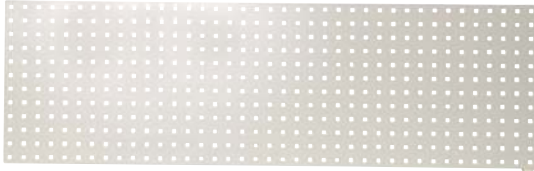
Features

- square steel tube legs 40 x 40 x 2 mm
- bench top: joggled and bonded, solid common beech wood
- drawers made of common beech wood
- left side with 1 drawer 150 mm high and 1 cabinet 350 mm with swing door and 2 lockable drawers on right side, 55 mm high

Technical data

- bench top size thickness x depth: 50 x 700 mm
- work height: 850 mm
- colour: RAL 7035 light grey

Bench top length	Weight	Item-No.
1500 mm	90 kg net	92M13/150
2000 mm	105 kg net	92M13/200



Tool Board

- perforated panel, reinforced reverse side, to mount on a work bench, comes without tool pegs

Technical data

- height: 457 mm
- holes: 9,2 x 9,2 mm
- hole pitch: 38 mm
- colour: RAL 7035 light grey

Length	Item-No.
1486 mm	93M11/1500
1981 mm	93M11/2000



Tool Peg

- for tool board 93M11/1500 and 93M11/2000, with narrow base plate, turnable pegs
- PU = 5 pieces

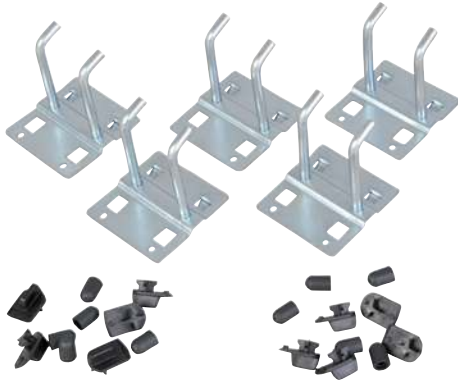
Diameter	Item-No.
10 mm	93M15/10
16 mm	93M15/16
25 mm	93M15/25
32 mm	93M15/32



Hook

- for tool board 93M11/1500 and 93M11/2000, with narrow base plate, slope end, Ø 6 mm
- PU = 5 pieces

W x D x H	Item-No.
20 x 50 x 60 mm	93M12/50
20 x 75 x 60 mm	93M12/75



Double Hook

- for tool board 93M11/1500 and 93M11/2000, with narrow base plate, slope end, hook pitch 28 mm, Ø 6 mm
- PU = 5 pieces

W x D x H	Item-No.
60 x 50 x 60 mm	93M13/50
60 x 75 x 60 mm	93M13/75



Plier Bracket

- for tool board 93M11/1500 and 93M11/2000, with broad base plate
- PU = 5 pieces

D x h	Width	Item-No.
20 x 4 mm	55 mm	93M14/2



Storage Box

- for tool board 93M11/1500 and 93M11/2000
- made of plastic, RAL 7016, colour: light grey

W x D x H	Item-No.
130 x 100 x 65 mm	93M18/1
130 x 198 x 90 mm	93M18/2
130 x 298 x 165 mm	93M18/3



Bracket

- for storage box 93M16, for tool board 93M11/1500 and 93M11/2000

W x H	Item-No.
100 x 75 mm	93M17/1
450 x 75 mm	93M17/2



Bench Vise

- forged steel with hardened jaws and adjustable guide rail, receiver for protective jaws, colour: blue

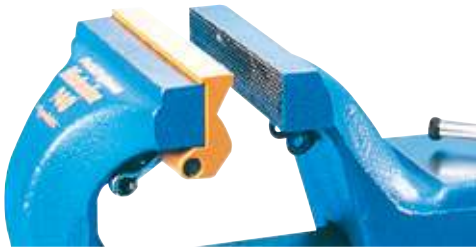
Jaw width	Weight	Item-No.
120 mm	10 kg net	76M1/120
140 mm	18 kg net	76M1/140
160 mm	25 kg net	76M1/160



Rotating Mount

- for item 76M1, rotation range 360°

Bench vise	Weight	Item-No.
76M1/120	0,5 kg net	76M2/1
76M1/140	0,5 kg net	76M2/2
76M1/160	0,5 kg net	76M2/2



Pipe Clamp Jaw

- for item 76M1, slewable
- PU = 1 piece

Jaw width	Item-No.
120 mm	76M4/120
140 mm	76M4/140
160 mm	76M4/160

scope of supply does not include bench vise



Magnetic Felt Jaws

- with magnetic adhesive strip

PU = 1 pair

Width	Item-No.
125 mm	165P23



Synthetic Fibre Jaws

- for item 76M1, slewable
- PU = 1 pair

Jaw width	Item-No.
120 mm	76M3/120
140 mm	76M3/140
160 mm	76M3/160

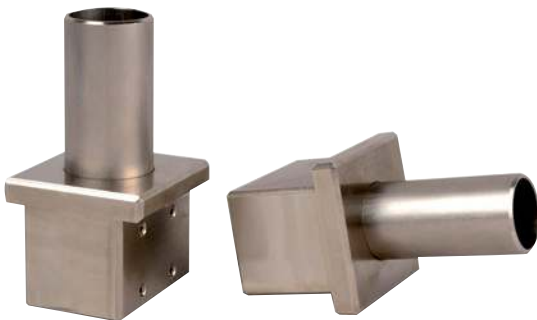
Workshop Equipment



Adjustment Core Clamping Jaws

- safe clamping of prostheses components with pyramid adapter into the clamping table
- magnets facilitate the use of the clamping jaws
- hard-wearing tool made of nickel-plated steel
- suitable for all clamping tables

Weight	Item-No.
820 g	76M10



Tube Carrier for Clamping Table

- safe clamping of prostheses components with tube clamping into the clamping table
- hard-wearing tool made of nickel-plated steel
- suitable for all clamping tables

Tube ø	Weight	Item-No.
30 mm	930 g	76M11/30
34 mm	870 g	76M11/34



Replacement Tube for Tube Carrier 76M11

- replacement tube for tube carrier 76M11

Material	Diameter	Item-No.
Steel	30 mm	76M11/30E2
Steel	34 mm	76M11/34E2



Bench Vise

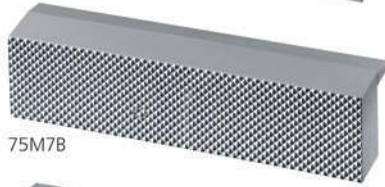
- forged steel with hardened jaws and adjustable guide rail, colour: blue

Jaw width	Weight	Item-No.
120 mm	9 kg	75M1/120
140 mm	16 kg	75M1/140
160 mm	27 kg	75M1/160
180 mm	29 kg	75M1/180

Jaws

- for item 75M1/120, 75M1/140, 75M1/160 and 75M1/180

PU = 1 pair



Jaw width	Description	Item-No.
120 mm	PU, with prisms	75M7A/120
140 mm	PU, with prisms	75M7A/140
160 mm	PU, with prisms	75M7A/160
120 mm	PU, corrugated	75M7B/120
140 mm	PU, corrugated	75M7B/140
160 mm	PU, corrugated	75M7B/160
120 mm	aluminum, with prisms	75M7C/120
140 mm	aluminum, with prisms	75M7C/140
160 mm	aluminum, with prisms	75M7C/160
180 mm	aluminum, with prisms	75M7C/180
120 mm	clamping surfaces: special rubber	75M7D/120
140 mm	clamping surfaces: special rubber	75M7D/140
160 mm	clamping surfaces: special rubber	75M7D/160
180 mm	clamping surfaces: special rubber	75M7D/180

Rotating Mount

- rotation range 360°



Bench vise	Weight	Item-No.
75M1/120	2,5 kg net	75M2/120
75M1/140	4,5 kg net	75M2/140

Flap Lift

- rotation range 360°, adjustment range 175 mm



Bench vise	Weight	Item-No.
75M1/120	13,5 kg net	75M3/120
75M1/140	13,5 kg net	75M3/140




scope of supply does not include bench vise

Folding device

- ideal addition to bench vise 75M1
- bench vise can be folded away underneath the work bench using the folding device and thereby procures a free work space

Rotation radius	Folding depth	Weight	Item-No.
390 mm	410 mm	5,5 kg	75M4/120
430 mm	455 mm	5,5 kg	75M4/140


 Upgrade to item 75M1/120 and 75M1/140.

Standing-Lift



- for item 75M1
- with floor column and base plate
- dimensions: 320 x 320 mm, with pneumatic spring
- adjustable height from 860 to 1060 mm
- 360° rotatable
- colour: blue, other colours available upon request

Bench vise	Allowed load	Weight	Item-No.
75M1/120	4 – 10 kg	21 kg	75M5/120
75M1/140	10 – 16 kg	21 kg	75M5/140
75M1/160 and 75M1/180	16 – 29 kg	21 kg	75M5/160


 The standing-lift is also suitable for third-party products, please indicate the size and the manufacturer of your clamping table when placing your order.

Lift



- for item 75M1
- suitable for mounting on work benches, with pneumatic spring
- height adjustable around 200 mm
- 360° rotatable
- colour: blue, other colours available upon request

Bench vise	Allowed load	Weight	Item-No.
75M1/120	4 – 10 kg	11 kg	75M6/120
75M1/140	10 – 16 kg	11 kg	75M6/140
75M1/160	16 – 29 kg	11 kg	75M6/160
75M1/180	16 – 29 kg	11 kg	75M6/180

 The lift is also suitable for third-party products, please indicate the size and the manufacturer of your clamping table when placing your order.



Mobile Rack

- for sheet materials, comes with 5 sections and guide rollers

Technical data

- dimensions W x D x H: 800 x 420 x 610 mm
- weight: 20 kg net

Item-No.

95M30



Tool Cabinet

Features

- made of quality sheet metal
- single door with cylinder lock
- 1 plastic drawer inside
- 2 zinc-plated built-in shelves

Technical data

- dimensions W x D x H: 500 x 500 x 1000 mm
- colour: RAL 7035 light grey
- weight: approx. 30 kg net

Item-No.

93M11



Cabinet with Drawers

Features

- made of sheet metal
- with 6 drawers on ball-bearings
- aluminum ledge with label strip

Technical data

- dimensions W x D x H: 625 x 600 x 810 mm
- colour: cabinet and drawers RAL 7035 light grey
- weight: approx. 72,3 kg net

Number of drawers	Drawers x Height	Item-No.
6	3 x 80 mm, 2 x 120 mm, 1 x 240 mm	93M21



Cabinet with Drawers

- also suitable for item 168P500

Features

- 4 drawers on ball-bearings with drawe slide lock, max. load per drawer 60 kg
- aluminum ledge with label strip
- central locking

Technical data

- dimensions W x D x H: 640 x 645 x 820 mm
- colour: RAL 7035 light grey
- weight: 82 kg

Number of drawers	Drawer x height	Item-No.
4	1 x 60 mm, 1 x 120 mm, 2 x 180 mm	93M10/7



Cabinet with Drawers

Features

- with drawers made of sheet steel
- all drawers are completely extractable
- all drawers roll smoothly and quietly on ball-bearing telescope tracks
- built-in lock permits opening of only one drawer at that time
- central lock simultaneously locks and unlocks all drawers
- plastic coated cabinet top

Technical data

- dimensions W x D x H: 1055 x 630 x 1105 mm
- max. load per drawer: 70 kg net
- colour: cabinet RAL 7035 light grey
- front panel and drawers anthracite

Number of drawers	Drawers x Height	Weight	Item-No.
11	10 x 90 mm, 1 x 120 mm	218 kg	97M15
9	4 x 90 mm, 3 x 120 mm, 2 x 150 mm	200 kg	97M16



Storing inserts for drawers are available upon request!



picture similar

Material Cabinet

Features

- made of sheet metal
- swing doors
- recessed handle with 3-bar lock and 2 keys
- 4 galvanised sheet steel shelves, adjustable in 15 mm-steps

Technical data

- max. load per shelf: 70 kg
- colour: RAL 7035 light grey

W x D x H	Weight	Item-No.
930 x 400 x 1950 mm	58 kg	93M9/40
930 x 500 x 1950 mm	85 kg	93M9/50

Storage Cabinet



Features

- made of sheet metal
- with 11 built-in metal shelves and 2 swing doors
- incl. 24 PE plastic storage boxes W x D x H: 140 x 200 x 130 mm
- incl. 36 PE plastic storage boxes W x D x H: 95 x 140 x 75 mm

Technical data

- dimensions W x D x H: 670 x 260 x 1575 mm
- colour: RAL 7001 silver grey
- weight: approx. 57,3 kg net

Item-No.
93M10/2

Storage Cabinet



Features

- made of sheet metal
- with 15 built-in metal shelves and 2 swing doors
- incl. 28 PE plastic storage boxes W x D x H: 140 x 200 x 130 mm
- incl. 54 PE plastic storage boxes W x D x H: 95 x 140 x 75 mm

Technical data

- dimensions W x D x H: 670 x 260 x 2000 mm
- colour: RAL 7001 silver grey
- weight: approx. 81,7 kg net

Item-No.
93M10/1


Workshop Equipment



Storage Box

- made of PE plastic

W x D x H (outer dimensions)	Item-No.
103 x 160 x 75 mm	97M10/1
150 x 230 x 125 mm	97M10/2
210 x 350 x 145 mm	97M10/3
210 x 350 x 200 mm	97M10/4
315 x 500 x 200 mm	97M10/5
230 x 500 x 115 mm	97M10/6

 Colours: blue, red, yellow, green



Practibox Storage System

- plastic housing with clear plastic drawers

W x D x H	Number of drawers	Item-No.
600 x 170 x 206 mm	4	97M20/1
600 x 133 x 164 mm	5	97M20/2
600 x 91 x 112 mm	6	97M20/3



Wall Mount

- for „Practibox“ Storage System 97M20

W x H	Item-No.
600 x 500 mm	97M25/50
600 x 650 mm	97M25/65
600 x 1000 mm	97M25/100
600 x 1500 mm	97M25/150
600 x 1750 mm	97M25/175



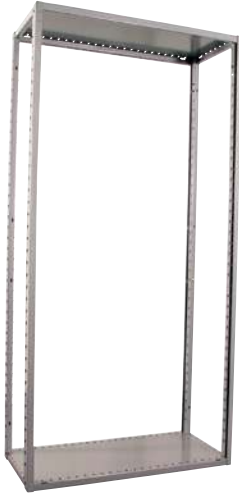
Cross Strut

- for shelf system 97M5, 97M7, 97M13
- for stabilisation, required for every third unit if mounted in a row

Height	Item-No.
2171 mm	97M12

scope of supply does not include the shelf system

Shelf System



- frame made of sheet metal, suitable for multi-functional and easily changeable fittings, simple mounting with plug in-connectors

Features

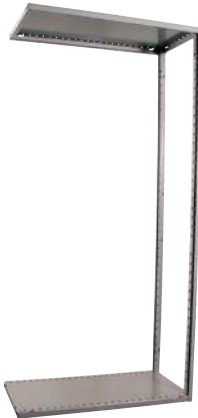
- 1 base panel
- 1 top panel
- 4 bearers

Technical data

- dimensions W x D x H: 1055 x 500 x 2171 mm
- shelf width: 995 mm
- max. load per shelf panel: 100 kg net
- colour: RAL 7001 silver grey
- weight: 24 kg net

Item-No.
97M7

Extension Unit



- for item 97M7, made of sheet metal

Features

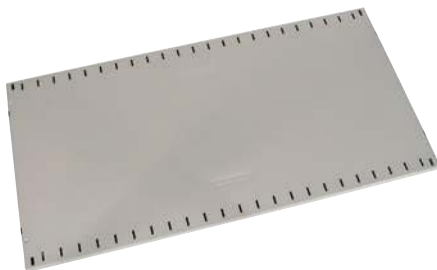
- 1 base panel
- 1 top panel
- 2 bearers

Technical data

- dimensions: W x D x H: 1025 x 500 x 2171 mm
- shelf width: 995 mm
- colour: RAL 7001 silver grey
- weight: 16,6 kg net

Item-No.
97M7/A

Shelf Panel



- for shelf system 97M7, sheet metal, stove-enamelled

Technical data

- dimensions W x D: 995 x 500 mm
- max. load per shelf panel: 100 kg net
- colour: RAL 7001 silver grey

Item-No.
97M8



Divider Panel

- for shelf system 97M7, zinc-plated, stand-alone
- divider panels in size 100 mm, 175 mm and 275 mm are mounted only on lower shelf panel
- divider panels in height 341 mm and 500 mm on lower and above positioned shelf panel

Height	Item-No.
100 mm	97M9/100
175 mm	97M9/175
275 mm	97M9/275
341 mm	97M9/341
500 mm	97M9/500



Rear Panel

- for shelf system 97M5, 97M7, 97M13, two-part

Technical data

- dimensions W x H: 995 x 2171 mm

Item-No.
97M10

scope of supply does not include panels and bearers



Side Panel

- for shelf system 97M7

Technical data

- dimensions W x H: 500 x 2171 mm

Item-No.
97M11

scope of supply does not include shelf panels



scope of supply does not include content

Panel Rack

- made of steel, plastic coated

Features

- 4 x shelf panels
- 2 x bearer frames

Technical data

- dimensions W x D x H: 2200 x 1100 x 2500 mm
- shelf panel size: 2000 x 1000 mm
- shelf depth: 1100 mm
- max. load per shelf level: 550 kg net
- bay load: 2200 kg
- colour: RAL 5010 blue
- weight: 177 kg net

Item-No.
97M1



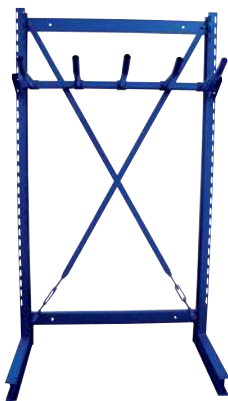
Shelf Panel

- for item 97M1, made of zinc-plated steel, incl. 2 plastic coated cross beams

Technical data

- dimensions: W x D: 2200 x 1100 mm
- colour: RAL 5010 blue
- weight: 37 kg net

Item-No.
97M2



picture similar

Storage Rack

- made of steel, plastic coated

Features

- 2 x side bearers
- 2 x cross beams
- 1 x cross beam with 5 tubular dividers

Technical data

- dimensions W x D x H: 1115 x 500 x 1980 mm
- colour: RAL 5010 blue
- weight: 50 kg net

Item-No.
97M3



Waste Container

- with zinc-plated insert, extractable to the front

Technical data

- dimensions: W x D x H: 450 x 450 x 870 mm
- colour: RAL 7001 silver grey
- weight: approx. 23,5 kg net

	Item-No.
	140M12

Plaster Casting & Plaster Modelling



Plaster Casting & Plaster Modelling

The increasing price pressure makes efficient, i. e. time- and cost reducing processes more important for a company than anytime in the past. In the plaster and modelling room, optimisation of the workflow is of special importance. The time consuming tasks can be reduced to a minimum by an efficient floor plan with properly placed equipment. Equipping the plaster- and modelling room demands special considerations concerning the project plan, as special constructions must be planned such as for example the integration of angled frames into the concrete floor. Of course we can offer especially coordinated equipment for the water supply and -drain.

In order to construct prostheses and orthopaedic aids, proper devices and tools are of enormous importance! With our construction- and casting devices, you are laying the corner stone for excellent functional properties and for optimal customer care.

The following pages represent a choice of our standard products. Of course, we also can offer special custom-made equipment for the plaster area.

We are looking forward to assist you with guidance and resources in order to realise your special demands to make the most out of your floor plan!



Plaster Casting & Plaster Modelling



Casting Apparatus with Baseplate

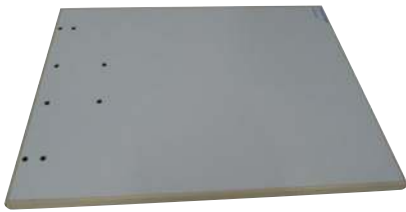
- for plaster casting under body load incl. base plate 145M21 and one casting ring set 145M22/S
- mobile use with transport castors and -handle
- space saving due to built-in folding mechanism
- quick-adjustment lever provides even easier height settings of the casting apparatus in seconds
- high quality, sturdy choice of material
- exact adjustment options by means of crank handle

Technical data

- space required: 2000 x 2000 mm
- dimensions W x D x H: 900 x 600 x 1120 mm

	Item-No.
	145M20

I The firmly mounted transport castors and -handle allow mobile use of the device by simply pulling or pushing it effortlessly to the requested location. Due to the integrated folding mechanism, the device can be stowed away or transported in a vehicle easily.



Baseplate

- for plaster casting apparatus 145M20

	Item-No.
	145M21



Attachment Plate

- for plaster casting apparatus 145M20, incl. 2 pressure wedges 145M24

	Item-No.
	145M23



Pressure Wedge

- for attachment plate 145M23 of plaster casting apparatus 145M20

	Item-No.
	145M24

Plaster Casting & Plaster Modelling



scope of supply does not include AK casting ring

Supporting Device for AK-plaster casting

- enables with 145M20 the processing of thigh plaster negative casts with AK casting rings under body load

	Item-No.
	145M30



Plaster Casting Apparatus with Baseplate and Supporting Device for AK-Plaster Casting

Complete set

- complete set with items 145M20 and 145M30
- enables the manufacture of thigh plaster negative casts with ischial containment thigh form rings under body load
- very well suited for patients with limited standing abilities
- mobile use with transport castors and -handle
- space saving due to built-in folding mechanism
- quick-adjustment lever provides even easier height settings of the casting apparatus in seconds
- high quality, sturdy choice of material
- exact adjustment options by means of crank handle

Technical data

- work space requirements: 2000 mm x 2000 mm
- dimensions W x D x H: 900 mm x 600 mm x 1120 mm

	Item-No.
	145M40

S The firmly mounted transport castors and -handle allow mobile use of the device by simply pulling or pushing it effortlessly to the requested location. Due to the integrated folding mechanism, the device can be stowed away or transported in a vehicle easily.

Plaster Casting & Plaster Modelling

AK Casting Ring Set

version „ischial containment“, with receiving bore for an AK-trial-measuring-system



Side	Circumference	Item-No.
left	36 cm	165P20/L36
right	36 cm	165P20/R36
left	37 cm	165P20/L37
right	37 cm	165P20/R37
left	38 cm	165P20/L38
right	38 cm	165P20/R38
left	39 cm	165P20/L39
right	39 cm	165P20/R39
left	40 cm	165P20/L40
right	40 cm	165P20/R40
left	41 cm	165P20/L41
right	41 cm	165P20/R41
left	42 cm	165P20/L42
right	42 cm	165P20/R42
left	43 cm	165P20/L43
right	43 cm	165P20/R43
left	44 cm	165P20/L44
right	44 cm	165P20/R44
left	45 cm	165P20/L45
right	45 cm	165P20/R45
left	46 cm	165P20/L46
right	46 cm	165P20/R46
left	47 cm	165P20/L47
right	47 cm	165P20/R47
left	48 cm	165P20/L48
right	48 cm	165P20/R48
left	49 cm	165P20/L49
right	49 cm	165P20/R49
left	50 cm	165P20/L50
right	50 cm	165P20/R50
left	52 cm	165P20/L52
right	52 cm	165P20/R52
left	54 cm	165P20/L54
right	54 cm	165P20/R54
left	56 cm	165P20/L56
right	56 cm	165P20/R56
left	58 cm	165P20/L58
right	58 cm	165P20/R58


Continues on next page

Plaster Casting & Plaster Modelling



AK Casting Ring Set (continuation)

Side	Circumference	Item-No.
left	60 cm	165P20/L60
right	60 cm	165P20/R60
left	62 cm	165P20/L62
right	62 cm	165P20/R62
left	64 cm	165P20/L64
right	64 cm	165P20/R64
set left + right	44 pieces, all sizes	165P20/S

 This technique guarantees a secure fixation of form rings for casting or for measuring the stump.



Multifunction Transfer Apparatus

- fixing of round and angular one- and two-way suction tubes and of diverse plaster model rods possible up to 35 mm
- fixing of the prosthetic socket can be done either with the tube adapter or with the S.A.C.H.-foot adapter
- horizontal shifting of the upper and lower fixing by 50 mm each is possible in order to transfer extreme socket positions
- firmly integrated, easily readable height scale (900 mm)
- high quality, durable materials
- steplessly rotatable by 360° degrees via wing screw


Technical data

- dimensions W x D x H: 240 x 330 x 1000 mm

Scope of supply

- multifunction transfer apparatus
- tube adapter
- S.A.C.H.-foot adapter
- two way vacuum pipe

Description	Item-No.
multifunction transfer apparatus	145M50
tube adapter	15A5/S100
S.A.C.H.-foot adapter	16A9/M10
2-way vacuum tube	168P78

 The multifunction transfer apparatus is steplessly rotatable by 360°!

scope of supply does not include bench vise and lift

Plaster Casting & Plaster Modelling

Cross Line Laser



- self-levelling for horizontal and vertical application for prosthetic alignment or as plumb-line for casting
- the Cross Laser is equipped with a „Quick Stop“ damping mechanism, which makes self-levelling even quicker and more precise
- beyond self-levelling range, the device turns off automatically
- the integrated „Quick Lock“ pendular blocking unit prevents damages caused by transport or dropping
- the cross laser is a line laser, generating a horizontal and vertical laser line

Technical data


- weight: 0,5 kg net
- measuring accuracy: $\pm 3 \text{ mm} / 10 \text{ m}$
- levelling range: $4^\circ (\pm 7\%)$
- battery: 3 x AA 1,5 V
- laser category: 2 (635 nm)
- auto shut-off

Accessories

- protective bag
- bracket
- aiming table
- batteries

Item-No.

145M25

 The cross line laser is quickly and easily to calibrate and the beam is well visible even in day light. Fields of application are prosthetics, orthotics and diagnosis.

Aluminum Tripod



- with crank handle, light weight, for item 145M25
- double adjustability of the stands, integrated level

Technical data

- height: 670 – 1880 mm
- rank lift: 300 mm
- weight: 1,5 kg net

Item-No.

145M26

Stainless Steel Basin



- for watering of plaster bandages

W x D x H	Volume	Item-No.
530 x 325 x 150 mm	21,0 liter	166P25/1
530 x 162 x 150 mm	9,0 liter	166P25/2

Plaster Casting & Plaster Modelling



Plaster Silo

Features

- sturdy design made of square steel tube
- container made of 1,5 mm sheet metal steel
- plaster discharge in front with slide
- fine allotable plaster quantity with conveyer screw
- cover lid easy to open with safe retention via 2 gas springs
- removable grate with opening device for plaster bags
- lid with dust seal

Technical data

- dimensions W x D x H: 750 x 750 x 1320 mm
- capacity: 340 litre / 320 kg
- conveyer screw: Ø 95 mm
- pipe: Ø 100 mm
- colour: RAL 7035 light grey

Version	Weight	Item-No.
without rollers	82 kg net	151M3
with rollers	88 kg net	151M3/F



Plaster Work Table

Features

- table top with stainless steel sheet metal cover, canted sides provide full protection of table top
- frame made of square steel tube, stainless steel
- left side with 2 galvanized depositing grates
- right side with 1 galvanized depositing grate

Technical data

- dimensions W x D x H: 1800 x 900 x 850 mm
- weight: 115 kg net

Item-No.
151M5

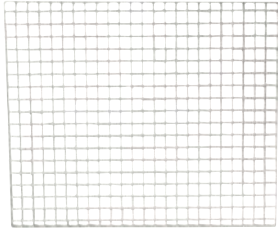


Pipe Vise

- with 4 different pipe receivers
- inner diameter: 35 mm, 28 mm, 22 mm and 15 mm

Weight	Item-No.
2 kg net	75M30


Plaster Casting & Plaster Modelling



Grate

- zinc-plated, mesh size 34 x 38 mm

W x D x H	Item-No.
700 x 830 x 30 mm	151M9

 Different sizes of grate-frames are custom-made upon customer's request!



Plaster-Grinding Basin

- ceramic, temperature resistant up to 65 °C

Technical data

- outside dimensions W x D x H: 700 x 500 x 200 mm
- colour: white
- weight: 36 kg net

Item-No.
151M8



Sink Base Cabinet

- for item 151M8, made of steel sheet with side panels and two height adjustable front legs, two rear mount links and two swing doors with handle

Technical data

- dimensions W x D x H: 685 x 480 x 650 mm
- colour: RAL 9016 white
- weight: 20 kg net

Item-No.
151M8/U



Holder for Wall-Mounting

- for item 151M8, square steel tube, 30 x 30 mm with height adjustable base and mounting set

D x H	Weight	Item-No.
480 x 650 mm	4 kg net	151M8/H

Plaster Casting & Plaster Modelling



Plaster Separation Sink

- plastic, consists of 2 sinks with drain valves
- 3-chamber-system

Technical data

- dimensions W x D x H: 430 x 300 x 320 mm
- space requirements W x D x H: 450 x 400 x 320 mm
- weight: 3,2 kg net

Item-No.
151M4



scope of supply does not include inlet-/outlet hose

Plaster Separator

- with closed 4-chamber separation system made from sturdy polypropylene
- easy and quick cleaning by means of insert foils
- absolutely tight lid prevents odors
- transparent material for visual control

Technical data

- total height: 320 mm
- drain height: 245 mm
- outer / inner Ø: 340 / 295 mm
- volume capacity: 14 litres
- inlet connection: 1 1/2"
- outer / inner Ø: 47 mm / 39 mm
- outlet connection: outer Ø 50 mm
- weight: 2,1 kg

Item-No.
151M14



Scope of supply includes 1 x replacement sheet. Accessories:
Flexible outlet hose 40/50 mm, length 750 mm, item-no.:
151M14/3, flexible inlet hose 1 1/2", length 500 mm, item-no.:
151M14/4

Insert Foils

- for plaster separator 151M14
- PU = 25 pieces



Item-No.
151M14/1

Plaster Casting & Plaster Modelling



Water Draining Pump

- for plaster separator 151M14
- for quick removal of the residual water from the plaster separator

Technical data

- total length: 480 mm
- stroke length: 135 mm
- flow volume: 100 ml / stroke
- material: aluminium

	Item-No.
	151M14/2



DENTABS

- plaster sink-sedimentation aid
- hinders the development of odours caused by mostly plaster
- incl. dosage basket

PU	Item-No.
Package with 12 pieces	116P18/12
Package with 25 pieces	116P18/25



Plaster Bandage Trolley

- mobile steel cabinet with 2 drawers, 2 swing doors and 1 adjustable built-in shelf, push handle, 4 guide rollers Ø 125 mm, 4 rubber wall bumpers and seamless table top with 3-sided gallery

L x D x H	Weight	Item-No.
630 x 580 x 930 mm	62 kg net	151M6/63
930 x 580 x 1080 mm	74 kg net	151M6/93

picture similar

Plaster Casting & Plaster Modelling



Plaster Waste Bin

- made of plastic

Technical data

- dimensions W x D: 830 x 570 mm
- capacity: 106 l

Version	Weight	Height	Item-No.
with base frame and with 2 moving castors and 2 fixed castors	10 kg net	550 mm	151M1
without base frame	6 kg net	400 mm	151M2
steel base with 4 castor wheels and with 2 moving castors and 2 fixed castors	4 kg net		151M1/U



Waste Bin

- made of plastic, round
- capacity: approx. 80 l

Version	Weight	Dimensions ø x h	Item-No.
without base frame	3,5 kg net	650 x 390 mm	151M10
with base frame with 1 moving castor and 2 fixed castors	7 kg	650 x 540 mm	151M11



without extension shelf

Basic Shelf Rack for Plaster Cast Models

- basic shelf, steel RAL 7001 silver grey, easy installation with connectors

Features

- 4 basic stands with diagonal tie bars
- 1 base panel
- 1 top panel
- 3 steel shelves
- 2 grate shelves

Technical data

- dimensions W x D x H: 1055 x 500 x 2171 mm
- load per shelf: 200 kg net
- weight: 65 kg net

Item-No.
97M5

Plaster Casting & Plaster Modelling



picture similar

Extension Shelf

- for item 97M5

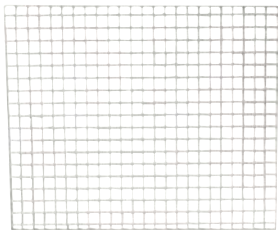
Features

- 1 base panel
- 1 top panel
- 2 stands with diagonal tie bars
- 1 cross brace
- 3 steel shelves
- 2 grate shelves

Technical data

- dimensions W x D x H: 1025 x 500 x 2171 mm
- load per shelf: 200 kg
- weight: 63 kg net

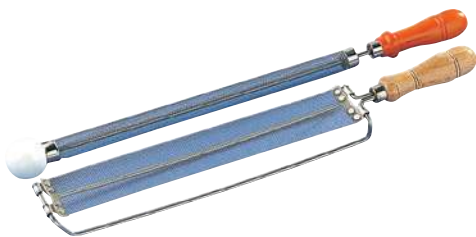
Item-No.
97M5/A



Grid Shelf

- for shelving system, 500 mm deep, weight capacity 200 kg

L x D x H	Weight	Item-No.
993 x 445 x 30 mm	11 kg net	97M6



Wire Mesh File

Length	Shape	Item-No.
280 mm	flat	158P5/F
300 mm	round	158P5/R



Spare Wire Mesh

Length	Shape	Item-No.
280 mm	flat	158P6/F
300 mm	round	158P6/R

Plaster Casting & Plaster Modelling



Plaster Bucket

- made of plastic with spout and graduation

Liter	Item-No.
10,5	164P1



Mixing Bowl

- made of rubber

Liter	Item-No.
0,5	164P7



Plaster Moulding Spatula

- one side oval pointed, one side rectangular, plastic coated handle

Width	Item-No.
12 mm	166P17/12
16 mm	166P17
20 mm	166P17/20



Modelling Spatula made of Plastic Material

- to gently remove HTV-silicone residue from mechanical and electronical silicone rollers / calenders
- perfectly suitable for modelling plaster, wax, plasticine and silicone
- PU = 1 piece

Colour	Length	Item-No.
blue	approx. 200 mm	166P24



Plaster Trowel

- stainless steel, with wooden handle

Width	Item-No.
40 mm	166P19/40
50 mm	166P19/50
60 mm	166P19/60

Plaster Casting & Plaster Modelling



Plaster Scoop

- stainless steel, Ø 100 mm, capacity 850 ml

Length	Item-No.
280 mm	166P18



Plaster Stirrer

- stainless steel, max. Ø approx. 85 mm

Length	Item-No.
500 mm	166P23



Plaster Mixer


- for airbubble-free mixing of plaster and liquid silicones
- for wall- or table mount
- vacuum device with maintenance-free injector pump
- sturdy and powerful motor
- easy installation
- automatic- and manual switch
- installed vibrator
- including mixing bowl 500 ml

Technical data

- dimensions W x D x H: 240 x 220 x 400 mm
- revolutions per minute: 425
- power requirements: 230 V / 50 Hz / 1 Ph / 0,25 kW
- weight: 15 kg
- colour: white

Item-No.
90E20

Scope of supply does not include tripod.

 For all maintenance work at the plaster mixer, we recommend to use the special oil for plaster mixer, item-no. 90E20/E1 (volume 500 ml).

Mixing Bowl for Plaster Mixer 90E20

- mixing bowl with agitator
- for mixing liquid plaster and RTV-silicones



Filling quantity	Material	Item-No.
300 ml	Plastic	90E20/300
500 ml	Plastic	90E20/500
875 ml	Plastic	90E20/875
1200 ml	Steel	90E20/1200

90E20/500

Orthopaedic Shoe Technology

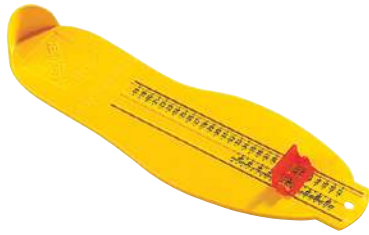


Orthopaedic Shoe Technology

The orthopaedic shoe technology aims on production and repair of shoe inserts and orthopaedic bespoke shoes. For manufacturing and finishing of for example customised shoe inserts, you will need special grinding- and finishing machines, for which we also are able to offer matching tools and accessories.



Orthopaedic Shoe Technology



Foot Measuring Device „Heider“

- material: impact-proof polystyrene
- scale: from 18 to 47 and from 2 to 12

Length	Item-No.
335 mm	163P5



Podotrack®

Material

- patented imprinting measurement chart for quick foot pressure analysis

Application

- imprinting measurement chart for early detection of foot pressure problems, such as for example flat-, splay-, hollow- or club feet, usable for diabetic or rheumatic foot syndrome
- for diagnostic documentation by professionals in orthopaedics, podiatry or sports science

Characteristics

- simple and hygienic use, transportable and usable anywhere; for static and dynamic foot pressure analyses

PU = 100 pieces

Length x Width	Item-No.
390 x 160 mm	98P8



Please follow the instruction manual!



Foot Imprint Device

- ink roller, ink, contour scribe, rubber raster plate, pad with 100 blank foot imprint charts and 10 pieces protective foil for foot hygiene

Item-No.
98P4

without picture

Rubber Grid Plate

- for item 98P4

Dimensions	Item-No.
420 x 235 x 2 mm	98P4/E

Orthopaedic Shoe Technology



Paint Roller

- for item 98P4

	Item-No.
	98P4/R



Foot Imprint Chart Pad

- for item 98P4
- PU = 100 Sheets

Dimensions	Item-No.
380 x 165 mm	98P5/G
400 x 140 mm	98P5



Ink

- without oil

Contents	Colour	Item-No.
27 ml	Blue	210V41



Shoemaker's Anvil

- cast iron, galvanized

Weight	Item-No.
2 kg net	164P15

Cobbler's Stand

- 6 inserts, height adjustable up to max. 930 mm
- for working seated or standing



picture similar

Weight	Item-No.
24 kg net	164P13



Adhesive Work Station

with integrated exhaustor

Features

- cabinet with 3 drawers 180 mm on the right side
- left table leg with grounded socket, switch, compressed air quick-coupling, manometer, compressed air control
- bench top with integrated grid for applying adhesive
- exhaustor size 1, suction nozzle Ø 100 mm
- 3 m exhaust hose
- 3 m power cord with grounded plug

Technical data

- dimensions W x D x H: 1260 x 630 x 760 mm
- suction capacity: 150 m³/h
- colour: RAL 7035 light grey / 7037 medium grey
- power requirements: 230 V / 50 Hz / 1 Ph / 0,018 kW

Item-No.
90M10



Caution! The adhesive work station is destined only for the extraction of fumes during the processing of solvent-based adhesives! See chapter lamination station and deep drawing technology for suitable suction arms.



Adhesive Work Station

with integrated exhaustor

Features

- cabinet with 3 drawers 180 mm on the right side
- left table leg with grounded socket, switch, compressed air quick-coupling, manometer, compressed air control
- extendable grid for applying adhesive
- exhaustor size 1, suction nozzle Ø 100 mm
- 3 m exhaust hose
- 3 m power cord with grounded plug

Technical data

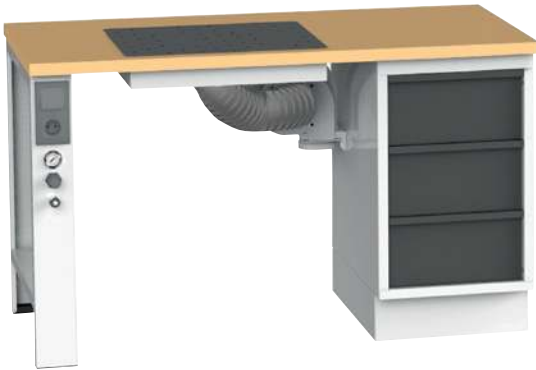
- dimensions W x D x H: 1260 x 630 x 760 mm
- suction capacity: 150 m³/h
- colour: RAL 7035 light grey / 7037 medium grey
- power requirements: 230 V / 50 Hz / 1 Ph / 0,018 kW

Item-No.
90M11



Caution! The adhesive work station is destined only for the extraction of fumes during the processing of solvent-based adhesives! See chapter lamination station and deep drawing technology for suitable suction arms.

Orthopaedic Shoe Technology



picture similar

Adhesive Work Station

with integrated exhaustor and active carbon filter

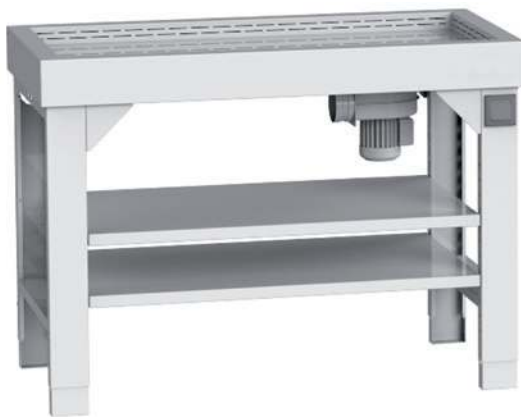
Features

- cabinet with 3 drawers 180 mm on the right side
- left table leg with grounded socket, switch, compressed air quick-coupling, manometer, compressed air control
- bench top with integrated grid for applying adhesive
- exhaustor size 1, suction nozzle Ø 100 mm
- active carbon filter including mounting device
- 3 m power cord with grounded plug

Technical data

- dimensions W x D x H: 1260 x 630 x 760 mm
- suction capacity: 150 m³/h
- colour: RAL 7035 light grey / 7037 medium-grey
- power requirements: 230 V / 50 Hz / 1 Ph / 0,018 kW

Item-No.
90M12



Adhesive Suction Table

Features

- lowered application surface, surrounded with suction slots
- integrated exhaustor
- adjustable working height
- two adjustable shelves
- exhaust connector: Ø 100 mm, incl. 3 m suction hose

Technical data

- dimensions W x D x H: 1260 x 630 x 850-1040 mm
- power requirements: 230 V / 50 Hz / 1 Ph
- colour: RAL 7035 light grey

Exhaust volume	Power requirements	Weight	Item-No.
150 m ³ /h	0,018 kW	58 kg	90M15/1523
350 m ³ /h	0,09 kW	59 kg	90M16/1523

Caution: The adhesive suction table is approved only to exhaust vapors occurring during working with adhesives containing solvents. The adhesive suction table is optionally available with activated carbon filter incl. mounting (item-no 90M17).



Shoemaker's Stool

- beech tree wood, 4 legs with cross beam

Height	Weight	Item-No.
approx. 470 mm	4 kg net	140M2



Shelf System

- made of sheet metal, suitable for multi-functional and easily changeable fittings, simple mounting with plug-in connectors

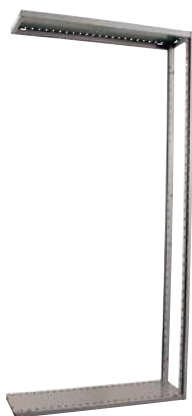
Features

- 1 base panel
- 1 top panel
- 4 bearers

Technical data

- dimensions: W x D x H: 1055 x 300 x 2171 mm
- shelf width: 995 mm
- max. load per shelf panel: 100 kg net
- colour: RAL 7001 silver grey
- weight: 22 kg

Item-No.
97M13



Extension Unit

- for item 97M13, made of sheet metal

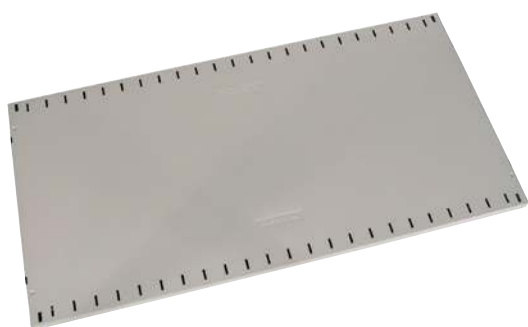
Features

- 1 base panel
- 1 top panel
- 2 bearers

Technical data

- dimensions: W x D x H: 1025 x 300 x 2171 mm
- shelf width: 995 mm
- colour: RAL 7001 silver grey
- weight: 21 kg net

Item-No.
97M13/A



Shelf Panel

- for shelf system 97M13, made of sheet metal, stove-enamel coated

Technical data

- dimensions W x D: 995 x 300 mm
- max. load per shelf panel: 100 kg net
- colour: RAL 7001 silver grey
- weight: 2,7 kg net

Item-No.
97M14



Eyelet Punch Press

- manual arbor press for insertion of eyelets, hooks and snap fasteners, as well as for hole punching
- comes with thread M6 for upper die


Range	Item-No.
150 mm	168P1



Die for Eyelet

- for item 168P1
- PU = 1 piece

Dimensions	Item-No.
7 x 4 x 4,5 mm	W60P4
8 x 4 x 5 mm	W60P5
9 x 4 x 5 mm	W60P6
10 x 5 x 5,5 mm	W60P8
12 x 6 x 6 mm	W60P10
15 x 8 x 6 mm	W60P12

 Please refer to our materials catalogue for matching eyelets!



Die for Lacing Hook

- for item 168P1
- PU = 1 piece

Lacing hook	Item-No.
6,5 x 8 mm	W62P1
9 x 10 mm	W62P5


 Please refer to our materials catalogue for lacing hooks!

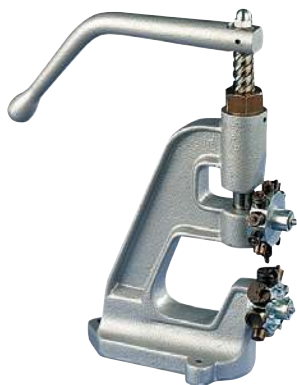


Die for Snap Fastener

- for item 168P1
- PU = 1 piece

Snap rivet	Item-No.
13 mm	W64P12
15 mm	W64P13

 Please refer to our materials catalogue for matching snap fasteners!



Revolving Eyelet Punch Press

- turret manual arbor press, consists of 10 different dies resp. inserts
- for eyelets, hooks and snap fasteners, also for hole punching

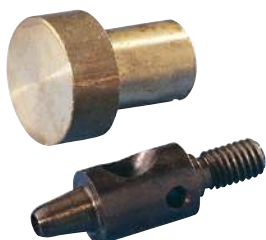
Range	Item-No.
105 mm	168P20



Replacement Parts

- for item 168P20, dies always consist of one upper and one lower die

Spare part	Size	Item-No.
Upper die kit, small	1	168P20/1
Upper die kit, medium	2	168P20/2
Upper die kit, large	3	168P20/3
Hole punch	3,0	168P20/3,0
Hole punch	4,5	168P20/4,5
Hole punch	6,0	168P20/6,0
Snap fastener die	4	168P20/4
Snap fastener die	5	168P20/5
Hook die	6	168P20/6
Hook die	7	168P20/7
Brass support	8	168P20/8



Hole Punch and Brass Support

- for Eyelet Punch Press 168P1 or Revolver Eyelet Punch Press 168P20

Hole diameter	Item-No.
2 mm	162P3/2
3 mm	162P3/3
4 mm	162P3/4
5 mm	162P3/5

Orthopaedic Shoe Technology



Crimping Tool

- for the attachment of shoe lace tips

Weight	Item-No.
5 kg	165P2



Manual Rolling Mill

- for splitting and levelling of leather, rubber or plastic, exact parallel guide via rollers and gear wheel transmission

Technical data

- dimensions W x D x H: 470 x 250 x 440 mm
- base area: 240 x 300 mm
- working width: 140 mm
- splitting and equalizing range: 2 – 8 mm
- weight: 25 kg net

Item-No.
70M2



Paring and Trimming Machine

- for leather, rubber and other materials
- adjustable protective guard avoids damage of leather and welt

Technical data

- dimensions W x D x H: 340 x 260 x 360 mm
- base area: 150 x 150 mm
- trimming width: 70 mm
- paring and trimming range: max. 30 mm
- weight: 15 kg net

Item-No.
70M3

Orthopaedic Shoe Technology



Cutting-, Levelling-, Sharpening-, Splitting- and Pressure Machine

- to proces all types of leather, rubber and other materials - except for hard materials and metals
- with long steel arm and welt pressing device

Technical data

- dimensions W x D x H: 560 x 200 x 550 mm
- footprint: 130 x 190 mm
- cutting: to 190 mm width, material thickness: 0,5 – 6 mm
- sharpening and splitting: to 30 mm, material thickness: 2 – 8 mm
- weight: 20 kg net

	Item-No.
	70M4



Cutting wheel

- spare part for item 70M4

	Item-No.
	70M4/R



Shoe Stretcher „Eupedus“

- „double boot unit“, incl. 2 sets of shoe lasts and rests

Weight	Item-No.
30 kg net	70M1/DST



Shoe Stretcher „Eupedus“

- „single boot unit“, incl. 1 set of shoe lasts and rest

Weight	Item-No.
20 kg net	70M1/ST



Vacupress 850 Deep Drawing Device

- for orthopaedic technology

Features

- vacuum pump with circulating oil lubrication
- vacuum flow: 25 m³/h
- vacuum vessel: 25 l
- adjustable vacuum control: -0,45 bar to -0,95 bar
- vacuum max.: -0,95 bar / 5 mbar absolute
- additional vacuum connection for external vacuum consumers
- water separation
- 3 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 960 x 1050 x 1070 mm
- frame size: 850 x 685 mm
- power requirements: 400 V / 50/60 Hz / 3 Ph / 0,75 kW at 50 Hz 0,9 kW at 60 Hz
- weight: approx. 145 kg

Item-No.
168P505



Can be used for central vacuum unit in the workshop!

Orthopaedic Shoe Technology

Vacupress, Deep-Drawing Unit

Tabletop device for connection to an external vacuum pump

Features

- equipped with a soft flexing mat
- manual vacuum adjustment
- vacuum and ventilation separately adjustable
- connection with 3 m vacuum hose \varnothing 13 mm (inner \varnothing)
- with integrated small-filter and non-return valve

Technical data

- frame dimensions W x D (outer dimensions): 350 x 570 mm
- outer dimensions W x D x H: 360 x 660 x 180 mm
- weight: 18 kg



open



closed

	Item-No.
	168P530

Vacupress DUAL, Deep-Drawing Unit

with a frame that is double as broad

- tabletop device for connection to an external vacuum pump

Features

- equipped with a soft flexing mat
- manual vacuum adjustment
- vacuum and ventilation separately adjustable
- connection with 3 m vacuum hose \varnothing 13 mm (inner \varnothing)
- with integrated small-filter and non-return valve

Technical data

- frame dimensions W x D (outer dimensions): 570 x 570 mm
- outer dimensions W x D x H: 610 x 660 x 140 mm
- weight: 22 kg



open



closed

	Item-No.
	168P530/D



Vacuum Pump

- for item 168P530 and 168P530/D
- also suitable for mobile use

Features

- oil- and maintenance free
- filter / water separator 1/4"
- manual ON / OFF switch integrated in electric cord
- connection with 3 m vacuum hose \varnothing 13 mm (inner \varnothing)

Technical data

- quoted suction volume: 6m³/h = 6000 l/h
- final pressure: 60 mbar
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / 0,27 kW
- dimensions incl. accessory W x D x H: 280 x 200 x 265 mm
- weight: 9,5 kg

Item-No.

168P533



We recommend the filter/water trap 1/4" Item-No. 168P532!

without picture

Filter / Water Trap 1/4"

- accessory for item 168P533

Technical data

- connection: 1/4"
- for vacuum hose: \varnothing 13 mm (inner \varnothing)

Item-No.

168P532



Vacupress 620 SIII

- table-top deep-drawing device

Features

- vacuum- and electronically time-controlled autom. heating
- heating grid, sidewise extractable
- metallised crystal panel heating
- heating period adjustable with digital timer
- LED display
- 3 heating units which can be activated separately, each unit includes 3 heating pipes
- „Unilock“ single lever quick-action clamp for sheet material or milling maths 0,1 – 7,0 mm
- without adjustment, horizontally mobile
- work place lighting
- oil- and maintenance free
- 3 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 750 x 590 x 1050 mm
- frame size: 450 x 600 mm
- vacuum aggregate: 0,45 kW / 12 m³/h
- heating: 5400 W, infrared, 9-lines
- power requirements: 400 V / 50 – 60 Hz / 3 Ph / 5,9 kW
- colour: RAL 7035/5017 light grey/medium blue
- weight: 147 kg net

Item-No.

168P500

Orthopaedic Shoe Technology



Cabinet with Drawers

- also suitable for item 168P500

Features

- 4 drawers on ball-bearings with drawe slide lock, max. load per drawer 60 kg
- aluminum ledge with label strip
- central locking

Technical data

- dimensions W x D x H: 640 x 645 x 820 mm
- colour: RAL 7035 light grey
- weight: 82 kg

Number of drawers	Drawer x height	Item-No.
4	1 x 60 mm, 1 x 120 mm, 2 x 180 mm	93M10/7

without picture

Heat Monitoring Switch

- for 168P500, 3-step, for individual monitoring of the 3 heating elements

Item-No.
168P501



Recommended for regular activating works.



Base Cabinet

- for item 168P500
- with 2 shelves, including castor swivels, lockable

Technical data

- dimensions W x D x H: 575 x 630 x 780 mm
- colour: RAL 7035 light grey
- weight: 36 kg

Item-No.
168P502



The convection oven size 1 (item-no. 168P503) can be integrated without problems.

without vacupress and oven

Orthopaedic Shoe Technology



Rubber Board

- for item 168P500

W x D x H	For item	Item-No.
600 x 450 x 1,2 mm	168P500	168P510



Rubber Mat

- for item 168P500, 168P505, 168P530 and 168P530/D, soft, very elastic

W x D x H	For item	Item-No.
600 x 450 x 2,0 mm	168P500	168P516
850 x 680 x 2,0 mm	168P500	168P517
700 x 510 x 2,0 mm	168P530	168P519
700 x 700 x 2,0 mm	168P530/D	168P518



Convection Oven Size 1

consistent with base frame 168P502

- for item 168P502

Features

- casing inside and outside made of stainless steel
- door with big window, opening to the front
- both sides of the door are suspended on springs
- 1 grate / 1 tray as a standard feature
- heating control light
- thermostat steplessly adjustable from 50 °C – 250 °C
- timer steplessly adjustable 0 – 120 min
- ON/OFF control light

Technical data

- 1 fan motor
- heating: 1 x 2400 W
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / 2,5 kW
- outer dimensions W x D x H: 527 x 450 x 316 mm
- inner dimensions W x D x H: 404 x 308 x 254 mm
- weight: 20 kg

Item-No.
168P503

Orthopaedic Shoe Technology



Orthopaedic High-speed Press

with separate heel press and integrated compressor unit

Features

- 3/4 sole cushions with constant cushion filling
- separate heel press
- long V-type pressure arm
- 12 pairs internal pressure plates
- orthopaedic presses attached to right and left side, clearance 450 mm
- both pressure arms with full cushions
- bottom construction with door and compressor unit
- 3 m power cord with grounded plug

Technical data

- dimensions W x D x H: 1130 x 615 x 2000 mm
- power requirements: 230 V / 50 Hz / 1 Ph / 1,1 kW
- colour: RAL 7035 light grey

Item-No.

168P92/1523



Orthopaedic High-speed Press

with separate heel press for connection to existing compressed air unit

Features

- 3/4 sole cushions with constant cushion filling
- separate heel press
- long V-type pressure arm
- 12 pairs internal pressure plates
- orthopaedic presses attached to right and left side, clearance 450 mm
- both pressure arms with full cushions
- bottom construction with door

Technical data

- dimensions W x D x H: 1130 x 615 x 1900 mm
- colour: RAL 7035 light grey
- weight: 320 kg

Item-No.

168P93



Orthopaedic Press

with built-in compressor unit

Features

- two pressure arms, clearance 450 mm
- one full cushion
- one semi-high cushion
- bottom construction with door and compressor unit
- 2 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 630 x 615 x 1900 mm
- power requirements: 400 V / 50 Hz / 3 Ph / 0,55 kW
- colour: RAL 7035 light grey
- weight: 167 kg

Item-No.

168P94/3540

Orthopaedic Shoe Technology



Orthopaedic Press

for connection to existing compressed air unit

Features

- two pressure arms, clearance 450 mm
- one full cushion
- one semi-high cushion
- bottom construction with door

Technical data

- dimensions W x D x H: 560 x 615 x 1900 mm
- colour: RAL 7035 light grey
- weight: 146 kg

Item-No.

168P95



Internal Pressure Plate Set

- for items 168P550, 168P92, 168P93
- PU = 24 pairs

Item-No.

168P555



Pressure Cushion

- for items 168P550, 168P552, 168P92, 168P93, 168P94, 168P95
- medium-high for rapid press, exchangeable with plug-in fitting

Item-No.

168P556



Three-Quarter Cushion

- for items 168P550, 168P552, 168P92, 168P93, 168P94, 168P95
- for rapid press, exchangeable with plug-in fitting

Item-No.

168P558



Full Cushion

- for items 168P550, 168P552, 168P92, 168P93, 168P94, 168P95
- for rapid press, exchangeable with plug-in fitting

	Item-No.
	168P559



Zig-zag Double Lockstitch Sewing Machine

Features

- with bottom feed
- electric motor
- infinitely adjustable zig-zag extended stitch width
- for processing of thin and thick materials
- needle system 134R
- AC starter motor
- integrated knee lever
- finger-, belt- and thread lever protection
- zipper foot, open on right side
- table with treadle and drawer
- LED spot lamp
- 2 m power cord with grounded plug

Technical data

- dimensions W x D x H: 1050 x 500 x 1500 mm
- stitches: max. 5000/min
- stitch width: max. 6 mm
- stitch length: max. 5 mm
- clearance below foot presser: max. 7 mm
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / 0,25 kW
- weight: approx. 55 kg net

	Item-No.
	40M5

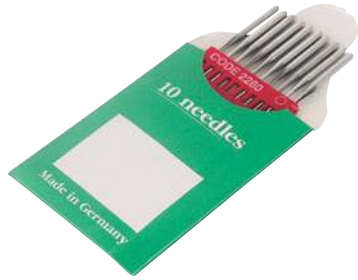
 Other models and used equipment available upon request!



Spare Bobbin for Zig-Zag Double Lockstitch Sewing Machine 40M5

- for item 40M5

	Item-No.
	40M5/E1



Sewing Machine Needle

- for item 40M5
- needle system 134R
- PU = 10 pieces

Size	Item-No.
0,7 mm	157P20/70
0,8 mm	157P20/80
0,9 mm	157P20/90
1,0 mm	157P20/100
1,1 mm	157P20/110



Adler Long-Arm Sewing Machine 30/10

- for light upper leather

Features

- feeder rotatable in all directions
- adjustable thread lever
- Adler foot operation stand with drawer (only 40M1/F)
- 2 m power cord with grounded plug (only 40M1/E)

Technical data

- dimensions W x D x H: 850 x 500 x 1140 mm
- arm length: 470 mm
- stitches: max. 350/min
- stitch length: max. 5 mm
- presser foot travel: max. 8 mm
- weight: approx. 90 kg net

Version	Item-No.
with foot pedal	40M1/F
with motor (230 V / 50 – 60 Hz / 1 Ph / 0,37 kW)	40M1/E



Used equipment available upon request!



Adler Long-arm Sewing Machine 30/70

- for heavy and strong leather

Features

- feeder rotatable in all directions
- adjustable thread lever
- alternating current starter motor with primary reduction gear, Adler-foot and motor operation stand, 2 m power cord with grounded plug (only 40M2/E)

Technical data

- dimensions W x D x H: 850 x 500 x 1140 mm
- arm length: 470 mm
- stitches: max. 300/min
- stitch length: max. 5 mm
- presser foot travel: max. 12 mm
- weight: approx. 90 kg net

Version	Item-No.
with foot pedal	40M2/F
with motor (230 V / 50 – 60 Hz / 1 Ph / 0,37 kW)	40M2/E



Used equipment available upon request!



Sewing Machine Needle

- for item 40M1 und 40M2
- PU = 10 pieces

For item	Size	Item-No.
40M1	1,0 mm	157P40/100
40M1	1,1 mm	157P40/110
40M1	1,2 mm	157P40/120
40M1	1,3 mm	157P40/130
40M1	1,4 mm	157P40/140
40M1	1,6 mm	157P40/160
40M2	1,0 mm	157P30/100
40M2	1,1 mm	157P30/110
40M2	1,3 mm	157P30/130
40M2	1,4 mm	157P30/140

Orthopaedic Shoe Technology



Single Needle Double Stitch Post Bed Sewing Machine

- for light to medium weight materials
- suitable for ornamental and attachment seams as well as edged hems for shoe shafts and shaft parts

Features

- latest easy to use technology
- including resopal table, fully assembled
- needle up and down position
- controlled sewing speed
- needle system 134

Technical data

- stitches per minute: max. 3000
- stitch length: max. 4,5 mm
- top roller Ø: 35 mm
- power requirements: 230 V / 50 – 60 Hz / 1 ph / 0,37 kW
- weight: 85 kg

	Item-No.
	40M4



Lockstitch Sewing Machine

- universally applicable for strongest materials

Features

- feed via upper presser foot
- pressure infinitely adjustable
- 2,5 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 620 x 550 x 1640 mm
- stitches: max. 160 per minute
- stitch length: 3 – 14 mm
- sewing capacity: max. 27 mm
- power requirements: 400 V / 50 Hz / 3 Ph / 0,75 kW
- colour: RAL 7035/7037 light grey/dust grey
- weight (in wooden box): 195 (240) kg

For item	Item-No.
40M2	40M7



Sewing Machine Needle

- for item 40M7

Size	Item-No.
4 mm	157P45/4
6 mm	157P45/6

Orthopaedic Shoe Technology



Heavy Duty Thread

- for item 40M7

Colour	Weight	Item-No.
White	350 g	99T5



Skiving Machine

- only suitable for machining of upper leather

Features

- incl. table
- transport motor
- integrated dust suction ventilator
- 2 m power cord with grounded plug

Technical data

- dimensions W x D x H: 1050 x 550 x 1150 mm
- power requirements: 230 V / 50 Hz / 1 Ph / 0,75 kW
- weight: 87 kg net / 150 kg gross

Item-No.
40M9


 Other models available upon request!



Table Sander

Features

- tool holder M16 or 5/8"
- integrated extraction
- foldaway and removable hood for dust reduction, incl. dust bag
- 2 m power cord with grounded plug
- without tool heads

Technical data

- speed 2820 RPM
- dimensions W x D x H: 430 x 360 x 400 mm
- power requirements: 230 V / 50 Hz / 1 Ph / 0,55 kW
- colour: RAL 7035 light grey
- weight: 16 kg

Tool holder	Item-No.
M16	10M20/16
5/8"	10M20/58

picture similar

without picture

Filter Bag

- accessory to 10M20

	Item-No.
	10M20/F



Combined Finishing Machine


Features

- integrated suction unit
- additional motor with naumkeag sander
- twin cutter: heel cutter on top, sole cutter on bottom
- front taper Ø 80 mm with bayonet closure (MK3)
- 2 sanding belts
- revolving polishing tools with 3 reversible shafts and 6 polishing tools, switching between tools by means of handwheel
- 3 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 1300 x 815 x 1615 mm
- sanding belt width: 1 x 40 mm, 1 x 100 mm
- sanding belt length: 1650 mm, contact wheel: Ø 170 mm
- power requirements: 400 V / 50 Hz / 3 Ph / 4,31 kW
- colour: RAL 7035 light grey
- weight: 415 kg

	Item-No.
	96M20/3540

 Other models available upon request!



Horsehair Wheel Brush

- for item 96M20, 96M6

Dimensions	Colour	Item-No.
240 x 60 mm	brown	161P15/B



Buffing Wheel

- for item 96M20, 96M6

Dimensions	Item-No.
200 x 60 mm	161P16

Trimming and Sanding Machine




Features

- integrated suction unit
- additional motor with naumkeag sander
- twin cutter: heel cutter on top, sole cutter on bottom
- front taper Ø 80 mm with bayonet closure (MK3)
- 2 sanding belts
- 3 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 1200 x 815 x 1615 mm
- 1 x sanding belt: 40 x 1650 mm, contact wheel: Ø 170 mm
- 1 x sanding belt: 100 x 1480 mm, contact wheel: Ø 110 mm
- power requirements: 400 V / 50 Hz / 3 Ph / 3,76 kW
- colour: RAL 7035 light grey
- weight: 370 kg

	Item-No.
	96M21/3540


 Other models available upon request!

Sanding Drum

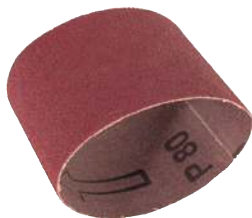


- for item 96M21, on bayonet, for main shaft, left

Dimensions	Item-No.
48 x 60 mm	161P17

 For item 96M7 available upon request.

Sanding Sleeve



- for item 161P17
- PU = 10 pieces

Dimensions	Grit	Item-No.
190 x 48 mm	K 24	161P18/24
190 x 48 mm	K 80	161P18/80
190 x 48 mm	K 120	161P18/120

Guide



- for sanding drum 161P17

	Item-No.
	161P18

Orthopaedic Shoe Technology



Belt Sanding Machine


Features

- integrated suction unit
- additional motor with naumkeag sander
- front taper Ø 80 mm with bayonet closure (MK3)
- 2 sanding belts
- 3 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 750 x 815 x 1615 mm
- 1 x sanding belt: 40 x 1650 mm, contact wheel: Ø 170 mm
- 1 x sanding belt: 100 x 1480 mm, contact wheel: Ø 110 mm
- power requirements: 400 V / 50 Hz / 3 Ph / 2,1 kW
- colour: RAL 7035 light grey
- weight: 235 kg

	Item-No.
	96M22/3540

 Other models available upon request!



Trimmer, complete

- for items 96M20, 96M21 and 96M22
- left-hand cutting, on bayonet, for cutter without shoulder in dura quality

Trimming width	Item-No.
2,5 mm	161P9/25
3 mm	161P9/30
4 mm	161P9/40
5 mm	161P9/50
6 mm	161P9/60
8 mm	161P9/80
10 mm	161P9/100

 For items 96M6, 96M7 and 96M8 available upon request.



Replacement Cutter

- for item 161P9, left-hand cutting


Trimming width	Item-No.
2,5 mm	161P9/25E
3 mm	161P9/30E
4 mm	161P9/40E
5 mm	161P9/50E
6 mm	161P9/60E
8 mm	161P9/80E
10 mm	161P9/100E



Heel Cutter Head

- for item 96M21
- left-hand cutting, with 18 mm cutter, adjustable width via protective cap

Width	Item-No.
18 mm	161P10

 For item 96M7 available upon request.



Replacement Cutter

- for item 161P10

Width	Item-No.
18 mm	161P10/E



Egg Shape Rasp Head

- for items 96M20, 96M21 and 96M22
- left-hand cutting on bayonet

Ø Head x length	Item-No.
25 x 35 mm	161P11

 For items 96M6, 96M7 and 96M8 available upon request.



Finger Shape Rasp Head

- for items 96M20, 96M21 and 96M22
- left-hand cutting on bayonet

Ø Head x length	Item-No.
25 x 50 mm	161P12


 For items 96M6, 96M7 and 96M8 available upon request.



Sole Trimmer

- for items 96M20, 96M21 and 96M22
- arched on bayonet

Width	Item-No.
20 mm	161P14

 For items 96M6, 96M7 and 96M8 available upon request.

Sanding Sleeves



- for item 96M20, 96M21, 96M22, 96M6, 96M7 and 96M8
- left fold, arched, Ø 90 mm
- PU = 10 pieces

Grit	Item-No.
K 60	161P55/60
K 80	161P55/80
K 100	161P55/100
K 120	161P55/120

Tapered Sleeves



- for item 96M20, 96M21, 96M22, 96M6, 96M7 and 96M8
- for heel breaster
- PU = 1 piece

Grit	Item-No.
K 40	161P13

Sanding Belt



- endless, for shoemakers' machines
- EM = External Make

L x W / grit	for machine	Item-No.
1480 x 40 mm / K 24	EM	107P51/24
1480 x 40 mm / K 40	EM	107P51/40
1480 x 40 mm / K 60	EM	107P51/60
1480 x 40 mm / K 80	EM	107P51/80
1480 x 40 mm / K 120	EM	107P51/120
1480 x 100 mm / K 24	96M7, M8, M21, M22	107P52/24
1480 x 100 mm / K 40	96M7, M8, M21, M22	107P52/40
1480 x 100 mm / K 80	96M7, M8, M21, M22	107P52/80
1650 x 40 mm / K 24	96M6, 96M7, M8, M20, M21, M22	107P53/24
1650 x 40 mm / K 40	96M6, 96M7, M8, M20, M21, M22	107P53/40
1650 x 40 mm / K 80	96M6, 96M7, M8, M20, M21, M22	107P53/80
1650 x 40 mm / K 12	96M6, 96M7, M8, M20, M21, M22	107P53/120
1650 x 100 mm / K 24	96M20	107P54/24
1650 x 100 mm / K 40	96M20	107P54/40
1650 x 100 mm / K 80	96M20	107P54/80
1650 x 100 mm / K 120	96M20	107P54/120
1390 x 100 mm / K 24	EM	107P55/24
1390 x 100 mm / K 40	EM	107P55/40
1390 x 100 mm / K 80	EM	107P55/80



Halogen-Infralux Processor

- for processing of solvent-free adhesives

Features

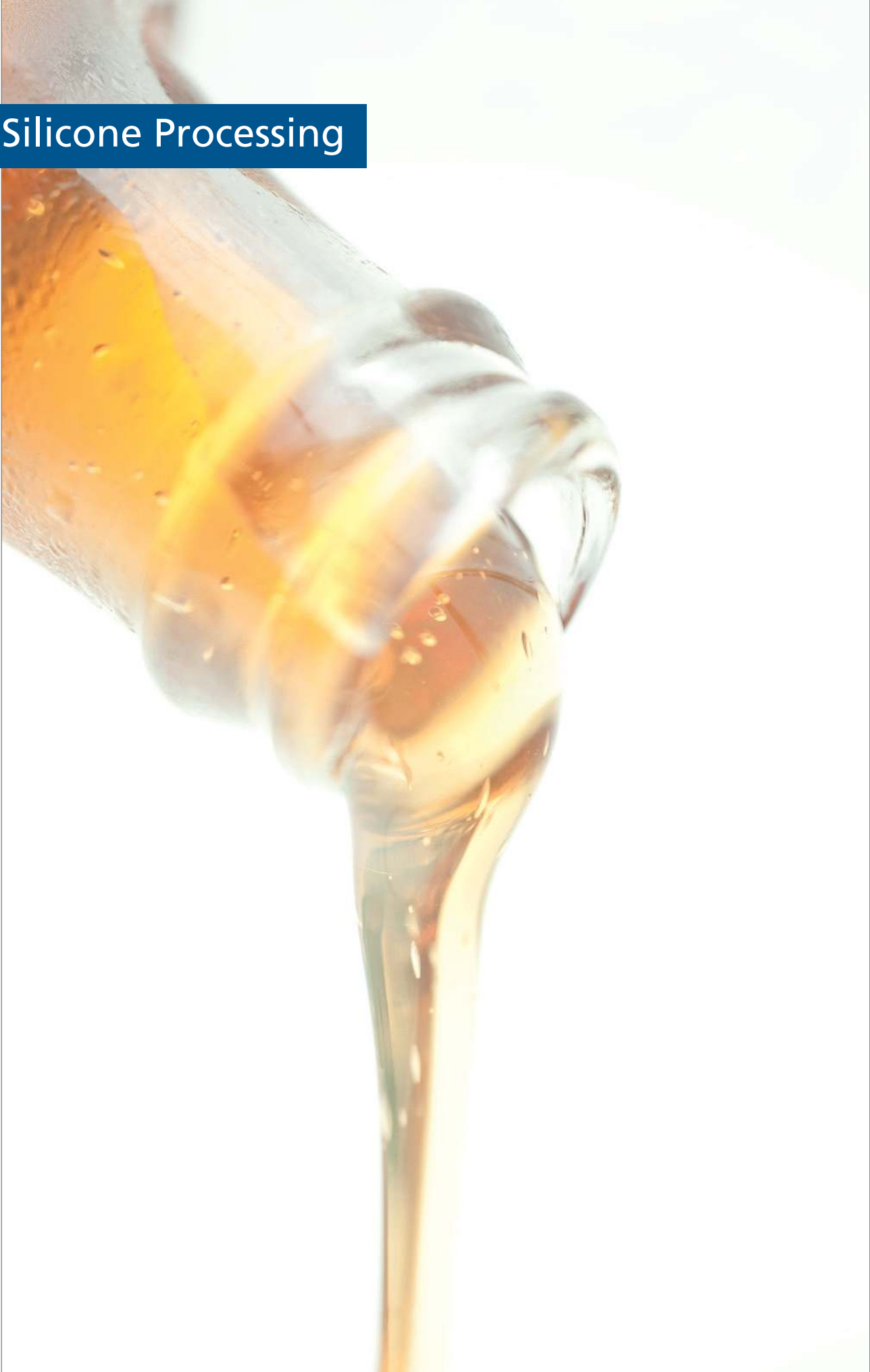
- switchable lamp (halogen-quartz light)
- handle
- ventilator to avoid heat congestion

Technical data

- space requirements W x D x H: 330 x 430 x 630 mm
- power requirements: 230 V / 50 Hz / 1 Ph

Item-No.
96M4

Silicone Processing



Silicone Processing

Silicone processing requires special machines and tools. For example, when silicone is mixed and rolled out into sheets, continuously adjustable rollers are necessary to produce the required material thickness. Especially the electrically driven rollers must meet high safety standards.

On the following pages, you will find a selection of our machinery and tool assortment, which has been coordinated to meet these high demands.





Mixing Board

Material

- waxed special paper

Application

- for mixing of Episil und Abdosil

Characteristics

- with anti-slip coating to avoid displacement

PU = 1 board with 50 sheets

Dimensions L x W	Item-No.
240 x 150 mm	75E1



Scissors

- small, bent, with micro-teeth on lower blade, specially recommend for cutting silicone
- PU = 1 piece

Length	Item-No.
130 mm	50E7



Scissors

- small, bent, vertical tip, specially recommend for cutting silicone
- PU = 1 piece

Length	Item-No.
145 mm	50E17



Silicone Spatula

- flexible
- wide, for mixing of liquid silicones
- PU = 1 piece

Length of spatula	Total length	Item-No.
105 mm	205 mm	50E5

Silicone Processing



Silicone Spatula

- small, for modelling of moldable silicones and acrylics
- PU = 1 piece

	Item-No.
	50E6



Alginate Spatula

- for mixing and applying of Alginate item-no. 1E2
- PU = 1 piece

	Item-No.
	50E4



Modelling Spatula made of Plastic Material

- to gently remove HTV-silicone residue from mechanical and electronical silicone rollers / calenders
- perfectly suitable for modelling plaster, wax, plasticine and silicone
- PU = 1 piece

Colour	Length	Item-No.
blue	approx. 200 mm	166P24



Processing Roller

- conical
- for processing of moldable silicones
- PU = 1 piece

	Item-No.
	50E3



Processing Roller

- cylindrical
- for processing of moldable silicones
- PU = 1 piece

Length	Diameter	Item-No.
150 mm	8,0 mm	50E15



Processing Roller

- cylindrical
- for processing of moldable silicones
- PU = 1 piece

Length	Diameter	Item-No.
120 mm	5,0 mm	50E16



Double-Sided Spatula, Small

- for modelling of wax and silicones
- PU = 1 piece

Item-No.
50E21



Modelling Instrument

- for modelling of wax and silicones
- PU = 1 piece

Item-No.
50E2



Tweezers

- with angled, toothed point
- PU = 1 piece

Item-No.
50E8



Wax Knife

- for modelling of wax and silicones
- PU = 1 piece

Length	Item-No.
170 mm	50E9

Silicone Processing



Scalpel

- sterile
- with plastic handle
- PU = 10 pieces

	Item-No.
	160P100



Measuring Cup

- polypropylene
- transparent
- with calibration
- PU = 1 piece

Filling quantity	Height	Diameter	Item-No.
3000 ccm	242 mm	170 mm	90E29/3000
5000 ccm	270 mm	210 mm	90E29/5000



Shaker

- air bubbles, which are in the plaster, move to the top while using the shaker
- suitable for continuous use
- 2-speed, with rubber suction feet

Technical data

- sharking intensity: 3.000/6.000 vibrations/min.
- table size: 210 x 130 mm
- dimensions W x D x H: 228 x 143 x 150 mm
- power requirements: 220 – 240 V / 50 – 60 Hz / 1 Ph / 0,07 kW
- weight: 5,2 kg

	Item-No.
	90E10

Plaster Mixer




- for airbubble-free mixing of plaster and liquid silicones
- for wall- or table mount
- vacuum device with maintenance-free injector pump
- sturdy and powerful motor
- easy installation
- automatic- and manual switch
- installed vibrator
- including mixing bowl 500 ml

Technical data

- dimensions W x D x H: 240 x 220 x 400 mm
- revolutions per minute: 425
- power requirements: 230 V / 50 Hz / 1 Ph / 0,25 kW
- weight: 15 kg
- colour: white

	Item-No.
	90E20

Scope of supply does not include tripod.

 For all maintenance work at the plaster mixer, we recommend to use the special oil for plaster mixer, item-no. 90E20/E1 (volume 500 ml).

Mixing Bowl for Plaster Mixer 90E20

- mixing bowl with agitator
- for mixing liquid plaster and RTV-silicones



90E20/500

Filling quantity	Material	Item-No.
300 ml	Plastic	90E20/300
500 ml	Plastic	90E20/500
875 ml	Plastic	90E20/875
1200 ml	Steel	90E20/1200



Hand Grinder

- for fine grinding- and milling tasks

Handpiece

- high performance grinder with comfortable handling
- low weight
- low noise and vibrations
- smooth running

Accessories handpiece

- collet Ø 2,35 mm
- connection cord between handpiece and control unit
- handpiece rest

Technical data handpiece

- speed range: clockwise rotation 1000 – 35000 RPM, counter-clockwise rotation limited to 5000 RPM
- dimensions: L x Ø: 149 x 28 mm
- max. torque: 4,5 Ncm
- weight: 316 g

Knee-control unit

- 4 storable programs
- constant rotation speed by automatic adjustment
- 4-colour display for easy recognition of the stored programs
- quick access to preset rotation speeds and torques

Accessories knee-control unit

- 2,5 m power cord with grounded plug

Technical data knee-control unit

- dimensions W x D x H: 95 x 280 x 235 mm
- power requirements: 100 – 240 V / 50 – 60 Hz / 1 Ph / 0,22 kW
- weight: 3 kg

	Item-No.
	90E11



Hand Grinder with Knee-Control Unit

- for fine grinding- and milling tasks

Handpiece

- high performance grinder with comfortable handling
- low weight
- low noise and vibrations
- smooth running

Accessories handpiece

- collet Ø 2,35 mm
- connection cord between handpiece and control unit
- handpiece rest
- protective disk with support
- magnifier
- armrest

Technical data handpiece

- speed range: clockwise rotation 1000 – 50000 RPM, counter-clockwise rotation limited to 5000 RPM
- dimensions: L x Ø: 165 x 29 mm
- max. torque: 7 Ncm
- weight: 355 g

Knee-control unit

- 4 storable programs
- constant rotation speed by automatic adjustment
- 4-colour display for easy recognition of the stored programs
- quick access to preset rotation speeds and torques

Accessories knee-control unit

- 2,5 m power cord with grounded plug

Technical data knee-control unit

- dimensions W x D x H: 95 x 280 x 235 mm
 - power requirements: 100 – 240 V / 50 – 60 Hz / 1 Ph / 0,22 kW
- weight: 3 kg

Item-No.
90E14



Carbide Cutting Bit

- u-conical shape with flat point, tothing, for sharp-edged milling works in plastic and metal
- PU = 1 piece

	Item-No.
	60E1



Cutting Bit, Drum

- carbide cutting bit with spiral bevel tothing for silicone, cone shape with round point, for soft plastics and silicone, long tool life
- PU = 1 piece

	Item-No.
	60E2



Carbide Cutting Bit

- drum shape with flat point, spiral bevel tothing, for area-measured milling works in plastic and metal
- PU = 1 piece

	Item-No.
	60E10



Carbide Cutting Bit

- drum shape with round point, fine spiral bevel tothing, for fine milling works in plastic and metal
- PU = 1 piece

	Item-No.
	60E9



Cutting Bit for Silicone, Cone

- carbide cutting bit with special tothing for silicone, conical shape with round point, for soft plastics and silicone, long tool life
- PU = 1 piece

	Item-No.
	60E11



Cutting Bit for Silicone

- carbide cutting bit with special tothing for silicone, bulb shape with round point, for soft plastics and silicone, long tool life
- PU = 1 piece

	Item-No.
	60E12



Cutting Bit for Silicone

- carbide cutting bit with special tothing for silicone, slim cone shape with round point, for soft plastics and silicone, long tool life
- PU = 1 piece

	Item-No.
	60E13



Spindle Holder

- for clamping of polishing wheels, wire wheels and cutting wheels
- PU = 1 piece

	Item-No.
	60E14



Carbon Polishing Wheel

- for clamping on spindle holder item 60E14, for cutting of metal
- PU = 10 pieces

	Item-No.
	60E15



Fleece Polishing Wheel

- for clamping on spindle holder item 60E14
- for fine machining of RTV silicone plasticine and PVC
- PU = 10 pieces

Diameter	Item-No.
28 mm	60E16



Polishing Wheel

- for clamping on spindle holder item 60E14
- for fine machining of RTV silicone plasticine, PVC and metal
- max. revolution: 10.000 RPM
- PU = 10 pieces

	Item-No.
	60E17



Wire Wheel

- for clamping on spindle holder item 60E14, for machining of foam and for roughening of silicone
- PU = 6 pieces

Diameter	Item-No.
21 mm	60E18



Sanding Cylinder

- with rubber coating, for clamping of sanding sleeves item 60E20
- PU = 1 piece

Diameter	Item-No.
9 mm	60E19



Sanding Sleeves

- for clamping on sanding cylinder item 60E19, for sanding of plastic, plaster and silicone
- PU = 100 pieces

Diameter	Item-No.
9,5 mm	60E20



Plaster Cutter, Ball

- cone shape with point, rough tothing, for sanding works on plastic, metal and plaster
- PU = 1 piece

Item-No.
60E6



Plaster Cutter, Cone

- cone shape with round point, rough tothing, for rough sanding works on plastic, metal and plaster
- PU = 1 piece

Item-No.
60E7

Silicone Processing



Plaster Cutter, Pointed

- carbide cutting bit, slim conical shape with point, fine cross tooting, for fine sanding works on plastic, metal and plaster
- PU = 1 piece

	Item-No.
	60E8



Silicone Polisher

- for finishing silicone surfaces
- max. revolution: 15.000 RPM
- PU = 5 pieces

	Item-No.
	60E4



Polishing Brush

- in connection with polishing paste item 60E21, for polishing of acrylics
- PU = 1 piece

	Item-No.
	60E5



Polishing Paste

- for use with polishing brush item 60E5, for polishing of acrylic nails
- PU = 1 piece

Content	Item-No.
200 g	60E21

Sand Paper Holder



- for clamping of sand paper
- PU = 1 piece

	Item-No.
	60E3

Sand Paper



Material

- sand paper grit 240

Application

- for sand paper holder item-no. 60E3
- for fine sanding of surfaces made of plastic, metal and plaster

PU = 10 m

	Item-No.
	60E22

Silicone Processing

Silicone Work Station



picture similar

Features

- dust suction unit
- 3 drawers
- 4 sockets
- connections for gas, electro and compressed air
- front table for suction mouth
- flexible work lamp
- adjustable working height

Technical data

- dimensions W x D x H: 1240 x 620 x 820 – 950 mm
- scope of adjustment: 6 adjustments à 25 mm
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / max. 1 kW
- weight: approx. 130 kg
- colour: gentian blue

Item-No.

90E50

The total consumption of the connected electrical devices must not exceed 12 A.

Electric Silicone Roller



- for mixing of large quantities of silicone
- for rolling out big silicone sheets from 0,1 to 20 mm thickness

Features

- integrated soft-touch-control-panel in the casing
- foot pedal with emergency-off function
- electric adjustable roller distance
- manual hand crank for emergencies
- safety devices

Technical data

- digital display of roller distance: 0 – approx. 20 mm
- max. roller sheet dimension: 650 x 720 mm
- dimensions of rollers: Ø 200 mm x 740 mm
- machine dimensions W x D x H: 1140 x 650 x 1300 mm
- digital display: 0,1 mm accuracy
- motor speed: 1480 RPM
- output power: 510 Nm
- power requirements: 230 V / 50 Hz / 1 Ph / 1,5 kW
- nominal current: 9 A
- control voltage: 24 V DC
- weight: 340 kg net
- colour: RAL 7035 light grey

Item-No.

90E30



Manufactured according to valid VDE standards and CE guidelines.



Electric Silicone Roller

desktop unit

- for mixing and rolling of silicone of 0,1 mm to 15 mm material thickness

Features

- integrated soft-touch control panel in the casing
- emergency-off switch at the casing
- foot pedal
- manually adjustable roller distance by hand lever
- digital indication of roller distance
- safety device in front of rollers
- automatic opening of the rollers by emergency-off bar
- backlight behind rollers

Technical data

- digital display of roller distance from 0 – approx. 15 mm
- roller dimensions: Ø 100 x 400 mm
- machine dimensions W x D x H: 780 x 530 x 580 mm
- digital display: accuracy 0,1 mm
- roller speed: step 1 – 10)
- power requirements: 230V / 50-60 Hz / 1 Ph / 0,37 kW
- weight: 170 kg
- colour: RAL 7035 lightgrey

Item-No.
90E33



Mechanical Silicone Roller

- for mixing of small quantities of silicone (up to 100 g) and for rolling out silicone sheets

Features

- 2 manually operated chromed rollers, rotating in opposite direction
- manually adjustable roller gap

Technical data

- dimensions: W x D x H: 600 x 350 x 310 mm
- diameter of rollers: 100 mm
- length of rollers: 350 mm
- roller gap: 0,1 – 3 mm, manually adjustable in 15 different steps
- max. sheet size: 300 x 300 mm
- colour of metal parts: RAL 7035 light grey
- weight: approx. 64 kg net

picture similar

Item-No.
90E35



For cleaning use Heptan item-no. 83E4.



Acrylic-Lacquer




Material
• acrylic lacquer aerosol

Application
• for insulating of plaster cast moulds

Characteristics
• clear
• shiny
• quick-drying

PU = 1 tin

Content	Item-No.
500 ml	117P8

 If used with HTV-silicones, remove the model while still warm.



Autoclave

- high pressure device for polymerisation of acrylics (e. g. fingernails)
- incl. 1 m charging hose
- material: coated aluminum
- capacity: 4,0 liter
- outer dimensions: H 22 cm x Ø 24,5 cm
- inner dimensions: H 13,5 cm x Ø 20,5 cm
- operating temperature: 45 °C
- weight: 3,11 kg

Item-No.
70E2

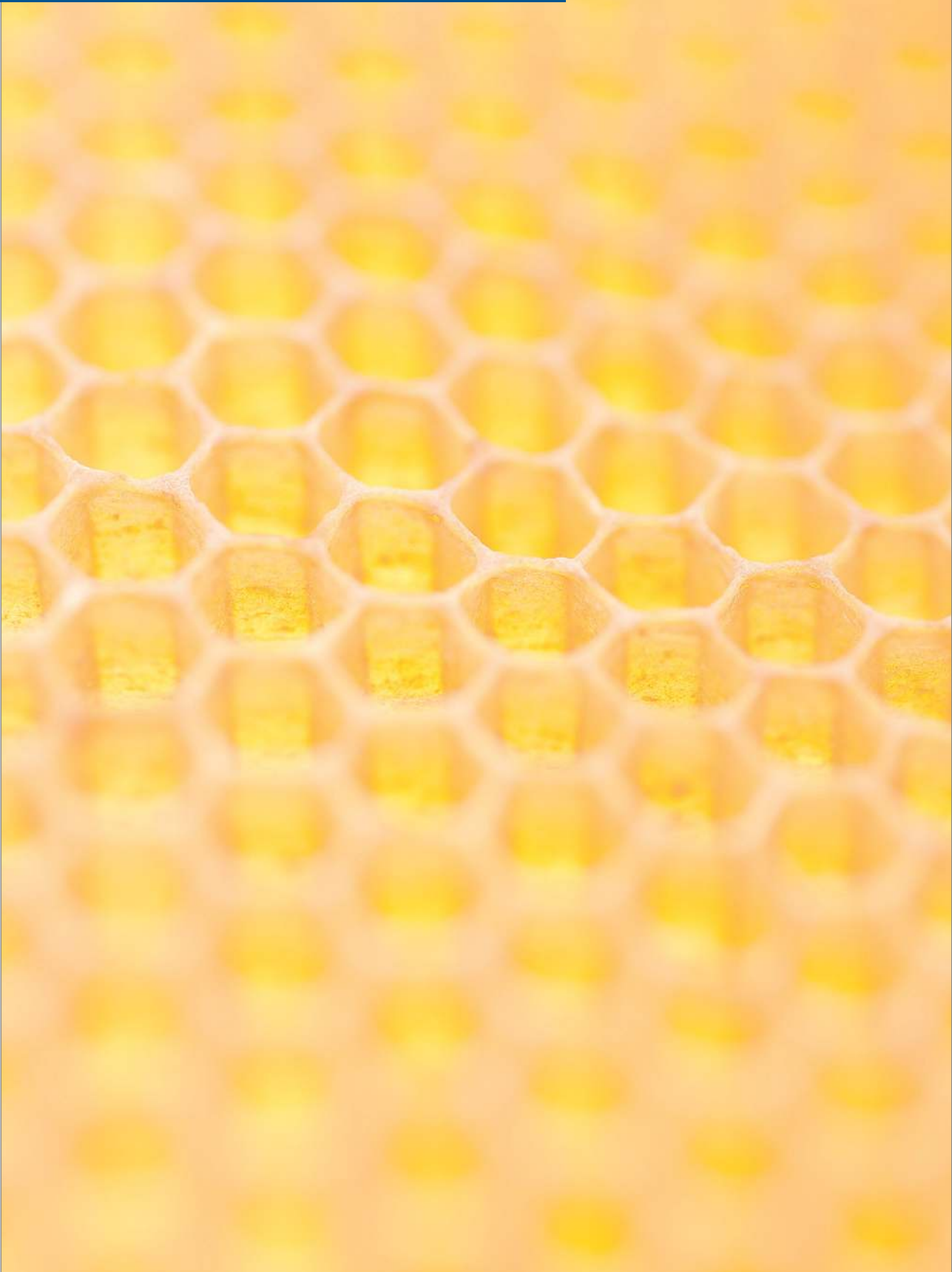


Aluminum Mould

- for fingers
- PU = 1 piece

Item-No.
50E10

Lamination Station & Deep Drawing Technology



Lamination Station & Deep Drawing Technology

When working at lamination work stations, various hazardous materials are used. Therefore, numerous facts such as room volume, extraction capacity and clean air return, as well as industrial health, safety and emissions must be considered when planning a perfect lamination room concept. These factors are not only subject to the regional or national accident prevention regulations, but also to the local emission directives.





All our lamination stations have been constructed and manufactured in compliance with the strictest possible legal guidelines. It is our goal to find an optimal overall solution for your company environment, i. e. your main activities and your room concept.

In deep drawing technology, plastic materials are thermoplastic-formed and therefore must be heated to a designated temperature as simple as possible. For this process, we supply various circulating-air-heating cabinets, infrared-ovens, heating plates and deep drawing tools.

Lamination Station & Deep Drawing Technology



Adhesive / Resin Work Station

for connection to a central exhaustor

Features

- drawer block on the right side with 3 lockable drawers 150 mm and section for laminating device
- left table leg with 1 each socket, switch, quick-coupling, manometer, air pressure control
- beech wood top, d = 50 mm, glued wood
- integrated, closeable application grid 500 x 340 mm with drip tub
- suction channel with 3 closeable push-grids
- connection for suction tube Ø 150 mm
- swivelling, closeable aluminium suction hood
- 3 m power cord with grounded plug

Technical data

- dimensions W x D x H: 1600 x 780 x 1000 mm (height without aluminium suction hood)
- working height: 850 mm
- power requirements: 230 V / 50 Hz / 1 Ph
- colour: RAL 7035 light grey

Item-No.

90M6/1523



Electric socket must be connected to the power supply system.



Adhesive / Resin Work Station

with explosion-protected exhaustor

Features

- drawer block on the right side with 3 lockable drawers 150 mm and section for laminating device
- left table leg with 1 each socket, switch, quick-coupling, manometer, air pressure control
- beech wood top, d = 50 mm, glued wood
- integrated, closeable application grid 500 x 340 mm with drip tub
- suction channel with 3 closeable push-grids
- connection for suction tube Ø 150 mm
- swivelling, closeable aluminium suction hood
- explosion-protected exhaustor
- 3 m power cord with CEE plug 5 x 16 A

Technical data

- volume flow: 1100 m³/h
- dimensions W x D x H: 1600 x 780 x 1000 mm (height without aluminium suction hood)
- working height: 850 mm
- power requirements: 400 V / 50 Hz / 3 Ph / 0,55 kW
- colour: RAL 7035 light grey

Item-No.

90M7/3540

Lamination Station & Deep Drawing Technology

Resin Casting Work Station



scope of supply does not include bench vise
picture similar

- suction flow of 1100 cbm/h provides strong suction to area of rollers table and floor
- additionally installed suction arm is used for punctual suction
- complete technical device is located inside the riser which also provides storage space for materials, tools and equipment


Features

- explosion-proof axial fan, filter device
- 2 receivers for reinforcement- or sheeting material
- motor switch ON/OFF
- top part with 3 m power cord, CEE plug 5 x 16 A
- base part with electric supply 230 V (grounded plug) with quick action connector for the compressor unit

Technical data

- work bench W x D x H: 1600 x 750 x 900 mm
- top cabinet W x D x H: 1600 x 440 x 1400 mm
- exhaust nozzle: Ø 315 mm
- sound level: 62 dBA
- power requirements axial fan: 400 V / 50 Hz / 3 Ph / 0,25 kW
- power requirements work bench: 230 V / 50 Hz / 1 Ph
- colour: RAL 7035 light grey

Item-No.
90M1

 Special coatings are available upon request! Replacement air filter (PU = 5 pieces) available (item-no. 90M1/F).

Resin Casting Work Station




scope of supply does not include suction arm and bench
picture similar

- like item 90M1, but without suction arm, for crowded work areas

Technical data

- work bench W x D x H: 1100 x 750 x 900 mm
- top cabinet W x D x H: 1100 x 440 x 1400 mm
- exhaust nozzle: Ø 315 mm
- sound level: 62 dBA
- power requirements axial fan: 400 V / 50 Hz / 3 Ph / 0,25 kW
- power requirements work bench: 230 V / 50 Hz / 1 Ph
- colour: RAL 7035 light grey

Item-No.
90M3

 Special coatings are available upon request! Replacement air filter (PU = 5 pieces) available (item-no. 90M1/F).

Lamination Station & Deep Drawing Technology



scope of supply does not include bench vise
picture similar

Resin Casting Work Station

- like item 90M1, for work areas low-ceilinged rooms

Technical data

- work bench W x D x H: 1600 x 750 x 900 mm
- top cabinet W x D x H: 1600 x 440 x 1100 mm
- exhaust nozzle: Ø 315 mm
- sound level: 62 dBA
- power requirements axial fan: 400 V / 50 Hz / 3 Ph / 0,25 kW
- power requirements work bench: 230 V / 50 Hz / 1 Ph
- colour: RAL 7035 light grey

Item-No.

90M4



Special coatings are available upon request! Replacement air filter (PU = 5 pieces) available (item-no. 90M1/F).

Lamination Station & Deep Drawing Technology

Suction Arm

- suitable for mounting near resin casting stations or adhesive work stations
- energy saving due to low pressure loss

Features

- adjustable friction joints made of white polypropylene (PP)
- tubes made of thin walled, anodised aluminium
- round suction hood NW 250 mm, powder coated white aluminium
- support spring and threaded rod made of stainless steel
- with tightly closing shut-off valve

Technical data

- suction arm: Ø 75 mm
- suction hood: Ø 250 mm
- recommended air flow: 150 m³/h (40 l/s)

Suction arm for table mount, incl. mounting plate


Range	Weight	Item-No.
max. 1250 mm	3,05 kg	90M24/1250
max. 850 mm	2,55 kg	90M24/850

Suction arm for wall mount, incl. wall support

Range	Weight	Item-No.
max. 1500 mm	5,7 kg	90M25/1500
max. 800 mm	4,7 kg	90M25/800

Suction arm for ceiling mount

Range	Weight	Item-No.
max. 1500 mm	5,7 kg	90M26/1500
max. 900 mm	4,7 kg	90M26/900

 90M26: Scope of supply does not include ceiling bracket. Various sizes available upon request.

90M25



90M26



Spring Balancer

for vertical fixation of the filling funnel during lamination tasks

load capacity	Item-No.
0,5 – 1,5 kg	140M14



Lamination Station & Deep Drawing Technology



Safety Storage Cabinet

- in accordance with EN 14470-1 (type 90), for storing and keeping flammable liquids and solids at the work place (TRGS 510)

Features

- outer body made of powder-coated steel sheet; inner body coated with chemical-resistant laminate and PP-edges
- high quality fire protection seals in the entire joint area
- easy moving drawer stops in any desired position; integrated thermo release closes drawer automatically in case of fire
- GS-approved
- liquid-proof pull-out tray with approx. 50 kg load capacity, incl. perforated stainless steel sheet insert
- castors with base panel (height = 30 mm) for simple moving of the cabinet, safe positioning of the cabinet by integrated castor locks


Technical data

- outer dimensions W x D x H: 1102 x 574 x 630 mm (incl. castors)
- inner dimensions W x H x D: 980 x 450 x 500 mm
- exhaust connection: Ø 50 mm
- colour: RAL 7035 light grey
- weight: approx. 165 kg

Note

The safety base cabinet can also be operated without connection to a technical exhaust system (suction ventilator) under conditions of TRGS 510 Attachment 3 and BGR 104 (collection of examples 2.2.8).

	Item-No.
	92M2

 We recommend the explosion-proof extractor fan 92M4 and air-circulation filter add-on unit 92M8.



Safety Storage Cabinet with Folding Door

- in accordance with EN 14470-1 (type 90), for storing and keeping flammable liquids and solids at the work place (TRGS 510)

Features

- space saving folding door provides maximum work space in front of the cabinet while door is open
- door mechanism buffered by air spring with locking unit for easy storing and removing
- integrated thermo release closes door automatically in case of fire
- 3 shelf panels (load capacity per shelf panel 75 kg, if load is evenly distributed)
- bottom tray (capacity 33 litres) with perforated sheet insert

Technical data

- outer dimensions W x D x H: 1196 x 616 x 1968 mm
- inner dimensions W x D x H: 1050 x 524 x 1742 mm
- exhaust connection: Ø 75 mm
- colour: RAL 7035 light grey
- weight: approx. 420 kg

Note

The safety base cabinet can also be operated without connection to a technical exhaust system (suction ventilator) under conditions of TRGS 510 Attachment 3 and BGR 104 (collection of examples 2.2.8).

	Item-No.
	92M1

 We recommend the explosion-proof extractor fan 92M4 and air-circulation filter add-on unit 92M7.

scope of supply does not include content

Lamination Station & Deep Drawing Technology



Safety Storage Cabinet with Folding Door

- in accordance with EN 14470-1 (type 90), for storing and keeping flammable liquids and solids at the work place (TRGS 510)

Features

- space saving folding door provides maximum work space in front of the cabinet while door is open
- door mechanism buffered by air spring with locking unit for easy storing and removing
- integrated thermo release closes door automatically in case of fire
- 3 shelf panels (load capacity per shelf panel 75 kg, if load is evenly distributed)
- bottom tray (capacity 22 litres) with perforated sheet insert

Technical data

- outer dimensions W x D x H: 596 x 616 x 1968 mm
- inner dimensions W x D x H: 450 x 524 x 1742 mm
- exhaust connection: Ø 75 mm
- colour: RAL 7035 light grey
- weight: approx. 260 kg

Note

The safety base cabinet can also be operated without connection to a technical exhaust system (suction ventilator) under conditions of TRGS 510 Attachment 3 and BGR 104 (collection of examples 2.2.8).

Item-No.
92M3

 We recommend the explosion-proof extractor fan 92M4 and air-circulation filter add-on unit 92M7.



Safety Cabinet with Wing Doors

- in accordance with EN 14470-1 (type 90), for storing and keeping flammable liquids and solids at the work place (TRGS 510)

Features

- wing doors will lock in any position for easy storing and removing
- integrated thermo release causes the doors to close automatically in case of fire
- with 4 fully retractable drawers for optimal use of storage capacities when using small and medium material containers
- integrated transport base with cover for easy moving through the facility

Technical data

- outer dimensions W x D x H: 1193 x 615 x 1953 mm
- inner dimensions: W x D x H: 1050 x 522 x 1647 mm
- shelf load per drawer (4 drawers): 60 kg
- catching capacity per drawer: 29 litres
- dimensions of the drawers: W x D x H: 844 x 488 x 90 mm
- space between the drawers: 390 / 360 / 360 / 375 mm
- exhaust connection: Ø 75 mm
- colour: body RAL 7016 anthracite / doors RAL 7035 light grey
- weight: approx. 424 kg

Note

The safety base cabinet can also be operated without connection to a technical exhaust system (suction ventilator) under conditions of TRGS 510 Attachment 3 and BGR 104 (collection of examples 2.2.8).

Item-No.
92M6

 We recommend the explosion-proof extractor fan 92M4 and air-circulation filter add-on unit 92M7. More accessories available upon request.

scope of supply does not include content

Lamination Station & Deep Drawing Technology




Recirculating Air Filter System for Safety Cabinets 92M1, 92M3 and 92M6

- air filter system for extracting solvent vapours (hydrocarbons) for mounting on the top of safety cabinets
- maximum flexibility in choosing the installation location
- active personal protection through safe capture of harmful vapours with retention in the filter system
- complete with multi-level filter system, connection cable and power cord
- incl. VDE-approved electronic extraction and filter monitoring
- optical and acoustical alarm incl. potential-free alarm contact
- ATEX-conformity: CE Ex II 3/-G Ex ic nA IIB T4 Gc
- housing made of powder-coated sheet-steel

Technical data

- dimensions W x D x H: 305 x 555 x 210 mm
- noise level: approx. 39 dB(A)
- power requirements: 230 V / 50 Hz / 1 Ph / 10,8 W
- revolutions: 2450 Rpm
- weight: 4,2 kg

Item-No.
92M7

 Replacement active carbon filter available (item-no. 92M9). The active carbon filter should be exchanged once a year.



scope of supply does not include housing and cabinet


Recirculating Air Filter System for Safety Cabinets 92M2

- air filter system for extracting solvent vapours (hydrocarbons) for mounting at safety cabinet
- maximum flexibility in choosing the installation location
- active personal protection through safe capture of harmful vapours with retention in the filter system
- complete with multi-level filter system, connection cable and power cord
- incl. VDE-approved electronic extraction and filter monitoring
- optical and acoustical alarm incl. potential-free alarm contact
- ATEX-conformity: CE Ex II 3/-G Ex ic nA IIB T4 Gc
- housing made of powder-coated sheet-steel

Technical data

- dimensions W x D x H: 305 x 555 x 210 mm
- noise level: approx. 39 dB(A)
- power requirements: 230 V / 50 Hz / 1 Ph / 10,8 W
- revolutions: 2450 Rpm
- weight: 4,2 kg

Item-No.
92M8

 New active carbon filter available with item-no. 92M9. The active carbon filter should be exchanged once a year. The air-circulation filter add-on unit can be optionally mounted on a console (92M8/1) or in a comfortable casing unit (92M8/2).

Lamination Station & Deep Drawing Technology



Explosion-Proof Extractor Fan

- for safety cabinets 92M1, 92M2, 92M3 and 92M6, with steel base-mount
- self-cooling three-phase AC motor according VDMA standards

Technical data

- dimensions W x D x H: 310 x 230 x 300 mm
- exhaust connection: Ø 75 mm
- air flow: 60 – 250 m³/h
- air pressure: 240 – 175 Pa
- revolutions: 2800 RPM
- power requirements: 400 V / 50 Hz / 3 Ph / 0,09 kW
- sound level: 45 dB(A)
- protection: IP 55
- ATEX: CE Ex II 2G c IIB T4 PTB07 ATEX D105
- weight: 11 kg net

	Item-No.
	92M4



Protective Switch

- for item 92M4, to protect the fan motor from overheating
- current range: 0,63 – 1 A

	Item-No.
	92M5



Flat Bed Oven

- bench type, welded steel frame construction


Features

- 4 mm glass heating panel covered with PTFE sheeting
- stainless steel lid equipped with 1 gas spring and 1 handle
- 3 m power cord with grounded plug

Technical data

- outer dimensions W x D x H: 895 x 755 x 295 mm
- PTFE sheeted heating panel W x D: approx. 780 x 580 mm
- temperature range: 20 – 220 °C, infinitely variable
- automatic control: micro-processor with digital set value / actual value indication with a measuring accuracy +/- 1 %
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / 2,3 kW
- colour: RAL 5015 sky blue

Weight	Item-No.
56 kg net	55M2

 Service parts are available upon request!

Lamination Station & Deep Drawing Technology



Flat Bed Oven

- with base stand for optimal working height
- the welded steel frame construction is either made of 30 x 30 x 3 mm resp. 60 x 30 x 3 mm square tubing

Features

- frame
- stainless steel storing panel
- 4 mm glass heating panel covered with PTFE sheeting
- stainless steel lid equipped with 2 gas springs and 2 handles
- additional stainless steel storing panel mounted to frame below heating panel
- 3 m power cord with grounded plug
- heating plate and stand are separable and connectable

Technical data

- outer dimensions W x D x H: 1360 x 1005 x 960 mm
- PTFE sheeted heating panel W x D: 1280 x 930 mm
- temperature range: 20 – 220 °C, infinitely variable
- automatic control: micro-processor with digital set value / actual value indication with a measuring accuracy +/- 1 %
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / 2,3 kW
- colour: RAL 5015 sky blue

Weight	Item-No.
132 kg net	55M1



Service parts are available upon request!



picture without windows

picture similar

Heating Cabinet

- heating cabinet for heating of plastic sheet materials
- suitable for drying of plaster cast models and for sintering technology

Features

- 1 door with window
- interior made of stainless steel
- convection fan
- electronic controlled preheating technology APT.line
- microprocessor PID switch with LED display and integrated timer 0 bis 99h
- timer function - delayed OFF
- ramp function
- temperature limit controller class 2 (DIN 12880) with optical temperature
- electro-mechanical adjustment of the ventilation flap with position indicator display
- 2 chrome-plated insert trays
- 1,8 m power cord with grounded plug

Technical data

- outer dimensions W x D x H: 560 x 640 x 625 mm
- inner dimensions W x D x H: 400 x 345 x 440 mm
- inside volume: 60 Liter
- window dimensions W x H: 240 x 240 mm
- temperature range: 10 °C above room temperature up to 300 °C
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / 1,1 kW
- colour: RAL 7035 light grey, powder coated
- weight (empty): 39 kg net

Item-No.
50M51/1523

Lamination Station & Deep Drawing Technology



Heating Cabinet

- heating cabinet for heating of plastic sheet materials
- suitable for deep-drawing technology with deep-drawing frames as well as for drying of plaster cast models and for sintering technology

Features

- 1 door with window
- interior made of stainless steel
- convection fan
- electronic controlled preheating technology APT.line
- microprocessor PID switch and LED display and integrated timer 0 – 99 h
- timer with delayed off function
- ramp function
- USB interface for simple data transfer
- temperature limit controller class 2 (DIN 12880) with optical temperature alarm
- electromechanic adjustment of air flap with position indicator in display
- 2 chrome-plated insert trays
- 1,8 m power cord with grounded plug

Technical data

- outer dimensions W x D x H: 815 x 817 x 965 mm
- inner dimensions W x D x H: 650 x 510 x 780 mm
- inside volume W x H: 258 litres
- window dimensions: 370 x 370 mm
- temperature range: 8 °C above room temperature up to 300 °C
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / 2,3 kW
- colour: RAL 7035 light grey, powder coated
- weight (net) empty: 86 kg

	Item-No.
	50M52/1523



Other models resp. versions are available upon request!

Lamination Station & Deep Drawing Technology



Heating Cabinet

- heating cabinet for heating of plastic sheet materials
- suitable for deep-drawing technology with deep-drawing frames as well as for drying of plaster cast models and for sintering technology

Features

- 2 doors with windows
- interior made of stainless steel
- convection fan with adjustable ventilator speed
- electronic controlled preheating technology APT.line
- microprocessor PID switch and LED display
- MS-controller with various time functions
- time functions of the controller: 0 – 99,59 h delayed OFF, 0 – 99,59 h delayed ON, 0 – 99,59 h temperature dependent delayed OFF
- digital temperature control, within 1 degree of accuracy
- ramp function
- temperature limit controller class 2 (DIN 12880) with optical temperature alarm
- adjustable air ventilation by air flap in the front and air duct Ø 50 mm in the back
- interface RS 422 for communication software APT Com Data Control System
- 2 chrome-plated insert trays
- 1,8 m power cord with CEE plug 5 x 16 A

Technical data

- outer dimensions W x D x H: 1234 x 870 x 1022 mm
- inner dimensions W x D x H: 1000 x 500 x 800 mm
- inside volume: 400 litres
- window dimensions W x H: 290 x 470 mm
- temperature range: 5 °C above room temperature up to 300 °C
- power requirements: 400 V / 50 – 60 Hz / 3 Ph / 3,4 kW
- colour: RAL 7035 light grey, powder coated
- weight (empty): 145 kg net

	Item-No.
	50M3



Other models resp. versions are available upon request!



Base Frame

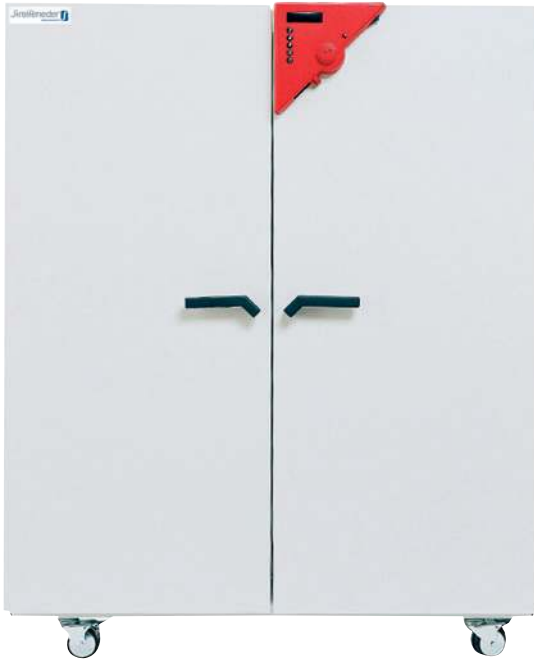
- for item 50M3 and 50M52

Technical data

- dimensions W x D x H: 1500 x 750 x 850 mm
- load capacity 300 kg
- colour: RAL 7035 light grey

	Item-No.
	50M52/U

Lamination Station & Deep Drawing Technology



picture without windows

picture similar

Heating Cabinet

- heating cabinet for heating of plastic sheet materials
- suitable for deep-drawing technology with deep-drawing frames as well as for drying of plaster cast models and for sintering technology

Features

- 2 doors with windows
- interior made of stainless steel
- convection fan with adjustable ventilator speed
- electronic controlled preheating technology APT.line
- microprocessor PID switch and LED display
- MS-controller with various time functions
- time functions of the controller: 0 – 99,59 h delayed OFF, 0 – 99,59 h delayed ON, 0 – 99,59 h temperature dependent delayed OFF
- digital temperature control, within 1 degree of accuracy
- ramp function
- temperature limit controller class 2 (DIN 12880) with optical temperature alarm
- adjustable air ventilation by air flap in the front and air duct Ø 50 mm in the back
- interface RS 422 for communication software APT Com Data Control System
- 2 chrome-plated insert trays
- 1,8 m power cord with CEE plug 5 x 16 A

Technical data

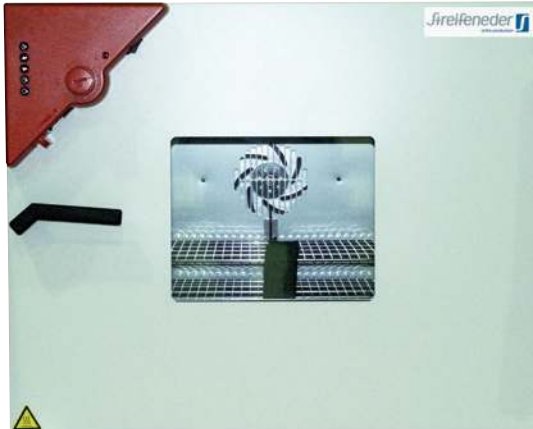
- outer dimensions W x D x H: 1234 x 970 x 1528 mm
- inner dimensions W x D x H: 1000 x 600 x 1200 mm
- inside volume: 720 litres
- window dimensions W x H: 290 x 470 mm
- temperature range: 5 °C above room temperature up to 300 °C
- power requirements: 400 V / 50 – 60 Hz / 3 Ph / 5 kW
- colour: RAL 7035 light grey, powder coated
- weight (empty): 195 kg net

Item-No.
50M4



Other models resp. versions are available upon request!

Lamination Station & Deep Drawing Technology



Heating Cabinet

- heating cabinet for heating of plastic sheet materials
- suitable for drying of plaster cast models and for sintering technology

Features

- 1 door with window
- interior made of stainless steel
- convection fan
- electronic controlled preheating technology APT.line
- microprocessor PID switch and LED display
- DS-controller with integrated timer 0 – 99 h
- digital temperature control, within 1 degree of accuracy
- ramp function
- temperature limit controller class 2 (DIN 12880) with optical temperature alarm
- adjustable air ventilation by air flap in the front and air duct Ø 50 mm in the back
- 2 chrome-plated insert trays
- 1,8 m power cord with grounded plug

Technical data

- outer dimensions W x D x H: 835 x 760 x 700 mm
- inner dimensions W x D x H: 600 x 400 x 480 mm
- inside volume: 115 litres
- window dimensions W x H: 240 x 350 mm
- temperature range: 5 °C above room temperature up to 300 °C
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / 1,6 kW
- colour: RAL 7035 light grey, powder coated
- weight (net): empty 64 kg

	Item-No.
	50M5



Other models resp. versions are available upon request!

Lamination Station & Deep Drawing Technology



Convection Oven for Processing of Pre-preg Materials

- mobile, with 4 stop rollers, including vacuum connections (4-way with couplings and water separator), including intermediate rack to operate the internal space in 3 varieties

Features

- interior stainless steel
- 2-way wing door with viewing window
- heating element 3 x 3300 W, 3 x ventilator motor with reverseable direction of rotation
- model / material sensor for oven control and heating process via material temperature
- microprocessor controlled temperature operated by touch screen, PID-control function
- continuously adjustable temperature from 30 °C to 250 °C / 86 °F – 480 °F
- timer and soft start function individually programmable, graphic flow display
- power cord with CEE-plug, 5-pole, 16 A

Technical data

- interior lighting: 2 x 25 watts
- outer dimensions W x D x H: 1230 x 920 x 1570 mm
- inner dimensions W x D x H: 1000 x 620 x 1200 mm
- power requirements: 400 V / 50 Hz / 3 Ph / 10,2 kW
- colour: RAL 7035 light grey / RAL 7011 anthracite
- weight: 283 kg

Special Voltages

- 230 V / 50 Hz / 3 Ph+PE / 10,2 kW (50M6/3523)

	Item-No.
	50M6/3540

Lamination Station & Deep Drawing Technology



Infrared-Oven

- for quick heating of plastic materials
- also suitable for deep-drawing technology with deep-drawing frame

Features

- stainless steel interior
- panel heating with 8 infrared quartz-tubes
- temperature measurement of the material surface by means of opto-electronic IR-measuring unit
- touch screen operation
- multiple-language screen (GER, EN, FR, IT)
- °C / °F shift
- timer function
- heating ramp function (e.g. for Pre-preg)
- graphic display of heating processes progression
- double swing door with two double pane viewing windows
- 1 PTFE coated tray (exchangeable)
- power cord with CEE-plug, 5-pole, 16 A

Technical data

- interior lighting: 2 x 25 watts
- inner dimensions W x D x H: 810 x 580 x 540 mm
- outer dimensions W x D x H: 900 x 700 x 920 mm
- number of quartz-infrared tubes: 8 pcs. 390 mm / 460 watts (tubes are exchangeable)
- continuously adjustable temperature range by means of PID-controller: 30 °C – 250 °C (86 °F – 482 °F)
- power requirements: 380 – 400 V / 50 – 60 Hz / 3 Ph / 3,7 kW
- available in following colours: RAL 5017 (traffic blue) / RAL 7035 (light grey) or RAL 7035 (light grey) / RAL 7037 (dust grey)
- weight net / gross: 133 kg / 185 kg

Special voltages

- 200 – 230 V / 50 – 60 Hz / 3 Ph (51M10/3523) (without plug)
- 200 – 230 V / 50 – 60 Hz / 1 Ph (51M10/1523) (without plug), note: connection must be protected by a 20 A fuse

Item-No.

51M10/3540

Lamination Station & Deep Drawing Technology



Infrared-Oven

- for quick heating of plastic materials
- also suitable for deep-drawing technology with deep-drawing frame

Features

- stainless steel interior
- panel heating with 16 infrared quartz-tubes
- temperature measurement of the material surface by means of opto-electronic IR-measuring unit
- 2-line current/set temperature display
- speed dial button for selecting 4 preset temperature values
- double swing door with two double pane viewing windows
- 1 independent PTFE coated roll-about tray
- power cord with CEE-plug, 5-pole, 16 A

Technical data

- illumination: 4 x 25 W
- inner dimensions W x D x H: 810 x 1160 x 540 mm
- outer dimensions W x D x H: 900 x 1300 x 890 mm
- number of quartz-infrared tubes: 16 pcs. 390 mm / 460 watts (tubes are exchangeable)
- continuously adjustable temperature range by means of PID-controller: 30 °C – 250 °C (86 °F – 482 °F)
- power requirements: 380 – 400 V / 50 – 60 Hz / 3 Ph / 7,4 kW
- available in following colours: RAL 5017 (traffic blue) / RAL 7035 (light grey) or RAL 7035 (light grey) / RAL 7037 (dust grey)
- weight net: approx. 230 kg

Special voltages

- 200 – 230 V / 50 – 60 Hz / 3 Ph (50M11/3523) (without plug)
- 200 – 230 V / 50 – 60 Hz / 1 Ph (50M11/1523) (without plug), note: connection must be protected by 50 A fuse

Item-No.
50M11/3540

without picture

Base Rack with 4 Swivelling Wheels for Infrared Oven 50M11

Technical data

- dimensions W x D x H: 880 x 1230 x 730 mm
- colour: RAL 7035 light grey
- weight: 21 kg

Item-No.
50M11/U

Lamination Station & Deep Drawing Technology



Infrared-Oven

- incl. moveable roll-about tray
- for quick heating of large plastic materials and for production of pre-preg orthoses in pre-preg technology; also suitable for deep-drawing technology with deep-drawing frame

Features

- panel heating with 18 infrared quartz-tubes, dual zone switching (6/18)
- temperature measurement of the material surface by means of optoelectronic IR-measuring unit
- touch screen operation
- multiple-language screen (GER, EN, FR, IT)
- °C/°F shift
- timer function
- heating ramp function (e.g. for pre-preg)
- graphic display of heating processes progression
- vertically opening sliding door with double pane viewing window, twin support by gas shock assist
- exchangeable PTFE coated roll-about tray, dismantable by quick-lock unit
- power cord with CEE-plug, 5-pole, 16 A

Technical Data

- interior lighting: 2 x 25 watts
- inner dimensions W x D x H: 1300 x 1090 x 510 mm
- outer dimensions W x D x H: 1595 x 1270 x 700 mm
- total height with opened door: 1200 mm
- number of quartz-infrared tubes: 6 pcs 490 mm / 460 W, 12 pcs 390 mm / 460 W (tubes are exchangeable)
- continuously adjustable temperature range by means of PID-controller: 30 °C – 250 °C (86 °F – 482 °F)
- power requirements: 380 – 400 V / 50 – 60 Hz / 3 Ph / 8,5 kW
- available in following colours: RAL 5017 (traffic blue) / RAL 7035 (light grey) oder RAL 7035 (light grey) / RAL 7037 (dust grey)
- weight net: 230 kg

Item-No.
51M17/3540

Lamination Station & Deep Drawing Technology



Infrared-Oven

- incl. moveable roll-about tray
- for quick heating of large plastic materials and for production of Pre-preg orthoses
- also suitable for deep-drawing technology with deep-drawing frame

Features

- panel heating with 12 infrared quartz-tubes
- temperature measurement of the material surface by means of opto-electronic IR-measuring unit
- touch screen operation
- multiple-language screen (GER, EN, FR, IT)
- °C / °F shift
- timer function
- heating ramp function (e.g. for Pre-preg)
- graphic display of heating processes progression
- double pane viewing window, gas spring assisted, vertical opening mechanism
- exchangeable PTFE coated roll-about tray with 4 locking casters, height continuously adjustable by gas spring (min. 820 mm, max. 1050 mm)
- power cord with CEE-plug, 5-pole, 16 A

Technical data

- interior lighting: 2 x 25 watts
- inner dimensions W x D x H: 1000 x 800 x 500 mm
- outer dimensions W x D x H: 1320 x 970 x 1420 mm
- total height with opened door: 1850 mm
- number of quartz-infrared tubes: 10 pcs. 490 mm / 600 watts, 2 pcs. 490 mm / 825 watts (tubes are exchangeable)
- continuously adjustable temperature range by means of PID-controller: 30 °C – 250 °C (86 °F – 482 °F)
- power requirements: 380 – 400 V / 50 – 60 Hz / 3 Ph / 7,7 kW
- available in following colours: RAL 5017 (traffic blue) / RAL 7035 (light grey) or RAL 7035 (light grey) / RAL 7037 (dust grey)
- weight net / gross: 230 / 295 kg

Special voltages

- 200 – 230 V / 50 – 60 Hz / 3 Ph (51M12/3523) (without plug)
- 200 – 230 V / 50 – 60 Hz / 1 Ph (51M12/1523) (without plug), note: connection must be protected by 50 A fuse

Item-No.

51M12/3540

Lamination Station & Deep Drawing Technology



Infrared-Oven

- incl. moveable roll-about tray
- for quick heating of large plastic materials and for production of Pre-preg orthoses
- also suitable for deep-drawing technology with deep-drawing frame

Features

- panel heating with 24 infrared quartz-tubes, dual zone switching (6/24)
- temperature measurement of the material surface by means of opto-electronic IR-measuring unit
- touch screen operation
- multiple-language screen (GER, EN, FR, IT)
- °C / °F shift
- timer function
- heating ramp function (e.g. for Pre-preg)
- graphic display of heating processes progression
- double pane viewing window, gas spring assisted, vertical opening mechanism
- exchangeable PTFE coated roll-about tray with 4 locking casters, height continuously adjustable by gas spring (min. 820 mm, max. 1050 mm)
- power cord with CEE-plug, 5-pole, 32 A

Technical data

- interior lighting: 4 x 25 watts
- inner dimensions W x D x H: 1300 x 1590 x 500 mm
- outer dimensions W x D x H: 1595 x 1770 x 1400 mm
- total height with opened door: 1850 mm
- number of quartz-infrared tubes: 8 pcs. 490 mm / 460 watts;
16 pcs. 390 mm / 460 watts (tubes are exchangeable)
- continuously adjustable temperature range by means of PID-controller:
30 °C – 250 °C (86 °F – 482 °F)
- power requirements: 380 – 400 V / 50 – 60 Hz / 3 Ph / 11,1 kW
- available in following colours: RAL 5017 (traffic blue) / RAL 7035 (light grey)
or RAL 7035 (light grey) / RAL 7037 (dust grey)
- weight net / gross: 360 / 466 kg

Special voltages

- 200 – 230 V / 50 – 60 Hz / 3 Ph (51M13/3523) (without plug)
- 200 – 230 V / 50 – 60 Hz / 1 Ph (51M13/1523) (without plug),
note: connection must be protected by 64 A fuse

Item-No.

51M13/3540

Lamination Station & Deep Drawing Technology



Infrared-Oven

- dual infrared oven incl. moveable roll-about tray, with two independent thermostat control units
- suitable for heating the entire heating surface or 2 separate smaller heating surfaces
- for quick heating of large plastic materials and for production of Pre-preg orthoses
- also suitable for deep-drawing technology with deep-drawing frame

Features

- panel heating with 28 infrared quartz-tubes, dual zone switching with partition wall (14/28 infrared-tubes)
- temperature measurement of the material surface by means of two opto-electronic IR-measuring units
- touch screen operation
- multiple-language screen (GER, EN, FR, IT)
- °C / °F shift
- timer function
- heating ramp function (e.g. for Pre-preg)
- graphic display of heating processes progression
- double pane viewing window, gas spring assisted, vertical opening mechanism
- exchangeable PTFE coated roll-about tray with 4 locking casters, height continuously adjustable by gas spring (min. 710 mm, max. 940 mm)
- power cord with CEE-plug, 5-pole, 32 A

Technical data

- interior lighting: 4 x 25 watts
- inner dimensions W x D x H: 2200 x 1090 x 500 mm
- outer dimensions W x D x H: 2500 x 1240 x 1300 mm
- total height with opened door: 1750 mm
- number of quartz-infrared tubes: 28 pcs. 490 mm / 460 watts (tubes are exchangeable)
- continuously adjustable temperature range by means of two PID-controllers: 30 °C – 250 °C (86 °F – 482 °F)
- power requirements: 380 – 400 V / 50 – 60 Hz / 3 Ph / 12,9 kW
- available in following colours: RAL 5017 (traffic blue) / RAL 7035 (light grey) or RAL 7035 (light grey) / RAL 7037 (dust grey)
- weight: net / gros: 448 kg / 631 kg

Special voltages

- 200 – 230 V / 50 – 60 Hz / 3 Ph (51M14/3523) (without plug)
 - 200 – 230 V / 50 – 60 Hz / 1 Ph (51M14/1523) (without plug),
- note: connection must be protected by 64 A fuse

Item-No.

51M14/3540

Lamination Station & Deep Drawing Technology



Infrared-Oven

- incl. moveable roll-about tray
- for quick heating of large plastic materials and for production of Pre-preg orthoses
- also suitable for deep-drawing technology with deep-drawing frame

Features

- panel heating with 18 infrared quartz-tubes, dual zone switching (6/18)
- temperature measurement of the material surface by means of opto-electronic IR-measuring unit
- touch screen operation
- multiple-language screen (GER, EN, FR, IT)
- °C / °F shift
- timer function
- heating ramp function (e.g. for Pre-preg)
- graphic display of heating processes progression
- double pane viewing window, gas spring assisted, vertical opening mechanism
- exchangeable PTFE coated roll-about tray with 4 locking casters, height continuously adjustable by gas spring (min. 820 mm, max. 1050 mm)
- stainless steel hose passage (inner Ø = 15 mm) incl. stainless steel cover
- power cord with CEE-plug, 5-pole, 16 A


Technical data

- interior lighting: 2 x 25 watts
- inner dimensions W x D x H: 1300 x 1090 x 500 mm
- outer dimensions W x D x H: 1595 x 1270 x 1400 mm
- total height with opened door: 1850 mm
- number of quartz-infrared tubes: 6 pcs. 490 mm / 460 watts;
12 pcs. 390 mm / 460 watts (tubes are exchangeable)
- continuously adjustable temperature range by means of PID-controller:
30 °C – 250 °C (86 °F – 482 °F)
- power requirements: 380 – 400 V / 50 – 60 Hz / 3 Ph / 8,5 kW
- available in following colours: RAL 5017 (traffic blue) / RAL 7035 (light grey)
or RAL 7035 (light grey) / RAL 7037 (dust grey)
- weight net: 290 kg

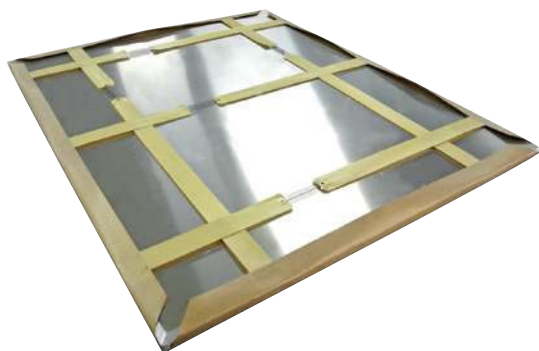
Special voltages

- 200 – 230 V / 50 – 60 Hz / 3 Ph (51M15/3523) (without plug)
- 200 – 230 V / 50 – 60 Hz / 1 Ph (51M15/1523) (without plug),
note: connection must be protected by 50 A fuse

	Item-No.
	51M15/3540

 The average lifetime of the infrared-tubes is 5 years. As natural wear proceeds, the infrared-tubes become darker and the heating performance becomes weaker.

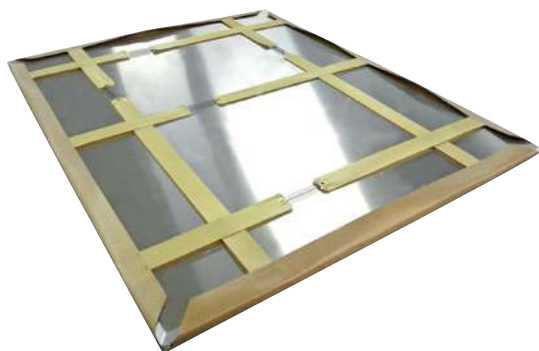
Lamination Station & Deep Drawing Technology



PTFE-Foil, porous

- suitable for infrared ovens 51M12, 51M13, 51M14, 51M15, 51M17
- thickness: 0,2 mm
- complete with fastening straps and springs

For item	Item-No.
51M12	50M12/E1
51M13	50M13/E1
51M14	50M14/E1
51M15, 51M17	50M15/E1



PTFE-Foil, airtight

- suitable for items 51M12, 51M13, 51M14, 51M15, 51 M17
- thickness: 0,15 mm
- complete with fastening straps and springs

suitable for item	Item-No.
51M12	51M12/E1
51M13	51M13/E1
51M14	51M14/E1
51M15, 51M17	51M15/E1



Infrared Emitter

- with spring mounted reflector and connection strand

Length	Power	Suitable for item	Item-No.
390 mm	460 watts	50M10, 50M11, 50M13, 50M15, 51M10, 51M13, 51M15	50M17/3946
490 mm	460 watts	50M13, 50M14, 50M15, 51M13, 51M14, 51M15	50M17/4946
490 mm	600 watts	50M12, 51M12	50M17/4960
490 mm	825 watts	50M12, 51M12	50M17/4982

without picture

Gas Shock

- for door of item 50M25, 50M26 and 50M27

Item-No.
50M25/E1

Lamination Station & Deep Drawing Technology

Infrared Emitter



For item	Item-No.
50M25	50M25/E2
50M26	50M26/E1
50M27	50M27/E2

without picture

Illuminant for Interior Lighting

- for item 50M25, 50M26 and 50M27

Item-No.
50M25/EL



51M9/4

Clamping Device for Pre-preg

51M9/1: Single-Clamping Device for Pre-preg

- horizontal holding device for 1 Pre-preg model
- suitable for use in infrared-oven
- dimensions L x W x H: 360 x 760 x 290 mm

51M9/4: Quadruple-Clamping Device for Pre-preg

- horizontal holding device for up to 4 Pre-preg models
- suitable for use in infrared-oven
- dimensions L x W x H: 910 x 760 x 290 mm

Version	Item-No.
single-clamping device	51M9/1
quadruple-clamping device	51M9/4

Lamination Station & Deep Drawing Technology



50M18/6

Clamping Device for Pre-preg Materials

without deep drawing equipment

50M18/4

- 4-way clamping device for Pre-preg materials without deep drawing equipment, suitable for all infrared ovens (please indicate size of roll-about tray in your order)

Features

- 1 x Pre-preg basic frame including reflector sheet
- 4 x bracket with adjustable angle for suction tube support
- suction tube support 3 x 1/2", 1 x 3/4"
- suction tubes with square end 3 x 1/2", 1 x 3/4"
- 1 vertical clamping device ea. for 1/2" and 3/4" for bench vise
- 1 x 4-way distributor with locking valves
- 1 x hose set for distributor (length 2 x 90 cm, 2 x 120 cm)
- 1 x connection set for distributor, length 180 cm

50M18/6

- 6-way clamping device for Pre-preg materials without deep drawing equipment, suitable for all infrared ovens (please indicate size of roll-about tray in your order)

Features

- 1 x Pre-preg basic frame including reflector sheet
- 6 x bracket with adjustable angle for suction tube support
- suction tube support 5 x 1/2", 1 x 3/4"
- suction tubes with square end 5 x 1/2", 1 x 3/4"
- 1 vertical clamping device ea. for 1/2" and 3/4" for bench vise
- 1 x 6-way distributor with locking valves
- 1 x hose set for distributor (length 2 x 60 cm, 2 x 90 cm, 2 x 120 cm)
- 1 x connection set for distributor, length 180 cm

Version	Item-No.
4-way clamping device	50M18/4
6-way clamping device	50M18/6

Not suitable for 50M11 and 51M10.



Deck Oven „Exclusive“

- 100 – 250 °C

Features

- 1 grate
- interior lighting
- timer
- 2 m power cord with grounded plug

Technical data

- outer dimensions W x D xH: 550 x 350 x 290 mm
- inner dimensions W x H x D: 440 x 290 x 215 mm
- power requirements: 230 V / 50 Hz / 1 Ph / 1,8 kW

Weight	Item-No.
14 kg net	50M9

Lamination Station & Deep Drawing Technology



PTFE Film

Material

- fibreglass webbing coated with PTFE

Application

- for flat bed oven

PU = running metre

Width x Thickness	Version	Item-No.
1100 x 0,13 mm	non air permeable	119P11
1150 x 0,20 mm	air permeable	119P23



For sandwich-ovens, use the air-permeable PTFE-Film item-no. 119P23.



PTFE Film

Material

- fibreglass webbing coated with PTFE
- colour: beige

Application

- ideally suitable for infrared oven

PU = running metre

Width x Thickness	Version	Item-No.
1525 x 0,35 mm	non air permeable	119P18



picture similar

Electronic Scale with Digital Display

- battery operated
- taring of the entire weighing range
- auto-off function in battery mode (off after 2 minutes)
- weighing platform and housing made of stainless steel
- digit increment: 1 gram

Power source

- 9 V block battery (not included)
- mains power supply unit available upon request

Technical data

- weighing range: 0 – 5000 g
- outer dimensions W x D x H: 150 x 170 x 32 mm
- weighing platform W x D: 120 x 150 mm
- weight: 0,69 kg

Item-No.
168P10

Lamination Station & Deep Drawing Technology



Mixing Cup

- made of polypropylene with measuring scale
- PU = 20 pcs and 100 pcs

Liter	Item-No.
0,200	164P6/180
0,400	164P6/500



Funnel made of HD-PE

- acid and oil resistant funnel made of HD-PE for pouring laminating resins
- colour: natural
- pour-in-diameter on top: 50 mm
- pour-out-diameter on the bottom: 21 mm

Item-No.
164P32




Clamping Device

- for two-way suction
- to be clamped into the bench vise
- suction is effected by means of two suction channels being separated from one another
- top and bottom foil may be tied and suctioned separately

Features

- clamping device
- suction tube with connecting nipple for hose, inner Ø 6 mm
- suction plate with connecting nipple for hose, inner Ø 6 mm

Item-No.
168P70

 The clamping device without fixing block can be ordered by item-no. 168P72.

picture similar



Holder

- for clamping device 168P70

Item-No.
168P71

Lamination Station & Deep Drawing Technology



One Way Suction Pipe

- zinc-plated, straight with sealing-sleeve and hose

Diameter	Length	Item-No.
34 mm	365 mm	168P59



Two Way Suction Pipe

- zinc-plated, straight with sealing-sleeve
- Ø 25 und 33 mm with hose-piece for tying the PVA-foil
- Ø 48 mm without hose

Diameter	Length	Item-No.
25 mm	400 mm	168P60
33 mm	400 mm	168P61
48 mm	540 mm	168P62

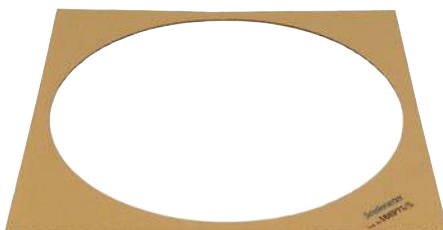
picture similar



Two Way Suction Pipe

- zinc-plated, angled with sealing-sleeve and hose


Angulation / version	Item-No.
90° / angled	168P63
90° / angled	168P65
90° / for bathing prostheses	168P66
135° / angled	168P64



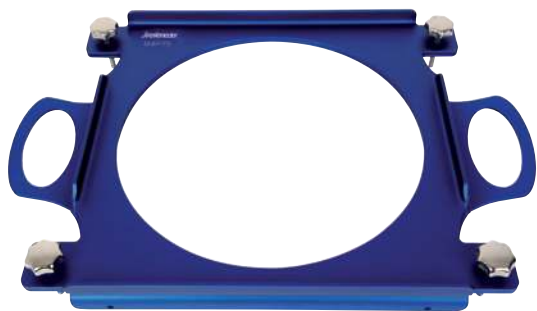
Non-stick Paperboard Frame

- for deep-drawing / clamping frame 168P75
- non-stick function between heated plastics and frame
- PU = 20 pieces

Dimensions	Item-No.
40 x 40 cm	168P75/S

 Facilitated fabrication of an even socket wall thickness through improved deep drawing!


Lamination Station & Deep Drawing Technology

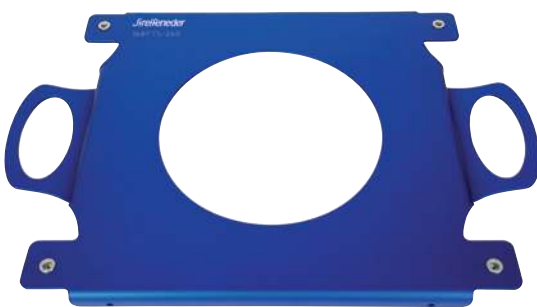


Deep-Drawing / Clamping Frame

- aluminum, Ø 360 mm
- for material thickness up to 20 mm

Item-No.
168P75

 This item includes one deep-drawing frame (bottom part) and deep-drawing frame (upper part) incl. star screws.



Deep-Drawing Frame, Bottom Part

- deep-drawing bottom part, Ø 260 mm
- integral part for deep-drawing / clamping frame 168P75
- frame plate made of aluminium

Item-No.
168P75/260


 Suitable for deep drawing of small models!



Rack, height adjustable

- for deep-drawing / clamping frame 168P75
- galvanised steel
- adjustable in 3 different heights
- total height: 3rd level 387 mm, 2nd level 307 mm, 1st level 227 mm
- suitable for heating cabinets and infrared ovens
- material: steel

W x D x H	Item-No.
430 x 300 x 227-387 mm	168P76/H

 The rack is height adjustable and suitable for inner dimensions from min. 230 mm up to max. 387 mm height.

Lamination Station & Deep Drawing Technology



Suction Pipe with Disc

- with 6 mm hose connection

Inner \varnothing clamping frame	\varnothing vacuum sealing disc	Item-No.
260 mm	230 mm	168P77/260
360 mm	330 mm	168P77/360



Vacuum Sealing Disc

- for item 168P77/260 and 168P77/360

Description	Item-No.
\varnothing 230 mm for clamping frame \varnothing 260 mm	168P77/D26
\varnothing 330 mm for clamping frame \varnothing 360 mm	168P77/D36



Cantilever Arm with Angle Clamp

- for items 168P77/260 and 168P77/360

Item-No.
168P79



Two Way Vacuum Pipe

- model support with three threaded pins, M8x20, galvanised
- pipe \varnothing 35 mm
- with \varnothing 8 mm hose connection

Item-No.
168P78

Lamination Station & Deep Drawing Technology

Deep-Drawing Tool Set



consisting of

- 168P75: deep-drawing frame, inner Ø 360 mm
- 168P75/S: non-stick jig (PU = 20 pieces)
- 168P76/H: base for deep-drawing frame
- 168P77: suction pipe with disc, Ø 360 mm
- 168P78: two way suction pipe
- 168P79: holder with angled clamp piece

Item-No.

168P7

picture similar

Vacuum Deep-Drawing Device



- expandable for line production, with exchangeable rubber mat and 2 ball valves

Technical data

- dimensions W x D x H: 350 x 450 x 60 mm
- weight: approx. 12,5 kg net

Item-No.

168P57

Rubber Mat



- for item 168P57, for simple mount, perforated

Technical data

- dimensions W x D x H: 630 x 540 x 2 mm

Item-No.

168P58

picture similar

Lamination Station & Deep Drawing Technology



picture similar

Whirl Sintering Unit

Features

- incl. powder tank
- with adjustable blower
- capacity: 40 kg sintering powder
- 2,5 m power cord with grounded plug

Technical data

- outer dimensions W x D x H: 750 x 480 x 890 mm
- space requirements: 395 x 370 mm
- power requirements: 230 V / 50 Hz / 1 Ph / 0,5 kW
- weight: 30 kg net

Item-No.

31M1



picture similar

Pneumatic Whirl Sintering Unit

Features

- incl. powder tank
- capacity: 40 kg sintering powder
- 5 m hose and plug nipples

Technical data

- outer dimensions W x D x H: 750 x 480 x 890 mm
- space requirements: 395 x 370 mm
- weight: 25 kg net

Item-No.

31M2



Use only with air pressure regulator 169P84!



Water/Steam Basin

- for warming of thermoplastics
(low temperature PE = Streifytherm, Turbocast)
- good insulation of the unit guarantees quick warming of the water

Features

- with lid
- low energy consumption
- exact temperature adjustment
- nominal capacity: 45 litres
- removeable grid made of stainless steel
- water drain with ball valve
- material: stainless steel

Technical data

- outer dimensions W x D x H: 770 x 430 x 370 mm
- inner dimensions W x D x H: 685 x 360 x 185 mm
- temperature range/digital display: 30 – 95 °C
- accuracy: +/-1° C
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / 1,5 kW
- weight: 19,5 kg net

Item-No.

35M1/1



Hot Water Quench

- for warming of thermoplastics (low temperature PE = Streifytherm, Turbocast)
- good insulation of the unit guarantees quick warming of the water

Features

- with lid
- low energy consumption
- exact temperature adjustment
- capacity: 20 litres
- removeable grid made of stainless steel
- water drain with ball valve
- material: stainless steel

Technical data

- outer dimensions W x D x H: 570 x 420 x 280 mm
- inner dimensions W x D x H: 485 x 350 x 130 mm
- temperature range/digital display: 30 – 95 °C
- accuracy: +/-1° C
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / 0,9 kW
- weight: 17 kg net

Item-No.

35M2/2

Vacuum- & Compressed Air Technology

Vacuum- & Compressed Air Technology

In orthopaedic workshops, vacuum- and compressed air technology is used for numerous techniques and many processing steps. It is an important part for manufacturing thin-walled casting resin laminates as well as for thermoplastic forming of plastic materials.

As in the meantime many machines and hand tools are driven by compressed air, we can offer all components necessary, starting with a simple compressed air connection, or the compressed air-plaster saw up to the complete compressor system. In this chapter, you will find everything needed for vacuum- and compressed air technology.





Streifeneder VACUTEC

- vacuum unit for the manufacturing of thin-walled resin laminates and thermoplastic
- fully-automated portable vacuum deep drawing device

Features

- 2 separately adjustable analogue manometers
- 2 ball valves
- 2 exchangeable filters
- filter with condensate separator
- power cord with grounded plug
- hose connection, inside Ø 6 mm

Technical data

- dimensions W x D x H: 345 x 280 x 310 mm
- low pressure, adjustable: 220 mbar
- suction capacity: 26 l/min, approx. 80 % vacuum
- power requirements: 230 V / 50 Hz / 1 Ph / 0,09 kW

Weight	Item-No.
6,8 kg net	168P85



Vacumat Plus Type 262

- vacuum unit for the manufacturing of thin-walled cast resin laminates and thermoplastic deep-drawing works

Features

- 2 separate, electronically infinitely adjustable vacuum units with digital display
- 6 connections for resin lamination
- 2 connections for deep drawing
- 2 connections for external units
- 1,5 m power cord with grounded plug
- hose connection, inside Ø 6 mm

Technical data

- dimensions W x D x H: 425 x 385 x 220 mm
- suction capacity: 25 l/min, approx. 80 % vacuum
- power requirements: 220 – 230 V / 50 – 60 Hz / 1 Ph / 0,14 kW

Weight	Item-No.
18,4 kg net	168P50

 Replacement filter 168P50/E1 also separately available.



Vacumat Type 340

- vacuum unit for the manufacturing of thin-walled cast resin laminates and thermoplastic deep-drawing works

Features

- 2 separate, electronically infinitely adjustable vacuum units with pressure gauge
- 4 connections for resin lamination
- 2 connections for deep drawing
- 2 connections for external units
- hose connection, inside Ø 6 mm
- 1,5 m power cord with grounded plug

Technical data

- dimensions W x D x H: 425 x 385 x 220 mm
- suction capacity: 25 l/min, approx. 80 % vacuum
- power requirements: 220 – 230 V / 50 – 60 Hz / 1 Ph / 0,14 kW

Weight	Item-No.
18 kg net	168P51



Replacement filter 168P51/F and y-piece with filter 168P52/E3 also separately available.



Water Separator

- for item 168P50 and 168P51
- bottle with rubber plug and two hose connectors Ø 8 mm

Item-No.
168P52/WA



Vacuum Tank

- for item 168P50 and 168P51

Volume	Weight	Item-No.
20 liters	6 kg net	168P55/20
50 liters	23 kg net	168P55/50



Vacuum- & Compressed Air Technology



Pump Membrane

- for item 168P50 and 168P51
- PU = 1 piece

Item-No.

168P52/PM



Non-Return Valve

- for item 168P50 and 168P51
- PU = 4 pieces

Item-No.

168P52/R



Vacuum Unit

- for central vacuum supply for deep drawing tasks

Features

- vacuum storage container
- suitable for wall mounting
- incl. water separator with filter volume 500 cm³
- vacuum display with vacuum control
- motor protection switch
- 2 m power cord with grounded plug

Technical data

- dimensions W x D x H: 800 x 360 x 780 mm
- vacuum capacity: 200 l/min
- final vacuum: -850 mbar
- vacuum container: 10 litres
- vacuum connection: IG 3/8"
- noise level: 70 db(A)
- protection: IP20
- surrounding temperature: -10 °C to +40 °C (14 °F to 104 °F)
- power consumption: 1,4 A
- power requirements: 230 V / 50 Hz / 1 Ph / 0,52 kW
- colour: RAL 9011 graphite-black
- weight: 52 kg

Item-No.

168P90



Filter for Water Separator

- for item 168P90

Item-No.

168P90/F



Vacuum Control Unit

- for connection to a central vacuum unit like item 168P81, 168P82 or 168P90
- with the 2 separate control valves, you can adjust 2 different vacuum circuits

Technical data

- dimensions W x D x H: 230 x 230 x 180 mm
- adjustment range: 0 – 80 %
- hose connection outlet: 6 mm
- ball valve with hose connection, inner Ø: 6 mm
- colour: RAL 7035 light grey
- weight: 2 kg net

	Item-No.
	168P91



Connection Hose

- PVC, transparent

Inner-ø / outer-ø / thickness	Item-No.
5 mm / 8 mm / 1,5 mm	168P52/5x8
6 mm / 10 mm / 2 mm	168P52



T-piece for Vacuum Hose

Material

- POM
- colour: white

Characteristics

- operation pressure: 0 – 10 bar

PU = 5 pieces

For vacuum hoses of inner diameter	Item-No.
6 mm	168P53/6
9 mm	168P53/9

Vacuum- & Compressed Air Technology

without picture

Vacuum Pump

- very powerful mobile unit, for precise vacuum-forming of thermoplastic sheet materials

Features

- air-cooled vacuum pump
- water trap
- circular oil lubrication
- return stop valve
- oil mist trap
- ball valve G 3/4"
- vacuum gauge
- motor protection switch
- CSA and UL approval (optionally available)
- 4 m electric cord without plug

Technical data

- dimensions W x D x H: 930 x 440 x 620 mm
- rated suction volume: 40 m³/h = 40.000 l/h
- final pressure: 0,1 mbar (abs.)
- hose connection: G 3/4" 20
- power requirements: 400 V / 50 Hz / 3 Ph / 1,1 kW
- weight: approx. 55 kg net

Item-No.
168P82/3540



Special voltages upon request.

without picture

Vacuum Pump with Memory

- very powerful mobile unit, for precise vacuum-forming of thermoplastic sheet materials

Features

- water separator
- circular oil lubrication
- return stop valve
- oil mist trap
- ball valve G 3/4"
- vacuum gauge
- motor protection switch
- air-cooled vacuum pump
- CSA and UL approval (optionally available)
- automatic, adjustable vacuum control by contact vacuum gauge and vacuum memory
- switchable vacuum extraction possible either via vacuum pump OR via vacuum memory
- 4 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 1080 x 600 x 1230 mm
- rated suction volume: 40 m³/h = 40.000 l/h
- final pressure: 0,1 mbar
- hose connection: G 3/4" 25/34
- vacuum tank capacity: 50 liters
- power requirements: 400 V / 50 Hz / 3 Ph / 1,1 kW
- weight: 120 kg

Item-No.
168P81



Vacuum Pump Oil for Vacuum Pump

- for items 168P81 and 168P82



1 litre bottle

Description	Content	Item-No.
VE 101 – ISO VG 100, synthetic	1 litre	117P25/1
VE 101 – ISO VG 100, synthetic	5 litre	117P25/5

Mobile Compressor

Features

- single cylinder piston compressor
- full automatic operation by pressure switch with unloaded start and motor circuit breaker
- ON / OFF-switch
- suction filter with silencer
- manometer gauge
- quick hose coupling with male connector Ø 6 mm
- safety- and non-return valve
- perspiration water drain
- wheels
- push handle bracket
- carrying handle bracket
- 3 m power cord with grounded plug

Technical data

- dimensions W x D x H: 900 x 420 x 760 mm
- suction volume: 350 l/min
- delivery volume at 6 bar pressure: 230 l/min
- tank volume: 40 litres
- operation pressure: max. 10 bar
- power requirements: 230 V / 50 Hz / 1 Ph / 1,9 kW
- weight: 63 kg net



Item-No.
169P60



This compressor has been approved by German TÜV Standards.



Stationary Compressor

Features

- double cylinder piston compressor
- full automatic operation
- air-cooled compressor block with ring-lubrication
- suction filter with silencer
- vibration insulation of compressor, motor and tank
- unloaded start for direct start
- motor protection switch
- pressure tank officially approved with certificate
- manometer gauge
- control flange
- perspiration water drain
- quick hose coupling with male connector \varnothing 6 mm
- safety- and non-return valve
- 2 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 1100 x 480 x 780 mm
- suction volume: 440 l/min
- delivery volume at 6 bar pressure: 300 l/min
- tank volume: 90 litres
- operation pressure: max. 10 bar
- sound level: 77 dB (A)
- power requirements: 400 V / 50 Hz / 3 Ph / 2,4 kW
- weight: 90 kg net

Item-No.

169P61



This compressor has been approved by German TÜV Standards.
Other compressors available upon request!



Vacuum-Kit incl. Quadruple Vacuum

for later mounting in infrared-ovens

- distribution panel with 4 heat resistant (200 °C) vacuum couplers, V2A incl. mounting angle
- approx. 0,5 m supply hose with connector for quick coupling
- incl. 4 connectors for vacuum-coupling with 4 ea. separate hose nozzles D = 4 mm and 6 mm
- water separator 1/2" with mounting angle incl. quick coupling (entry) and ball valve with hose nozzle D = 12 mm (exit)

Item-No.

168P54/5

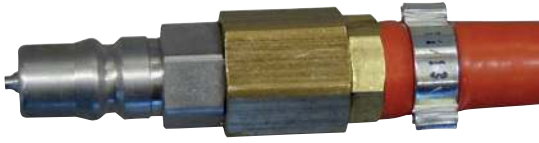


Quick-Lock Coupling with Hose Nozzle

- stainless steel coupling 1/8" IG
- incl. 1 ea. separate hose nozzles D = 4 mm and 6 mm
- heat resistant up to 200 °C

Item-No.

168P54/1



Connector for Quick-Lock Coupling

- stainless steel 1/8" IG
- incl. 1 ea. separate hose nozzles D = 4 mm and 6 mm
- heat resistant up to 200 °C

	Item-No.
	168P54/2



Hose Clamp for Vacuum Hose

- PU = 1 piece

For vacuum hose	For item	Item-No.
DI = 4 mm / DO = 9 mm	168P54/4	168P54/3
DI = 6 mm / DO = 12 mm	168P54/6	168P54/7
DI = 10 mm / DO = 18 mm	168P54/8	168P54/9



Silicone-Vacuum Hose

- heat resistant up to 200 °C
- PU = m

Dimensions	Item-No.
ID = 4 mm / OD = 9 mm	168P54/4
ID = 6 mm / OD = 12 mm	168P54/6
ID = 10 mm / OD = 18 mm	168P54/8



Quick Coupling with exterior thread

- brass, single shut-off
- max. work pressure 35 bar, oil-resistant seal
- temperature-resistant from -20 °C up to +100 °C

Thread	Item-No.
1/2"	169P75/GA
1/4"	169P75/KA
3/8"	169P75/MA



Quick Coupling with inner thread

- brass, single shut-off
- max. work pressure 35 bar, oil-resistant seal
- temperature-resistant from -20 °C up to +100 °C

Thread	Item-No.
1/2"	169P75/GI
1/4"	169P75/KI
3/8"	169P75/MI



Quick Hose Coupling

- for hose connection
- max. work pressure 35 bar, oil-resistant seal
- temperature-resistant from -20 °C up to +100 °C

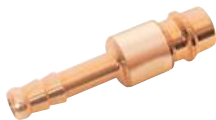
Hose inner ø	Item-No.
6 mm	169P76/6
9 mm	169P76/9



Y-Shape Coupling

- G 3/8"i, brass
- with 2 or 3 quick couplings incl. 2 male connectors 3/8"e x 3/8"e

Thread	Branchings	Item-No.
3/8" exterior	2	169P77/2
3/8" exterior	3	169P77/3



Hose Nozzle

- brass, for direct hose connection

Hose inner ø	Item-No.
6 mm	169P78/6
9 mm	169P78/9



Hose Nozzle

- brass, for direct hose connection, hose Ø 6 mm

Width across	Thread	Item-No.
17 mm	R 1/4"	169P79/6A
19 mm	R 3/8"	169P79/6B
24 mm	R 1/2"	169P79/6C
14 mm	R 1/8"	169P79/6D



Hose Nozzle

- brass, for direct hose connection, hose Ø 9 mm

Width across	Thread	Item-No.
17 mm	R 1/4"	169P79/9A
19 mm	R 3/8"	169P79/9B
24 mm	R 1/2"	169P79/9C



Plug Nipple

- brass, for threaded connection

Thread	Item-No.
R 1/2"e	169P80/GA
R 1/4"e	169P80/KA
R 3/8"e	169P80/MA



Hose Nipple

- brass, for threaded connection

Thread	Item-No.
R 1/2"i	169P80/GI
R 1/4"i	169P80/KI
R 3/8"i	169P80/MI



Sleeve

- brass

Thread	Item-No.
R 1"i	169P81/1
R 3/8"i	169P81/2



Reducing Piece

- brass

Thread	Item-No.
R 3/8"e to 1/8"i	169P82/1
R 1/2"e to 1/8"i	169P82/2
R 1/2"e to 1/4"i	169P82/3
R 1/2"e to 3/8"i	169P82/4
R 1"e to 1/2"i	169P82/5



Sealing Tape

- PTFE, for sealing of metal connections

W x T x L	Item-No.
12 mm x 0,1 mm x 12 m	169P83



Air Pressure Regulator

- with air filtration and water drain

Features

- connection thread
- manometer gauge
- semi-automatic water drain
- pressure range 0 – 12 bar

Connection thread	Item-No.
G 1/4" i	169P84/1
G 3/8" i	169P84/2
G 1/2" i	169P84/3



Twin Service Unit

Features

- air pressure regulator
- air line lubricator
- semi-automatic water drain
- pressure range 0 – 12 bar
- manometer gauge
- filter element

Connection thread	Item-No.
G 1/4" i	169P85/1
G 3/8" i	169P85/2
G 1/2" i	169P85/3

Supplied without plug-in nipple



Air Pressure Hose

- fibre-reinforced, for work pressure up to 15 bar, wall thickness 3 mm

Inside ø	Item-No.
6 mm	169P71
9 mm	169P72



Hose Clamp

- zinc-plated with cross head screw
- PU = 1 piece

For hose	Range	Item-No.
16871, 6 x 3	11 – 16 mm	169P73
168P72, 9 x 3	12 – 20 mm	169P74

Air Pressure Spiral Hose



169P70/5

- polyamide, squeeze-protected, plug nipples on both ends
- exterior Ø 8 mm, interior Ø 6 mm
- exterior connection thread R 1/4", length = stretched length

Pressure	Length	Item-No.
max. 10 bar	5 m	169P70/5
max. 15 bar	7,5 m	169P70/75



169P70/75

Pneumatic Drilling Machine



Features

- right-/left rotation with rapid changeover
- keyless chuck 3/8"
- no dust circulation due to suction hose

Technical data

- speed: 1800 RPM
- drill chuck clamping range: up to 10 mm
- air requirement: 360 l/min
- pressure: 6,3 bar
- capacity steel: 10 mm
- capacity wood: 20 mm
- weight: 1,1 kg

Item-No.
80M3



Use only with twin service unit 169P85.



Pneumatic Chipping Hammer

- complete with 5 different chisels and carry case
- pointed chisel: 185 mm
- flat chisel: 175 mm
- chisel for separating sheet metal: 175 mm
- chisel for cutting sheet metal: 180 mm
- chisel for removing bolts: 175 mm

Technical data

- frequency: 3000 RPM
- travel of chisel: 65 mm
- chisel holder: hexagonal, 10 mm
- hose connection: brass nipple
- air consumption: 150 – 240 l/min
- work pressure: 4 – 6 bar, max. 7 bar
- weight: 1,7 kg net

	Item-No.
	169P65

 Use only with twin service unit 169P85.



Chisel for Pneumatic Chipping Hammer

- for item 169P65

Width	Length	Item-No.
20 mm	250 mm	169P65/250

 Suitable for chisel hammers with a 10 mm arbor.



Pneumatic Stapler

- for upholstery, tacking, etc., for staple size 6 – 16 mm length, with plug nipple for connection to quick hose coupling

Technical data

- air consumption: 0,5 litres per beat
- cartridge capacity: 155 staples
- work pressure: 3 – 6 bar
- weight: 0,900 kg net

	Item-No.
	169P66

 Use only with twin service unit 169P85.



Staple

for pneumatic stapler 169P66, width 12,8 mm

Length	PU	Item-No.
6 mm	3000	37P9/6
8 mm	3000	37P9/8
10 mm	3000	37P9/10
12 mm	3000	37P9/12
14 mm	3000	37P9/14
16 mm	3000	37P9/16



Spray Gun

Features

- paint container, plastic, 0,6 litres
- screw-on lid
- adjustable round and flat spray patterns
- plug nipple for quick hose coupling

Technical data

- air requirement: 130 – 200 l/min
- work pressure: 2 – 4 bar
- weight: 0,77 kg net

Item-No.
169P64



Air Gun

- aluminum

Features

- plug nipple for quick hose coupling

Technical data

- clear width of the hose: 6 mm
- weight: 0,260 kg net

Item-No.
169P86

Vacuum- & Compressed Air Technology



Tire Pressure Gauge

- aluminum

Features

- pressure gauge with rubber protection
- adapter nipple for car valve
- adapter nipple for wheelchairs, bicycles and needle valves
- plug nipple for quick hose coupling

Technical data

- weight: 1,0 kg net

Item-No.

169P67



Pneumatic Drilling Machine

Features

- right/left hand drill action
- keyless chuck 3/8"
- powerful double drive for a quiet run and long-life cycle
- plug nipple for quick hose coupling

Technical data

- speed: 1800 RPM
- drill chuck clamping range: up to 10 mm
- air consumption: 460 l/min
- weight: 0,9 kg net
- operating pressure: 2 – 6,3 bar, max. 6,3 bar

Item-No.

169P68



Use only with twin service unit 169P85!



Paint Beater

- for pneumatic drilling machine 169P68
- for agitation of coating compounds and plaster

Diameter

Length

Item-No.

60 mm

380 mm

169P68/F



Compressed Air Plaster Cast Saw

- oscillating saw


Features

- 1 saw blade 169P69/60
- 2 fork wrenches
- plug nipple for quick hose coupling
- flexible exhaust hose, item 169P69/A only

Technical data

- operation pressure: 6 bar, max. 6,2 bar
- rotation speed: 14000 rpm
- air consumption: 560 l/min
- max. cutting depth: 14,29 mm
- max. cutting width: 1,19 mm
- weight: 1 kg

Version	Item-No.
Compressed air plaster cast saw standard version	169P69
Compressed air plaster cast saw with exhaust air hose	169P69/A

 Use only with twin service unit 169P85!



Circular Saw Blade

- for item 169P69

Diameter	Item-No.
60 mm	169P69/60

Spray Paint Set



- for spray coatings incl. spray gun, pressure container for connection to a central pressure regulator unit
- nozzles Ø: 1,5 mm

Technical data

- operating pressure: max. 8 bar
- weight: 1,9 kg net

	Item-No.
	169P50

Fitting screw connections

Description	Item-No.
connector plug NG8	169P40
connector box NG8	169P41
2-way ball valve	169P42
T-piece	169P43
WI-piece	169P44
barb connector	169P47
straight screw-in connection	169P48



Use only with twin service unit 169P85!

PE Plastic Container



- paint container for insertion into pressure container
- accessory for spray paint set 169P50

	Item-No.
	169P51

Pressure Container



- accessory for spray paint set 169P50

	Item-No.
	169P52



Sealing Ring

- for pressure container
- accessory for spray paint set 169P50

Item-No.
169P53



Outflow Cap

- for pressure container
- accessory for spray paint set 169P50

Item-No.
169P54

without picture

Pressure Regulator without Pressure Gauge

- for item 169P50

Item-No.
169P45

without picture

Pressure Gauge

- for item 169P50

Item-No.
169P46

Plastics- & Metal Processing Machines



Plastics- & Metal Processing Machines

Modern, high quality and complex handcrafted supplies in orthopaedic technology require machines which are working as professionally as you are. All machines produced and supplied by us have been manufactured according to the latest German respectively EU- accident-prevention standards. Whereas, the socket router is the fundamental machine of any artisanal activity in orthopaedic technology.

Our strong and efficient socket routers of the trademark "Maschinen Schmid" stand for precision and longevity and for decades, have been the flagships in orthopaedic technology. "Maschinen Schmid", founded in the thirties of the past century, grew within shortest time into "the" machine supplier for orthopaedic technology. Besides socket routers, planing machines, turning-lathes, band saws and belt grinding machines which were called "Kombina/Optima" at that time, were manufactured as well. Back then and now, the focus has been and still is on excellent price-quality ratio, room-saving construction and simple operation. In the meantime, company "Maschinen Schmid GmbH" has been 100 % integrated into Streifeneder ortho.production GmbH. Longlasting and outstandingly sturdy motors describe the most important advantage compared to many machines of our competitors. The entire production of "Maschinen Schmid" socket routers in Germany guarantees sturdy and reliable quality and ensures that the machines will operate up to 70 years without facing any mechanical problems.



Nowadays, the growing number of materials to be processed requires a large number of various milling- and grinding tools. Therefore, you will find in our product range more than 150 different tool bits, optimally adapted to the numerous materials.



On the following pages, you will find an adequate selection of the latest machines developed for orthopaedic technology. We are pleased to offer our best possible support to help you with your concept plans in accordance with the new foundation of your workshop or remodelling an existing one.

A comfortable, healthy working environment with modern machines and clean air are the main issues to correspond with the legal guidelines. You will find the respective dust extraction devices in the next chapter.

We are able to refer to numerous reference addresses world wide. Trust us!

without picture

Maschinen „Schmid“ Socket Router HF2

Features

- router motor with continuously adjustable electronic speed control, incl. motor brake
- with integrated bag
- router motor on sturdy steel base

Basic equipment

- chip collection bag
- multiple adjustable extractor hopper
- removable axis protection
- fork wrench 27 mm
- threaded bolt 5/8" or M16

Electrical equipment

- electric protective circuit according to VDE standards with under-voltage release and EMERGENCY-OFF foot switch
- ON / OFF switch for router motor
- with safety main switch
- approx. 2 m power cord with CEE plug 5 x 16 A

Technical data

- total height approx. 1500 mm
- foot dimensions / space requirement W x D: 440 x 550 mm
- work space requirement W x D: ca. 700 mm x 1300 mm
- working height: 1000 mm
- router axis length: 430 mm
- continuously adjustable speed of router motor: 750 – 300 RPM
- speed extractor motor: 2800 RPM
- collection volume: approx. 850 m³/h
- noise level: approx. 68 dB(A)
- power requirements router motor: 400 V / 50 – 60 Hz / 3 Ph / 2,2 kW
- power requirements extractor motor: 400 V / 50 Hz / 3 Ph / 1,1 kW
- colour: RAL 7011 anthracite, powder-coated
- weight: approx. 200 kg

	Item-No.
	3M2/3540



Due to current regulations, commercial use of the socket router with integrated dust extractor is not allowed in Germany!

without picture

Maschinen „Schmid“ Socket Router HF2

Features

- router motor with continuously adjustable electronic speed control, incl. motor brake
- for connection to central dust extraction with minimum air speed 20 m/s and a vacuum of 780 Pa
- router motor on sturdy steel base

Basic equipment

- multiple adjustable extractor hopper
- removable axis protection
- fork wrench 27 mm
- threaded bolt 5/8" or M16


Electrical equipment

- electric protective circuit according to VDE standards with under-voltage release and EMERGENCY-OFF foot switch
- ON / OFF switch for router motor
- with safety main switch
- approx. 2 m power cord with CEE plug 5 x 16 A

Technical data

- total height approx. 1500 mm
- foot dimensions / space requirement W x D: 440 x 550 mm
- work space requirement W x D: approx. 700 mm x 1300 mm
- working height: 1000 mm
- router axis length: 430 mm
- continuously adjustable speed of router motor: 750 – 300 RPM
- suction connection: Ø 120 mm
- noise level: approx. 68 dB(A)
- power requirements: 400 V / 50 – 60 Hz / 3 Ph / 2,2 kW
- colour: RAL 7011 anthracite, powder-coated
- weight: approx. 170 kg

Item-No.
3M4/3540

 For use of machine with frequency converter: for continuously adjustment of motor speed, we recommend to replace the FI-switch (motor protection switch) in the controll panel by an FI-switch sensitive to all current types.



Maschinen „Schmid“ Socket Router HF2

Features

- 2-speed router motor, incl. motor brake
- router motor on sturdy steel base
- for connection to a central dust extractor with minimum air speed of 20 m/s and vacuum of 710 Pa

Basic equipment

- multiple adjustable extractor hopper
- removable axis protection
- fork wrench: 27 mm
- threaded bolt 5/8" or M16

Electrical equipment

- electric protective circuit according to VDE standards with undervoltage release and EMERGENCY-OFF foot switch
- ON / OFF switch for router motor
- with safety main switch
- approx. 2 m power cord with CEE plug 5 x 16 A

Technical data

- total height: 1500 mm
- foot dimensions / space requirement W x D: 440 x 550 mm
- work place requirement W x D: approx. 700 mm x 1300 mm
- working height: 1000 mm
- router axis length: 430 mm
- extractor connection: Ø 120 mm
- 2-speed motor: 1450 / 2900 rpm
- noise level: approx. 73 dB(A)
- power requirements: 400 V / 50 Hz / 3 Ph / 1,1 kW
- colour: RAL 7035 light grey
- weight: 150 kg

Item-No.
3M3



Maschinen „Schmid“ Socket Router HF3 Vario

Features

- 2-speed router motor, incl. motor brake
- for connection to a central dust extractor with minimum air speed of 20 m/s and vacuum of 780 Pa
- 90° adjustable motorshaft angle
- horizontally tiltable
- electric height adjustment by means of motor

Basic equipment

- multiple adjustable extractor hopper
- removable axis protection
- fork wrench: 27 mm
- threaded bolt 5/8" or M16

Electrical equipment

- electric protective circuit according to VDE standards with undervoltage release and fixed EMERGENCY-OFF foot switch
- ON / OFF switch for router motor
- with safety main switch resp. motor protection switch
- approx. 2 m power cord with CEE plug 5 x 16 A

Technical data

- total height: 1550 mm
- foot dimensions / space requirement W x D: 430 x 580 mm
- work place requirement W x D: approx. 1000 mm x 1400 mm
- variable working height: 500 – 1500 mm
- router axis length: 430 mm
- extractor connection: Ø 120 mm
- 2-speed motor: 1450 / 2900 rpm
- noise level: approx. 68 dB(A)
- power requirements: 400 V / 50 Hz / 3 Ph / 1,1 kW
- colour: RAL 7035 light grey
- weight: 175 kg

Item-No.
2M4



Maschinen „Schmid“ Socket Router HF3 Vario

Features

- router motor with continuously adjustable electronic speed control, incl. motor brake
- for connection to a central dust extractor with minimum air speed of 20 m/s and vacuum of 780 Pa
- 90° adjustable motorshaft angle
- horizontally tiltable
- manual height adjustment by means of crank handle

Basic equipment

- multiple adjustable extractor hopper
- removable axis protection
- fork wrench: 27 mm
- threaded bolt 5/8" or M16


Electrical equipment

- electric protective circuit according to VDE standards with undervoltage release and fixed EMERGENCY-OFF foot switch
- ON / OFF switch for router motor
- with safety main switch resp. motor protection switch
- approx. 2 m power cord with grounded plug

Technical data

- total height: 1550 mm
- foot dimensions / space requirement W x D: 430 x 580 mm
- work place requirement W x D: approx. 1000 mm x 1400 mm
- variable working height: 500 – 1500 mm
- router axis length: 430 mm
- extractor connection: Ø 120 mm
- continuously adjustable speed: 0 – 2900 rpm
- noise level: approx. 68 dB(A)
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / 1,1 kW
- colour: RAL 7035 light grey
- weight: 160 kg

Item-No.
2M3

 For use of machines with frequency converters: For continuous speed adjustment, we recommend to replace the FI-switch (leakage current switch) in the switch box by an all-current sensitive FI.



Maschinen „Schmid“ Socket Router HF3 Vario

Features

- router motor with continuously adjustable electronic speed control, incl. motor brake
- for connection to a central dust extractor with minimum air speed of 20 m/s and vacuum of 780 Pa
- 90° adjustable motorshaft angle
- horizontally tiltable
- electric height adjustment by means of motor

Basic equipment

- multiple adjustable extractor hopper
- removable axis protection
- fork wrench: 27 mm
- threaded bolt 5/8" or M16


Electrical equipment

- electric protective circuit according to VDE standards with undervoltage release and fixed EMERGENCY-OFF foot switch
- ON / OFF switch for router motor
- with safety main switch resp. motor protection switch
- approx. 2 m power cord with grounded plug

Technical data

- total height: 1550 mm
- foot dimensions / space requirement W x D: 430 x 580 mm
- work place requirement W x D: approx. 1000 mm x 1400 mm
- variable working height: 500 – 1500 mm
- router axis length: 430 mm
- extractor connection: Ø 120 mm
- continuously adjustable speed: 0 – 2900 rpm
- noise level: approx. 68 dB(A)
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / 1,1 kW
- colour: RAL 7035 light grey
- weight: 175 kg

Item-No.
2M5

 For use of machines with frequency converters: For continuous speed adjustment, we recommend to replace the FI-switch (leakage current switch) in the switch box by an all-current sensitive FI.



Maschinen „Schmid“ Socket Router HF3 Vario Eco II

Features

- router motor with continuously adjustable electronic speed control, incl. motor brake
- for connection to a central dust extractor with minimum air speed of 20 m/s and vacuum of 780 Pa
- continuously adjustable motor axis angle
- manual height adjustment by means of crank handle

Basic equipment

- multiple adjustable extractor hopper
- removable axis protection
- fork wrenches 24 mm and 27 mm
- threaded bolts 5/8" and M16

Electrical equipment

- electric protective circuit according to VDE standards with undervoltage release and fixed EMERGENCY-OFF foot switch
- ON / OFF switch for router motor
- with safety main switch resp. motor protection switch
- 2 m power cord without plug

Technical data

- height overall: 1.600 mm
- base dimensions: L x W: 570 x 450 mm
- work place requirement W x D: approx. 1.000 x 1.400 mm
- variable working height: 560 – 1.080 mm
- router axis length: 430 mm
- suction nozzle Ø 125 mm with reduction adapter to Ø 100 mm
- continuously adjustable router motor: 750 – 3000 RPM
- noise level: approx. 68 dB(A)
- power requirements: 400 V / 50 – 60 Hz / 3 Ph / 2,2 kW
- colour: RAL 7011, anthracite, powder-coated
- weight: 140 kg

Special voltages

- 230 V / 50 – 60 Hz / 1 Ph / 2,2 kW (2M10/1523)
- 220 V / 50 – 60 Hz / 3 Ph / 2,2 kW (2M10/3622)

Item-No.
2M10

I For use of machines with frequency converters: For continuous speed adjustment, we recommend to replace the FI-switch (leakage current switch) in the switch box by an all-current sensitive FI.



Socket Router

- ideal for table mounting and operation where space is restricted

Features

- continuous electronic speed adjustment
- continuous adjustable motor shaft angle
- rotatable base for table mounting
- router shaft with thread M16 or 5/8"
- 2 m power cord with grounded plug

Technical data

- base dimensions: 15 x 23 cm
- router shaft length: 30,5 cm
- power requirements: 220 V / 50 Hz / 1 Ph / 0,5 HP (~0,37 kW)
- continuously adjustable speed: 0 – 3000 RPM
- weight: 18 kg

Item-No.
2M9/1522



Magnetic Lamp

- with 24 V transformer for protective low voltage, rubber lamp and safety glass resistant to temperature alternations, rubber plug and on/off switch

Technical data

- transformer: 230 V / 24 V / 20 VA
- power cord: 5 m
- lamp diameter: 90 mm
- length: 720 mm
- weight: 2,6 kg net

Item-No.
168P2



The lamp comes complete, ready for use with transformer!



picture similar

Threaded Stud

- It = Interior thread machine, Et = Exterior thread

It	Et	Item-No.
5/8"	M16	1M23/16
5/8"	5/8"	1M23/58
M16	M16	1M24/16
M16	5/8"	1M24/58



165P21/16

Threaded Manifold

- It = Interior thread, Et = Exterior thread

It	Et	Item-No.
5/8"	1/2"	165P21/12
M16	5/8"	165P21/16
5/8"	M16	165P21/58



Insulation Mat

- anti-vibration mat to dampen acoustic noise and vibration of machines
- oil and grease resistant, to a limited extent resistant to fuel, acid and alkalis
- temperature resistant from -10 °C to +70 °C
- colour: black
- thickness: 10 mm

Item-No.
160M2




The mats will be cut to fit the dimensions of the machine floor column. Please indicate those dimensions when placing your order. Upon request, we gladly offer you the screw material for surface mounting!



Screw Insulation

- screw insulation made of natural rubber
- for decoupling screw connections for surface mounting of machines
- buffer – opposing buffer mounting
- metall parts galvanized steel
- inner diameter: 10 mm
- outer diameter: 25 mm
- height: 8 mm

	Item-No.
	160M3/10

 Upon request, we will gladly offer you the screw material for surface mounting!



Jaw Wrench

Wrench size	Item-No.
27 mm	173P9/27
50 mm	173P9/50



Voltage Converter

- 220 – 240 V <-> 110 – 120 V (max. 1000 W)

Features

- ON/OFF switch with control lamp
- protection through miniature fuse
- input 110/200/220/240 V (AC)
- output 220 – 240 V / 110 V (AC)
- easy adjustment by jumper
- permitted maximum output: 1000 W
- permitted continuous output: 800 W
- dimensions W x D x H: 185 x 210 x 150 mm
- including spare fuse and plug adapter

	Item-No.
	11M1

 The frequency will not be converted.

Voltage Converter



- 220 – 240 V <-> 110 – 120 V (max. 3000 W)

Features

- ON/OFF switch with control lamp
- protection through miniature fuse
- input 110/200/220/240 V (AC)
- output 220 – 240 V / 110 V (AC)
- easy adjustment by jumper
- permitted maximum output: 3000 W
- dimensions: W x D x H: 185 x 250 x 150 mm
- including spare fuse and plug adapter

Item-No.
11M2



The frequency will not be converted.

Emergency Floor Push Stop



Item-No.
3M51

CEE Plug



- current load: 16 A
- voltage: 400 V, 3P+N+PE
- safety class: IP 44

Item-No.
10M10

CEE Electrical Outlet



- protection: 16 A
- voltage: 400 V, 3P+N+PE
- safety class: IP 44

Item-No.
10M11



Braking Unit

Electronic DC brake

Features

- DC braking with one-way rectification
- suitable for all asynchronous motors
- easy mounting, also for retrofitting into existing plants

Technical data

- dimensions W x D x H: 100 x 120 x 73 mm
- power requirements: 220 – 240 V / 50 – 60 Hz / 10 A / 1,1 kW
- integrated braking contactor, for devices up to 20 A

Item-No.
1M26



Filter Cartridge

- for machine type 1M3 (titan socket router)
- filter surface 6,7 m², very good filtration efficiency by using fleece fabrics
- easy cleaning with the integrated filter cleaner
- incl. clamping- and sealing ring, simple mount, without tools
- weight: 11 kg net

Diameter	Height	Item-No.
450 mm	670 mm	150M6



Disposable Chip Bag

- for titan socket router 1M3

Item-No.
150M3



Filter Cartridge

- for machine type Optima
- filter surface 4 m²
- very good filtration efficiency by using fleece fabrics
- easy cleaning with the integrated filter cleaner
- incl. clamping- and sealing ring, simple mount, without tools
- weight: 11 kg net

Diameter	Height	Item-No.
390 mm	650 mm	150M8

without picture

Filter Basket Cleaner

- mechanical, completely installed

Item-No.
150M7



Ball Cutter

- for wood- and hard foam works, with replaceable cutter

Ø x L	Thread	Item-No.
38 x 90 mm	M16	161P90/38
38 x 90 mm	5/8"	161P90A/38
50 x 100 mm	5/8"	161P90A/50



Replacement Cutter, HSS

- for item 161P90

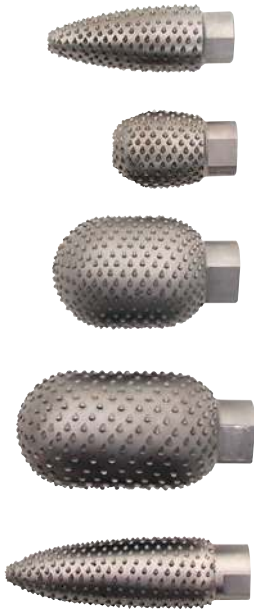
Diameter	Item-No.
38 mm	161P90/38E
50 mm	161P90/50E



Replacement Blade, HSS

- for item 161P91/50
- PU = 2 pieces

Diameter	Item-No.
50 mm	161P91/50E



Rasp Head

- for wood, hard foam and soft foam works, medium cut

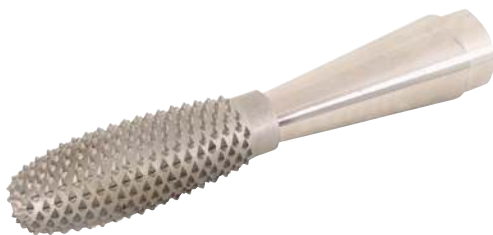
Ø x Length	Thread	Item-No.
30 x 85 mm	M16	161P5/3
30 x 85 mm	5/8"	161P5A/3
35 x 55 mm	M16	161P5/4
35 x 55 mm	5/8"	161P5A/4
50 x 80 mm	M16	161P5/2
50 x 80 mm	5/8"	161P5A/2
50 x 100 mm	M16	161P5/1
50 x 100 mm	5/8"	161P5A/1
30 x 105 mm	M16	161P5/6
30 x 105 mm	5/8"	161P5A/6



Rasp Head

- for wood, hard foam and soft foam works, fine cut

Ø x Length	Thread	Item-No.
30 x 85 mm	M16	161P4/3
30 x 85 mm	5/8"	161P4A/3
35 x 55 mm	M16	161P4/4
35 x 55 mm	5/8"	161P4A/4
50 x 100 mm	M16	161P4/1
50 x 100 mm	5/8"	161P4A/1



Rasp Head with Shank

- for plastic works
- Ø 22 mm, length 130 mm

Cut	Thread	Item-No.
medium	M16	161P4/2
medium	5/8"	161P4A/2
fine	M16	161P5/5
fine	5/8"	161P5A/5



Rasp Head without Shank

- for plastic works
- Ø 22 mm, length 58 mm

Cut	Thread	Item-No.
medium	M10	161P40/2
fine	M10	161P50/5



Fir Cone Cutter, HSS

- spiral fluted, for aluminum and plastic
- Ø 22 mm

Length	Thread	Item-No.
130 mm	M16	161P57
130 mm	5/8"	161P57/A
110 mm	M16	161P58
110 mm	5/8"	161P58/A



Fir Cone Cutter, HSS

- spiral fluted, for aluminum and plastic
- Ø 22 mm

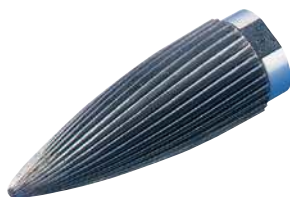
Length	Thread	Item-No.
58 mm	M10	161P57/O
36 mm	M10	161P58/O



Shank

- for rasp head 161P50, 161P40 and conical cutter 161P57, 161P58
- length 70 mm, thread M10

Thread	Item-No.
M16	165P22/16
5/8"	165P22/58



Conical Cutter, HSS

- spiral fluted, for aluminum and plastic
- Ø 27 mm, length 76 mm

Thread	Item-No.
M16	161P56
5/8"	161P56/A



Drum Cutter

- spiral fluted, for aluminum and plastic
- Ø 50 mm, length 50 mm

Thread	Item-No.
M16	161P59
5/8"	161P59/A



Groove Cutter

- mills channels with 18 mm width and 3 mm depth
- Ø 80 mm

Thread	Item-No.
5/8"	156P10A



Groove Cutter, HSS

- with holder, mills channels for wooden tongues 6P13
- Ø 80 x 4 mm

Thread	Item-No.
5/8"	156P1/58

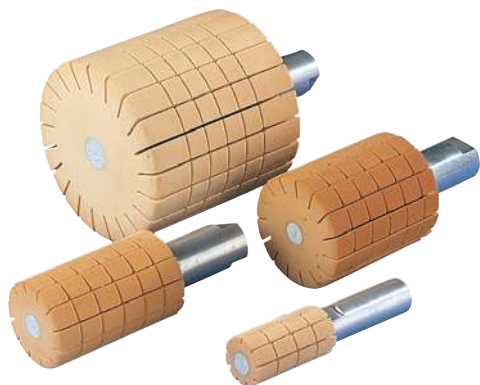


Groove Cutter, HSS

- for item 156P1/16
- without holder

Diameter	Bore	Item-No.
80 x 4 mm	16 mm	156P1

Sanding Roll



Ø x Length	Thread	Item-No.
25 x 50 mm	M16	161P45
25 x 50 mm	5/8"	161P45/A
45 x 75 mm	M16	161P52
45 x 75 mm	5/8"	161P52/A
60 x 75 mm	M16	161P47
60 x 75 mm	5/8"	161P47/A
100 x 100 mm	M16	161P51
100 x 100 mm	5/8"	161P51/A

Sanding Sleeves



- for item 161P45, 161P47, 161P51 and 161P52
- PU = 10 pieces

Ø x Length / for item	Grit	Item-No.
25 x 50 mm / 161P45	G 40	161P46/40
25 x 50 mm / 161P45	G 80	161P46/80
25 x 50 mm / 161P45	G 120	161P46/120
45 x 75 mm / 161P52	G 24	161P48/24
45 x 75 mm / 161P52	G 40	161P48/40
45 x 75 mm / 161P52	G 60	161P48/60
45 x 75 mm / 161P52	G 80	161P48/80
45 x 75 mm / 161P52	G 100	161P48/100
45 x 75 mm / 161P52	G 120	161P48/120
60 x 75 mm / 161P47	G 24	161P49/24
60 x 75 mm / 161P47	G 40	161P49/40
60 x 75 mm / 161P47	G 60	161P49/60
60 x 75 mm / 161P47	G 80	161P49/80
60 x 75 mm / 161P47	G 100	161P49/100
60 x 75 mm / 161P47	G 120	161P49/120
100 x 100 mm / 161P51	G 24	161P50/24
100 x 100 mm / 161P51	G 40	161P50/40
100 x 100 mm / 161P51	G 80	161P50/80
100 x 100 mm / 161P51	G 120	161P50/120

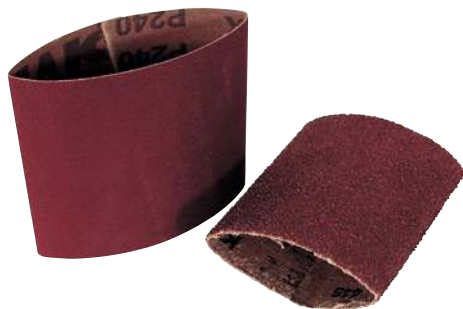
Sanding Roll, small



- length 75 mm

Diameter	Thread	Item-No.
45 mm	M16	161P72
45 mm	5/8"	161P72/A
60 mm	M16	161P73
60 mm	5/8"	161P73/A

Sanding Sleeves



- for item 161P72 and 161P73, length 75 mm
- PU = 10 pieces

Ø / for item	Grit	Item-No.
45 mm / 161P72	G 24	161P72/24
45 mm / 161P72	G 40	161P72/40
45 mm / 161P72	G 80	161P72/80
45 mm / 161P72	G 120	161P72/120
45 mm / 161P72	G 240	161P72/240
60 mm / 161P73	G 24	161P73/24
60 mm / 161P73	G 40	161P73/40
60 mm / 161P73	G 80	161P73/80
60 mm / 161P73	G 120	161P73/120
60 mm / 161P73	G 180	161P73/180
60 mm / 161P73	G 240	161P73/240

Rubber for Polishing Arbor



- for item 161P72 and 161P73, length 75 mm

Diameter	For item	Item-No.
45 mm	161P72	161P72/E
60 mm	161P73	161P73/E

Adjustable Twin Pin Key



- for item 161P72 and 161P73

Item-No.
161P74

Habermann Sanding Drum



- according to „Habermann“

Ø x Length	Thread	Item-No.
45 x 58 mm	M16	161P60/1
45 x 58 mm	5/8"	161P60A/1
60 x 58 mm	M16	161P60/2
60 x 58 mm	5/8"	161P60A/2
60 x 100 mm	M16	161P60/3
60 x 100 mm	5/8"	161P60A/3
80 x 58 mm	M16	161P60/4
80 x 58 mm	5/8"	161P60A/4

without picture

Tool Key for Habermann Sanding Drum

- for Habermann Sanding Drum (161P60)
- adjustable

Item-No.
161P62

Sanding Sleeves



- suitable for item 161P60
- PU = 10 pieces

Ø x Length	Grit	Item-No.
45 x 58 mm	G 60	161P63/1
45 x 58 mm	G 100	161P63/2
45 x 58 mm	G 150	161P63/3
60 x 58 mm	G 60	161P64/1
60 x 58 mm	G 100	161P64/2
60 x 58 mm	G 150	161P64/3
60 x 100 mm	G 60	161P65/1
60 x 100 mm	G 100	161P65/2
60 x 100 mm	G 150	161P65/3
85 x 58 mm	G 60	161P66/1
85 x 58 mm	G 100	161P66/2
85 x 58 mm	G 150	161P66/3



Rubber Covering

- for item 161P60

Diameter	Length	Item-No.
45 mm	58 mm	161P61/1
60 mm	58 mm	161P61/2
60 mm	100 mm	161P61/3
85 mm	58 mm	161P61/4



Sanding Drum

- length 60 mm

Diameter	Thread	Item-No.
55 mm	M16	161P6/55

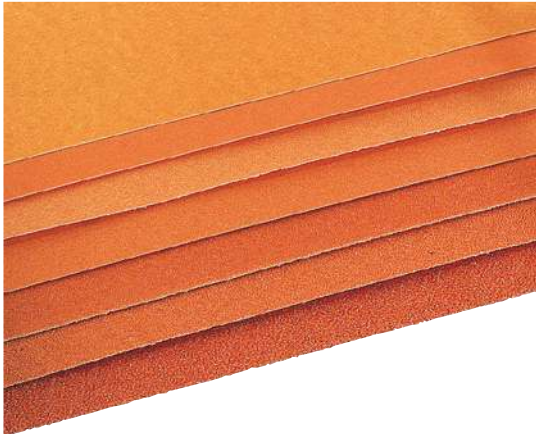


Sanding Strip Roll

- suitable for item 161P6, width 60 mm
- PU = 50 m per roll

Grit	Item-No.
G 40	107P28/4
G 50	107P28/5
G 60	107P28/6
G 80	107P28/8
G 100	107P28/10
G 120	107P28/12
G 150	107P28/15
G 180	107P28/18

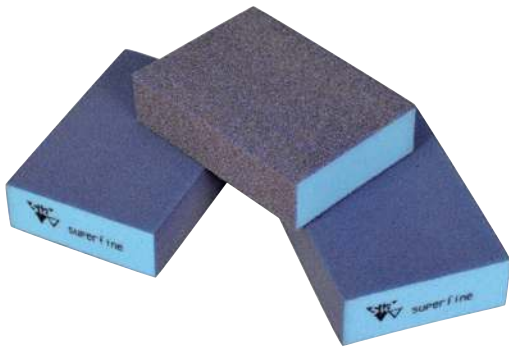
Sand Paper



- sand paper
- PU = 1 piece

Dimensions	Grit	Item-No.
280 x 230 mm	G 40	107P21/4
280 x 230 mm	G 60	107P21/6
280 x 230 mm	G 80	107P21/8
280 x 230 mm	G 100	107P21/10
280 x 230 mm	G 120	107P21/12
280 x 230 mm	G 180	107P21/18
280 x 230 mm	G 220	107P21/22

Sanding-Genius



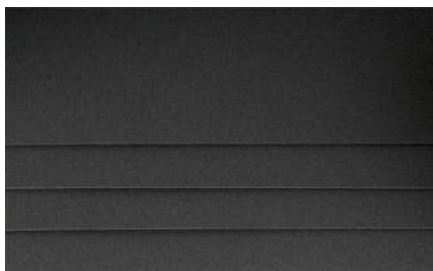
- sanding sponge set
- for all surfaces like immersions and roundings
- set consisting of: 2 sanding sponges fine (grit 180) and 1 sanding sponge coarse (grit 60)
- PU = 1 set

Technical data

- dimensions W x D x H: 97 x 68 x 27 mm

Item-No.
107P8

Sandpaper for Wet Sanding



Dimensions	Grit	Item-No.
280 x 230 mm	G 180	107P22/18
280 x 230 mm	G 240	107P22/24
280 x 230 mm	G 400	107P22/40

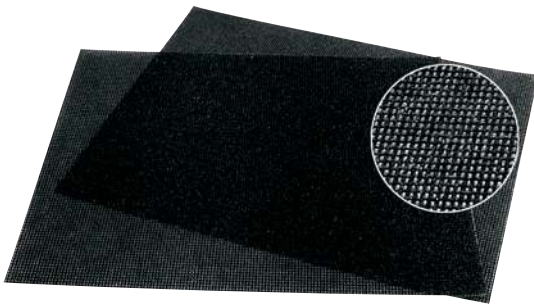
Sanding Strip Roll



- PU = 50 m per roll

Width	Grit	Item-No.
60 mm	G 400	107P5/400

Sanding Net



- based on silicon, suitable for wet grinding in order to get glazed surfaces
- PU = 5 sheets

Dimensions W x L	Grit	Item-No.
230 x 280 mm	G 100	107P31/100
230 x 280 mm	G 220	107P31/220

Sanding Sheets



- for item 161P100 and 161P102
- PU = 10 pieces

L x W	Grit	For item	Item-No.
240 x 100 mm	G 40	161P100	161P101/4
240 x 100 mm	G 80	161P100	161P101/8
350 x 100 mm	G 40	161P102	161P103/4
350 x 100 mm	G 120	161P102	161P103/12

Sanding Strip Roll



- full resin bond
- width: 100 mm
- PU = 50 m per roll

Grit	Item-No.
G 40	107P29/40
G 80	107P29/80
G 120	107P29/120

Plastics- & Metal Processing Machines



Sanding Roll

- to pull onto the router machine shaft, comes with one sanding sleeve
- tapered bore \varnothing 72,5 mm, length 200 mm

Use	Item-No.
	161P85/200
for Trautmann Router Machine	161P85/T



Sanding Sleeves

- for item 161P85, \varnothing 72,5 mm, length 200 mm
- PU = 10 pieces

Grit	Item-No.
G 40	161P86/40
G 50	161P86/50
G 80	161P86/80
G 100	161P86/100



Abrasive Flap Wheel

- \varnothing 58 mm, length 58 mm

Thread	Item-No.
M16	161P7
5/8"	161P7A



Sand Paper Set

- for item 161P7, 5-parts, length 55 mm, width 70 mm
- PU = 1 set

Grit	Item-No.
G 40	161P7/K40
G 50	161P7/K50
G 60	161P7/K60
G 80	161P7/K80
G 100	161P7/K100
G 120	161P7/K120
G 150	161P7/K150
G 180	161P7/K180



Rubber Insert Set

- suitable for abrasive flap wheel 161P7
- PU = 5 pieces

	Item-No.
	161P7/GL



Sanding Sleeves

- for item 161P83
- Ø 79,9 mm, length 130 mm
- PU = 10 pieces

Grit	Item-No.
G 40	161P84/40
G 60	161P84/60
G 80	161P84/80
G 120	161P84/120



Sanding Sleeves

- for item 161P81
- circumference 450 mm, length 130 mm
- PU = 10 pieces

Grit	Item-No.
G 24	161P82/24
G 40	161P82/40
G 60	161P82/60
G 80	161P82/80
G 120	161P82/120



Sanding Sleeves

- for item 161P81, tight version
- circumference 448 mm, length 130 mm
- PU = 10 pieces

Grit	Item-No.
G 24	161P82/24E
G 40	161P82/40E
G 120	161P82/12E



Grinding Fleece Sleeve

- for item 161P81 and 161P83
- for cosmetic soft foam works

For item	Circumference x length	Item-No.
161P81	440 x 130 mm	161P82/V
161P83	253 x 120 mm	161P84/V



Polishing Arbor

- length 100 mm

Diameter	Thread	Item-No.
25 mm	5/8"	161P75/A
20 mm	5/8"	161P79/A
20 mm	M 16	161P79



Sanding Sleeves

- for item 161P75 and 161P79
- length 50 mm
- PU = 10 pieces

Diameter	Grit	Item-No.
20 mm	G 40	161P79/40
20 mm	G 150	161P79/150
25 mm	G 40	161P76/40
25 mm	G 150	161P76/150



Rubber Core Replacement

- for item 161P75 and 161P79

For item	Item-No.
161P75	161P75/E
161P79	161P79/E



Sanding Drum, conical

- length 60 mm, Ø 22/36 mm

Thread	Item-No.
M16	161P80
5/8"	161P80/A



Sanding Sleeves

- for item 161P80
- length 60 mm, Ø 22/36 mm
- PU = 10 pieces

Grit	Item-No.
G 50	107P1/50
G 80	107P1/80
G 150	107P1/150



Sanding Drum

- with shank, thread M6

Diameter	Length	Item-No.
11 mm	25 mm	161P0/1125
16 mm	25 mm	161P0/1626
21 mm	40 mm	161P0/2140



Sanding Sleeve

- for item 161P0
- PU = 10 pieces

Grit / Ø x L	For item	Item-No.
G 60 / 11 x 25 mm	161P0/1125	161P01/60
G 150 / 11 x 25 mm	161P0/1125	161P01/150
G 60 / 16 x 25 mm	161P0/1626	161P02/60
G 150 / 16 x 25 mm	161P0/1626	161P02/150
G 60 / 21 x 40 mm	161P0/2140	161P03/60
G 150 / 21 x 40 mm	161P0/2140	161P03/150



Sanding Drum

- with rubber core, shank thread M6

Diameter	Length	Item-No.
22 mm	20 mm	161P0/2220
30 mm	20 mm	161P0/3020



Sanding Sleeves

- for item 161P0
- PU = 10 pieces

Grit / Ø x L	For item	Item-No.
G 40 / 22 x 20 mm	161P0/2220	161P04/40
G 120 / 22 x 20 mm	161P0/2220	161P04/120
G 40 / 30 x 20 mm	161P0/3020	161P05/40
G 120 / 30 x 20 mm	161P0/3020	161P05/120



Lamella Fleece Sanding Drum

- with threaded pin M6

Diameter	Width	Item-No.
60 mm	50 mm	161P78



Fleece Fan Sanding Drum

- with threaded pin M6

Diameter	Width	Item-No.
60 mm	50 mm	161P77



Tool Holder

- for item 161P0, 161P77 and 161P78
- interior thread M6 for sanding attachment
- Mt = Machine thread

Mt x interior thread	Item-No.
M16 x M6	161P44/16
5/8" x M6	161P44/58



Sanding Drum

Ø x L	Thread	Item-No.
45 x 70 mm	M16	161P40/45
45 x 70 mm	5/8"	161P40A/45
65 x 90 mm	M16	161P40/60
65 x 90 mm	5/8"	161P40A/60



Sanding Cap

- for item 161P40
- PU = 6 pieces per box

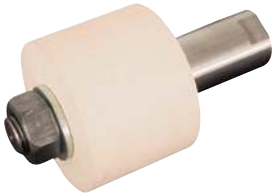
Ø x L	Grit	Item-No.
45 x 70 mm	G 40	161P41/40
45 x 70 mm	G 80	161P41/80
65 x 90 mm	G 40	161P42/40
65 x 90 mm	G 80	161P42/80



Polishing Cone

- for plastic works
- Ø 60 mm, length 80 mm

Thread	Item-No.
M16	161P3
5/8"	161P3A



Polishing Drum

- for plastic works
- Ø 60 mm, length 40 mm

Thread	Item-No.
M16	161P23
5/8"	161P23A



Replacement Rubber

- for item 161P23

Diameter	Length	Item-No.
60 mm	40 mm	161P23/E



Polishing Cone

- Ø 60 mm, length 80 mm

Thread	Item-No.
M16	161P22
5/8"	161P22A



Corundum Sanding Cone

- for metal works

Ø x L	Thread	Item-No.
50 x 70 mm	M16	161P24/2
50 x 70 mm	5/8"	161P24A/2
60 x 80 mm	M16	161P24/3



Felt Cone

- with brass insert, for plastic works

Ø x L	Thread	Item-No.
45 x 60 mm	M16	161P21
45 x 60 mm	5/8"	161P21A
60 x 80 mm	M16	161P20
60 x 80 mm	5/8"	161P20A



Felt Cone

- with threaded metal bushing, without flint glueing

Ø x L	Thread	Item-No.
45 x 60 mm	M16	161P25/1
45 x 60 mm	5/8"	161P25A/1
55 x 80 mm	M16	161P25/2
55 x 80 mm	5/8"	161P25A/2
65 x 90 mm	M16	161P25/3
65 x 90 mm	5/8"	161P25A/3

Grinding Cone made of Silicone




scope of supply does not include stand

- perfectly suitable for grinding the edges of soft and permanently flexible plastic materials (e.g. EVA-based materials such as Streifyflex or Streifytec soft, LDPEs with low density, e.g. Streifylast)
- not suitable for hard materials and foams

Thread	Colour	Item-No.
M16	anthracite	161P26/1
5/8"	anthracite	161P26A/1
M16	anthracite	161P26/2
5/8"	anthracite	161P26A/2
M16	anthracite	161P26/3
5/8"	anthracite	161P26A/3
M16	anthracite	161P26/4
5/8"	anthracite	161P26A/4
M16	anthracite	161P26/5
5/8"	anthracite	161P26A/5

Order reference: The desired type can be determined by means of the product picture, e.g. 1: item-no. 161P26/1 resp. 161P26A/1.

 Exchange service of silicone bodies available upon request.

Stand for 5 grinding cones made of silicone



scope of supply does not include grinding cones

- stand for 5 grinding cones made of silicone
- M16/5/8"
- material: plastic

Item-No.
161P26

Wire Wheel



- suitable for item 161P33
- for processing of cosmetic soft foam covers, bore \varnothing 16,1 mm

\varnothing x width	Grinding	Item-No.
60 x 18 mm	coarse	161P30/60
70 x 20 mm	coarse	161P30/70
80 x 25 mm	coarse	161P30/80
150 x 35 mm	coarse	161P30/150
175 x 38 mm	fine	161P30/175

Polishing Wheel



- suitable for item 161P33
- made of cotton, for polishing works

Ø x Width	Bore	Item-No.
120 x 20 mm	16 mm	161P32/1
200 x 30 mm	16 mm	161P32/2
200 x 30 mm	20 mm	161P32/3
250 x 30 mm	16 mm	161P32/4

 Different dimensions upon request!

Polishing Wheel / Wave Folding



- suitable for item 161P33
- for plastic works, Ø 180 mm

Width	Bore	Item-No.
20 mm	16 mm	161P32/W

Lamella Fleece Wheel



159P5/80



159P5/100

- suitable for item 161P33
- for metal- and plastic works
- width 50 mm

Diameter	Thread	Item-No.
80 mm	5/8"	159P5/80
100 mm	5/8"	159P5/100



Lamella Fleece Wheel

- suitable for item 161P33
- without thread, for metal- and plastic works
- width 50 mm


Diameter	Bore	Item-No.
200 mm	16 mm	159P5/200



Lamella Wheel

- for plastic works

Diameter	Grit	Item-No.
165 mm	G 320	161P31

 Attention: Use only with tension disc!



Tension Disc

- suitable for item 161P33 and item 161P31
- PU = 1 pair

Bore	Item-No.
16 mm	161P34



Holder

- for all polishing- and lamella wheels

Thread	Item-No.
M16	161P33/16
5/8"	161P33/58



Combination Grinder U3

Features

- 2-speed motor
- with stand and suction hood, left and right
- suitable for connection to a central suction unit

Basic equipment

- 2 m suction hose Ø 80 mm
- 2 x hose clamps Ø 70 – 90 mm
- right shaft with threaded bolt for tools with 5/8" or M16 thread
- left shaft with M30 fine thread incl. nut
- fork wrench: 27 mm


Electrical equipment

- protective circuit according to German VDE Standard with low voltage release
- approx. 2 m power cord with CEE plug 5 x 16 A

Technical data

- total height: 1100 mm
- space requirement W x D: 1000 x 800 mm
- height of floor to shaft centre: approx. 1000 mm
- 2-speed router motor: 1430/2860 RPM
- 2 suction hoods with suction connection Ø 80 mm
- sound level: 65 dB (A)
- milling shaft: Ø 30 mm
- total shaft length: 680 mm
- power requirements: 400 V / 3 Ph / 50 Hz / 1,1 kW / 1,65 kW
- colour: RAL 7035 light grey
- weight: approx. 88 kg net

Item-No.
110M7

 Matching distance rings for mounting of e.g. nub grinding cylinders, are available (item nr. 150M11/30).



Wide Belt Sander

Features

- 2-speed motor
- space saving, robust construction
- designated for connection to an external dust suction unit
- with closed belt protection
- quick action fastener for easy change of sanding belt

Basic equipment

- 1 sanding belt 200 x 1500 mm (107P60/40)
- support table with adjustable tilt angle from -10° to +45°

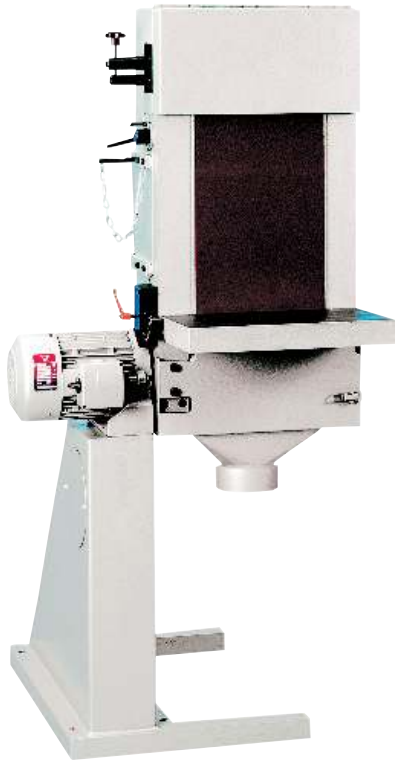
Electrical equipment

- motor protection switch
- 3 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 620 x 430 x 1470 mm
- rotation speed: 1450 / 2900 rpm
- extractor connection Ø 100 mm
- sanding belt speed: 10/20 m/sec.
- sanding width: max. 200 mm
- belt length: 1.500 mm
- power requirements: 400 V / 50 Hz / 3 Ph / 1,8 kW / 2,2 kW
- colour: RAL 7035 light grey
- weight: 120 kg net

Item-No.
110M4



Wide Belt Sander

Type

- one-speed motor

Features

- 1 sanding belt 300 x 2000 mm (107P50/40)
- support table with adjustable tilt angle from -10° to +45°

Electrical equipment

- motor protection switch
- 3 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 770 x 730 x 1630 mm
- motor speed: 1450 rpm
- extractor connection Ø 150 mm
- sanding belt speed: 300 mm
- sanding belt length: 2000 mm
- power requirements: 400 V / 50 Hz / 3 ph / 3,0 kW
- colour: RAL 7035 light grey
- total weight: approx. 190 kg net

Special voltages

- 208 V / 60 Hz / 3 Ph+PE / 3,0 kW (110M5/3620)

	Item-No.
	110M5



Sanding Belt

- for wood and plastic, MA=Machine, EM=External Make

L x W / grit	for MA	Item-No.
1500 x 200 mm / G 40	110M4	107P60/40
2000 x 300 mm / G 24	110M5	107P50/24
2000 x 300 mm / G 40	110M5	107P50/40
2000 x 300 mm / G 80	110M5	107P50/80
1800 x 300 mm / G 40	EM	107P62/40



Sanding Belt

- MA = Machine Type, EM = External Make

L x W / grit	for MA	Item-No.
2250 x 50 mm / G 40	FF	107P56/40
2250 x 50 mm / G 60	FF	107P56/60
2250 x 50 mm / G 80	FF	107P56/80
2250 x 50 mm / G 120	FF	107P56/120
2250 x 50 mm / G 180	FF	107P56/180
2250 x 50 mm / G 240	FF	107P56/240
2000 x 50 mm / G 40	EM	107P61/40
2000 x 50 mm / G 80	EM	107P61/80
2000 x 50 mm / G 120	EM	107P61/120
3500 x 50 mm / G 40	Optima	107P58/40
3500 x 50 mm / G 80	Optima	107P58/80
3500 x 50 mm / G 120	Optima	107P58/120



Belt Sander

Features

- floor stand
- 2-speed motor
- for connection to central exhaust unit with minimum air speed 20 m/sec

Basic equipment

- continuously adjustable tilting angle of the working surface by 90°
- speed control

Electrical equipment

- motor protection switch
- 1,3 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 800 x 850 x 1520 mm
- space requirements W x D: approx. 1800 x 1400 mm
- extractor connection: Ø 100 mm
- sanding belt width: 250 mm
- sanding belt length: 2000 mm
- rotation speed: 1400/2800 rpm
- sanding belt speed: 15/30 m/sec
- power requirements: 400 V / 50 Hz / 3 ph / 2,3 kW / 3,0 kW
- colour: RAL 7035 light grey
- weight: 152 kg

Item-No.
10M37/3540



Sanding Belt

- for wood and plastic, for item 10M35 and 10M37

L x W / grit	Grit	Item-No.
2000 x 250 mm	G 40	107P59/40



Combination Sander

Features

- floor stand
- 2-speed motor
- for connection to central exhaust unit with minimum air speed 20 m/s

Basic equipment

- left side face plate Ø 350 mm with support table
- right side contact wheel and belt tensioning arm
- speed control

Electrical equipment

- motor protection switch
- 1,3 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 800 x 800 x 1900 mm
- space requirements W x D: approx. 1700 x 1400 mm
- 1 x extractor connection each, Ø 100 mm
- sanding belt width: 50 mm
- sanding belt length: 2500 mm
- face plate: Ø 350 mm
- rotation speed: 1400/2800 rpm
- sanding belt speed: 18/36 m/sec
- power requirements: 400 V / 50 Hz / 3 Ph / 1,3 kW / 1,8 kW
- colour: RAL 7035 light grey
- weight: 102 kg

Item-No.
10M38/3540



Grinding Belt

- for item 10M36 and 10M38

Dimensions	Grit	Item-No.
2500 x 50 mm	G 60	107P63/60
2500 x 50 mm	G 120	107P63/120
2500 x 50 mm	G 180	107P63/180



Sanding Disc

- for face plates

Diameter	Grit	Item-No.
320 mm	G 24	107P32/320
300 mm	G 36	107P30/300
350 mm	G 36	107P30/350
400 mm	G 36	107P30/400



Sanding Line

- infinitely, corundum and sinter ceramic-coated abrasive, resin-bonded

Dimensions	Grit	Item-No.
2000 x 300 mm	G 40	107P70/40
2000 x 300 mm	G 60	107P70/60
2000 x 300 mm	G 80	107P70/80



Double Grinder

Bench version

Features

- with 2 different corundum grinding wheels
- protective hood
- tool support

Electrical equipment

- 3 m power cord with CEE plug 5 x 16 A

Technical data

- power requirements: 400 V / 50 Hz / 3 Ph
- colour: RAL 7035 light grey

Wheel Ø / kW	Weight	Speed	Item-No.
175 mm / 0,37	approx. 15 kg	3000 RPM	10M2
200 mm / 0,55	approx. 18 kg	3000 RPM	10M4
300 mm / 1,50	approx. 90 kg	1500 RPM	10M6



Double Grinder

Floor stand

- dimensions = Ø wheel x total height

Features

- with 2 different corundum grinding wheels
- protective hood
- tool support

Electrical equipment

- 3 m power cord with CEE plug 5 x 16 A

Technical data

- power requirements: 400 V / 50 Hz / 3 Ph
- colour: RAL 7035 light grey

Special Voltages

- 208 V / 60 Hz / 3 Ph+PE / 0,55 kW (10M3/3620)

Dimensions / weight	Power	Speed	Item-No.
175 x 960 mm / 45 kg net	0,37 kW	3000 RPM	10M3
200 x 960 mm / 48 kg net	0,55 kW	3000 RPM	10M5
300 x 920 mm / 134 kg net	1,50 kW	1500 RPM	10M7

Plastics- & Metal Processing Machines



Spark Guard

- 2 units per machine, transparent shield with mounting fixture

For machine	Diameter	Item-No.
10M2, M3, M4, M5	190 mm	10M8/F
10M6, M7	230 mm	10M9/F



Grinding Wheel Dresser

- for grinding wheel \varnothing 100 – 400 mm

\varnothing disc x disc width	Item-No.
36 x 12 mm	178P30

picture similar



Grinding Wheel

- ordinary corundum, for machine 10M2 and 10M3
- \varnothing 175 mm, width 25 mm, bore \varnothing 50,8 mm

Grit	Item-No.
fine G 60	10M2/F
coarse G 36	10M2/G



Grinding Wheel

- ordinary corundum, for machine 10M4 and 10M5
- \varnothing 200 mm, width 32 mm, bore \varnothing 50,8 mm

Grit	Item-No.
fine G 60	10M4/F
coarse G 36	10M4/G



Grinding Wheel

- ordinary corundum, for machine 10M6 and 10M7
- \varnothing 300 mm, width 40 mm, bore \varnothing 76,2 mm

Grit	Item-No.
fine G 60	10M6/F
coarse G 36	10M6/G

without picture

Combined Belt Sander / Grinder

Features

- left side with grinding wheel Ø 300 mm, protective hood and tool support
- right side with rubber contact wheel Ø 450 mm
- sanding belt tensioning arm with closed protective hood
- 1 x corundum grinding wheel grit 36 (item 107P30/300)
- 1 x sanding belt grit 120 (item 107P57/120)
- 2,5 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 890 x 750 x 2200 mm
- extractor connection with outer Ø 126 mm
- sanding belt width: 50 mm
- sanding belt length: 3000 mm
- sanding belt speed: 35 m/sec
- speed: 1500 RPM
- power requirements: 400 V / 50 Hz / 3 Ph / 1,5 kW
- colour: RAL 7035 light grey
- weight net/gross: 170 / 285 kg

	Item-No.
	10M30

without picture

Double Belt Grinding Machine

Features

- 2 grinding belt tensioning arms with closed protective hoods
- 2 rubber contact wheels Ø 250 mm
- 2 grinding belts, grit 120 (item 107P63/120)
- 2,5 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 890 x 450 x 2005 mm
- extractor connection Ø 88 mm
- grinding belt width: 50 mm
- grinding belt length: 2500 mm
- speed: 3000 RPM
- power requirements: 400 V / 50 Hz / 3 Ph / 2,5 kW
- colour: RAL 7035 light grey
- weight net/gross: 192 / 307 kg

	Item-No.
	10M32

Combined Sanding / Polishing Machine




Features

- left side with polishing wheel Ø 300 mm
- protective hood
- right side with rubber contact wheel Ø 250 mm
- sanding belt tensioning arm with closed protective hood
- 1 x polishing wheel
- 1 x sanding belt grit 120 (107P63/120)
- 2,5 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 890 x 750 x 2200 mm
- left side extractor connection Ø 127 mm
- right side extractor connection Ø 88 mm
- sanding belt width: 50 mm
- sanding belt length: 2500 mm
- speed: 3000 RPM
- power requirements: 400 V / 50 Hz / 3 Ph / 2,5 kW
- colour: RAL 7035 light grey
- weight net/gross: 170 / 285 kg

	Item-No.
	10M31

 Service parts available upon request!

Sanding Belt



- MA = machine

Dimensions / grit	for MA	Item-No.
2500 x 50 mm / G 60	10M31, 32	107P63/60
2500 x 50 mm / G 120	10M31, 32	107P63/120
2500 x 50 mm / G 180	10M31, 32	107P63/180
3000 x 50 mm / G 40	10M30	107P57/40
3000 x 50 mm / G 60	10M30	107P57/60
3000 x 50 mm / G 80	10M30	107P57/80
3000 x 50 mm / G 120	10M30	107P57/120
3000 x 50 mm / G 180	10M30	107P57/180



Table Band Saw

Features

- high precision and cutting performance
- smooth running by balanced band wheel with rubber coating
- blade speeds for various applications and materials
- easy conversion to belt sander
- door opens without tool, protection with safety end switch
- GS dust-proof
- with stand for optimum work height

Basic equipment

- quick saw blade replacement
- saw band tension indicator with scale
- precision three-roller guide with HSS-wheels
- parallel fence with long profile, clamped in the front and in the back
- 1 pc. universal saw blade

Electrical equipment

- 2 m power cord with grounded plug

Technical data

- dimensions W x D x H: 665 x 795 x 1600 mm
- cutting height: 165 mm
- cutting width: 305 mm
- table size: 548 x 400 mm
- table adjustment: -2° – 45°
- saw blade width: 6 – 20 mm
- saw blade length: 2240 mm
- saw blade speed: 370 / 800 m/min
- extractor connection: Ø 100 mm
- power requirements: 230 V / 50 Hz / 1 ph / 0,9 kW
- colour: grey/green
- weight: 70,5 kg net

	Item-No.
	130M5



Band Saw Model 600

- for cutting of metals, plastics and for all materials used in orthopaedic workshops

Features

- high precision and cutting performance
- two cutting speeds
- compact belt drive

Basic equipment

- 1 service tool set
- 1 saw blade for plastic and light metal
- two-coloured
- precision top and bottom roller guide
- top guide height adjustable by means of hand wheel
- saw blade tension indicator

Electrical equipment

- electronic motorbrake
- ON/OFF switch with brake release and lockable main switch
- motor protection switch (emergency stop)
- doors secured with limiting switch
- 2 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 1035 x 820 x 2085 mm
 - space requirements: 2000 x 1200 mm
 - table size: 620 x 600 mm
 - cutting height: 380 mm
 - cutting width: 580 mm
 - saw blade length (max. length): 4500 mm
 - wheel: Ø 600 mm
 - extractor connection: Ø 120 mm
- power requirements: 400 V / 50 Hz / 3 Ph / 1,5 kW / 2,2 kW
2-speed motor: 725 / 1450 RPM
colour: anthracite / RAL 7035 light grey
weight: 270 kg net

Item-No.

130M3



Band Saw

- for processing of wood, plastics and metal

Features

- two cutting speeds
- very quiet run
- high performance
- heavy duty, closed steel construction
- saw blade is lead by three wheels and is protected except for the cutting area, 2 doors allow easy access to the blade
- table can be turned up to 45° at the right side
- limit stop insertable to the left and right table side

Basic equipment

- 1 saw blade for wood
- 1 saw blade for plastic
- upper and lower special bearing wheels
- blade guide

Electrical equipment

- main- and motor protection switch as emergency switch
- 2 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 1060 x 635 x 2060 mm
 - table size: approx. 580 x 800 mm
 - cutting height: approx. 345 mm
 - cutting width: approx. 585 mm
 - saw blade length: 4400 mm
 - saw blade width: max. 35 mm
 - extractor connection: Ø 100 mm
 - 2-speed motor: 675 / 1350 RPM
 - power requirements: 380 V / 50 Hz / 3 Ph / 2,2 kW
- colour: anthracite / RAL 7035 light grey
weight: 310 kg

Special voltages

- 208 V / 60 Hz / 3 Ph+PE / 2,2 kW (130M7/3620)

Item-No.
130M7

Plastics- & Metal Processing Machines



picture similar

Special Band Saw Model „Universal Cutter“

- for cutting of metals, plastics and wood, as well as for all materials used in orthopaedic workshops

Features

- heavy duty, closed steel construction
- very quiet run
- high performance with fast cut
- continuously adjustable cutting speed for the individual adaptation of the respective kind of material and thickness
- precision jaw guides above and below the machine table for saw blades with 3 – 12 mm width
- iron casted table
- tilting (left 15°, right 45°)
- limit stop insertable to the left and right table side

Basic equipment

- 1 service tool set
- 1 saw blade for wood
- 1 saw blade for plastic and light metal
- 1 saw blade for stainless and ordinary steel
- speedometer for indication of saw blade speed
- air compressor to blow away metal chips
- lamp

Electrical equipment

- main- and motor protection switch
- 2 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 1250 x 1000 x 2100 mm
- space requirements: 2000 x 1200 mm
- table size: 615 x 615 mm
- cutting height under guidance: max. 450 mm
- cutting width: 405 mm
- continuous blade speed: 16 – 2200 m/min
- blade length: 3450 – max. 3640 mm
- blade width: min. 3 – max. 20 mm
- power requirements: 400 V / 50 Hz / 3 Ph / 3 kW
- colour: RAL 7035 light grey
- weight: 470 kg net

Item-No.

130M6

Saw Blade Welding Unit

Features

- for saw blades up to 15 mm width
- with shears and grinding wheel
- without electronic annealing device

Basic equipment

- built-in grinding motor
- 1,5 m power cord with CEE plug 5 x 16 A

Technical data

- power requirements: 400 V / 50 Hz / 2,0 kW
- weight: 24,5 kg net



Item-No.

130M8



picture similar

Precision Band Saw

- for wood, plastics and NE-metals

Features

- door opens without tool, protection with safety end switch
- viewing window for blade tension display
- two speeds, selection by means of V-belt adjustment
- quiet and precise operation due to warp-resistant machine body
- saw-table made of grey cast iron in one piece, with precisely ground and polished surface
- comfortable laser device for marking the cutting line
- quick-action saw band, tension adjustment by means of eccentric lever
- precise 3-roll saw band guide on top and bottom
- quick height adjustment by means of turning knob and toothed rod with millimeter scale
- aluminium parallel stop with eccentric quick clamp and magnifier
- mitre square stop, adjustable by 60° on both sides

Basic equipment

- 3 saw blades for soft and hard wood, plastics and NE-metals

Electrical equipment

- motor protection switch
- electronic motor brake
- 2 m power cord with CEE plug 5 x 16 A

Technical data

- work table dimensions W x D: 680 x 530 mm
- cutting speeds: 850 / 430 m/min.
- max. cutting height: 270 mm
- max. cutting width with stop: 474 mm
- max. cutting width without stop: 514 mm
- saw band length: 3865 mm
- saw table inclination: -10° to +45°
- motor power: 400 V / 50 Hz / 3 Ph / 2,25 kW
- dimensions W x D x H: 1024 x 800 x 2048 mm
- extractor connection: 2 x 100 mm
- weight: 163 kg

	Item-No.
	130M9/3540

Band Saw Blade



- for item 130M9
- band saw blade, for wood, plastics and NE-metals, tooth pitch 4 T", ready welded
- length: 3865 mm

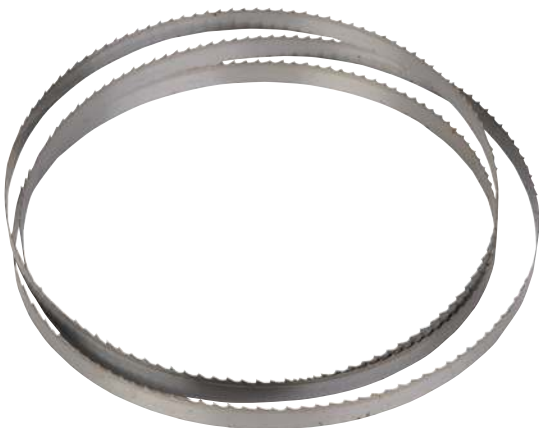
Width of band saw blade	Item-No.
10 mm	108P12/10
16 mm	108P12/16
20 mm	108P12/20
25 mm	108P12/25



Band Saw Blade

- for wood
- original Sweden Steel
- 0,65 mm (108P3) / 0,8 mm (108P4) thickness
- tooth pitch 4 Z/”, set teeth, sharpened and ready welded
- MA = machine, EM = external make

Length x Width	for MA	Item-No.
2240 x 16 mm	130M5	108P3/224
3300 x 16 mm	130M4	108P3/330
3380 x 16 mm	130M2	108P3/338
3550 x 16 mm	130M6	108P3/355
4080 x 16 mm	EM	108P3/408
4400 x 16 mm	130M7	108P3/440
4500 x 16 mm	130M3	108P3/450
4960 x 16 mm	EM	108P3/496
2900 x 20 mm	EM	108P4/290
3300 x 20 mm	130M4	108P4/330
3550 x 20 mm	130M6	108P4/355
4080 x 20 mm	EM	108P4/408
4500 x 20 mm	130M3	108P4/450
4760 x 20 mm	EM	108P4/476



Band Saw Blade

- for wood, supplied in coils, 4Z/”
- PU = 30 m per roll

Width	Item-No.
16 mm x 0,65 mm	108P3/E
20 mm x 0,80 mm	108P4/E

Plastics- & Metal Processing Machines



Band Saw Blade

- for stainless steel and other steel types, original Sweden Steel
- 0,65 mm thickness, tooth pitch 24 T/”, ready welded
- MA = machine, EM = external make

Length x Width	for MA	Item-No.
2240 x 6 mm	130M5	108P2/224
2900 x 6 mm	EM	108P2/290
3300 x 6 mm	130M4	108P2/330
3380 x 6 mm	130M2	108P2/338
3550 x 6 mm	130M6	108P2/355
3800 x 6 mm	EM	108P2/380
4080 x 6 mm	EM	108P2/408
4400 x 6 mm	130M7	108P2/440
4500 x 6 mm	130M3	108P2/450
4760 x 6 mm	EM	108P2/476



Band Saw Blade

- for stainless steel and other steel types, supplied in coils
- PU = 30 m per roll

Width	Item-No.
6 mm x 0,65 mm	108P2/E



Band Saw Blade

- for plastics and light metals, original Sweden Steel
- 0,65 mm thickness, tooth pitch 10 T/”, ready welded
- MA = machine, EM = external make

Length x Width	for MA	Item-No.
2240 x 8 mm	130M5	108P1/224
3150 x 6 mm	EM	108P1/315
3300 x 8 mm	130M4	108P1/330
3380 x 8 mm	130M2	108P1/338
3550 x 8 mm	130M6	108P1/355
4080 x 8 mm	EM	108P1/408
4400 x 8 mm	130M7	108P1/440
4500 x 8 mm	130M3	108P1/450
4760 x 8 mm	EM	108P1/476
4960 x 8 mm	EM	108P1/496


Plastics- & Metal Processing Machines



Band Saw Blade

- for plastics and light metals, supplied in coils
- PU = 30 m per roll

Width	Item-No.
8 mm x 0,65 mm	108P1/E

 Ready welded saw blades or saw blades in coils, are also available in other sizes and tooth pitches, upon request!



Bench Drill

Features

- speed control infinitely variable
- usable table space W x D: 300 x 250 mm
- height adjustable table with cograil
- quickly adjustable drill depth stop
- speed- and drill depth indication: digital scale
- thread cutting capacity max. M10
- motor protection switch with undervoltage release
- emergency switch
- without drill chuck
- LED lit control panel
- 1,2 m power cord with grounded plug

Technical data

- dimensions W x D x H: 390 x 450 x 860 mm
- spindle: B16 DIN 238
- continuous-/normal drilling capacity: 13/15 mm
- working radius: 225 mm
- drilling depth: 60 mm
- column: Ø 60 mm
- distance spindle to table: 0 – 300 mm (top), 0 – 360 mm (base)
- spindle speed: 40 – 4000 1/min stepless
- power requirements: 230 V / 50 Hz / 1 Ph / 0,54 kW
- colour: top RAL 7005 grey, base RAL 9005
- weight: 62 kg

Item-No.
100M9
100M9

Bench Drill Press



Features

- speed control infinitely variable in two stages
- usable table space W x D: 300 x 240 mm
- height adjustable table with cograil
- quickly adjustable drill depth stop
- drill depth indication with scale
- reversing switch for right/left-hand drill action
- motor protection switch with undervoltage release
- emergency switch
- without drill chuck
- without morse taper
- 1,2 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 280 x 655 x 860 mm
- spindle: MK II
- continuous-/normal drilling capacity: 15/18 mm
- thread cutting capacity: max. M10
- working radius: 200 mm
- drilling depth: 95 mm
- column: Ø 70 mm
- distance spindle to table: 0 – 350 mm
- spindle speed infinitely variable: first stage 100 – 1200 RPM, second stage 350 – 4200 RPM
- power requirements: 400 V / 50 Hz / 3 Ph / 0,45 kW / 0,75 kW
- colour: RAL 7036 platinum-grey
- weight: 75 kg net

Item-No.
100M2

Bench Drill Press



Features

- 5 different spindle speeds
- usable table space W x D: 240 x 290 mm
- height adjustable table with cograil
- quickly adjustable drill depth stop
- drill depth indication with scale
- reversing switch for right/left-hand drill action
- motor protection switch with undervoltage release
- emergency switch
- without drill chuck
- 1,5 m power cord with CEE plug, 5 x 16 A

Technical data

- dimensions W x D x H: 280 x 655 x 860 mm
- spindle: B16
- continuous-/normal drilling capacity: 15/18 mm
- working radius: 200 mm
- drilling depth: 95 mm
- column: Ø 70 mm
- distance spindle to table: 0 – 330 mm
- 5 spindle speeds: 400 – 700 – 1200 – 2100 – 3600 RPM
- power requirements: 400 V / 50 Hz / 3 Ph / 0,45 kW / 0,75 kW
- colour: RAL 7036 platinum-grey
- weight: 77 kg net

Item-No.
100M3



Pillar Drill Press

Features

- speed control infinitely variable
- height adjustable table with cograil
- quickly adjustable drill depth stop
- digital speed and drill depth display
- taper
- EMERGENCY OFF palm button
- top unit with LED light
- without drill chuck
- without morse taper
- motor protection switch with low voltage release
- 1,5 m power cord with grounded plug

Technical data

- dimensions W x D x H: 355 x 705 x 1825 mm
- spindle: MK II
- usable table space: 340 x 280 mm
- continuous-/normal drilling capacity: 18/20 mm
- thread cutting capacity: max. M10
- working radius: 240 mm
- drilling depth: 100 mm
- column: Ø 82 mm
- distance spindle to table: 160 – 880 mm
- power requirements: 230 V / 50 Hz / 1 Ph / 0,75 kW
- colour: RAL 7005 mouse grey
- weight: 151 kg

Item-No.
100M4

Pillar Drill Press



Features

- speed control infinitely variable
- usable table space W x L 340 x 280 mm
- height adjustable with cograil
- adjustable drill depth stop with limiting ring
- drill depth indication with scale
- reversing switch for right/left-hand drill action
- motor protection switch with undervoltage release
- emergency switch
- without drill chuck
- without morse taper
- 1,5 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 300 x 745 x 1850 mm
- spindle: MK II
- continuous-/normal drilling capacity: 18/23 mm
- working radius: 240 mm
- drilling depth: 100 mm
- column: Ø 82 mm
- distance spindle to table: 160 – 880 mm
- spindle speed infinitely variable: 250 – 4000 RPM
- power requirements: 400 V / 50 Hz / 3 Ph / 0,45 kW / 0,80 kW
- colour: RAL 7036 platinum-grey
- weight: 205 kg net

Special voltages

- 208 V / 60 Hz / 3 Ph+PE / 0,45 kW / 0,80 kW (100M6/3620)

Item-No.
100M6

Pillar Drill Press



Features

- speed control infinitely variable
- usable table space W x D: 420 x 340 mm
- height adjustable with cograil
- adjustable drill depth stop with limiting ring and fine adjustment
- drill depth indicator with „mm“ calibration
- reversing switch for right/left-hand drill action
- motor protection switch with undervoltage release
- emergency switch
- without drill chuck
- without morse taper
- 1,5 m power cord with CEE plug 5 x 16 A

Technical data

- dimensions W x D x H: 420 x 830 x 1900 mm
- spindle: MK III
- continuous-/normal drilling capacity: 25/30 mm
- thread cutting capacity: max. M20
- working radius: 260 mm
- drilling depth: 125 mm
- column: Ø 110 mm
- distance spindle to table: 240 – 790 mm
- spindle speed with transmission, step changes by turning over the drive belt infinitely variable: 125 – 4000 RPM
- step I: 125 – 2000 RPM
- step II: 250 – 4000 RPM
- power requirements: 400 V / 50 Hz / 3 Ph / 0,9 kW / 1,45 kW
- colour: RAL 7036 platinum-grey
- weight: 275 kg net

Item-No.
100M7

Quick Action Drill Chuck



- without morse taper
- suitable for item 100M2, 100M3, 100M4, 100M6, 100M8, 100M9

Technical data

- span range: 1 – 13 mm
- receiver: B16

Item-No.
101M1/113

Quick Action Drill Chuck



- without morse taper, suitable for item 100M7

Technical data

- span range: 3 – 16 mm
- receiver: B18

Item-No.
101M1/316

Plastics- & Metal Processing Machines



Morse Taper

- suitable for item 100M2, 100M4, 100M6, 100M8

Technical data

- spindle: MK II
- receiver: B16

	Item-No.
	101M3



Morse Taper

- suitable for item 100M7

Technical data

- spindle: MK III
- receiver: B18

	Item-No.
	101M4



Drilling Arm

- suitable for all drill presses

Technical data

- length: 400 mm
- weight: 2 kg net

	Item-No.
	101M5



Machine Jaw Vise

- suitable for bench and floor type drill presses with prismatic jaws
- dimensions = jaw width x span width

Dimensions	Weight	Item-No.
100 x 110 mm	3,3 kg net	101P14/100
120 x 110 mm	4,75 kg net	101P14/120



Electric Welding Machine

Features


- 3,5 m welding cable (25 mm²) with electrode holder
- 2,5 m earth cable with pole clamp
- 25 welding rods: 2,5 x 350 mm
- 25 welding rods: 3,5 x 350 mm
- chipping hammer
- 2-line wire brush
- welding gloves
- welding shield incl. glasses
- power cord with grounded plug

Technical data

- dimensions W x D x H: 140 x 330 x 230 mm
- main fuse: 16 A
- welding current range: 160 A
- capacity: 3,6 kW
- electrode size: 1,5 – 3,5 mm
- power requirements: 230 V / 50 – 60 Hz / 1 Ph
- weight: 5,8 kg net

Item-No.

83M5

 The machine is equipped with a rectifier welding set, protection according to IP23.



Welding and Cutting Torch Set

- for oxy-acetylene welding

Features

- metal carry case
- torch handle
- 5 welding nozzels
- nozzle cleaning needle
- spring lever torch with heating- and cutting nozzles
- torch spanner

Technical data

- welding range: 0,5 – 9 mm
- cutting range: 3 – 100 mm
- weight: 1,9 kg net

Item-No.

83M7

Mobile Gas and Brazing Welding Unit



Features

- 1 oxygen steel bottle 10 liters
- 1 acetylene steel bottle 10 liters
- 1 bottle trolley
- each bottle with 2 manometer gauges with 1 pressure regulator
- 1 thermic flashback valve for oxygen
- 1 thermic flashback valve for acetylene
- 7 m hose, assembled
- 1 set protective glasses
- 1 handle 17 mm
- 5 welding nozzles in different sizes
- 1 spring lever torch, Ø 17 mm
- 1 heating nozzle 3 – 100 mm
- 2 cutting nozzles 3 – 25 mm
- 1 gas lighter
- 1 torch spanner
- 1 set of nozzle cleaning needles

Technical data

- weight: 44 kg net

Item-No.

83M6

Pillar Drill Press



Features

- speed control infinitely variable
- height adjustable table with cograil
- quickly adjustable drill depth stop
- digital speed and drill depth display
- taper
- EMERGENCY OFF palm button
- top unit with LED light
- without drill chuck
- without morse taper
- motor protection switch with low voltage release
- 1,5 m power cord with grounded plug

Technical data

- dimensions W x D x H: 550 x 750 x 1800 mm
- Spindel: MK II
- usable table space W x D: 420 x 340 mm
- continuous / normal drilling capacity: 23/25 mm
- thread cutting capacity: max. M16
- working radius: 260 mm
- drilling depth: 100 mm
- column: Ø 110 mm
- distance spindle to table: 230 – 850 mm
- spindle speed infinitely variable: 20 – 2000 1/min
- power requirements: 400 V / 50 Hz / 3 Ph / 1,5 kW
- colour: RAL 7036 platin grey
- weight: 275 kg
- special voltage 208 V / 60 Hz / 3 Ph+PE / 1,5 kW (100M8/3620)

Item-No.

100M8/3540

83M8



Silver Solder

- for soldering of stainless steel, cadium-free, 45 % silver
- melting temperature approx. 450 °C



Diameter	Length	Item-No.
1,5 mm	500 mm	83M13

Welding Electrode

- for welding of stainless steel



Diameter	Length	Item-No.
2 mm	300 mm	83M16



Other sizes are available upon request.



Flux

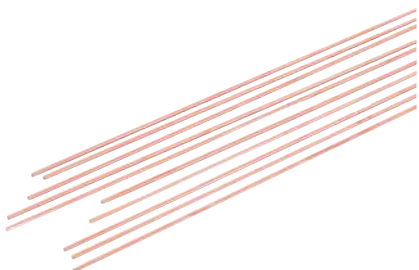
- for silver solder
- effective temperature range: 500 – 800 °C



Weight	Item-No.
100 g	83M14/1
500 g	83M14/5

Welding Rod

- for autogenous welding, length 1000 mm



Diameter	Item-No.
2 mm	83M15/2
3 mm	83M15/3
4 mm	83M15/4

Plastics- & Metal Processing Machines



Welding Table

- angle-iron frame with 1 slag receiver tray
- grate one half made of fireclay brick, other half made of round steel bars, with burner support and welding rod quiver

Technical data

- dimensions W x D x H: 1010 x 755 x 800 mm
- weight: 76 kg net

Item-No.
83M9



Welding Shield

- incl. exchangeable glasses, with handle (protection class DIN 9 A)

Item-No.
12P55



Replacement Glass

- for welding shield 12P55

Glass type	Item-No.
Supplementary glass clear	12P56
DIN 9A Athermal glass	12P57

Welding Apron



- chrome leather, adjustable belt
- PU = 1 piece

Size	Colour	Item-No.
800 x 1000 mm	grey-white	12P50

Chipping Hammer



- with handle, to remove welding slag

Weight	Item-No.
350 g	170P9

Anvil



- made of hardened quality steel (85M100) resp. drop-forged (85M1/20 and 85M1/30)
- dimensions = total length x width x table length

Dimensions	Weight	Height	Item-No.
350 x 60 x 230 mm	20 kg	172 mm	85M1/20
430 x 72 x 280 mm	30 kg	200 mm	85M1/30
650 x 130 x 420 mm	100 kg	290 mm	85M1/100

Anvil



- rop-forged with two anvil beaks
- dimensions = total length x width x table length

Dimensions	Weight	Height	Item-No.
390 x 80 x 170 mm	20 kg	155 mm	85M2/20
475 x 95 x 205 mm	35 kg	200 mm	85M2/35
635 x 125 x 265 mm	75 kg	265 mm	85M2/75
720 x 130 x 300 mm	125 kg	310 mm	85M2/125



Anvil Base

- suitable for all sizes
- dimensions W x D x H: 460 x 380 x 550 mm

Weight	Item-No.
46 kg net	85M5



Suction Ventilator

- for aspiration of welding fumes, simple mount, also suitable for outdoor application

Technical data

- suction capacity: 2000 m³/h
- connection- and exhaust fitting: Ø 150 mm
- vacuum: max. 1950 Pa
- power requirements: 400 V / 50 Hz / 3 Ph / 0,75 kW
- weight: 14 kg net

Item-No.
83M20



Ball Joint Suction Arm

- for welding fumes, for combined use with 83M20 or separate use on work benches or machines

Features

- work range 2,5 m
- ceiling- or wall-mount is possible
- locking-flange Ø 150 mm
- suction hood and hose

Technical data

- weight: 12 kg net

Item-No.
83M23

Plastics- & Metal Processing Machines

Hand Lever Shear



- with one sheet metal and one steel rod shear knife
- dimensions = knife length x shear capacity (sheet metal) x shear capacity (steel rod)

Dimensions	Lever length	Item-No.
120 x 4 x 10 mm	850 mm	75M10/4
150 x 5 x 11 mm / 12,5	1000 mm	75M10/5
180 x 6 x 13 mm / 24,5	1150 mm	75M10/6

Shear Knife



- for item 75M10, upper- and lower knife

Size	Item-No.
4	75M12/4
5	75M12/5
6	75M12/6

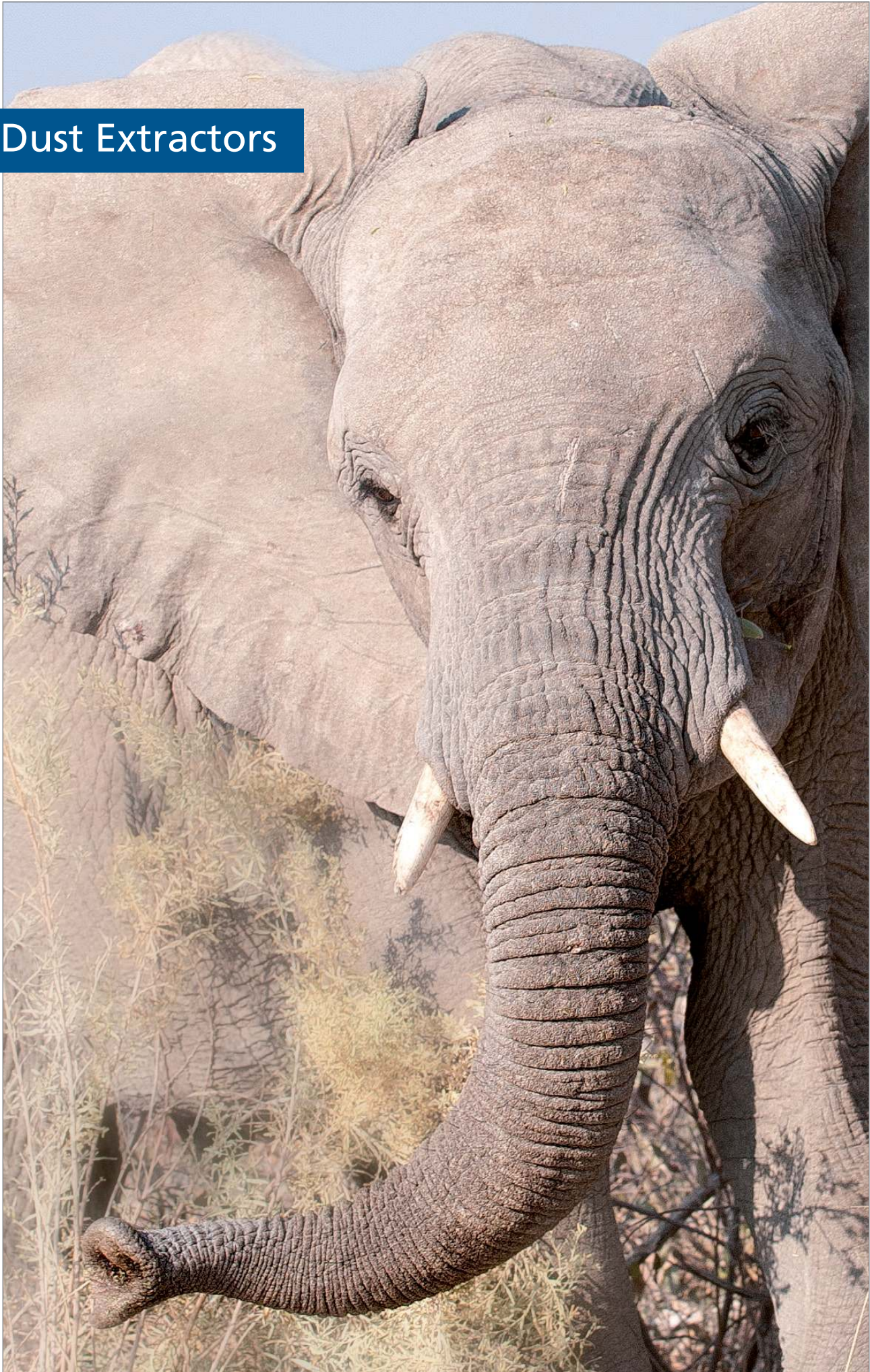
Mobile Stand



- for item 75M10

Height	Weight	Item-No.
670 mm	45 kg net	75M11

Dust Extractors



Dust Extractors

According to legal directives, chippings and particulate pollution carry health risks and must be extracted from the room air. For this process, dust extraction devices are necessary, which must be defined according to your needs and purposes. In our catalogue, you will find numerous powerful dust extraction devices as well as matching accessories. Whether you operate one, five or even more machines at the same time – there is a solution for each of your demands. We would like to mention that even our strongest suction devices (type series 250 or 300) work at a low noise level of max. 76 dB(A) and therefore considerably contribute to a healthy working environment.



Our low-noise dust extractors are equipped with latest filter technology, in order to not only maintain but to clearly stay below the national health insurer's reference values of maximum allowable dust content of 0,2 milligrams per cubic metre of air. Our long-term experience in planning and mounting room-air dependent and independent central suction devices for all workshop sizes makes us a reliable partner for your project. We will be pleased to support you to find the dust extraction system best suitable for your purposes.





Clean Air Dust Extractor POWER UNIT 100

manual filter cleaning

Characteristics

- compact, mobile clean-air dust extractor for extracting wood- and plastic chips
- depending on load (utilisation factor), the residues of several machines can be extracted
- long filter service life
- optimal pre-filtration in the intake area
- powerful, efficient extraction
- simple operation, low maintenance
- BG inspected
- residual dust content: H3 (< 0,1 mg/m³)

Equipment

- ON / OFF switch for clean-air dust extractor
- hand lever for filter cleaning
- high performance bag filter
- differential pressure gauge
- 1 chip collector incl. chip collection bag
- 5 m power cord with grounded plug

Technical data

- dimensions W x D x H: 1178 x 650 x 1973 mm
- extraction connector: Ø 100 mm
- nominal air flow capacity at connector at 20 m/s: 565 m³/h
- max. volume air flow: 790 m³/h
- negative pressure at connector: 2033 Pa
- max. sound pressure level: approx. 75 dB(A)
- filter surface: 4,1 m²
- filter material: dust class M, electrical conductive, washable
- chip collection volume: 135 litres
- power requirements: 230 V / 50 Hz / 1 Ph / 1,1 kW
- weight: 114 kg

Optional accessories

- chip collection bags for POWER UNIT 100/120 item-no. 20M550/1
- automatic starter item-no. 20M540
- extraction hose item-no. 150M1/100

	Item-No.
	20M100/230



Special voltages upon request.



Clean Air Dust Extractor POWER UNIT 100

manual filter cleaning

Characteristics

- compact, mobile clean-air dust extractor for extracting wood- and plastic chips
- depending on load (utilisation factor), the residues of several machines can be extracted
- long filter service life
- optimal pre-filtration in the intake area
- powerful, efficient extraction
- simple operation, low maintenance
- BG inspected
- residual dust content: H3 (< 0,1 mg/m³)

Equipment

- ON / OFF switch for clean-air dust extractor
- hand lever for filter cleaning
- high performance bag filter
- differential pressure gauge
- 1 chip collector incl. chip collection bag
- 5 m power cord with CEE plug
- 5-pin plug, 16 A with phase changer

Technical data

- dimensions W x D x H: 1178 x 650 x 1973 mm
- extraction connector: Ø 100 mm
- nominal air flow capacity at connector at 20 m/s: 565 m³/h
- max. volume air flow: 790 m³/h
- negative pressure at connector: 2122 Pa
- max. sound pressure level: approx. 75 dB(A)
- filter surface: 4,1 m²
- filter material: dust class M, electrical conductive, washable
- chip collection volume: 135 litres
- power requirements: 400 V / 50 Hz / 3 Ph / 1,5 kW
- weight: 114 kg

Optional accessories

- chip collection bags for POWER UNIT 100/120 item-no. 20M550/1
- automatic starter item-no. 20M540
- extraction hose item-no. 150M1/100

Item-No.
20M100/400

Clean Air Dust Extractor POWER UNIT 120

manual filter cleaning



Characteristics

- compact, mobile clean-air dust extractor for extracting wood- and plastic chips
- depending on load (utilisation factor), the residues of several machines can be extracted
- long filter service life
- optimal pre-filtration in the intake area
- powerful, efficient extraction
- simple operation, low maintenance
- BG inspected
- residual dust content: H3 (< 0,1 mg/m³)

Equipment

- ON / OFF switch for clean-air dust extractor
- hand lever for filter cleaning
- high performance bag filter
- differential pressure gauge
- 1 chip collector incl. chip collection bag
- 5 m power cord with CEE plug
- 5-pin plug, 16 A with phase changer

Technical data

- dimensions W x D x H: 1178 x 650 x 1973 mm
- extraction connector: Ø 120 mm
- nominal air flow capacity at connector at 20 m/s: 814 m³/h
- max. volume air flow: 1140 m³/h
- negative pressure at connector: 2180 Pa
- max. sound pressure level: approx. 75 dB(A)
- filter surface: 5,1 m²
- filter material: dust class M, electrical conductive, washable
- chip collection volume: 135 litres
- power requirements: 400 V / 50 Hz / 3 Ph / 1,5 kW
- weight: 117 kg

Optional accessories

- chip collection bags for POWER UNIT 100/120 item-no. 20M550/1
- automatic starter item-no. 20M540
- extraction hose item-no. 150M1/120

	Item-No.
	20M120/H

 Special voltages upon request.



Clean Air Dust Extractor POWER UNIT 120

with automatic filter cleaning system and machine recognition

Characteristics

- compact, mobile clean-air dust extractor for extracting wood- and plastic chips
- depending on load (utilisation factor), the residues of several machines can be extracted
- long filter service life
- optimal pre-filtration in the intake area
- powerful, efficient extraction
- simple operation, low maintenance
- BG inspected
- residual dust content: H3 (< 0,1 mg/m³)

Equipment

- ON / OFF switch for clean-air dust extractor
- switch for manual filter cleaning
- high performance bag filter
- volume flow monitoring with signal lamp
- 1 chip collector incl. chip collection bag
- 5 m power cord with CEE plug
- 5-pin plug, 16 A with phase changer

Technical data

- dimensions W x D x H: 1178 x 650 x 1973 mm
- extraction connector: Ø 120 mm
- nominal air flow capacity at connector at 20 m/s: 814 m³/h
- max. volume air flow: 1140 m³/h
- negative pressure at connector: 2180 Pa
- max. sound pressure level: approx. 75 dB(A)
- filter surface: 5,1 m²
- filter material: dust class M, electrical conductive, washable
- chip collection volume: 135 litres
- power requirements: 400 V / 50 Hz / 3 Ph / 1,5 kW
- weight: 121 kg

Optional accessories

- chip collection bags for POWER UNIT 100/120 item-no. 20M550/1
- automatic starter item-no. 20M540
- extraction hose item-no. 150M1/120

	Item-No.
	20M120/M



Clean Air Dust Extractor POWER UNIT 140

with automatic compressed air filter cleaning system

Characteristics

- compact, mobile clean-air dust extractor for extracting wood- and plastic chips
- depending on load (utilisation factor), the residues of several machines can be extracted
- optional machine recognition and automatic start of up to 16 processing machines
- optimal extraction by surface filtration and integrated pre-filtration
- fully automatic compressed air filter cleaning with patented OPTIJET technology
- powerful, efficient extraction
- simple operation, low maintenance
- BG inspected
- residual dust content: H3 (< 0,1 mg/m³)

Equipment

- ON / OFF switch for clean-air dust extractor
- inner hose filters
- control unit optionally upgradeable
- ventilator located at clean-air side
- volume flow monitoring with signal lamp
- switch for manual filter cleaning
- 1 chip collector incl. chip collection bag
- 5 m power cord with CEE plug
- 5-pin plug, 16 A with phase changer

Technical data

- dimensions W x D x H: 1684 x 830 x 2050 mm
- extraction connector: Ø 140 mm
- nominal air flow capacity at connector at 20 m/s: 1108 m³/h
- max. volume air flow: 1600 m³/h
- negative pressure at connector: 2591 Pa
- max. sound pressure level: approx. 71,6 dB(A)
- filter surface: 6,3 m²
- filter material: dust class M, electrical conductive, washable
- chip collection volume: 241 litres
- compressed air connection: 1/2" standard plug
- power requirements: 400 V / 50 Hz / 3 Ph / 2,2 kW
- weight: 330 kg

Optional accessories

- chip collection bags for POWER UNIT 140/160/200 item-no. 20M550/2
- debris level indicator for POWER UNIT item-no. 20M530
- machine recognition with push control 24 V item-no. 20M500
- frequency converter for demand control item-no. 20M520/1
- extraction hose item-no. 150M1/140

Item-No.
20M140/P



Special voltages upon request.



Clean Air Dust Extractor POWER UNIT 140

manual filter cleaning

Characteristics

- compact, mobile clean-air dust extractor for extracting wood- and plastic chips
- depending on load (utilisation factor), the residues of several machines can be extracted
- optional machine recognition and automatic start of up to 16 processing machines
- optimal extraction by surface filtration and integrated pre-filtration
- powerful, efficient extraction
- simple operation, low maintenance
- BG inspected
- residual dust content: H3 (< 0,1 mg/m³)

Equipment

- ON / OFF switch for clean-air dust extractor
- inner hose filters
- control unit optionally upgradeable
- ventilator located at clean-air side
- handle for filter cleaning
- volume flow monitoring with signal lamp
- 1 chip collector incl. chip collection bag
- 5 m power cord with CEE plug
- 5-pin plug, 16 A with phase changer

Technical data

- dimensions W x D x H: 1684 x 830 x 2050 mm
- extraction connector: Ø 140 mm
- nominal air flow capacity at connector at 20 m/s: 1108 m³/h
- max. volume air flow: 1600 m³/h
- negative pressure at connector: 2591 Pa
- max. sound pressure level: approx. 71,6 dB(A)
- filter surface: 6,3 m²
- filter material: dust class M, electrical conductive, washable
- chip collection volume: 241 litres
- power requirements: 400 V / 50 Hz / 3 Ph / 2,2 kW
- weight: 320 kg

Optional accessories

- chip collection bags for POWER UNIT 140/160/200 item-no. 20M550/2
- debris level indicator for POWER UNIT item-no. 20M530
- machine recognition with push control 24 V item-no. 20M500
- frequency converter for demand control item-no. 20M520/1
- extraction hose item-no. 150M1/140

	Item-No.
	20M140/H

 Special voltages upon request.



Clean Air Dust Extractor POWER UNIT 160

with automatic compressed air filter cleaning system

Characteristics

- compact, mobile clean-air dust extractor for extracting wood- and plastic chips
- depending on load (utilisation factor), the residues of several machines can be extracted
- optional machine recognition and automatic start of up to 16 processing machines
- optimal extraction by surface filtration and integrated pre-filtration
- fully automatic compressed air filter cleaning with patented OPTIJET technology
- powerful, efficient extraction
- simple operation, low maintenance
- BG inspected
- residual dust content: H3 (< 0,1 mg/m³)

Equipment

- ON / OFF switch for clean-air dust extractor
- inner hose filters
- control unit optionally upgradeable
- ventilator located at clean-air side
- volume flow monitoring with signal lamp
- switch for manual filter cleaning
- 1 chip collector incl. chip collection bag
- 5 m power cord with CEE plug
- 5-pin plug, 16 A with phase changer

Technical data

- dimensions W x D x H: 1684 x 830 x 2050 mm
- extraction connector: Ø 160 mm
- nominal air flow capacity at connector at 20m/s: 1448 m³/h
- max. volume air flow: 2000 m³/h
- negative pressure at connector: 2503 Pa
- max. sound pressure level: approx. 70,8 dB(A)
- filter surface: 9,1 m²
- filter material: dust class M, electrical conductive, washable
- chip collection volume: 241 litres
- compressed air connection: 1/2" standard plug
- power requirements: 400 V / 50 Hz / 3 Ph / 2,2 kW
- weight: 340 kg

Optional accessories

- chip collection bags for POWER UNIT 140/160/200 item-no. 20M550/2
- debris level indicator for POWER UNIT item-no. 20M530
- machine recognition with push control 24 V item-no. 20M500
- frequency converter for demand control item-no. 20M520/1
- extraction hose item-no. 150M1/160

Item-No.
20M160/P



Special voltages upon request.



Clean Air Dust Extractor POWER UNIT 160

with automatic compressed air filter cleaning system,
with integrated compressor

Characteristics

- compact, mobile clean-air dust extractor for extracting wood- and plastic chips
- depending on load (utilisation factor), the residues of several machines can be extracted
- optional machine recognition and automatic start of up to 16 processing machines
- optimal extraction by surface filtration and integrated pre-filtration
- fully automatic compressed air filter cleaning with patented OPTIJET technology
- integrated compressor
- powerful, efficient extraction
- simple operation, low maintenance
- BG inspected
- residual dust content: H3 (< 0,1 mg/m³)

Equipment

- ON / OFF switch for clean-air dust extractor
- inner hose filters
- control unit optionally upgradeable
- ventilator located at clean-air side
- volume flow monitoring with signal lamp
- switch for manual filter cleaning
- 1 chip collector incl. chip collection bag
- integrated compressor 230V / 50 Hz / 1,1 kW / 7 A
- 5 m power cord with CEE plug
- 5-pin plug, 16 A with phase changer

Technical data

- dimensions W x D x H: 1684 x 830 x 2050 mm
- extraction connector: Ø 160 mm
- nominal air flow capacity at connector at 20m/s: 1448 m³/h
- max. volume air flow: 2000 m³/h
- negative pressure at connector: 2503 Pa
- max. sound pressure level: approx. 70,8 dB(A)
- filter surface: 9,1 m²
- filter material: dust class M, electrical conductive, washable
- chip collection volume: 241 litres
- power requirements: 400 V / 50 Hz / 3 Ph / 2,2 kW
- weight: 350 kg

Optional accessories

- chip collection bags for POWER UNIT 140/160/200 item-no. 20M550/2
- debris level indicator for POWER UNIT item-no. 20M530
- machine recognition with push control 24 V item-no. 20M500
- frequency converter for demand control item-no. 20M520/1
- extraction hose item-no. 150M1/160

Item-No.
20M160/K



Clean Air Dust Extractor POWER UNIT 160

manual filter cleaning

Characteristics

- compact, mobile clean-air dust extractor for extracting wood- and plastic chips
- depending on load (utilisation factor), the residues of several machines can be extracted
- optional machine recognition and automatic start of up to 16 processing machines
- optimal extraction by surface filtration and integrated pre-filtration
- powerful, efficient extraction
- simple operation, low maintenance
- BG inspected
- residual dust content: H3 (< 0,1 mg/m³)

Equipment

- ON / OFF switch for clean-air dust extractor
- inner hose filters
- control unit optionally upgradeable
- ventilator located at clean-air side
- handle for filter cleaning
- volume flow monitoring with signal lamp
- 1 chip collector incl. chip collection bag
- 5 m power cord with CEE plug
- 5-pin plug, 16 A with phase changer

Technical data

- dimensions W x D x H: 1684 x 830 x 2050 mm
- extraction connector: Ø 160 mm
- nominal air flow capacity at connector at 20m/s: 1448 m³/h
- max. volume air flow: 2000 m³/h
- negative pressure at connector: 2503 Pa
- max. sound pressure level: approx. 70,8 dB(A)
- filter surface: 9,1 m²
- filter material: dust class M, electrical conductive, washable
- chip collection volume: 241 litres
- power requirements: 400 V / 50 Hz / 3 Ph / 2,2 kW
- weight: 330 kg

Optional accessories

- chip collection bags for POWER UNIT 140/160/200 item-no. 20M550/2
- debris level indicator for POWER UNIT item-no. 20M530
- machine recognition with push control 24 V item-no. 20M500
- frequency converter for demand control item-no. 20M520/1
- extraction hose item-no. 150M1/160

	Item-No.
	20M160/H



Special voltages upon request.

Dust Extractors



Clean Air Dust Extractor POWER UNIT 200

with automatic compressed air filter cleaning system

Characteristics

- compact, mobile clean-air dust extractor for extracting wood- and plastic chips
- depending on load (utilisation factor), the residues of several machines can be extracted
- optional machine recognition and automatic start of up to 16 processing machines
- optimal extraction by surface filtration and integrated pre-filtration
- fully automatic compressed air filter cleaning with patented OPTIJET technology
- powerful, efficient extraction
- simple operation, low maintenance
- BG inspected
- residual dust content: H3 (< 0,1 mg/m³)

Equipment

- ON / OFF switch for clean-air dust extractor
- inner hose filters
- control unit optionally upgradeable
- ventilator located at clean-air side
- volume flow monitoring with signal lamp
- switch for manual filter cleaning
- 2 chip collectors incl. chip collection bags
- 5 m power cord with CEE plug
- 5-pin plug, 16 A with phase changer

Technical data

- dimensions W x D x H: 2268 x 830 x 2050 mm
- extraction connector: Ø 200 mm
- nominal air flow capacity at connector at 20 m/s: 2262 m³/h
- max. volume air flow: 3010 m³/h
- negative pressure at connector: 2174 Pa
- max. sound pressure level: approx. 71,1 dB(A)
- filter surface: 13,8 m²
- filter material: dust class M, electrical conductive, washable
- chip collection volume: 2 x 241 litres
- compressed air connection: 1/2" standard plug
- power requirements: 400 V / 50 Hz / 3 Ph / 2,9 kW
- weight: 460 kg

Optional accessories

- chip collection bags for POWER UNIT 140/160/200 item-no. 20M550/2
- debris level indicator for POWER UNIT item-no. 20M530
- machine recognition with push control 24 V item-no. 20M500
- frequency converter for demand control item-no. 20M520/2
- extraction hose item-no. 150M1/200

	Item-No.
	20M200



Special voltages upon request.



Clean Air Dust Extractor POWER UNIT 250

with automatic compressed air filter cleaning system

Features

- compact, mobile clean-air dust extractor for extracting wood- and plastic chips
- depending on load (utilisation factor), the residues of several machines can be extracted
- optional machine recognition and automatic start of up to 16 processing machines
- optimal extraction by surface filtration and integrated pre-filtration
- fully automatic compressed air filter cleaning with patented OPTIJET technology
- powerful, efficient extraction
- simple operation, low maintenance
- approved by employer's liability insurance association
- residual dust content: H3 (< 0,1 mg/m³)

Equipment

- ON / OFF switch for clean-air dust extractor
- inner hose filters
- control unit optionally upgradeable
- ventilator located at clean-air side
- volume flow monitoring with signal lamp
- switch for manual filter cleaning
- 2 chip collectors incl. chip collection bags
- 5 m power cord with CEE plug
- 5-pin plug, 32 A with phase changer

Technical data

- dimensions W x D x H: 2305 x 1058 x 2351 mm
- extraction connector: Ø 250 mm
- nominal air flow capacity at connector at 20 m/s: 3534 m³/h
- max. volume air flow: 4900 m³/h
- negative pressure at connector: 2451 Pa
- max. sound pressure level: 71,9 dB(A)
- filter surface: 22,4 m²
- filter material: dust class M, electrical conductive, washable
- chip collection volume: 2 x 250 litres
- compressed air connection: 1/2" standard plug
- power requirements: 400 V / 50 Hz / 3 Ph / 6,5 kW
- weight: 758 kg

Optional accessories

- chip collection bags for POWER UNIT 250/300 item-no. 20M550/3
- debris level indicator for POWER UNIT item-no. 20M530
- machine recognition with push control 24 V item-no. 20M500
- frequency converter for demand control item-no. 20M520/3
- extraction hose item-no. 150M1/250

Special voltages

- 220 V / 60 Hz / 3 Ph+PE / 6,5 kW (20M250/3622)

	Item-No.
	20M250



Special voltages upon request.



Clean Air Dust Extractor POWER UNIT 300

with automatic compressed air filter cleaning system

Characteristics

- compact, mobile clean-air dust extractor for extracting wood- and plastic chips
- depending on load (utilisation factor), the residues of several machines can be extracted
- optional machine recognition and automatic start of up to 16 processing machines
- optimal extraction by surface filtration and integrated pre-filtration
- fully automatic compressed air filter cleaning with patented OPTIJET technology
- powerful, efficient extraction
- simple operation, low maintenance
- BG inspected
- residual dust content: H3 (< 0,1 mg/m³)

Equipment

- ON / OFF switch for clean-air dust extractor
- inner hose filters
- control unit optionally upgradeable
- ventilator located at clean-air side
- volume flow monitoring with signal lamp
- switch for manual filter cleaning
- 2 chip collectors incl. chip collection bags
- 5 m power cord with CEE plug
- 5-pin plug, 32 A with phase changer

Technical data

- dimensions W x D x H: 2963 x 994 x 2346 mm
- extraction connector: Ø 300 mm
- nominal air flow capacity at connector at 20 m/s: 5089 m³/h
- max. volume air flow: 6000 m³/h
- negative pressure at connector: 2045 Pa
- max. sound pressure level: 72,5 dB(A)
- filter surface: 30 m²
- filter material: dust class M, electrical conductive, washable
- chip collection volume: 3 x 250 litres
- compressed air connection: 1/2" standard plug
- power requirements: 400 V / 50 Hz / 3 Ph / 7,5 kW
- weight: 952 kg

Optional accessories

- chip collection bags for POWER UNIT 250/300 item-no. 20M550/3
- debris level indicator for POWER UNIT item-no. 20M530
- machine recognition with push control 24 V item-no. 20M500
- frequency converter for demand control item-no. 20M520/3
- extraction hose item-no. 150M1/300

	Item-No.
	20M300



Special voltages upon request.



Top Sound absorber for POWER UNIT 250

- for mounting on clean air dust extractor POWER UNIT 250
- reduces the dB-level by 4 dB(A)
- height 300 mm

	Item-No.
	20M250/S



Top Sound absorber for POWER UNIT 300

- for mounting on clean air dust extractor POWER UNIT 300
- reduces the dB-level by 4 dB(A)
- height 300 mm

	Item-No.
	20M300/S



Chippings Bags for POWER UNIT

- PU = 20 pieces

for POWER UNIT	Dimensions	Item-No.
100 / 120	Ø 520 x 1300 mm	20M550/1
140 / 160 / 200	705 x 640 x 1200 mm	20M550/2
250 / 300	895 x 570 x 1200 mm	20M550/3

Dust Extractors



Machine Recognition

- for all POWER UNITS
- via transformer coils and automatic slide valve gear
- for up to 4 / 8 / 12 / 16 electro-pneumatic or electric slide valves
- control voltage 24 V DC
- external connection box for independent wall mounting

No. of machines	Dimensions W x D x H	Item-No.
up to 4	254 x 94 x 180 mm	20M500/4A
up to 8	254 x 94 x 180 mm	20M500/8A
up to 12	360 x 111 x 254 mm	20M500/12A
up to 16	360 x 111 x 254 mm	20M500/16A



Frequency Converter

- with control unit and clear-text display
- integrated closed loop control with pressure transmitter for adequate control of the dust extractor

for POWER UNIT	Item-No.
140 / 160	20M520/1
200	20M520/2
250 / 300	20M520/3



Transformer Coil

- for recognition of one wood working machine

Item-No.
20M510



picture similar

Automatic Start / Stop Module

for connection of up to 2 workshop machines (1 x 3~400 V and / or 1 x 1~230 V) in combination with up to 2 external suction devices (1 x 3~400 V and / or 1 x 1~230 V)

Function

- when switching the workshop machine on, the suction device is also switched on automatically 2 – 3 seconds later
- after switching the machine off, the suction device will still run for approx. 3 – 4 seconds
- this provides exhausting the remaining dust from the machine, according to hazardous substances regulations

Technical data

- connected load min. 100 W, max. 400 V / 16 A / 11000 W
- power inlet: CEE 3 P+N+E / 16 A / 6 h with phase reverse
- outlets workshop machine: 1 x socket CEE 3 P+N+E / 16 A / 6 h, 1 x socket 2 P+E
- outlets suction device: 1 x socket CEE 3 P+N+E / 16 A / 6 h, 1 x socket 2 P+E
- safety class: IP 44
- dimensions W x D x H: approx. 245 x 123 x 153 mm
- weight: approx. 1,25 kg

	Item-No.
	20M540

! Connected load of all devices must never exceed the total of 16 A! The automatic start / stop module does not limit the starting current of a machine or device.

Raw Air Dust Extractor MOBILE 100



Characteristics

- universal use
- extra sturdy construction
- significantly reduced dust concentration
- filter bag category G
- great cost/performance ratio
- high suction performance
- short mounting time by modular construction

Technical data

- dimensions W x D x H: 896 x 581 x 1699 mm
- extraction connector: Ø 100 mm
- nominal volume flow: 865 m³/h
- interface vacuum: 1780 Pa
- filter surface: 1,08 m²
- chip collector volume: 90 litres
- weight: 25 kg
- delivery with: 1 chippings bag

Accessories

- filter cartridge for MOBILE 100: item-no. 25M100/F
- chippings bags for MOBILE 100: item-no. 25M100/S, PU = 5 pieces

Power requirements	Item-No.
110 V / 60 Hz / 1 Ph / 0,75 kW	25M100/110
230 V / 50 Hz / 1 Ph / 0,75 kW	25M100/230

! These raw air dust extractors are not approved for industrial use in Germany!

Raw Air Dust Extractor MOBILE 125



Characteristics

- identical to item 25M100


Technical data

- dimensions W x D x H: 1090 x 580 x 2098 mm
- extraction nozzle: Ø 125 mm
- nominal volume flow: 1350 m³/h
- interface vacuum: 1600 Pa
- filter surface: 2,2 m²
- chip collector volume: 175 litres
- weight: 40 kg
- delivery with: 1 chippings bag

Accessories

- filter cartridge for MOBILE 125/140/160/200: item-no. 25M200/F
- chippings bags for MOBILE 125/140/160/200: item-no. 25M200/S, PU = 20 pieces

Power requirements	Item-No.
110 V / 60 Hz / 3 Ph / 0,75 kW	25M125/110
230 V / 50 Hz / 3 Ph / 0,75 kW	25M125/230
400 V / 50 Hz / 3 Ph / 0,75 kW	25M125/400

 These raw air dust extractors are not approved for industrial use in Germany!

Raw Air Dust Extractor MOBILE 140



Characteristics

- identical to item 25M100


Technical data

- dimensions W x D x H: 1090 x 580 x 2098 mm
- extraction connector: Ø 140 mm
- nominal volume flow: 1650 m³/h
- interface vacuum: 1750 Pa
- filter surface: 2,2 m²
- chip collector volume: 175 litres
- weight: 40 kg
- delivery with: 1 chippings bag

Accessories

- filter cartridge for MOBILE 125/140/160/200: item-no. 25M200/F
- chippings bags for MOBILE 125/140/160/200: item-no. 25M200/S, PU = 20 pieces

Power requirements	Item-No.
110 V / 50 Hz / 1 Ph / 1,1 kW	25M140/110
230 V / 50 Hz / 1 Ph / 1,1 kW	25M140/230
400 V / 50 Hz / 3 Ph / 0,75 kW	25M140/400

 These raw air dust extractors are not approved for industrial use in Germany!

Raw Air Dust Extractor MOBILE 160



Characteristics

- identical to item 25M100


Technical data

- dimensions W x D x H: 1090 x 580 x 2298 mm
- extraction connector: Ø 160 mm
- nominal volume flow: 2200 m³/h
- interface vacuum: 2500 Pa
- filter surface: 2,2 m²
- chip collector volume: 175 litres
- weight: 40 kg
- delivery with: 1 chippings bag

Accessories

- filter cartridge for MOBILE 125/140/160/200: item-no. 25M200/F
- chippings bags for MOBILE 125/140/160/200: item-no. 25M200/S, PU = 20 pieces

Power requirements	Item-No.
110 V / 60 Hz / 1 Ph / 1,5 kW	25M160/110
400 V / 50 Hz / 3 Ph / 1,5 kW	25M160/400

 These raw air dust extractors are not approved for industrial use in Germany!

Raw Air Dust Extractor MOBIL 200



Characteristics

- identical to item 25M100

Technical data

- dimensions W x D x H: 1090 x 580 x 2298 mm
- extraction connector: Ø 200 mm
- nominal volume flow: 2500 m³/h
- interface vacuum: 2700 Pa
- filter surface: 3,0 m²
- chip collector volume: 175 litres
- weight: 43 kg
- delivery with: 1 chippings bag

Accessories

- filter cartridge for MOBILE 125/140/160/200: item-no. 25M200/F
- chippings bags for MOBILE 125/140/160/200: item-no. 25M200/S, —PU = 20 pieces

Power requirements	Item-No.
110 V / 60 Hz / 1 Ph / 2,2 kW	25M200/110
400 V / 50 Hz / 3 Ph / 2,2 kW	25M200/400

 These raw air dust extractors are not approved for industrial use in Germany!

Dust Extractors



Filter Cartridge for MOBILE 100

- for Raw Air Dust Extractor MOBILE 100

Ø	Height	Item-No.
330 mm	890 mm	25M100/F



Filter Cartridge for MOBILE 125 / 140 / 160 / 200

- for Raw Air Dust Extractor MOBILE 125 – 200

Ø	Height	Item-No.
500 mm	1025 mm	25M200/F



Chippings Bags for MOBILE 100

- for Raw Air Dust Extractor MOBILE 100
- PU = 5 pieces

Ø	Length	Item-No.
400 mm	900 mm	25M100/S



Chippings Bags for MOBILE 125 / 140 / 160 / 200

- for Raw Air Dust Extractor MOBILE 125 – 200
- PU = 20 pieces

Ø	Length	Item-No.
520 mm	1300 mm	25M200/S

Industrial Vacuum Cleaner JET STREAM M



Characteristics

- all-purpose wet- and dry-vacuum cleaner
- low noise level
- dust class M
- antistatic equipment
- ON/OFF switch and automatic off-delay
- fully automatic filter cleansing
- low-dust disposal by filter bags
- incl. 3 m suction hose

Technical data

- dimensions W x D x H: 505 x 370 x 640 mm
- extraction nozzle: Ø 35 mm
- volume flow: max. 3180 l/m
- interface vacuum: max. 210 mbr
- filter surface: 0,55 m²
- chip collector volume: 41 litres
- power requirements: 220 – 240 V / 50 – 60 Hz
- weight: 11 kg

Item-No.
28M1

Craftsmen and Industrial Set for JET STREAM M



- 8 parts

Item-No.
28M10

Suction Hose for JET STREAM M



- length = 3 m

Item-No.
28M13

Dust Extractors



Connection Adapter for Suction Hose for JET STREAM M

Item-No.
28M14



Paper Dust Bags for JET STREAM M

- PU = 5 pieces

Item-No.
28M11



Filter Element for JET STREAM M

Item-No.
28M12



Pipe

- zinc-plated, flanges on both sides, length = 1000 mm

Diameter	Item-No.
80 mm	155M1/80
100 mm	155M1/100
120 mm	155M1/120
140 mm	155M1/140
160 mm	155M1/160
180 mm	155M1/180
200 mm	155M1/200



Elbow Pipe

- zinc-plated, flanges on both sides, $R = 1,5 \times D$

Diameter	Branching	Item-No.
80 mm	90°	155M3/80
80 mm	45°	155M4/80
100 mm	90°	155M3/100
100 mm	45°	155M4/100
120 mm	90°	155M3/120
120 mm	45°	155M4/120
140 mm	90°	155M3/140
140 mm	45°	155M4/140
160 mm	90°	155M3/160
160 mm	45°	155M4/160
180 mm	90°	155M3/180
180 mm	45°	155M4/180
200 mm	90°	155M3/200
200 mm	45°	155M4/200



Branching

- zinc-plated, flanges on both sides
- length = 500 mm, branching 45°

Ø Entrance x Way x Exit	Item-No.
100 x 100 x 80 mm	155M10/1
100 x 100 x 100 mm	155M10/2
120 x 100 x 100 mm	155M11/1
120 x 120 x 100 mm	155M11/2
120 x 120 x 120 mm	155M11/3
140 x 120 x 100 mm	155M12/1
140 x 120 x 120 mm	155M12/2
140 x 140 x 100 mm	155M12/3
140 x 140 x 120 mm	155M12/4
160 x 140 x 100 mm	155M13/1
160 x 140 x 120 mm	155M13/2
180 x 160 x 120 mm	155M14/1
180 x 160 x 100 mm	155M14/2


Dust Extractors

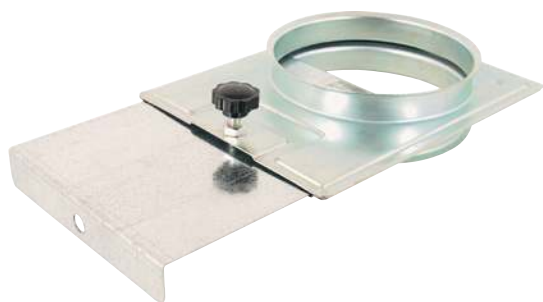


Automatic Wall Dust Pan with tightly closing flap

- floor vacuum box for extracting chips and dust material directly from the floor
- tightly closing flap with hinges and foam rubber seal

Version	Item-No.
Automatic wall dust pan with flap DN 100	155M15/100
Automatic wall dust pan with flap DN 120	155M15/120
Automatic wall dust pan with flap DN 140	155M15/140
Automatic wall dust pan with flap DN 160	155M15/160

 The automatic dust pans can be integrated into a new or existing chip extracting system.



Slider

- made of zinc-plated sheet metal, flanges on both sides, for locking of a suction connection

Diameter	Item-No.
80 mm	155M6/80
100 mm	155M6/100
120 mm	155M6/120
140 mm	155M6/140
160 mm	155M6/160



Pneumatic Close Off Slider

- made of zinc-plated sheet metal, flanges on both sides, to close off a suction connection
- control voltage 24 V DC in new units
- possibly control voltage 230 V in older unit

Diameter	Item-No.
80 mm	155M7/80
100 mm	155M7/100
120 mm	155M7/120
140 mm	155M7/140
160 mm	155M7/160

 Accessories for the alignment of the pneumatic gate valve available upon request! Control voltage 230 V AC or 24 V DC. Other voltages upon request.

Hose Sleeve / Flanged Collar



- zinc-plated, with 6 mm flare and bead, length 60 mm
- manifold from metal pipe to plastic hose
- incl. hose clamps

Nominal width	Outer diameter	Item-No.
80	78 mm	155M16/80
100	98 mm	155M16/100
120	118 mm	155M16/120
140	138 mm	155M16/140
160	158 mm	155M16/160
180	178 mm	155M16/180

Pipe Clamp



- zinc-plated, for pipe connection

Diameter	Item-No.
80 mm	155M2/80
100 mm	155M2/100
120 mm	155M2/120
140 mm	155M2/140
160 mm	155M2/160
180 mm	155M2/180
200 mm	155M2/200

Suction Hose




- for connection of the machine to a central dust and chip pipeline
- made of plastic, reinforced with metal coils

Diameter	Item-No.
60 mm	150M1/60
80 mm	150M1/80
90 mm	150M1/90
100 mm	150M1/100
120 mm	150M1/120
125 mm	150M1/125
140 mm	150M1/140
160 mm	150M1/160
180 mm	150M1/180



Hose Clamp

Diameter	Item-No.
60 - 80 mm	150M2/60
70 - 90 mm	150M2/70
80 - 100 mm	150M2/80
90 - 110 mm	150M2/90
110 - 130 mm	150M2/110
130 - 150 mm	150M2/130
150 - 170 mm	150M2/150
160 - 180 mm	150M2/170

 Other pipeline components (different sizes, etc.) are available upon request!

Electric Tools



Electric Tools

Best quality and longevity are the basic requirements for taking an electric tool into our product range. All electric tools of our assortment are designated and suitable for the daily operation in an artisanal business or industrial business. However, if a problem should occur with any of the tools supplied by us, our customer service of course includes repair service. Furthermore, we also offer many accessory parts for our electric hand tools, designed according to the special demands of an orthopaedic workshop.





Hot Air Blower „Electron“

Features

- hot air flow up to 650 °C, infinitely adjustable
- air flow max. 320 l/min
- 3 m power cord with grounded plug
- carrying case

Power requirements	Item-No.
120 V / 50-60 Hz / 1 Ph / 2,4 kW	168P41/1512
230 V / 50-60 Hz / 1 Ph / 3,4 kW	168P41/1523



Hot Air Blower „Triac ST“

Features

- hot air flow 40 – 700 °C, continuously adjustable
- air flow max. 240 l/min
- standard nozzle with active cooled protection tube
- tool case
- 3 m power cord with grounded plug
- weight: 990 g

Power requirements	Item-No.
230 V / 50 – 60 Hz / 1 Ph / 1,6 kW	168P40/1523
120 V / 50 – 60 Hz / 1 Ph / 1,6 kW	168P40/1512

 The entire nozzle assortment of the previous model „Triac S“ is compatible with model „Triac ST“.



Receiver Station

- for item 168P40 and 168P41

Item-No.
168P44



Welding Nozzle

- for hot air blower „Triac“ 168P40

Diameter	Item-No.
3 mm	168P410/3
4 mm	168P410/4
5 mm	168P410/5



Hot Air Gun „Ghibli“

Features

- hot air flow up to 600 °C, infinitely adjustable
- air flow max. 300 l/min
- 5 mm reduction nozzle
- 3 m power cord with grounded plug

Power requirements	Item-No.
230 V / 50 – 60 Hz / 2,0 kW	168P42
120 V / 50 – 60 Hz / 1,5 kW	168P42/120



Wide Slit Nozzle

Dimensions	Item-No.
20 x 2 mm for item 168P40	168P46
40 x 2 mm for item 168P40	168P47
20 x 2 mm for item 168P42	168P48
70 x 10 mm for item 168P41	168P49



Hot Air Gun

- ergonomic shape with optimal center of gravity
- slip-proof standing surface and hanging device

Features

- heat accumulation warning and residual heat display
- LOC - function, to lock settings
- ceramic heater
- 2300 W brush motor
- LCD-display for temperature and air supply
- temperature range 80 – 650 °C / 176 – 1202 °F, setting in 10 °C / 50 °F steps
- air volume 150 – 500l/min., 2 steps
- 4 pre-set applications
- 3 m power cord with safety plug

Technical data

- power requirements: 230 V / 50 – 60 Hz / 2,3 kW
- weight 1,0 kg

Item-No.
168P27/1523

without picture

Accessories Hot Air Gun

- for item 168P27/1523
- 12 pcs.

consisting of

- surface nozzle 75 mm
- window nozzle 75 mm
- reduction nozzle 14 mm
- reduction nozzle 9 mm
- wide-slot nozzle
- welding nozzle
- reflector nozzle
- scraper
- scraper handle
- 3 pcs. spare blades

Width	Item-No.
50 mm	168P34



Electric Heater

Features

- with or without electronic heat output regulation
- 1,5 m power cord with grounded plug

Technical data

- power requirements: 230 V / 50 – 60 Hz / 1 Ph / 0,59 kW

Version	Power	Item-No.
with regulator	0,59 kW	168P8/L
without regulator	0,59 kW	168P8



Hot Sealing Iron

- for sealing of PVC- and PVA sheeting

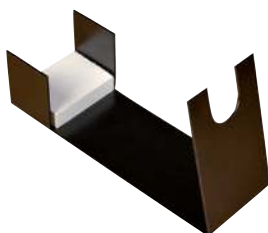
Features

- PTFE sheeting covered surface
- retainer clip
- range 100 – 180 °C
- 1,50 m power cord with grounded plug

Technical data

- power requirements: 230 V / 50 Hz / 1 Ph / 0,2 kW

Heating area	Item-No.
40 x 110 mm	168P5



Stand Hand Sealing Iron

- for item 168P5

Item-No.
168P5/S



PTFE Sheeting

- for item 168P5
- PU = 2 m

Width	Item-No.
100 mm	119P22



Thermic Shear

Equipment

- without cutting wire
- 2 m power cord with grounded plug

Technical data

- power requirements: 230 V / 50 Hz / 1 Ph / 0,12 kW

Item-No.
168P30



Cutting Wire

- for item 168P30

Length	Item-No.
50 mm	168P31/50
100 mm	168P31/100



Circular Hand Shear

- easily cuts textiles and soft plastic materials up to 10 mm thickness

Features

- 10-flanged circular cutting blade \varnothing 60 mm
- carbide counter blade
- 2 m power cord with grounded plug

Technical data

- power requirements: 230 V / 50 Hz / 1 Ph / 0,09 kW

Item-No.
168P25



Circular Cutting Blade

- 10-flanged circular cutting blade for item 168P25

Diameter	Item-No.
60 mm	168P25/E



Circular Cutter

- cuts textiles, sheeting materials and soft leather


Features

- max. cutting height 8 mm
- built-in sharpening device incl. 2 circular cutting blades (6-flanged)
- 2,8 m power cord with grounded plug

Technical data

- power requirements: 230 V / 50 Hz / 1 Ph / 0,056 kW

Item-No.
168P26

 Service parts are available upon request!



Circular Cutting Blade

- 6-flanged circular cutting blade for item 168P26

Item-No.
168P26/E



EC-Cutter-Set

Features

- with toothed blade
- hand grip with short blade for curves
- blade with guidance for straight cuts
- power supply unit and loading unit

Technical data

- tool holder: approx 0,25 kg net
- length: approx. 220 mm
- power requirements: 230 V / 50 Hz (80C10), 110 V (80C10/110)

Version	Item-No.
230 V / 50 Hz	80C10



Electric Sheet Metal Shear

- cuts sheet metals, ordinary steel, stainless steel, aluminum and plastic sheets up to max. 2,5 mm thickness

Features

- with speed regulator
- 360° maneuverability
- 3 m power cord with grounded plug

Technical data

- power requirements: 230 V / 50 Hz / 1 Ph / 0,5 kW

	Item-No.
	168P35

without picture

Accessories Electric Sheet Metal Shear

- for electric sheet metal shear 168P35

Accessories	Item-No.
2 x taps, 1 x die	168P35/E1
die	168P37
waste bag	168P38
metal case	168P39



Cast Cutter – Blue-Star-Cutter

- oscillating saw, infinitely variable from 6.500 – 24.000 movements
- overload protection

Features

- 2 circular saw blades, 1 x Ø 50 mm and 1 x Ø 65 mm
- 2 spanner (spatt spanner)
- 5 m electric cord with grounded plug

Technical Data

- power requirements: 230 V / 50 Hz / 1 Ph / 0,5 kW
- weight: 1,5 kg net

Power requirements	Item-No.
230 V / 50 Hz / 1 Ph / 0,5 kW	168P23
110 V / 60 Hz / 1 Ph / 0,5 kW	168P23/110



Circular Saw Blade

- replacement for item 168P23
- specially hardened also suitable for plastics

Diameter	Item-No.
50 mm	159P4/50
65 mm	159P4/65



Segmented Saw Blade

- replacement for item 168P23
- specially hardened also suitable for plastics

Diameter	Item-No.
65 mm	159P8



Oscillating Tool „Multimaster“

- multi purpose hand tool with various accessories for sawing, sanding and scraping

Features

- 1 x grinding plate
- 3 x grinding sheets ea. grit 60, 80, 120 and 180
- 1 x solid scraper
- 1 x universal E-Cut saw blade Ø 44 mm
- 1 x E-Cut Long-Life saw blade Ø 65 mm
- 1 x HSS segment saw blade
- 1 x standard HSS saw blade Ø 80 mm
- plastic tool case

Technical data

- power requirements: 230 V / 50 Hz / 1 Ph / 0,35 kW
- oscillating frequency: 10000 – 19500 1/min
- 5 m power cord with grounded plug
- weight: 1,4 kg

	Item-No.
	168P29/1523



168P29/E80

168P29/80S

Saw Blades

- replacement for item 168P29
- PU = 2 pieces (168P29/E80)
- PU = 1 piece (168P29/80S)

Diameter	Item-No.
80 mm, circular saw blade, round	168P29/E80
80 mm, segment saw blade, half-round	168P29/80S




Cast Cutter „Oscimed 2000“

- complete with support for dust suction nozzle

Features

- 2 circular saw blades: 1 x Ø 50 mm and 1 x Ø 65 mm
- 1 m power cord with grounded plug
- carry case

Power requirements	Item-No.
230 V / 50-60 Hz / 1 Ph / 0,1 kW	168P32
110 V / 50-60 Hz / 1 Ph / 0,1 kW	168P32/110

 You may order a spare shutter button for the saw blade under Item-No. 168P32/11.



Oscillating Saw OSCIMED Ergo

- ergonomic, modern and compact design
- noise reducing saw-blades which can be changed easily without any tools
- device powered by a safe low voltage of 24 volts

Features

- cooling fan for intensive use
- receiver for vacuum pipe
- double electrical insulation
- length of power supply cable: 1,1 m with grounded plug
- length of cable 24 VDC: 3,0 m
- 1 hardened steel saw blade for synthetic casts Ø 50 mm
- 1 stainless steel saw blade for plaster casts Ø 65 mm
- carry case

Technical data

- motor speed: 14500 RPM
- sound level: 67 db (A)
- length: 230 mm
- power supply: 230 V / 50 – 60 Hz / 0,18 kW
- weight: 0,86 kg net


Power requirements	Item-No.
230 V / 50 Hz / 1 Ph / 0,18 kW	168P33/1523
120 V / 60 Hz / 1 Ph / 0,18 kW	168P33/1612



Circular Saw Blade

for items 168P32 and 168P33 Ø 50 mm

Application	Item-No.
for synthetic bandages	168P32/50
for synthetic bandages, segmented blade	168P32/50S
for synthetic bandages, saw blade with titan	168P34/50
for cast	168P33/50
for cast, segmented blade	168P33/50S

 You may order a spare shutter button for the saw blade under Item-No. 168P32/11.



Circular Saw Blade

- replacement for item 168P32, Ø65 mm

Application	Item-No.
synthetic bandages with titan	168P31/65
plaster bandages	168P32/65
plaster badages, segmented blade	168P33/65
synthetic bandages	168P34/65



Electric Stapler

- for staple type: 53
- staple length: 8 – 20 mm
- for nail type: 8
- nail length: 15 – 20 mm

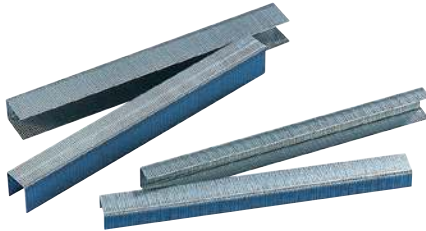
Features

- electronically infinitely adjustable
- max. release frequency / minute: 20 shots
- 3,5 m power cord with grounded plug

Technical data

- dimensions W x D x H: 234 x 80 x 323 mm
- power requirements: 220 – 240 V / 1 Ph / 50 – 60 Hz
- weight: 3,65 kg

	Item-No.
	168P9



Staple

- for item 168P9
- PU = 5000 pieces

Length	Item-No.
8 mm	37P8/8
14 mm	37P8/14



Vacuum Cleaner

- for 168P32 and 168P33, 2 speed levels

Features

- reception for saw and vacuum hose
- electrical connection for saw
- 2,5 m vacuum hose

Technical data

- power: 300 – 1000 W, adjustable
- sound level: 60 – 70 dB
- throughput: 40 l/sec
- capacity: 20 litres
- weight: 12 kg net

Electrical connection	Item-No.
230 V / 50 Hz / 1 Ph	168P45/1523
120 V / 60 Hz / 1 Ph	168P45/1612

scope of supply does not include oscillating saw



Hepa Filtre

- for 168P45

	Item-No.
	168P45/1



Polyester Filtre

- for 168P45

	Item-No.
	168P45/2



Paper Bag

- for 168P45
- PU = 10 pieces

	Item-No.
	168P45/3



Impact Drilling Machine

Features

- mechanical overload coupling
- keyless chuck with auto-lock 1,5 – 13 mm
- impact drill
- 1st gear / 2nd gear
- safety handle + additional handle with softgrip
- electronic speed setting
- right / left rotation
- spindle throat Ø 43 mm to be used in bench stand
- drill depth stop bar: 210 mm
- carry case
- 2,5 m power cord with grounded plug

Technical data

- drilling Ø steel: 16 / 8 mm
- drilling Ø wood: 40 / 25 mm
- power requirements: 230 V / 50 Hz / 1 Ph / 1,1 kW
- weight incl. carry case: 4 kg

	Item-No.
	80M4



Drill Stand

- accessory for 80M4
- for impact drilling machine

Technical data

- receiver clamp: \varnothing 43 mm
- overhang: 127 mm
- column: \varnothing 30 mm
- working stroke: 60 mm
- height: 500 mm
- base plate: 185 x 270 mm
- column: 360° tilting
- weight: 4,7 kg net

Item-No.
80M10



Flexible Shaft

- for power tools with drill chuck

Features

- connector with cylindric pin
- \varnothing 6 x 30 mm
- both sides with ball bearings

Technical data

- chucking capacity: 0,5 – 8 mm
- speed: max. 10000 RPM
- length: 1250 mm
- torque: max. 0,6 Nm
- flexion radius: min. 100 mm
- tool holder connection: M8 x 0,75
- weight: 0,8 kg net

Item-No.
5M1



HSS Milling Bit Set

- in plastic case, shank \varnothing 6 mm
- for power tools with drill chuck
- ten-parts

Weight	Item-No.
0,5 kg net	107P10



Grinding Bit Set

- shank \varnothing 6 mm, hardness grade M, rough grain
- for power tools with drill chuck
- 10-piece

Weight	Item-No.
0,4 kg net	107P11



picture similar

Cordless Drill

Features

- 1 quick charger – 35 min.
- 2 x 4,0 Ah Li-ion battery / cool pack technology
- 13 mm auto-lock drill chuck
- right-/left rotation
- 2 speed
- LED-light for illumination of work area
- 1 belt clip, 1 mountable bit holder, 4 exchangeable colour clips
- carry case

Technical data

- drill chuck range: min. 1,5 mm – max. 13 mm
- battery voltage: 14,4 V
- battery capacity: 4,0 Ah
- torque levels: 20+1
- torque range, max. hard / soft: 56 / 28 Nm
- idle range (1. gear / 2. gear): 0 – 600 / 0 – 1900 min-1
- drilling capacity \varnothing steel / wood: 13 / 35 mm
- screwing capacity: \varnothing max. 8 mm
- weight: 1,6 kg incl. battery

Item-No.
80M11



Angle Grinder

Features

- additional handle, applicable to the left or right side
- new rotation secured wheel guard
- strong, durable high-performance motor from Champion
- optimised engine cooling system
- protective hood

Technical data

- no-load speed: 11000 RPM
- spindle thread: \varnothing 125 mm
- power entry: 1100 W
- power release: 630 W
- power requirements: 230 V / 50 Hz / 1 Ph / 1,1 kW
- weight: 2,1 kg net

	Item-No.
	80M7



Grinding Disc

- for steel, for item 80M7

Diameter	Item-No.
125 x 6 mm	80M7/1



Cutting Disc

- for steel, for item 80M7

Diameter	Item-No.
125 x 2,5 mm	80M7/2



Electronic Jig Saw „Professional“

Features

- adjustable four-level oscillation
- toolless saw blade clamping system
- suction set with suction nozzle
- 1 saw blade (softwood)
- swivel mounted guide shoe +/- 45°
- chipping protection screen
- adjustable speed-control
- carry case
- 4 m power cord with grounded plug

Technical data

- cutting depth in wood: 150 mm
- cutting depth in aluminium: 20 mm
- cutting depth in unalloyed steel: 10 mm
- lifting height: 26 mm
- power requirements: 230 V / 50 Hz / 1 Ph / 0,78 kW
- weight: 2,6 kg

	Item-No.
	80M8



Jig Saw Blade

- for item 80M8
- PU = 5 pieces

Range of application	Length	Item-No.
Hard + soft wood, plastic	100 mm	80M1/1
Hard foam, cork, soft rubber	100 mm	80M1/2
Soft steel, aluminum	92 mm	80M1/3

Tools



Tools

Optimal working results can be achieved only with durable quality tools. That's why quality is our top demand. As supplier, we accept only manufacturers of proven professional tools and avoid short-lived DIY-quality. The tools supplied by us are made by professionals for professionals. This is the only way to satisfy high-level demands reliably and permanently.



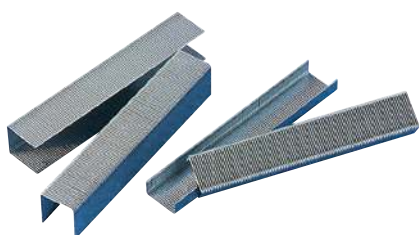
By a broad selection of special tools, our product range fulfils the requirements of the various working techniques of orthopaedic technology. Of course our service does not end with the purchase, as our competent employees will assist you anytime beyond that. We are pleased to offer a wide range of service features such as calibrating measuring tools or repairs.



Staple Gun

- manual operation for nailing, stapling, covering, etc.
- feeder unit for 100 staples
- for staples type: 58
- back width: 13 mm
- staples' length: 4 – 14 mm

	Item-No.
	168P12



Staples

- for item 168P12

Dimensions	PU	Item-No.
6 x 13 mm	5000 pcs.	37P6/6
10 x 13 mm	5000 pcs.	37P6/10
12 x 13 mm	5000 pcs.	37P6/12
14 x 13 mm	5000 pcs.	37P7/14



Staple Remover

- to remove staples

	Item-No.
	168P13



Steel Hammer

- with handle

Weight	Item-No.
100 g	170P1/100
200 g	170P1/200
300 g	170P1/300
500 g	170P1/500
800 g	170P1/800
1000 g	170P1/1000



Ball Peen Hammer

- with handle, short head, one flat camber and one round camber

Weight	Item-No.
250 g	170P2/250
375 g	170P2/375
500 g	170P2/500



Ball Peen Hammer

- with handle, long head, round camber both sides

Weight	Item-No.
250 g	170P3/250
375 g	170P3/375
500 g	170P3/500



Peen Hammer

- with handle, two different peen arches

Weight	Item-No.
250 g	170P4/250
375 g	170P4/375
500 g	170P4/500



Soft Face Hammer

- cast iron housing, wooden handle with replaceable plastic faces:
- 1 x TPE soft face (blue): 65 Shore A +/-5
- 1 x rubber face: 90 Shore A +/-5

Head ø	Weight	Item-No.
30 mm	340 g	170P7/30
40 mm	630 g	170P7/40
50 mm	1170 g	170P7/50

 Other inserts upon request.



Rubber Mallet

- with handle

Head ø	Item-No.
65 mm	170P5



Shoemaker's Hammer

- with handle, steel forged, German shape

Weight	Item-No.
300 g	170P6



Combination Pliers

- special tool steel, plastic coated handles

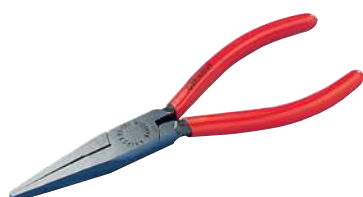
Length	Item-No.
160 mm	171P1/160
180 mm	171P1/180



Flat Nose Pliers

- special tool steel, plastic coated handles

Length	Item-No.
160 mm	171P2/160



Flat Nose Pliers „Langbeck“

- special tool steel, plastic coated handles

Length	Item-No.
160 mm	171P4/160



Angled Snipe Nose Pliers

- CV-steel, plastic coated handles, 45° angle

Length	Item-No.
200 mm	171P5/200



Round Nose Pliers

- CV-steel, plastic coated handles

Length	Item-No.
140 mm	171P3/140
160 mm	171P3/160



Side Cutter

- CV-steel, plastic coated handles

Length	Item-No.
160 mm	171P6/160
180 mm	171P6/180



End Cutting Nippers

- CV-steel, plastic coated handles

Length	Item-No.
160 mm	171P7/160



Carpenter's Pincers

- CV-steel, plastic coated handles

Length	Item-No.
180 mm	171P8/180
210 mm	171P8/210



Manchester Pliers

- plastic coated handles

Length	Item-No.
330 mm	171P12



Plastic Side Cutter

- Vandin electrical steel, forged, oil-hardened, plastic coated handles

Length	Item-No.
160 mm	171P16/160



Shoemaker's Pincers

- plastic coated handles

Length	Item-No.
190 mm	171P11



Eyelet Squeeze-Out Pliers

- plastic coated handles

Length	Item-No.
190 mm	171P13



Lace Tip Pliers

- with insert for metal lace tip item-no. 67P2/10x8

Version	Item-No.
with insert	171P14



Metal Lace Tip

Material


- steel sheet
- nickel-plated

Application

- for securing lace ends

PU = 500 or 1000 pieces

Length x Width	Item-No.
10 x 4 mm	67P2/10x8

 Please use the matching lace tip pliers item-no. 171P14 for the metal lace tips.
For laces, see our catalogue "Materials and Equipment", chapter "Textiles".



Toggle Joint Wire Nippers

- for hard wire

Length	Item-No.
180 mm	171P9/180
210 mm	171P9/210



Waterpump Pliers

- CV-steel, plastic coated handles

Length	Item-No.
250 mm	171P15/250



Grip Pliers

- nickel-plated

Length	Item-No.
250 mm	171P10



Tower Pincers

- CV-steel, plastic coated handles

Length	Item-No.
220 mm	171P10/220



Chisel/Punch Set 6-part

- CV-steel, coated, in metal case

Components

- 1 flat chisel, L = 150 mm, B = 12 mm
- 1 flat chisel, L = 125 mm, B = 12 mm
- 1 center punch, Ø 4 mm, L = 120 mm
- 1 pin punch Ø 3 mm, L = 120 mm
- 1 pin punch Ø 4 mm, L = 120 mm
- 1 cape chisel, L = 125 mm, B = 4 mm

Item-No.
172P2



Pin Punch Set

- 6-part, CV-steel, coated, in metal case

Components

- Pin punches: 3, 4, 5, 6, 8 and 10 mm

	Item-No.
	172P3



Rivet Setter

- CV-steel, coated

Rivet ϕ	Item-No.
3 mm	172P4/3
4 mm	172P4/4
5 mm	172P4/5



Pin Punch

- CV-steel, coated

Diameter	Item-No.
2 mm	172P6/2
3 mm	172P6/3
4 mm	172P6/4



Flat Chisel

- CV-steel, coated

Width	Length	Item-No.
18 mm	150 mm	172P7/18
21mm	175 mm	172P7/21



Center Punch

- CV-steel, coated

Length	Item-No.
120 mm	172P5



Automatic Center Punch

Length	Item-No.
130 mm	172P1/130

without picture

Spare Pin

- for item 172P1/130

Item-No.
172P1/E



Rivet Header

- CV-steel, coated

Rivet ø	Item-No.
3 mm	162P5/3
4 mm	162P5/4
5 mm	162P5/5
6 mm	162P5/6



Number Die Set

- 0 – 9 in plastic case

Figure height	Item-No.
4 mm	162P35/4
5 mm	162P35/5
6 mm	162P35/6



Steel Letter Set

- A – Z in plastic case

Letter height	Item-No.
4 mm	162P36/4
5 mm	162P36/5
6 mm	162P36/6



Screw Driver

- CV-steel, with shock-resistant PP plastic handle

Blade width	Item-No.
2,5 mm	173P4/2
3,5 mm	173P4/3
4,0 mm	173P4/4
5,5 mm	173P4/5
6,5 mm	173P4/6
8,0 mm	173P4/8
10,0 mm	173P4/10



Screw Driver Set

- 6-part, CV-steel, comes in wooden stand

Blade width	Item-No.
3,5 – 4,0 – 5,5 – 6,5 – 8,0 – 10,0 mm	173P4/5



Philips Head Screw Driver

- CV-steel, with shock-resistant PP plastic handle

Size	Item-No.
0	173P5/0
1	173P5/1
2	173P5/2
3	173P5/3



Philips Head Screw Driver Set

- 4-part, CV-steel, comes in wooden stand

Sizes	Item-No.
0, 1, 2, 3	173P5



T-Handle Hex Wrench

- CV-steel with plastic handle

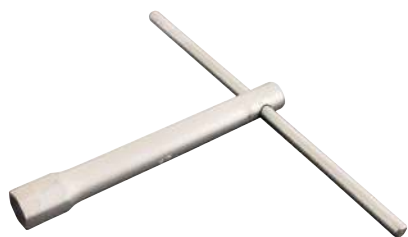
Width across	Item-No.
2 mm	173P3/2
3 mm	173P3/3
4 mm	173P3/4
5 mm	173P3/5
6 mm	173P3/6
8 mm	173P3/8
10 mm	173P3/10



Hex Socket Wrench

- CV-steel with plastic T-handle, length 150 mm

Width across	Item-No.
6 mm	173P8/6
7 mm	173P8/7
8 mm	173P8/8
9 mm	173P8/9
10 mm	173P8/10
11 mm	173P8/11
12 mm	173P8/12
13 mm	173P8/13
14 mm	173P8/14
17 mm	173P8/17



173P15/11, 173P15/17

Hex Socket Wrench

- with turning bar, zinc-plated

Width across	Length	Item-No.
11 mm	120 mm	173P15/11
16 mm	240 mm	173P15/16
17 mm	200 mm	173P15/17



173P15/16



Allen Key Set

- 9 parts, CV-steel, with case
- width across: 1,5 – 2,0 – 2,5 – 3,0 – 4,0 – 5,0 – 6,0 – 8,0 – 10,0 mm

Item-No.
173P7



Allen Key Set

- 7-part, CV-steel
- width across: 2,5 – 3 – 4 – 5 – 6 – 8 – 10 mm

Item-No.
173P2



Cranked socket key CV-setTorx

- 8 pc. set
- TX9 – TX10 – TX15 – TX20 – TX25 – TX27 – TX30 – TX40
- chrome vanadium steel, hardened and powder-coated
- with ball head on one side
- with colour codes
- for screws with female Torx profile


	Item-No.
	173P27



Torque Wrench

- range 1 – 12 Nm, 1/4" square head
- torque value set on handle end and visible on torque scale
- inserts for hexagonal socket head bolts, width across: 3, 4 and 5 mm
- plastic case with respective cushioning
- including calibration certificate

Total length	Item-No.
185 mm	173P10


 The torque wrench has to be recalibrated every year according to the ISO certification. We willingly offer you this service.



Torque Wrench

- range 6 – 30 Nm, 1/4" square head
- torque value set on handle end and visible on torque scale
- inserts for hexagonal socket head bolts, width across: 3, 4, 5, 6, 8 and 10 mm
- metal case with respective cushioning
- including calibration certificate

Total length	Item-No.
265 mm	173P11


 The torque wrench has to be recalibrated every year according to the ISO certification. We willingly offer you this service.



Insert

- for torque wrench 173P10 and 173P11, SL = Shank Length

Width across	Sl	Item-No.
3 mm	30 mm	173P12/3
4 mm	45 mm	173P12/4
5 mm	45 mm	173P12/5
6 mm	45 mm	173P12/6
8 mm	45 mm	173P12/8
10 mm	45 mm	173P12/10
16 mm	45 mm	173P12/16

 The application of 173P12/16 is only possible when using the adapter 173P12/A!



Adapter

- to item 173P12/16
- suitable for item 173P10 and 173P11
- is used as adapter piece 1/4" to 3/8"

	Item-No.
	173P12/A



Screwdriver Bit Socket, Torx 1/4"

- Screwdriver bit socket Torx with pressed-in pin vanadium special steel, manganese-phosphated
- female square drive, as per DIN 3120 – C6, 3, ISO 1174 with ball retaining groove
- Hand-operated, non-slip, knurled grip, chrome-plated

Size	Length	Item-No.
TX20	30,5 mm	173P26/20
TX20	30,5 mm	173P26/25



Hole Punch

- stove-enamelled

Hole ø	Item-No.
1 mm	162P1/1
2 mm	162P1/2
3 mm	162P1/3
4 mm	162P1/4
5 mm	162P1/5
6 mm	162P1/6
7 mm	162P1/7
8 mm	162P1/8
9 mm	162P1/9
10 mm	162P1/10
11 mm	162P1/11
12 mm	162P1/12
13 mm	162P1/13
14 mm	162P1/14
15 mm	162P1/15
16 mm	162P1/16
17 mm	162P1/17
18 mm	162P1/18
19 mm	162P1/19
20 mm	162P1/20
21 mm	162P1/21
22 mm	162P1/22
23 mm	162P1/23
24 mm	162P1/24
25 mm	162P1/25
30 mm	162P1/30
35 mm	162P1/35
40 mm	162P1/40
50 mm	162P1/50



Hole Punch Set

- conical head, Ø 2 – 20 mm, 19-part, in wooden stand, enamelled

Item-No.
162P1



Hole Punch

- stove-enamelled

Hole ø	Item-No.
1 mm	162P6/1
2 mm	162P6/2
3 mm	162P6/3
4 mm	162P6/4
5 mm	162P6/5
6 mm	162P6/6
7 mm	162P6/7
8 mm	162P6/8
9 mm	162P6/9
10 mm	162P6/10
11 mm	162P6/11
12 mm	162P6/12
13 mm	162P6/13
14 mm	162P6/14
15 mm	162P6/15
16 mm	162P6/16
17 mm	162P6/17
18 mm	162P6/18
19 mm	162P6/19
20 mm	162P6/20
22 mm	162P6/22
25 mm	162P6/25



Hole Punch Set

- Ø 1 – 20 mm. 20-part, in wooden stand, stove-enamelled

Item-No.
162P6



Button Hole Punch

- coated

Hole ø	Slot length	Item-No.
2 mm	10 mm	162P2/210
3 mm	10 mm	162P2/310
3 mm	12 mm	162P2/312
4 mm	12 mm	162P2/412



Slot Hole Punch

- coated

W x L	Item-No.
3 x 12 mm	162P4/312
4 x 17 mm	162P4/417
4 x 25 mm	162P4/425



Twist Drill, HSS (DIN 338)

- straight shank, right-hand cut

Diameter	Item-No.
1,0 mm	152P2/010
2,0 mm	152P2/020
2,5 mm	152P2/025
2,6 mm	152P2/026
2,7 mm	152P2/027
2,8 mm	152P2/028
3,0 mm	152P2/030
3,1 mm	152P2/031
3,2 mm	152P2/032
3,3 mm	152P2/033
3,5 mm	152P2/035
3,6 mm	152P2/036
3,8 mm	152P2/038
4,0 mm	152P2/040
4,1 mm	152P2/041
4,2 mm	152P2/042
4,4 mm	152P2/044
4,5 mm	152P2/045
4,6 mm	152P2/046
5,0 mm	152P2/050
5,5 mm	152P2/055
6,0 mm	152P2/060
6,5 mm	152P2/065
7,0 mm	152P2/070
7,5 mm	152P2/075
7,8 mm	152P2/078
8,0 mm	152P2/080
8,5 mm	152P2/085
9,0 mm	152P2/090
9,5 mm	152P2/095
10,0 mm	152P2/100
10,5 mm	152P2/105
11,0 mm	152P2/110
12,0 mm	152P2/120
12,5 mm	152P2/125



Twist Drill Set, HSS (DIN 338)

- 19-part, in metal case
- straight shank, right-hand cut, 1 – 10 mm, 0,5 mm ascending

	Item-No.
	152P2



Twist Drill Set, HSS (DIN 338)

- 25-part, in metal case
- straight shank, right-hand cut, 1 – 13 mm, 0,5 mm ascending

	Item-No.
	152P4



Twist Drill Set, HSS (DIN 338)

- 50-part, in metal case
- straight shank, right-hand cut, 1 – 5,9 mm; 0,1 mm ascending

	Item-No.
	152P3



Center Drill Bit, HSS (DIN 333)

- straight shank \varnothing 8 mm, countersink angle 60°, right-hand cut

Diameter	Item-No.
3,15 mm	152P9



Countersink Drill, HSS (DIN 335 C)

- straight shank \varnothing 8 mm, countersink angle 90°

Outer \varnothing	Item-No.
12,4 mm	152P10



Countersink Drill Set, HSS (DIN 335 C)

- 6-part, with straight shank
- countersink angle 90°
- 3 blades, for counterboring and burring
- sizes: 6,3 / 8,3 / 10,4 / 12,4 / 16,5 / 20,5 mm

Item-No.
152P11



Twist Drill, HSS-Co (DIN 338)

- straight shank, right-hand cut, for hard metals, like V2A-steel and titanium

Diameter	Item-No.
2,5 mm	152P6/2,5
3,2 mm	152P6/3,2
3,6 mm	152P6/3,6
4,2 mm	152P6/4,2
5,5 mm	152P6/5,5
6,2 mm	152P6/6,2
7,5 mm	152P6/7,5



Milling Bit, HSS

- with center guide, straight shank

Diameter	Item-No.
10 mm	151P2/10
12 mm	151P2/12
14 mm	151P2/14
16 mm	151P2/16
18 mm	151P2/18
20 mm	151P2/20
22 mm	151P2/22
23 mm	151P2/23
24 mm	151P2/24
30 mm	151P2/30



Forstner Drill

- straight shank, extra long

Diameter	Item-No.
10 mm	150P2/10
12 mm	150P2/12
14 mm	150P2/14
16 mm	150P2/16
18 mm	150P2/18
20 mm	150P2/20
22 mm	150P2/22
24 mm	150P2/24
25 mm	150P2/25
26 mm	150P2/26
28 mm	150P2/28
30 mm	150P2/30
32 mm	150P2/32
35 mm	150P2/35
40 mm	150P2/40



Forstner Drill Set

- 15-part, in wooden stand, right-hand cut, for wood works
- Ø 10, 12, 14, 16, 18, 20, 22, 24, 25, 26, 28, 30, 32, 35, 40 mm

	Item-No.
	150P2/S



Valve Hole Cutter

- straight shank Ø 10 mm, inner Ø 27 mm

Outer ø	Item-No.
40 mm	150P3



Peeling Drill, Tapered, HSS

Diameter	Item-No.
3 – 14 mm	151P5/314
5 – 20 mm	151P5/820
16 – 30 mm	151P5/1630



Peeling Drill Set, Tapered, HSS

- 3-part, in plastic case, with peeling paste
- diameter: 3 – 14 mm, 4 – 20 mm, 16 – 30,5 mm

	Item-No.
	151P5



Special Countersink Tool

- for all popular lock systems

Diameter	Item-No.
22 mm	150P1



Hand Reamer, HSS

- straight shank with square end, spiral fluted

Diameter	Item-No.
5,0 mm	152P7/050
5,5 mm	152P7/055
6,0 mm	152P7/060
6,5 mm	152P7/065
7,0 mm	152P7/070
7,5 mm	152P7/075
8,0 mm	152P7/080
8,5 mm	152P7/085
9,0 mm	152P7/090
9,5 mm	152P7/095
10,0 mm	152P7/100
10,5 mm	152P7/105
11,0 mm	152P7/110
16,0 mm	152P7/160



Hand Reamer, HSS

- adjustable, straight shank with square end

Range	Item-No.
13,5 – 15,5 mm	152P5/K
15,5 – 17,5 mm	152P5/M
17,5 – 19,5 mm	152P5/G



Hand Tap Set, HSS

- 3-part, pre-, middle- and finishing tap, in plastic case
- for metric ISO-threads

Thread	Item-No.
M3	153P11/3
M3,5	153P11/3,5
M4	153P11/4
M5	153P11/5
M6	153P11/6
M8	153P11/8
M10	153P11/10



Single Cut Tap, HSS

- DIN 355, finishing tap
- for metric ISO-threads

Thread	Item-No.
M3	153P12/3
M4	153P12/4
M5	153P12/5
M6	153P12/6
M8	153P12/8
M13	153P12/13



Die, HSS

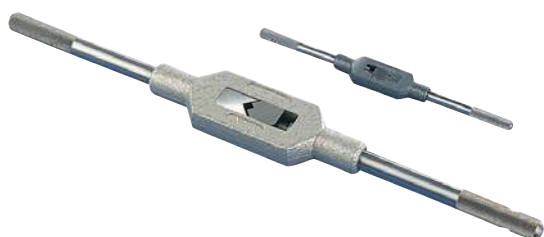
- DIN 223, for metric ISO-threads

Thread	Item-No.
M3	154P11/3
M4	154P11/4
M5	154P11/5
M6	154P11/6
M7	154P11/7
M8	154P11/8
M10	154P11/10



Die Holder, HSS

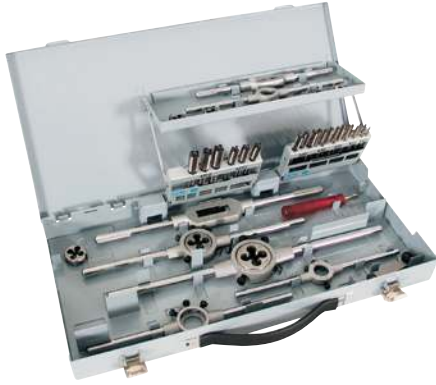
Thread	Ø x Width	Item-No.
M3 – M4	20 x 5 mm	155P1/5
M5 – M6	20 x 7 mm	155P1/7
M7 – M9	25 x 9 mm	155P1/9
M10 – M11	30 x 11 mm	155P1/11



Tap Holder

- adjustable

Thread	Size	Item-No.
M1 – M10	1	155P2/1
M5 – M20	3	155P2/3



Tap and Die Set, HSS (DIN)

- 44-piece, in metal case

Components

- hand taps and dies, size M3, M4, M5, M6, M8, M10 and M12
- die holder, size 20x5, 20x7, 25x9, 30x11, 38x14 mm
- tap holder No. 1+2
- thread gauge
- screw driver
- hollow core drill

Item-No.
154P11/S



Precision Spirit Level Light Metal

- length: 400 mm
- profile anodized yellow
- distortion-free and weather-proof

Item-No.
165P17



Folding Ruler, wood

- 1 mm calibration, 2000 mm length

Material	Item-No.
Wood	163P1
Light-metal	163P52



Steel Tape Measure

- with wrist strap
- automatic tape rewind with stop button
- yellow tape
- black/red millimeter-scale
- dimensions L x W: 2000 x 13 mm

Item-No.
163P21



Tailor's Measuring Tape

Length	Item-No.
2000 mm	163P2



Shoemaker's Measuring Tape

- calibration both sides: cm / stitch length / engl. sizes

Length	Width	Item-No.
600 mm	12 mm	163P18



Flexible Steel Ruler

Length	Item-No.
300 mm	163P8



Steel Ruler

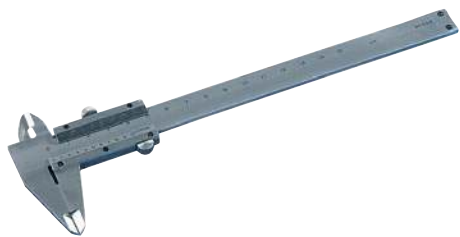
- with bevel and scale, zinc plated, mm-scale

Length	Item-No.
500 mm	163P7/500
1000 mm	163P7/1000



Steel Square

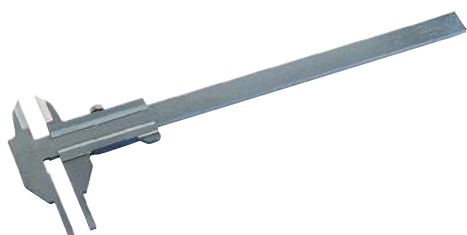
Side length	Item-No.
150 x 100 mm	163P9
150 x 100 mm with stop	163P9/A



Vernier Caliper

- plastic pouch, vernier scale 1/20 mm

Measuring range	Item-No.
150 mm	163P12



Vernier Caliper

- vernier scale 1/20 mm, extra long jaws

Measuring range	Item-No.
200 mm	163P19



Body Caliper „Streifeneder“

- for measuring of body segments

Measuring range	Item-No.
400 mm	165P18/400
600 mm	165P18/600



Micrometer

- in plastic case

Measuring range	Item-No.
0 – 25 mm	163P13



Thickness Bow Gauge

Measuring range	Item-No.
0 – 15 mm	163P11



Bow Compass

Length	Item-No.
150 mm	163P3/150
200 mm	163P3/200



Steel Scriber

Length	Item-No.
250 mm	163P14



Plumb Bob

- pear-shaped

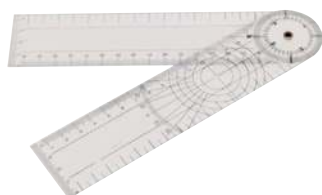
Length	Weight	Item-No.
75 mm	250 g	163P55



Hip Compass

- „mm“ and „inch“ calibration

Measuring range	Item-No.
500 mm / 20 inches	163P16



Goniometer

Measuring range	Item-No.
0 – 360°	163P15



Flexible Ruler

- for measuring of body contours

Length	Item-No.
400 mm	163P70/40
600 mm	163P70/60



Bow Caliper

Measuring range	Item-No.
120 mm	163P17



Outside Caliper

Length	Item-No.
150 mm	163P4



Spacer Set

- spacer set, for leg length compensation, 6-part: 5, 10, 15, 20, 25 and 30 mm

Size	Item-No.
320 x 150 mm	165P19



Parallel Scriber

- with round steel base, no calibration
- scriber rotates and pivots

Scribing height	Item-No.
up to 500 mm	163P51



Height Gauge

- made of wood, cm-calibration

Measuring height	Weight	Item-No.
max. 1000 mm	0,650 kg	163P53



Pelvic Level

- for determination of the hip tilt

Length	Item-No.
330 mm	165P13



Measuring Gauge

- for inside circumfer. of AK and BK sockets

Measuring range	Item-No.
12 – 37 cm	165P14/US
22 – 66 cm	165P14/OS



M.A.S. Tool Kit

- for simple measuring of the muscular and bony structure for manufacturing of anatomical AK (above knee)-sockets

in aluminum case, contains:

- 163P31 Tuber-M-L-Gauge
- 163P32/S Diagonometer
- 163P33 Ramus Angle Gauge
- 163P34 Plurimeter-V
- 163P35 M.A.S. Compressive Measuring Tape
- 163P36 Digital Camera

Item-No.
163P30



M.A.S. Tool Kit

- like item 163P30 but without digital camera

Item-No.
163P29



Tuber-M-L-Gauge

- scale in two measurement ranges
- measurement range 1: determination of distances in BK and AK areas (A-P and M-L)
- measurement range 2: determination of stump lengths

Item-No.
163P31



Diagonometer

- concave and flat contact face
- diagonal measuring
- measurement range 70 – 125 mm

Item-No.
163P32



Ramus Angle Gauge

- measurement range +/- 60°
- for measuring the ramus angle
- for measuring extension and flexion as well as ab- and adduction in BK and AK ranges

Item-No.

163P33



Plurimeter-V

- for measuring of the flexion position of the residual leg
- automatic raster for each quarter rotation
- easy finding of the 0-preliminary setting

Item-No.

163P34



M.A.S. Compressive Measuring Tape

- tension control via springs
- adjustable tension on 2 kg and 4 kg
- this allows a uniform reproducible way of measuring

Item-No.

163P35



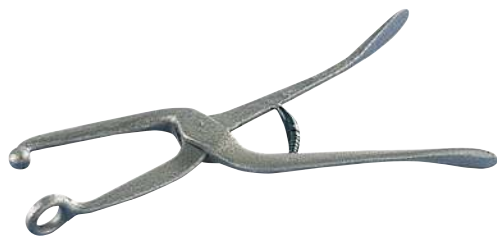
Digital Camera

- brand name camera (depending on offer)

Item-No.

163P36

picture similar



Shoe Stretcher

- coated

Length	Item-No.
400 mm	165P32



Shoe Stretcher

- with locking mechanism, coated

Length	Item-No.
400 mm	165P33



Toe Cap Lifting Tool

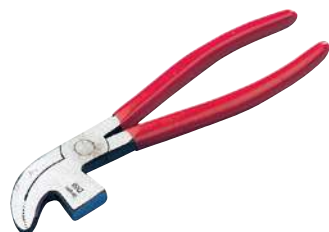
Length	Item-No.
420 mm	165P31



Welt Pincers

- for leather
- steel-forged, plastic coated handles

Length	Item-No.
200 mm	165P4



Hammer Stretching Pliers

- for leather
- steel-forged, plastic coated handles

Length	Item-No.
200 mm	165P7



Holding Forceps

- stainless

Length	Item-No.
250 mm	165P45



Revolving Hole Punch

- forged steel, plastic coated handles, with mini brass anvil
- replaceable hole punches: Ø 1,5 – 2 – 2,5 – 3 – 3,5 – 4 mm

Length	Item-No.
245 mm	165P3



Replacement Spring

- for item 165P3

Item-No.
165P3/F



Hole Punch Tube

- for item 165P3

Hole ø	Item-No.
1,5 mm	165P3/1,5
2,0 mm	165P3/2,0
2,5 mm	165P3/2,5
3,0 mm	165P3/3,0
3,5 mm	165P3/3,5
4,0 mm	165P3/4,0
4,5 mm	165P3/4,5
5,0 mm	165P3/5,0



Hole Punch Tube Set

- for item 165P3
- hole punch tube with \varnothing 1,5 – 2 – 2,5 – 3 – 3,5 – 4 mm

	Item-No.
	165P3/S



Brass Anvil

- for item 165P3

	Item-No.
	165P3/A



Revolving Hole Punch

- plastic coated handles
- mini brass anvil and hole punches: \varnothing 2 – 2,5 – 3 – 3,5 – 4 – 5 mm

Length	Item-No.
240 mm	165P1



Spring Clamp

- zinc-plated with plastic insert

Length	Item-No.
110 mm	164P16/110
155 mm	164P16/155



Pricker

- CV-steel, shock-resistant with plastic handle

Length	Item-No.
140 mm	173P6

Engineers' File – Flat



- without handle

Dimensions	Cut	Item-No.
150 x 16 x 4 mm	1 – fine	177P6/150F
150 x 16 x 4 mm	2 – medium	177P6/150M
150 x 16 x 4 mm	3 – coarse	177P6/150G
200 x 20 x 5 mm	1 – fine	177P6/200F
200 x 20 x 5 mm	2 – medium	177P6/200M
200 x 20 x 5 mm	3 – coarse	177P6/200G
250 x 25 x 6,3 mm	1 – fine	177P6/250F
250 x 25 x 6,3 mm	2 – medium	177P6/250M
250 x 25 x 6,3 mm	3 – coarse	177P6/250G
300 x 30 x 7 mm	1 – fine	177P6/300F
300 x 30 x 7 mm	2 – medium	177P6/300M
300 x 30 x 7 mm	3 – coarse	177P6/300G

Engineers' File – Half Round



- without handle

Dimensions	Cut	Item-No.
150 x 16 x 5 mm	1 – fine	177P7/150F
150 x 16 x 5 mm	2 – medium	177P7/150M
150 x 16 x 5 mm	3 – coarse	177P7/150G
200 x 21 x 6 mm	1 – fine	177P7/200F
200 x 21 x 6 mm	2 – medium	177P7/200M
200 x 21 x 6 mm	3 – coarse	177P7/200G
250 x 25 x 7 mm	1 – fine	177P7/250F
250 x 25 x 7 mm	2 – medium	177P7/250M
250 x 25 x 7 mm	3 – coarse	177P7/250G
300 x 30 x 9 mm	1 – fine	177P7/300F
300 x 30 x 9 mm	2 – medium	177P7/300M
300 x 30 x 9 mm	3 – coarse	177P7/300G

Engineers' File – Round



- without handle

Length x ø	Cut	Item-No.
150 x 6,3 mm	1 – fine	177P8/150F
150 x 6,3 mm	2 – medium	177P8/150M
150 x 6,3 mm	3 – coarse	177P8/150G
200 x 8 mm	1 – fine	177P8/200F
200 x 8 mm	2 – medium	177P8/200M
200 x 8 mm	3 – coarse	177P8/200G
250 x 10 mm	1 – fine	177P8/250F
250 x 10 mm	2 – medium	177P8/250M
250 x 10 mm	3 – coarse	177P8/250G
300 x 12,5 mm	1 – fine	177P8/300F
300 x 12,5 mm	2 – medium	177P8/300M
300 x 12,5 mm	3 – coarse	177P8/300G

Engineers' File – Triangular



- without handle

Length x ø	Cut	Item-No.
150 x 11 mm	1 – fine	177P9/150F
150 x 11 mm	2 – medium	177P9/150M
150 x 11 mm	3 – coarse	177P9/150G
200 x 14 mm	1 – fine	177P9/200F
200 x 14 mm	2 – medium	177P9/200M
200 x 14 mm	3 – coarse	177P9/200G
250 x 17 mm	1 – fine	177P9/250F
250 x 17 mm	2 – medium	177P9/250M
250 x 17 mm	3 – coarse	177P9/250G

Engineers' File – Square



- without handle

Length x ø	Cut	Item-No.
150 x 6,3 mm	1 – fine	177P4/150F
150 x 6,3 mm	2 – medium	177P4/150M
150 x 6,3 mm	3 – coarse	177P4/150G
200 x 8 mm	1 – fine	177P4/200F
200 x 8 mm	2 – medium	177P4/200M
200 x 8 mm	3 – coarse	177P4/200G
250 x 10 mm	1 – fine	177P4/250F
250 x 10 mm	2 – medium	177P4/250M
250 x 10 mm	3 – coarse	177P4/250G
300 x 12,5 mm	1 – fine	177P4/300F
300 x 12,5 mm	2 – medium	177P4/300M
300 x 12,5 mm	3 – coarse	177P4/300G

Cabinet File – Coarse



- without handle

Dimensions	Item-No.
250 x 31,5 x 5,3 mm	177P10/250
300 x 35,5 x 6 mm	177P10/300

Shoemaker's Rasp



- granular, sharp and deep cut

Length	Item-No.
225 mm	177P1/225

Cabinet Rasp – Smooth



- without handle

Dimensions	Cut	Item-No.
200 x 21 x 7,5 mm	1 – fine	176P4/200F
250 x 25 x 8,5 mm	1 – fine	176P4/250F
300 x 34 x 8 mm	1 – fine	176P4/300F
200 x 24 x 5 mm	2 – medium	176P4/200M
250 x 29 x 6 mm	2 – medium	176P4/250M
300 x 29 x 8 mm	2 – medium	176P4/300M

Wood Rasp – Flat



- without handle, cut 2 – medium

Dimensions	Item-No.
200 x 20 x 5 mm	176P1/200M
250 x 25 x 6,3 mm	176P1/250M
300 x 30 x 6,3 mm	176P1/300M



Wood Rasp – Half-Round

- without handle

Dimensions	Cut	Item-No.
200 x 20 x 5 mm	2 – medium	176P2/200M
200 x 20 x 5 mm	3 – coarse	176P2/200G
250 x 25 x 7 mm	2 – medium	176P2/250M
250 x 25 x 7 mm	3 – coarse	176P2/250G
300 x 30 x 6,3 mm	2 – medium	176P2/300M
300 x 30 x 6,3 mm	3 – coarse	176P2/300G



Wood Rasp – Round

- without handle, cut 2 – medium

Ø	Length	Item-No.
8 mm	200 mm	176P3/200M
10 mm	250 mm	176P3/250M



File Handle

- beech wood

For file length	Length	Item-No.
up to 100 mm	80 mm	177P3/80
100 – 175 mm	100 mm	177P3/100
150 – 250 mm	110 mm	177P3/110
150 – 300 mm	120 mm	177P3/120
200 – 300 mm	130 mm	177P3/130
250 – 350 mm	140 mm	177P3/140



File Handle

- blue plastic

For file length	Item-No.
100 – 150 mm	176P5/1
150 – 250 mm	176P5/2
250 – 300 mm	176P5/3



File Brush

Width	Length	Item-No.
40 mm	250 mm	178P20



Firmer Gouge

- white beech wood handle, Wolfram-Vanadium-Steel

Width	Item-No.
6 mm	159P10/6
8 mm	159P10/8
10 mm	159P10/10
12 mm	159P10/12
16 mm	159P10/16
20 mm	159P10/20



Bevelled Edge Chisel

- white beech wood handle, Wolfram-Vanadium-Steel

Width	Item-No.
6 mm	159P12/6
8 mm	159P12/8
10 mm	159P12/10
12 mm	159P12/12
16 mm	159P12/16
20 mm	159P12/20



Warding File Set

- in plastic case

Length	Item-No.
100 mm	177P5



Surform File

Length	Shape	Item-No.
440 mm	Flat	158P2/F
440 mm	Flat/fine	158P20/F
440 mm	Half-Round	158P2/HR
400 mm	Round	158P2/R



Replacement Blade

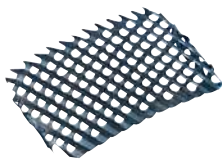
- for surform file 158P20 and 158P2, length 250 mm

Shape	Item-No.
Flat/fine	158P21/F
Flat	158P3/F
Half-Round	158P3/HR
Round	158P3/R



Surform Scraper

Length	Shape	Item-No.
180 mm	Flat	158P1



Replacement Blade

- for surform scraper

L x W	Shape	Item-No.
60 x 45 mm	Flat	158P1/E



Rotary Cutter

- cuts textile and liner material without difficulty
- the rotary blade facilitates contouring accuracy
- blade diameter 45 mm

Item-No.
166P55



Replacement Blade

- for item 166P55

Cut of blade	Diameter	Item-No.
straight	45 mm	166P55/1



Leather Knife

- cambered blade

Length	Item-No.
260 mm	160P2



Leather Knife

- tapered blade

Length	Item-No.
250 mm	160P3



Leather Knife

- skew blade

Length	Item-No.
260 mm	160P4



Quarter Moon Knife

Length	Item-No.
210 mm	160P5



Half Moon Knife

Length	Item-No.
190 mm	160P6



Leather Knife

- narrow, blade adjustable inside wood handle

Length	Item-No.
200 – 290 mm	160P7



Leather Knife

- broad, blade adjustable inside wood handle

Length	Item-No.
200 – 290 mm	160P8

 A spare blade for this item is available under Item-No. 160P8/E.



Neopolene Knife

- with plastic handle

Length	Item-No.
315 mm	160P11



Ordinary Knife

- with wooden handle

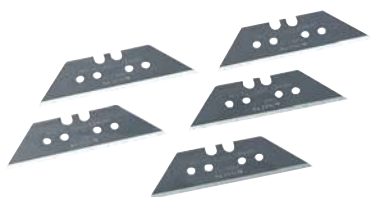
Length	Item-No.
240 mm	160P18



Universal Knife

- incl. 3 spare blades
- metal handle

Length	Item-No.
150 mm	160P13



Trapezium Blades

- replacement blades for item 160P13
- PU = 5 pieces

Item-No.
160P14



Scalpel

- sterile
- with plastic handle
- PU = 10 pieces

Item-No.
160P100



Trimming Knife

- plastic coated handle, blade replaceable, with protective cap

Length	Item-No.
160 mm	160P50



Replacement Blade

- for item 160P50
- PU = 10 pieces

Item-No.
160P51



Draw Knife

Length	Item-No.
250 mm	160P10



Special Plaster Knife

- stainless

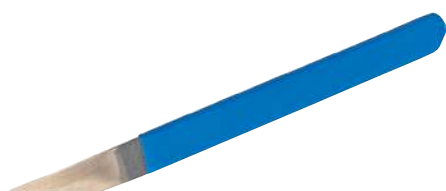
Length	Item-No.
180 mm	160P9



Plaster Knife „Esmarch“

- stainless steel

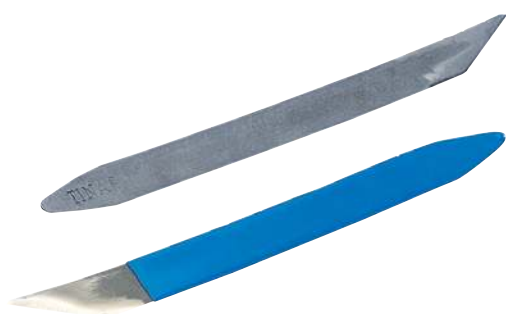
Length	Item-No.
180 mm	160P12



Cobbler's Knife „Tina“

- plastic coated, straight blade

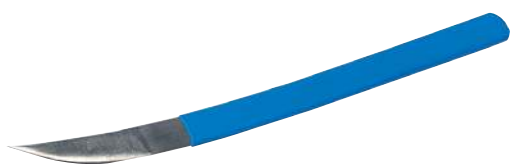
L x W	Item-No.
230 x 12 mm	160P19
240 x 23 mm	160P1



Shoemaker's Knife „Tina“

- plastic coated, slightly bent blade

L x W	Item-No.
270 x 23 mm	160P16
270 x 23 mm (for left handers)	160P16/L



Skiving Knife

- plastic coated, bent blade

L x W	Item-No.
230 x 18 mm	160P17



Cobbler's Knife „Tina“

- brass handle and adjustable blade

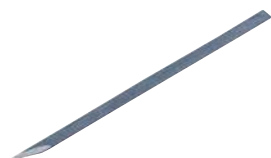
Length	Item-No.
160 mm	160P15



Cobbler's Knife „Tina“

- with thorn, brass handle and adjustable blade

Length	Item-No.
160 mm	160P15/D



Replacement Blade

- for cobbler's knife 160P15 and 160P15/D

Length	Item-No.
145 mm	160P15/E



Insole Knife

- with handle, length 160 mm

Version	Item-No.
	157P11
for left handers	157P11/L



Walt Cutter

- with handle, length 160 mm

Version	Item-No.
	157P10
for left handers	157P10/L



Sharpening Steel

- with handle made of wood

Length	Item-No.
315 mm	160P20



picture similar

Grind Stone, rough/smooth

- bottom: standard corundum grit 100
- top: special fused alumina grit 280/320

W x D x H	Item-No.
150 x 50 x 25 mm	160P22



Grind Stone

Item-No.
160P23



Wire Brush

- 3 rows, made of steel wire

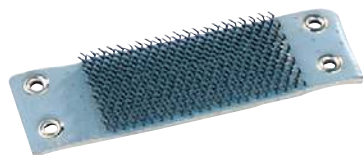
Length	Item-No.
300 mm	178P25



Brush Up Tool

- cambered, with claw mark

Length	Item-No.
200 mm	158P4



Replacement Claw Mark

- with 4 eyelets

Length	Item-No.
100 mm	158P4/E



Deburring Knife

- adjustable with one blade
- blade holder, handle-Ø 3,2 mm

Length	Item-No.
150 mm	160P24



Deburring Blades

- for deburring knife 160P24
- handle-Ø 3,2 mm
- PU = 10 pieces

Item-No.
160P24/E



Replacement Blades

- for deburring knife 160P25
- handle-Ø 2,6 mm
- PU = 10 pieces

Item-No.
160P25/E



Deburring Knife

- durable deburring knife with plastic shaft and straight ceramic blade
- particularly suitable for deburring plastics and soft metals
- in the back of the shaft is a blade magazine for spare blades

Range of Application

- deburring edges
- smoothening surfaces
- removing injection points and separator lines of injection moulding tools

	Item-No.
	160P55

U Advantage compared to metal blades: Metal blades are mostly too sharp for soft plastics. This leads to unwanted damage of the material.



Spare Blade for Deburring Knife

	Item-No.
	160P55/E



Manual Countersink Set

- with handle, ratchet holder, HSS
- including 2 x countersink (Ø 12 mm and Ø 20 mm), 90°

	Item-No.
	160P27



Replacement Countersink

- for item 160P27

Diameter	Item-No.
12 mm	160P27/E12
20 mm	160P27/E20



Scissors

- nickel-plated

Length	Item-No.
170 mm	166P5/170

Scissors



- stainless steel, with plastic handles

Length	Item-No.
200 mm	166P7/200
250 mm	166P7/250

Tailor's Scissors



- coated handles

Length	Item-No.
200 mm	166P4/200
200 mm (for left handers)	166P4/L200
230 mm	166P4/230
250 mm	166P4/250
250 mm (for left handers)	166P4/L250
280 mm	166P4/280
300 mm	166P4/300

Shoe Makers Scissors



- bent

Length	Item-No.
180 mm	166P3/180

Trimming Scissors



- lower blade with fine teeth

Length	Item-No.
210 mm	166P40



Trimming Scissors

- micro-teeth for Carbon-Kevlar fibres

Length	Item-No.
265 mm	166P8



Sewing Scissors

- pointed, straight

Length	Item-No.
115 mm	166P16



Pinking Shear

- plastic handles

Length	Item-No.
220 mm	166P6/220



Leather Shear

- with straight blades, coated handles

Length	Item-No.
240 mm	166P1/240



Leather Shear

- straight, coated handles

Length	Item-No.
220 mm	166P2/220



Upper Leather Shear

- straight, forged steel, with smooth blade

Length	Item-No.
180 mm	166P21/180



Casting Room Scissors

- plastic handles

Length	Item-No.
180 mm	166P10



Bandage Scissors

- bent

Length	Item-No.
145 mm	166P12
145 mm (for left handers)	166P12/L



Plaster Scissors, model „Bruns“

- stainless steel, serrated, 240 mm length

Blade	Item-No.
serrated	166P13
non-serrated	166P14



Bandage Scissors „Bergmann“

- smooth, stainless steel

Length	Item-No.
230 mm	160P30



Bandage Scissors „Lister“

- stainless

Length	Item-No.
140 mm	166P9/140
200 mm	166P9



Bandage Scissors „Lister“

- stainless, for left-handed persons

Length	Item-No.
140 mm	166P9/L



Plaster Scissors

- stainless

Length	Item-No.
200 mm	166P11



Plaster Scissors „Stille“

- stainless

Length	Item-No.
260 mm	166P15



Junior Hacksaw

- with blade

Length	Item-No.
290 mm	159P1



Replacement Blade

- for item 159P1

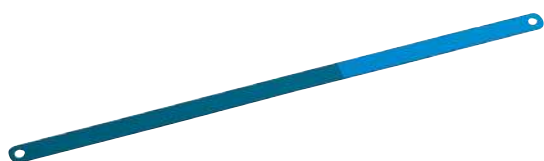
Length	Item-No.
150 mm	159P1/E



Hacksaw Frame

- with solid steel bow
- synthetic handle
- bi-metal saw blade

Length of saw blade	Total length	Item-No.
300 mm	520 mm	159P13



Replacement Blade

- for items 159P3 and 159P13
- length: 300 mm, 24 teeth /"

Features	Item-No.
Tungsten-alloyed tool steel, double-sided	159P13/E
Spring steel, set of teeth HSS, completely hardened through, one-sided	159P3/D
Bimetal, set of teeth HSS, hardened, one-sided	159P3/E



Back Saw

- straight

Length	Item-No.
250 mm	159P2



Back Saw

- cranked

Length	Item-No.
250 mm	159P40



Back Hand Saw

- with handle made of wood
- universal teeth

Length	Item-No.
400 mm	159P6



Screw Clamp

- cast iron clamp arm, wooden handle, steel slide rail

Clamp range x throat	Item-No.
160 x 80 mm	164P21/160
200 x 100 mm	164P21/200
250 x 120 mm	164P21/250
300 x 140 mm	164P21/300
400 x 175 mm	164P21/400
500 x 120 mm	164P21/500



Pin Wrench

- adjustable with handle

Length	Item-No.
235 mm	165P5



Socket Wrench

- coated, square 12 mm

Length	Item-No.
100 mm	165P6



Knee Axis Key

- zinc-plated steel
- with handle

Item-No.
165P8



Contouring Iron

- CV-steel, square edge

Opening	Length	Item-No.
4 + 6 mm	250 mm	165P60
6 + 8 mm	250 mm	165P61
7 + 9 mm	250 mm	165P62



Contouring Iron

- CV-steel, round edge

Opening	Length	Item-No.
4 + 6	265 mm	165P65
6 + 8	265 mm	165P66
7 + 9	265 mm	165P67



Flat Contouring Iron

- zinc-plated

Length	Item-No.
500 mm	165P69



Double Open End Spanner Set

- CV-steel, chrome-plated, 8-part, 6 – 22 mm
- 6/7 – 8/9 – 10/11 – 12/13 14/15 – 16/17 – 18/19 – 20/22 mm

Item-No.
165P70



Double Ring Spanner Set

- CV-steel, chrome-plated, 8-part, 6 – 22 mm
- 6/7 – 8/9 – 10/11 – 12/13 – 14/15 – 16/17 – 18/19 – 20/22 mm

	Item-No.
	165P71



Ring/Open End Spanner Set

- CV-steel, chrome-plated, 9-part, 6 – 19 mm
- 6/6, 7/7, 8/8, 10/10, 11/11, 13/13, 14/14, 17/17, 19/19 mm

	Item-No.
	165P72



Sheet Metal Shear

- special steel, plastic coated handles

Length	Item-No.
300 mm	165P50



Metal Shear

- for hard metals up to 1,2 mm thickness, plastic coated handles

Length	Item-No.
260 mm	165P51



Pipe Cutter

- for pipes \varnothing 3 – 35 mm

	Item-No.
	158P10

without picture

Replacement Blade

- for item 158P10

Item-No.
158P10/E



Pipe Deburrer

- for inner and outer deburring works
- for pipes with \varnothing 3 – 42 mm

Item-No.
158P11



Glue Container

- made of plastic, incl. brush for glue and paint

Litre	Item-No.
0,45	164P11/045
0,9	164P11/090
1,5	164P11/150



Replacement Brush

- for item 164P11

For item	Version	Item-No.
164P11/150	large	164P12/G
164P11/090	large	164P12/G
164P11/045	small	164P12/K



Talcum Powder Container

- made of plastic, content: approx. 300 ml

Item-No.
164P33



Oil Can

- made of plastic
- with built-in brass pump
- content 300 ml

	Item-No.
	164P30



Bevelling Tool

- for leather, blade reversible

Width	Item-No.
1 + 3 mm	157P8/13
2 + 4 mm	157P8/24



Folding Stick

- made out of bones
- pointed

Length	Item-No.
160 mm	163P10/K
180 mm	163P10/L



Creasing Wood

- with bone guides

Length	Item-No.
200 mm	163P22



Tracing Wheel

- with plastic handle and hardened steel spikes

Length	Item-No.
160 mm	163P25



Tailor's Chalk

Colour	Item-No.
white	163P26



Hand Vice

- drop-forged

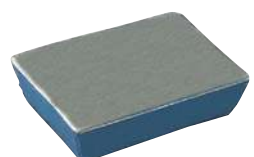
Width	Item-No.
40 mm	164P19/40
42 mm	164P19/42



Hand Vice

- steel-forged

Jaw width	Jaw length	Item-No.
25 mm	125 mm	164P20/25
30 mm		164P20/30
35 mm	150 mm	164P20/35



Lead Block

Weight	Item-No.
5 kg net	164P14



Riveting Bar

- with rivet-hole, forged metal, 680 mm length

Version	Item-No.
without rivet hole	164P17
with rivet hole	164P18



Awl Handle

- screw-type locking

Length	Item-No.
110 mm	157P4



Awl Handle

- flat, with push pin

Length	Item-No.
80 mm	157P5/80



Bradawl

- sword shape
- PU = 10 pieces

Length	Item-No.
50 mm	157P6/50
60 mm	157P6/60
70 mm	157P6/70



Round Awl

- PU = 10 pieces

Length	Item-No.
50 mm	157P7/50
60 mm	157P7/60
70 mm	157P7/70



Saddler's Needle

- round
- PU = 25 pieces

Length	Item-No.
60 mm	157P1/1
70 mm	157P1/2/0

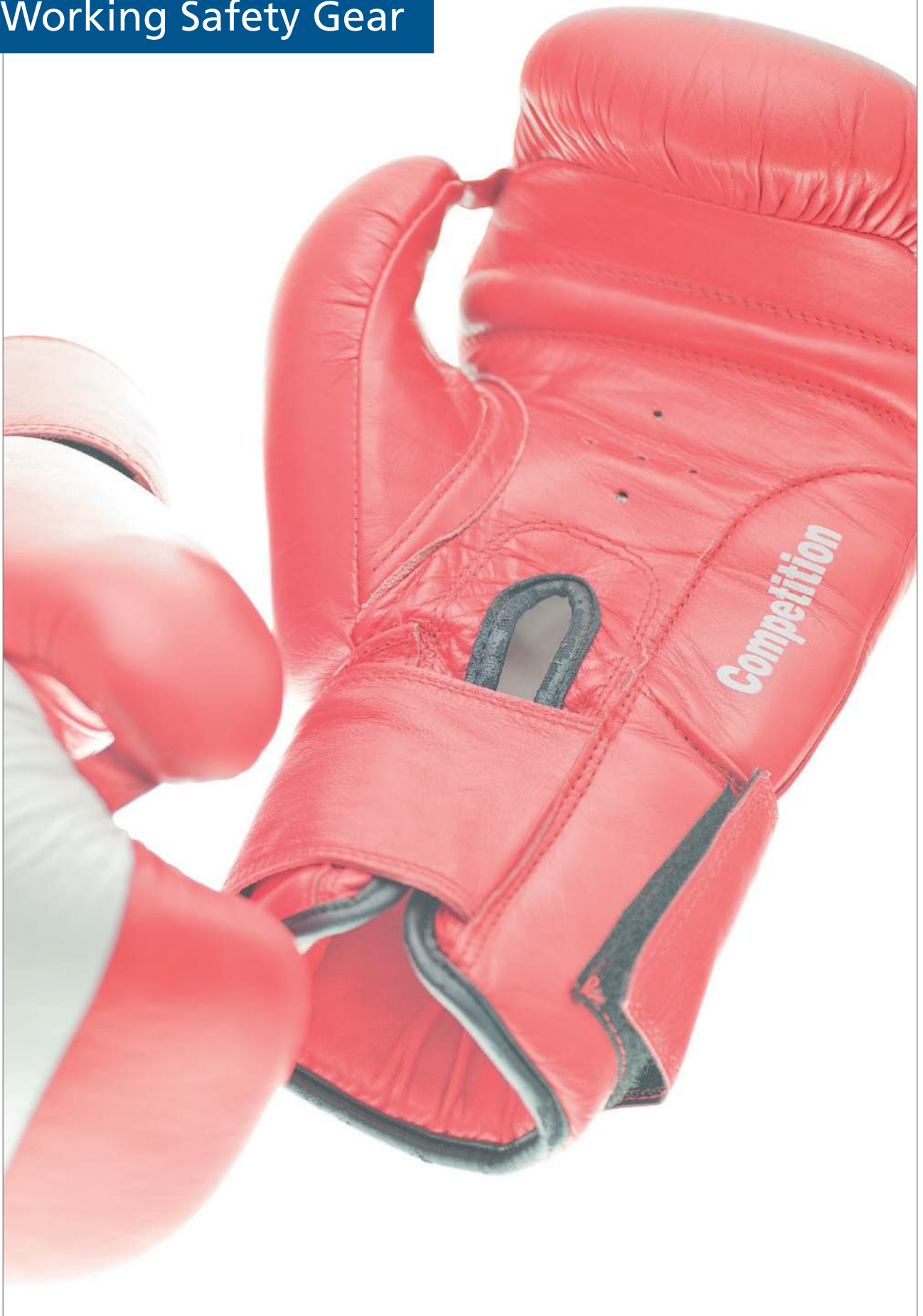


Furrier's Needle

- triangular
- PU = 25 pieces

Length	Item-No.
40 mm	157P2/5
45 mm	157P2/3
50 mm	157P2/1

Working Safety Gear



Working Safety Gear

Every orthopaedic workshop uses materials which are classified hazardous according to the hazardous materials directives. In order to be protected optimally against these health risks, we offer a wide range of protection gear and first-aid products in the next chapter. As healthy employees and safety protection of your eyes, ears, hands and respiratory tract are the assets of every orthopaedic business! Please contact us for further information, we will be happy to assist you!





Company First Aid Box, filled

- company first aid box according to DIN 13157

Dimensions	Item-No.
260 x 160 x 80 mm	13P20



Refill for Company First Aid Box

- for item 13P20
- complete refill for company first aid box according to DIN 13157

Item-No.
13P20/E1



Replacement Set for Company First Aid Box

- for item 13P20
- contains only sterile dressing material and band-aids (=expendable items)

Item-No.
13P20/E2



Eye Wash Station

- eye wash station with special mount for 2 bottles of eye wash 13P26

Technical data

- material: steel sheet
- colour: RAL 9016 white
- dimensions W x D x H: 265 x 105 x 355 mm

Item-No.
13P25

Eye wash station does not include eye wash bottles, if necessary, please order separately under item-no. 13P26.



Eye Wash Bottle Set

- for eye wash station 13P25
- gentle rinse from 6 jet nozzles
- ergonomically shaped, well visible eye support ring for controlled eye rinse
- continuous rinsing period of more than 3 minutes (per 1000 ml-bottle)
- maintenance-free and approx. 3 years shelf life
- according to DIN EN 15 154-4

Scope of supply

- two bottles of 1.000 ml each
- saline solution 0,9 %, sterile

Item-No.

13P26



Fire Blanket made of Glass-Fiber Fabric

- with sewn-on pocket grips
- size: 1800 x 1600 mm

Item-No.

13P30



Wall Mounting for Fire Blanket, empty

- for item 13P30
- red varnish
- size: 300 x 300 x 125 mm

Item-No.

13P31



Disposable Latex Gloves IC

Material

- natural rubber

Application

- examination glove

Characteristics

- non-sterile
- eudermic
- powder-free
- with synthetic internal coating

Size	PU	Item-No.
S = 6 – 7	100 pieces	12P18/S
M = 7 – 8	100 pieces	12P18/M
L = 8 – 9	100 pieces	12P18/L
XL = 9 – 10	90 pieces	12P18/XL



Disposable Latex Gloves

Material

- natural rubber

Application

- examination glove

Characteristics

- non-sterile
- powdered

PU = 100 pieces in a box

Size	Item-No.
S = 6 – 7	12P17/S
M = 7 – 8	12P17/M
L = 8 – 9	12P17/L



Disposable Gloves Nitril, black

Material

- nitrile rubber
- colour: black

Application

- suitable for working with pre-preg or RTV- resp. HTV silicones

Characteristics

- natural rubber (latex)-free
- non-sterile
- powder-free
- skin-friendly

PU = 100 pieces in a box

Size	Item-No.
S = 6 – 7	12P23/S
M = 7 – 8	12P23/M
L = 8 – 9	12P23/L



Chemical Protective Gloves made of Butyl

Material

- made of Butyl rubber, with rolled seam, roughened, powdered

Application

- very good protection against harmful liquids
- temperature flexibility

Characteristics

- very good wearing comfort
- highly resistant to ozone and UV-rays, good mechanical resistance

PU = 1 pair

Size	Item-No.
8	12P8/8
9	12P8/9
10	12P8/10



Chemical Protective Gloves, Nitril

Material

- made of nitril, with cotton velour finishing

Application

- chemical protective gloves

Characteristics

- good resistance against abrasion, puncturing and cuts
- good sense of touch through precise fit
- silicone free, velour finishing

PU = 1 pair

Size	Item-No.
8	12P9/8
9	12P9/9
10	12P9/10



Chemical Protection Gloves

Material

- HPPE-laminate film
- according EN 374 standard; protection category 6

Application

- chemical-resistant foilglove, suitable for processing silicone

Characteristics

- 5-layer
- anatomical shape

PU = 1 pair

Size	Length	Item-No.
6	380 mm	12P22/6
7	380 mm	12P22/7
8	380 mm	12P22/8
9	380 mm	12P22/9
10	410 mm	12P22/10
11	410 mm	12P22/11



Protective Gloves

- leather with fabric
- PU = 1 pair

Item-No.
12P10



Protective Gloves

- leather with fabric
- sturdy version
- PU = 1 pair

Item-No.
12P11



Welding Gloves

- for welding works
- made of leather with sleeves
- length: approx. 35 cm
- PU = 1 pair

Item-No.
12P14



Heat Protective Gloves

- made of „Molton“ fibre
- PU = 1 pair

Item-No.
12P16



Protective Gloves

- without fingers, chrome leather
- PU = 1 pair

Item-No.
12P15

without picture

Cut Protection Gloves

- cut protection gloves made of HPPE-fiber/glass/polyamide with PU-coating
- PU = 1 pair

Size	Item-No.
7	12P6/7
8	12P6/8
9	12P6/9
10	12P6/10


 To be used in metal processing or assembly activities with high risk of cuts (e.g. working with scalpels or knives).



Mechanical Protective Gloves

- made of cotton jersey with Nitril-coating
- high flexibility, warmth-cold-flexibility, highly breathable, robust fabrication
- PU = 1 pair

Size	Item-No.
8	12P7/8
9	12P7/9
10	12P7/10
11	12P7/11

 These protection gloves may be used as an alternative to leather gloves!



Heat Protective Gloves

- made of jersey
- PU = 1 pair

	Item-No.
	12P12



Heat Protective Gloves

- loop webbing
- PU = 1 pair

	Item-No.
	12P13



Protective Goggles

- mist-free, with hard-coated glasses and adjustable, flexible head gear
- PU = 1 piece

Weight	Item-No.
32 g	13P10



without content

Storage Box for Protective Goggles

- storage box for dust proof storage of protective goggles
- fast access and good visibility from outside
- either permanently mountable to the wall or removable with wall holder

Outer dimensions	Inner dimensions	Colour	Item-No.
200 x 185 x 90 mm	165 x 110 x 70 mm	blue/transparent	13P17




Double Filter – Half Mask

- mask body made of silicone
- incl. 2 combination filters, filter category A2P3
- size M

	Item-No.
	13P14

Other filter categories available upon request.

 Replacement combination filters are available under item-no. 13P14/F1.



Respirator Mask

- particle filter class FFP1
- PU = 20 pieces

	Item-No.
	13P12



Respirator Mask

- with exhalation valve, particle filter class FFP 2
- PU = 10 pieces

	Item-No.
	13P11



Ear Protector ABS

- with head gear, light and comfortable, excellent sound protection
- soft cushioning pads


	Item-No.
	13P15

Clamp Ear Protection



- clamp ear protection with low contact pressure for highest comfort
- ideal for changing levels of noise pollution
- extremely elastic clamps

Item-No.
13P16

 Spare plugs available in bags with 10 pairs (item-no. 13P16/E).

Face Shield



- with polycarbon glass shield, comfortable wear, size adjustment with turn-lock nut

Item-No.
13P7

Replacement Shield



- for item 13P7, polycarbon glass

Size	Item-No.
540 x 195 mm	13P8

Welding Shield



- incl. exchangeable glasses, with handle (protection class DIN 9 A)

Item-No.
12P55

Replacement Glass



- for welding shield 12P55

Glass type	Item-No.
Supplementary glass clear	12P56
DIN 9A Athermal glass	12P57



Welding Apron

- chrome leather, adjustable belt
- PU = 1 piece

Size	Colour	Item-No.
800 x 1000 mm	grey-white	12P50

Plaster Apron

- fibre reinforced
- PU = 1 piece



Size	Colour	Item-No.
85 x 100 cm	white	12P20

Little ABC's of Orthopaedics

- A** **Abdomen** – area of the body between chest and pelvis
Abdominal – relating to the abdomen
Abduction – movement of a body part away from the midline of the body
Acetabulum – concave pelvic component of the hip joint receiving the femoral head
Adduction – movement of a body part towards the midline of the body
Alternating – exchanging, altering
Amelia – complete absence of one or several extremities
Anatomy – science of structure of organisms
Anesthesia – loss of feeling or sensation/narcosis
Anterior – front
Anteversion – forward tilt of a body part
Antivarus – against varus malalignment
Aponeurosis – a fibrous sheet of tissue by which certain muscles are attached to bones
Articulation, articulating – a joint, concerning a joint
Atrophy, to atrophy – shrinkage, wastage of biological tissue (e. g. muscle atrophy)
Axilla, axillary – the armpit, relating to the armpit
- B** **Bandage, to bandage** – wrapping, dressing; sense of: elastic support, applying bandages, taping
Biceps – two headed (e. g. biceps muscle)
Bow-leg – varus malalignment of the longitudinal axis of the leg
- C** **Calcaneus** – heel bone
Capsular – retaining to an articular capsule
Catalyser – chemical agent causing a chemical reaction (e. g. hardening powder, -paste)
Caudal – towards the tail, below, backside
Cerebrum, cerebral – the major part of the brain, occupying the upper part of the cranium, pertaining to the cerebrum
Cervical (cervical-region) – pertaining to the neck area
Chronic – long term (disease; opposite of acute)
Condyle, condylar – joint head, pertaining to the joint head
Congruence, congruent – match, matching, identical
Concave – hollow, curved inwards
Conservative – conciliatory, maintaining, in the sense of non-surgical
Constitution – physical shape
Contraction, to contract – tightening, shortening of soft tissue with joint malposition
Contralateral – reciprocal, located on the other side of the body
Contusion – bruise
Convex – curved to the front or outside

Little ABC's of Orthopaedics

- C** **Claw foot** – flexion contraction of the toes
 - Cranial** – head, above
 - Cyst** – abnormal, closed sac-like structure within a tissue that contains a liquid, gaseous, or semisolid substance (e. g. Baker's-cyst in the back of the knee)

- D** **Decubitus, decubital** – pressure damage, pressure sore
 - Derotation** – correctional rotation
 - Detorsion** – back rotation, correctional rotation (e. g. detorsion insole)
 - Dexter** – right
 - Diagnosis, to diagnose** – searching and finding a cause and details of disease
 - Digital** – pertaining to finger or toe
 - Digitus** – finger or toe
 - Dislocation, dislocate** – shift, to shift
 - Distal** – away, away from body
 - Distorsion** – sprained, twisted (e. g. joints)
 - Dorsal** – back side
 - Duroplast** – synthetic material, which is, once it has hardened, not mouldable anymore by heat

- E** **Endogenous** – caused by inner reasons
 - Et** – and
 - Exogenous** – caused by outer reasons
 - Extension** – stretching, extension of a body part
 - Extra** – beyond
 - Extremities** – limbs

- F** **Fascia** – covering around muscles and tendons
 - Femur** – bone that extends from the pelvis to the knee
 - Fixation, fixed** – position that cannot be altered passively
 - Flexion** – bending a joint (opposite of extension)
 - Fracture** – break in a bone
 - Frontal** – to the front (front surface)

- G** **Gibbus** – curve in the spine causing a bump or hump on the back, strong kyphotic spine deformation
 - Gluteus, gluteal** – buttocks muscle, pertaining to buttocks
 - Gocht manoeuvre** – special technique to mold the plaster-cast for the ischium bar
 - Gonarthrosis, gonitis** – inflammation of the knee joint

Little ABC's of Orthopaedics

H Haematoma – bruise

Hallux – big toe

Hammer toe – flexed contraction position of a toe in the middle or end joint during dorsal tilting of the metacarpophalangeal joint

Heidelberg angle – AFO (ankle foot orthosis to lift the forefoot)

Hemi – half

Heterogenous – mixed combination, disparate

Hinge joint (*Articulatio ginglymus*) – single-axle joint (e. g. finger joint)

Hyper lordosis – lumbar lordosis, hollow back

Homogenous – uniform, congeneric

Hyper – prefix: more than the norm

Hypo – prefix: less than the norm

I Idiopathic – spontaneous, independent, starting without known reason (e. g. idiopathic scoliosis)

Immobilization, to immobilize – to prevent motion of a joint or segment

Incongruity, incongruent – mismatch, mismatched

Incontinence – inability to control urination or defecation

Indication, to indicate – advice, necessity, to advise, make something necessary

Infra – under or below

Initial – beginning

Insert – orthopaedic foot support, foot cushion for customized shoes

Instability, instable – missing stability, loose

Insufficiency, insufficient – functional weakness, inadequate

Interim treatment – temporary, tentative treatment before the final treatment

Irreversible – final, permanently

Ischium, ischial – seat bone, pertaining to the seat bone

Ischium bar – support point of the seat bone in prostheses or orthoses

K KBM (abbreviation) – Kondylen Bettung Münster

Knee cap – molded knee brace made of textile rubberlike fabric

Kyphosis – rather flat backward bent scoliosis

L Lesion – injury

Level Pelvis – aligned pelvis

Lateral – away from the center

Ligament, ligamentary – band of fibrous tissue connecting bones, concerning the ligaments

Longuette – oblong reinforcing material, usually several layers (e. g. plaster bandage)

Luxation, to luxate – sprain, to sprain

Little ABC's of Orthopaedics

- M** Medial – inside, center, toward the mid-line
Metatarsal – long bones between the tarsal bones and the toes
Modular system – orthopaedic aid or prosthesis construction with various finished components (modular concept)
Morbus – disease, ailment
- N** Naviculare – short term for os naviculare = navicular bone of foot (or hand – scaphoid bone)
Necrosis – necrotic – dead tissue, mortified
Neuropathy, neuropathic – nervous disorder, nervous affection
- O** Oedema, oedematic – swelling, swollen
Orthosis – splint, brace device, corset, support
Orthopaedics – science of recognition and treatment of inherent or acquired defects of the musculoskeletal system (orthos = straight, right and paedia = childhood)
Orthoprosthesis – construction of a proximal orthotic element and a distal prosthetic element
Ossification, osseous – bone formation, bony
Osteomyelitis – infection of bone and bone marrow
Osteosynthesis – connection of two or more bones by means of metal plates, screws, nails or wires
- P** Pad – upholstering device in an orthosis or shoe
Palma, palmar – inner hand surface, pertaining to the inner hand surface
Palpation, to palpate – examination by touching with the hand
Paralysis, paralytic – loss of motor function, lame (only in the sense of limpness)
Paresis, paretic – loss of motor function (limp or spastic)
Patella – kneecap
Pathological – unnatural, abnormal, morbid
Pelvic obliquity – misaligned pelvis, asymmetrical pelvis height (e. g. caused by unequal leg length)
Periphery, peripheral – outer region, outside (e. g. peripheral arterial disease = PAD)
Peroneus, peroneal – retaining to the calf–bone (e. g. nervus peroneus communis)
Peroneus–spring – ankle–foot orthosis to lift and guide the foot in case of limpness/loss of control
Pes – foot
Pes adductus – forefoot inverted, adducted, medially misaligned forefoot–position
Pes calcaneus – walking on the heel (steep slope position of the forefoot)
Pes cavus – contracted foot (excessive longitudinal arch of the foot)
Pes equinus – pointed foot (excessive plantar flexion of the whole foot)
Pes equinus varus adductus – club foot (combined malposition of the foot)
Pes planus – flat foot (collapsed medial arch)
Pes planus valgus – knock-flat foot (collapsed medial arch with kinked lower ankle joint)

Little ABC's of Orthopaedics

- P** **Plantar** – pertaining to the foot sole
Poliomyelitis – paralysis caused by the polio virus infecting the anterior horn cells of the spinal cord
Pollex – thumb
Poly – prefix: multi, several
Post – prefix: after, behind
Posterior – behind, toward the back of...
Postoperative post op – after surgery
Pre – prefix: before, prior to
Pressure lesion – surface damage of skin and tissue due to extensive pressure exposure
Prevention – precaution
Prognosis, prognostic – preview, expected
Progredience, progredient – progression (of disease), advancing
progressive – advancing
Prominence, prominent – protrusion, protruding
Pronation – rotation of hand or foot in long axis facing outwards or dorsally
Prophylaxis, prophylactic – prevention, preventive
Prosthesis – externally applied device used to replace wholly, or in part, an absent or deficient limb segment
Proximal – nearest to the trunk; towards the trunk
Pseudo arthrosis – non-union of a fractured bone
PTB – (abbreviation) – patella tendon bearing = patella tendon – load principle
PTS – (abbreviation) – PTB–supracondylar prosthesis = lower leg prosthesis, reaching over femurcondyles
- Q** **Quadriceps** – short for Musculus quadriceps = four headed muscle in the anterior thigh
Quengel Hinged Brace – joint bending or stretching brace with hinges
- R** **Radius** – spoke bone, one of the forearm bones
Recidivism, recidiving – relapse, recurrence (of a disease), relapsing
Reclination, to reclinate – backward tilt, to tilt backwards
Redression, to redress – to force or bend back
Rehabilitation, to rehabilitate – enabling persons with disabilities to reach and maintain their optimal sensory, intellectual, psychiatric and/or social functional levels
Retroversion – backward turn
Reversible – convertible
Rotation, to rotate – turn, turning

Little ABC's of Orthopaedics

- S** **Sagittal** – following the arrow, straight direction
- Saddle joint (articulatio sellaris)** – double-axis joint (e. g. thumb saddle joint Carpometacarpal-I-joint)
- Shore-hardness** – measuring unit for the degree of hardness of elastic materials
- Sinister** – left
- Scoliosis, scoliotic** – lateral deviation of the spine and rotation of the vertebrae around the long axis of the spine
- Spasticity, spastic** – cramping, cramped
- Spina, spinal** – referring to the spine (vertebral column)
- Spondyle** – retaining to the spine (e. g. spondyle arthrosis = arthrosis of the vertebral joints)
- Subductus** – laying underneath (e. g. digitus subductus = toe, laying crossed underneath)
- Subluxation** – partial dislocation of a joint
- Superductus** – laying over (e. g. digitus sperductus = toe, laying over dorsally)
- Supination** – rotation of hand or foot around long axis with palm forward or foot inward
- Supination wedge** – medial or inner elevation of an orthopaedic insole
- Supra** – prefix: upper, above
- Swiss cam lock / Swiss lock system** – detention of a splint joint (e. g. of an orthotic brace)
- Symphysis** – pubic symphysis, midline cartilaginous pubic bone connection (synchondrosis)
- Symptom, symptomatic** – sign, Indication of a disease, indicating a disease
- Syndesmosis** – slightly movable articulation where the contiguous bony surfaces are united by an interosseous ligament
- Syndrome** – disease pattern
- Synostosis** – bony fusion between two bones

- T** **Talus** – bone that articulates with the tibia and fibula to form the ankle joint
- Tarsus, tarsal** – heel part of the foot, pertaining to the heel part of the foot
- Thermoplast** – plastic material re-shapeable under heat application
- Three-point-correction principle** – correctional therapy by leverage effect with surface pressure-application at three contact points
- Thomas splint** – a long leg relief splint that extends from a ring at the hip to beyond the foot, e. g. for aseptic hip joint necrosis
- Tonus** – tension condition of muscles
- Torsion** – twisting
- Trochanter** – muscle insertion point, bony protrusion lateral-proximally at the femur
- Tuber** – hunch, knob (e. g. tuber ischiadicum)
- Tuberosity** – bony protrusion, muscle insertion/fixation point

- U** **Ulna** – inner and longer of the two bones of the forearm

Little ABC's of Orthopaedics

- V** **Valgus** – X-shaped joint alignment
- Varicosis** – disease of the veins, varication
- Varices** – distended veins
- Varus** – O-shaped joint alignment
- Ventral** – relating to or situated on or close to the abdomen; abdominal, front
- Vertex** – centre of a curve, maximum of a curve
- Volar** – relating to the palm of the hand
- V2A-steel** – stainless steel

- W** **Walking** – milling, softening, staking e. g. orthopaedic leather

Source: "Children's orthopaedic techniques by R. Bernbeck, J. Pramschiefer, H. D. Stolle", published by Thieme, Stuttgart

Explanation of Symbols

Danger Symbols



Flame



Corrosion



Environment



Health hazard



Exclamation mark

Index

1M23	176	13P17	347
1M26	179	13P20	341
2M10	175	13P25	341
2M3	173	13P26	342
2M4	172	13P30	342
2M5	174	13P31	342
2M9	175	13P7	349
3M2/3540	169	13P8	349
3M3	171	15A5	50
3M4/3540	170	16A9	50
3M51	178	20M100	233-234
5M1	270	20M120	235-236
10M10	178	20M140	237-238
10M11	178	20M160	239-241
10M2	205-206	20M200	242
10M20	84-85	20M250	243, 245
10M3	205	20M300	244-245
10M30	207	20M500	246
10M31	208	20M510	246
10M32	207	20M520	246
10M37	203	20M540	247
10M38	204	20M550	245
10M4	205-206	25M100	247, 250
10M5	205	25M125	248
10M6	205-206	25M140	248
10M7	205	25M160	249
10M8	206	25M200	249-250
10M9	206	28M1	251
10P1	19	28M10	251
10P2	19	28M11	252
10P20	20	28M12	252
10P25	20	28M13	251
10P3	19	28M14	252
10P30	20	31M1	143
10P4	19	31M2	143
10P40	20	35M1	143
10P45	20	35M2	144
10P5	19	37P6	277
10P50	20	37P7	277
10P6	19	37P8	268
10P60	20	37P9	160
10P61	20	40M1	81
10P62	20	40M2	82
10P7	19	40M4	83
10P8	19	40M5	80
10P9	19	40M7	83
11M1	177	40M9	84
11M2	178	50E10	108
12P10	345	50E15	94
12P11	345	50E16	95
12P12	347	50E17	93
12P13	347	50E2	95
12P14	345	50E21	95
12P15	346	50E3	94
12P16	346	50E4	94
12P17	343	50E5	93
12P18	343	50E6	94
12P20	350	50E7	93
12P22	345	50E8	95
12P23	343	50E9	95
12P50	225, 350	50M11	128
12P55	224, 349	50M12	134
12P56	224, 349	50M13	134
12P6	346	50M14	134
12P7	346	50M15	134
12P8	344	50M17	134
12P9	344	50M18	136
13P10	347	50M25	134-135
13P11	348	50M3	123
13P12	348	50M4	124
13P14	348	50M5	125
13P15	348	50M51	121
13P16	349	50M52	122

50M52/U.....	123	83M6.....	222
50M6.....	126	83M7.....	221
50M9.....	136	83M8.....	222
51M10.....	127	83M9.....	224
51M12.....	130, 134	85M1.....	225
51M13.....	131, 134	85M2.....	225
51M14.....	132, 134	85M5.....	226
51M15.....	133-134	90E10.....	96
51M17.....	129	90E11.....	98
51M9.....	135	90E14.....	99
55M1.....	121	90E20.....	59, 97
55M2.....	120	90E29.....	96
60E1.....	100	90E30.....	106
60E10.....	100	90E33.....	107
60E11.....	101	90E35.....	107
60E12.....	101	90E50.....	106
60E13.....	101	90M1.....	114
60E14.....	101	90M10.....	66
60E15.....	102	90M11.....	66
60E16.....	102	90M12.....	67
60E17.....	102	90M15.....	67
60E18.....	102	90M16.....	67
60E19.....	103	90M24.....	116
60E2.....	100	90M25.....	116
60E20.....	103	90M26.....	116
60E21.....	104	90M3.....	114
60E22.....	105	90M4.....	115
60E3.....	105	90M6.....	113
60E4.....	104	90M7.....	113
60E5.....	104	92M1.....	117
60E6.....	103	92M10.....	30
60E7.....	103	92M11.....	30
60E8.....	104	92M12.....	30
60E9.....	100	92M13.....	31
67P2.....	282	92M2.....	117
70E2.....	108	92M3.....	118
70M1.....	72-73	92M4.....	120
70M2.....	71	92M5.....	120
70M3.....	71	92M6.....	118
70M4.....	72	92M7.....	119
75E1.....	93	92M8.....	119
75M1.....	34	93M10.....	38-39, 76
75M10.....	227	93M11.....	31, 37
75M11.....	227	93M12.....	31
75M12.....	227	93M13.....	32
75M2.....	35	93M14.....	32
75M3.....	35	93M15.....	31
75M30.....	52	93M17.....	32
75M4.....	36	93M18.....	32
75M5.....	36	93M21.....	37
75M6.....	36	93M3.....	28
75M7.....	35	93M4.....	27
76M1.....	33	93M6.....	28
76M10.....	34	93M7.....	28
76M11.....	34	93M9.....	39
76M2.....	33	94M1.....	29
76M3.....	33	94M2.....	27
76M4.....	33	94M3.....	27
80C10.....	263	95M1.....	29
80M1.....	273	95M2.....	29
80M10.....	270	95M30.....	37
80M11.....	271	96M20.....	85
80M3.....	158	96M21.....	86
80M4.....	269	96M22.....	87
80M7.....	272	96M4.....	90
80M8.....	273	97M1.....	43
83M13.....	223	97M10.....	40, 42
83M14.....	223	97M11.....	42
83M15.....	223	97M12.....	40
83M16.....	223	97M13.....	68
83M20.....	226	97M14.....	68
83M23.....	226	97M15.....	38
83M5.....	221	97M16.....	38

Index

97M2	43	130M8	212
97M20	40	130M9	213
97M25	40	140M1	21
97M3	43	140M12	44
97M5	56-57	140M14	116
97M6	57	140M2	67
97M7	41	140M5	17
97M8	41	140M6	21
97M9	42	140M8	17-18
98P4	63-64	140M9	18
98P5	64	145M10	20
98P6	19	145M11	20
98P8	63	145M12	20
99T5	84	145M20	47
100M2	217	145M21	47
100M3	217	145M23	47
100M4	218	145M24	47
100M6	218	145M25	51
100M7	219	145M26	51
100M8	222	145M3	21
100M9	216	145M30	48
101M1	219	145M40	48
101M3	220	145M50	50
101M4	220	150M1	255
101M5	220	150M2	256
101P14	220	150M3	179
107P1	193	150M6	179
107P10	270	150M7	180
107P11	271	150M8	179
107P21	188	150P1	297
107P22	188	150P2	296
107P28	187	150P3	296
107P29	189	151M1	56
107P30	204	151M10	56
107P31	189	151M11	56
107P32	204	151M14	54-55
107P33	204	151M2	56
107P5	189	151M3	52
107P50	201	151M4	54
107P51	89	151M5	52
107P52	89	151M6	55
107P53	89	151M8	53
107P54	89	151M9	53
107P55	89	151P2	295
107P56	202	151P5	296-297
107P57	208	152P10	295
107P58	202	152P11	295
107P59	203	152P2	293-294
107P60	201	152P3	294
107P61	202	152P4	294
107P62	201	152P5	298
107P63	204, 208	152P6	295
107P70	205	152P7	297
107P8	188	152P9	294
108P1	215-216	153P11	298
108P12	213	153P12	298
108P2	215	154P11	299-300
108P3	214	155M1	252
108P4	214	155M10	253
110M4	200	155M15	254
110M5	201	155M16	255
110M7	200	155M2	255
116P15	55	155M3	253
117P25	152	155M4	253
117P8	108	155M6	254
119P11	137	155M7	254
119P18	137	155P1	299
119P22	262	155P2	299
119P23	137	156P1	183
130M3	210	156P10	183
130M5	209	157P1	336
130M6	212	157P10	322
130M7	211	157P11	321

157P2.....	337	161P12.....	88
157P20.....	81	161P13.....	89
157P30.....	82	161P14.....	88
157P4.....	336	161P15.....	85
157P40.....	82	161P16.....	85
157P45.....	83	161P17.....	86
157P5.....	336	161P18.....	86
157P6.....	336	161P20.....	196
157P7.....	336	161P21.....	196
157P8.....	334	161P22.....	195
158P1.....	316	161P23.....	195
158P10.....	332-333	161P24.....	196
158P11.....	333	161P25.....	196
158P2.....	316	161P26.....	197
158P20.....	316	161P26A.....	197
158P21.....	316	161P3.....	195
158P3.....	316	161P30.....	197
158P4.....	323	161P31.....	199
158P5.....	57	161P32.....	198
158P6.....	57	161P33.....	199
159P1.....	329	161P34.....	199
159P10.....	315	161P4.....	181-182
159P12.....	315	161P40.....	194
159P13.....	329	161P41.....	195
159P2.....	329	161P42.....	195
159P3.....	329	161P44.....	194
159P4.....	264	161P45.....	184
159P40.....	330	161P46.....	184
159P5.....	198-199	161P47.....	184
159P6.....	330	161P48.....	184
159P8.....	265	161P49.....	184
160M2.....	176	161P5.....	181-182
160M3.....	177	161P50.....	184
160P1.....	320	161P51.....	184
160P10.....	320	161P52.....	184
160P100.....	96, 319	161P55.....	89
160P11.....	318	161P56.....	182
160P12.....	320	161P57.....	182
160P13.....	319	161P58.....	182
160P14.....	319	161P59.....	183
160P15.....	321	161P6.....	187
160P16.....	320	161P60.....	186
160P17.....	321	161P61.....	187
160P18.....	318	161P62.....	186
160P19.....	320	161P63.....	186
160P2.....	317	161P64.....	186
160P20.....	322	161P65.....	186
160P22.....	322	161P66.....	186
160P23.....	322	161P7.....	190
160P24.....	323	161P7/GL.....	191
160P25.....	323	161P72.....	184-185
160P27.....	324	161P73.....	184-185
160P3.....	317	161P74.....	185
160P30.....	328	161P75.....	192
160P4.....	317	161P76.....	192
160P5.....	317	161P77.....	194
160P50.....	319	161P78.....	194
160P51.....	319	161P79.....	192
160P55.....	324	161P80.....	193
160P6.....	318	161P82.....	191-192
160P7.....	318	161P84.....	191
160P8.....	318	161P85.....	190
160P9.....	320	161P86.....	190
161P0.....	193	161P9.....	87
161P01.....	193	161P90.....	180
161P02.....	193	161P91.....	180
161P03.....	193	162P1.....	291
161P04.....	194	162P2.....	292
161P05.....	194	162P3.....	70
161P10.....	88	162P35.....	285
161P101.....	189	162P36.....	285
161P103.....	189	162P4.....	293
161P11.....	88	162P5.....	285

Index

162P6.....	292	165P60.....	331
163P1.....	300	165P61.....	331
163P10.....	334	165P62.....	331
163P11.....	302	165P65.....	331
163P12.....	302	165P66.....	331
163P13.....	302	165P67.....	331
163P14.....	303	165P69.....	331
163P15.....	303	165P7.....	308
163P16.....	303	165P70.....	331
163P17.....	304	165P71.....	332
163P18.....	301	165P72.....	332
163P19.....	302	165P8.....	331
163P2.....	301	166P1.....	326
163P21.....	300	166P10.....	327
163P22.....	334	166P11.....	328
163P25.....	334	166P12.....	327
163P26.....	335	166P13.....	327
163P29.....	306	166P14.....	327
163P3.....	303	166P15.....	328
163P30.....	306	166P16.....	326
163P31.....	306	166P17.....	58
163P32.....	306	166P18.....	59
163P33.....	307	166P19.....	58
163P34.....	307	166P2.....	326
163P35.....	307	166P21.....	327
163P36.....	307	166P23.....	59
163P4.....	304	166P24.....	58, 94
163P5.....	63	166P25.....	51
163P51.....	305	166P3.....	325
163P53.....	305	166P4.....	325
163P55.....	303	166P40.....	325
163P7.....	301	166P5.....	324
163P70.....	304	166P55.....	316-317, 324
163P8.....	301	166P6.....	326
163P9.....	301	166P7.....	325
164P1.....	58	166P8.....	326
164P11.....	333	166P9.....	328
164P12/K.....	333	168P1.....	69
164P13.....	65	168P10.....	137
164P14.....	335	168P12.....	277
164P15.....	64	168P13.....	277
164P16.....	310	168P2.....	176
164P17.....	335	168P20.....	70
164P18.....	335	168P23.....	264
164P19.....	335	168P25.....	262-263
164P20.....	335	168P26.....	263
164P21.....	330	168P27.....	260
164P30.....	334	168P277E1.....	261
164P32.....	138	168P29.....	266
164P33.....	333	168P30.....	262
164P6.....	138	168P31.....	262, 267
164P7.....	58	168P32.....	266-267
165P1.....	310	168P33.....	267
165P13.....	305	168P34.....	267
165P14.....	305	168P35.....	264
165P17.....	300	168P38.....	264
165P18.....	302	168P39.....	264
165P19.....	304	168P40.....	259
165P2.....	71	168P41.....	259
165P20.....	49-50	168P410.....	259
165P21.....	176	168P42.....	260
165P22.....	182	168P44.....	259
165P23.....	33	168P45.....	268-269
165P3.....	309-310	168P46.....	260
165P31.....	308	168P47.....	260
165P32.....	308	168P48.....	260
165P33.....	308	168P49.....	260
165P4.....	308	168P5.....	261
165P45.....	309	168P50.....	147
165P5.....	330	168P500.....	75
165P50.....	332	168P501.....	76
165P51.....	332	168P502.....	76
165P6.....	330	168P503.....	77

Index

168P505.....	73	169P75.....	154
168P51.....	148	169P76.....	155
168P510.....	77	169P77.....	155
168P516.....	77	169P78.....	155
168P517.....	77	169P79.....	155
168P518.....	77	169P80.....	156
168P52.....	148-150	169P81.....	156
168P53.....	150	169P82.....	156
168P530.....	74, 77	169P83.....	156
168P532.....	75	169P84.....	157
168P533.....	75	169P85.....	157
168P54.....	153-154	169P86.....	160
168P55.....	148	170P1.....	277
168P555.....	79	170P2.....	278
168P556.....	79	170P3.....	278
168P558.....	79	170P4.....	278
168P559.....	80	170P5.....	279
168P57.....	142	170P6.....	279
168P58.....	142	170P7.....	278
168P59.....	139	170P9.....	225
168P60.....	139	171P1.....	279
168P61.....	139	171P10.....	283
168P62.....	139	171P11.....	281
168P63.....	139	171P12.....	281
168P64.....	139	171P13.....	281
168P65.....	139	171P14.....	282
168P66.....	139	171P15.....	283
168P7.....	142	171P16.....	281
168P70.....	138	171P2.....	279
168P71.....	138	171P3.....	280
168P75.....	139-140	171P4.....	279
168P76/H.....	140	171P5.....	280
168P77.....	141	171P6.....	280
168P78.....	50, 141	171P7.....	280
168P79.....	141	171P8.....	280
168P8.....	261	171P9.....	282
168P81.....	151	172P1.....	285
168P82/3540.....	151	172P2.....	283
168P85.....	147	172P3.....	284
168P9.....	268	172P4.....	284
168P90.....	149	172P5.....	284
168P91.....	150	172P6.....	284
168P92.....	78	172P7.....	284
168P93.....	78	173P1.....	288
168P94.....	78	173P10.....	289
168P95.....	79	173P11.....	289
169P40.....	163	173P12.....	290
169P41.....	163	173P15.....	288
169P42.....	163	173P2.....	288
169P43.....	163	173P26.....	290
169P44.....	163	173P27.....	289
169P45.....	164	173P3.....	287
169P46.....	164	173P4.....	286
169P47.....	163	173P5.....	286-287
169P48.....	163	173P6.....	310
169P50.....	163	173P8.....	287
169P51.....	163	173P9.....	177
169P52.....	163	176P1.....	313
169P53.....	164	176P2.....	314
169P54.....	164	176P3.....	314
169P60.....	152	176P4.....	313
169P61.....	153	176P5.....	314
169P64.....	160	177P1.....	313
169P65.....	159	177P10.....	313
169P66.....	159	177P3.....	314
169P67.....	161	177P4.....	312
169P68.....	161	177P5.....	315
169P69.....	162	177P6.....	311
169P70.....	158	177P7.....	311
169P71.....	157	177P8.....	312
169P72.....	157	177P9.....	312
169P73.....	157	178P20.....	315
169P74.....	157	178P25.....	322

Index

178P30.....	206
210V41.....	64
570P4.....	17
W60P10.....	69
W60P12.....	69
W60P5.....	69
W60P6.....	69
W60P7.....	69
W60P8.....	69
W62P1.....	69
W62P5.....	69
W64P12.....	69
W64P13.....	69

Directory

A

Abrasive Flap Wheel	190
Accessories Electric Sheet Metal Shear	264
Accessories Hot Air Gun	261
Acrylic-Lacquer	108
Adapter	290
Adhesive / Resin Work Station	113
Adhesive Suction Table	67
Adhesive Work Station	66-67
Adjustable Twin Pin Key	185
Adjustment Core Clamping Jaws	34
Air Gun	160
Air Pressure Hose	157
Air Pressure Regulator	157
Air Pressure Spiral Hose	158
AK Casting Ring Set	49
AK Casting Ring Set (continuation)	50
Alginate Spatula	94
Allen Key Set	288
Aluminum Mould	108
Aluminum Tripod	51
Anatomical Chart	19
Angle Grinder	272
Angled Snipe Nose Pliers	280
Anvil	225
Anvil Base	226
Attachment Plate	47
Autoclave	108
Automatic Center Punch	285
Automatic Start / Stop Module	247
Automatic Wall Dust Pan with tightly closing flap	254
Awl Handle	336

B

Back Hand Saw	330
Back Saw	329-330
Ball Cutter	180
Ball Joint Suction Arm	226
Ball Peen Hammer	278
Band Saw	211
Band Saw Blade	213-216
Band Saw Model 600	210
Bandage Scissors	327
Bandage Scissors „Bergmann“	328
Bandage Scissors „Lister“	328
Base Cabinet	76
Base Frame	123
Base Rack	128
Baseplate	47
Basic Shelf Rack for Plaster Cast Models	56
Belt Sander	203
Belt Sanding Machine	87
Bench Drill	216
Bench Drill Press	216-217
Bench Vise	33-34
Bevelled Edge Chisel	315
Bevelling Tool	334
Body Caliper „Streifeneder“	302
Bow Caliper	304
Bow Compass	303
Bracket	32
Bradawl	336
Braking Unit	179
Branching	253
Brass Anvil	310
Brush Up Tool	323
Buffing Wheel	85
Button Hole Punch	292

C

Cabinet File – Coarse	313
Cabinet Rasp – Smooth	313
Cabinet with Drawers	37-38, 76

Cantilever Arm with Angle Clamp	141
Carbide Cutting Bit	100
Carbon Polishing Wheel	102
Carpenter's Pincers	280
Cast Cutter - Blue-Star-Cutter	264
Cast Cutter „Oscimed 2000“	266
Casting Apparatus with Baseplate	47
Casting Room Scissors	327
CEE Electrical Outlet	178
CEE Plug	178
Center Drill Bit, HSS (DIN 333)	294
Center Punch	284
Chemical Protection Gloves	345
Chemical Protective Gloves made of Butyl	344
Chemical Protective Gloves, Nitril	344
Chipping Hammer	225
Chippings Bags for MOBILE 100	250
Chippings Bags for MOBILE 125 / 140 / 160 / 200	250
Chippings Bags for POWER UNIT	245
Chisel for Pneumatic Chipping Hammer	159
Chisel/Punch Set 6-part	283
Circular Cutter	263
Circular Cutting Blade	263
Circular Hand Shear	262
Circular Saw Blade	162, 264, 267
Clamp Ear Protection	349
Clamping Device	138
Clamping Device for Pre-preg	135
Clamping Device for Pre-preg Materials	136
Clean Air Dust Extractor P.U. 160	241
Clean Air Dust Extractor POWER UNIT 100	233-234
Clean Air Dust Extractor POWER UNIT 120	235-236
Clean Air Dust Extractor POWER UNIT 140	237-238
Clean Air Dust Extractor POWER UNIT 160	239-240
Clean Air Dust Extractor POWER UNIT 200	242
Clean Air Dust Extractor POWER UNIT 250	243
Clean Air Dust Extractor POWER UNIT 300	244
Cobbler's Knife „Tina“	320-321
Cobbler's Stand	65
Combination Grinder U3	200
Combination Pliers	279
Combination Sander	204
Combined Belt Sander / Grinder	207
Combined Finishing Machine	85
Combined Sanding / Polishing Machine	208
Company First Aid Box, filled	341
Compressed Air Plaster Cast Saw	162
Conical Cutter, HSS	182
Connection Adapter f. Suction Hose JET STREAM M	252
Connection Hose	150
Connector for Quick-Lock Coupling	154
Contouring Iron	331
Convection Oven	126
Convection Oven Size 1	77
Cordless Drill	271
Corundum Sanding Cone	196
Countersink Drill Set, HSS (DIN 335 C)	295
Countersink Drill, HSS (DIN 335 C)	295
Coverpaper	17
Craftsmen and Industrial Set for JET STREAM M	251
Cranked socket key CV-setTorx	289
Creasing Wood	334
Crimping Tool	71
Cross Line Laser	51
Cross Strut	40
Cut Protection Gloves	346
Cutting Bit for Silicone	101
Cutting Bit for Silicone, Cone	101
Cutting Bit, Drum	100
Cutting Disc	272
Cutting Table	29
Cutting wheel	72
Cutting Wire	262

Cutting-/Levelling-/Sharp.-/Split.-/Pressure Machine 72

D

Deburring Blades.....	323
Deburring Knife	323-324
Deck Oven „Exclusive“	136
Deep-Drawing / Clamping Frame.....	140
Deep-Drawing Frame, Bottom Part	140
Deep-Drawing Tool Set.....	142
DENTABS.....	55
Diagometer.....	306
Die for Eyelet.....	69
Die for Lacing Hook	69
Die for Snap Fastener.....	69
Die Holder, HSS.....	299
Die, HSS.....	299
Digital Camera.....	307
Disposable Chip Bag.....	179
Disposable Gloves Nitril, black	343
Disposable Latex Gloves.....	343
Disposable Latex Gloves IC	343
Divider Panel	42
Double Belt Grinding Machine.....	207
Double Filter - Half Mask.....	348
Double Grinder.....	205
Double Hook	32
Double Open End Spanner Set.....	331
Double Ring Spanner Set.....	332
Double-Sided Spatula, Small	95
Draw Knife.....	320
Drill Stand	270
Drilling Arm	220
Drum Cutter.....	183

E

Ear Protector ABS.....	348
EC-Cutter-Set	263
Egg Shape Rasp Head	88
Elbow Pipe.....	253
Electric Heater	261
Electric Sheet Metal Shear	264
Electric Silicone Roller	107
Electric Stapler.....	268
Electric Welding Machine.....	221
Electronic Scale with Digital Display	137
Emergency Floor Push Stop	178
End Cutting Nippers.....	280
Engineers' File – Flat	311
Engineers' File – Half Round.....	311
Engineers' File – Round.....	312
Engineers' File – Square.....	312
Engineers' File – Triangular	312
Examination Chair.....	17
Examination Couch	17
Explosion-Proof Extractor Fan	120
Extension Shelf	57
Extension Unit	41, 68
Eye Wash Bottle Set	342
Eye Wash Station.....	341
Eyelet Punch Press	69
Eyelet Squeeze-Out Pliers.....	281

F

Face Shield.....	349
Felt Cone.....	196
File Brush	315
File Handle.....	314
Filter / Water Trap 1/4“	75
Filter Bag.....	85
Filter Basket Cleaner	180
Filter Cartridge	179
Filter Cartridge for MOBILE 100	250
Filter Cartridge for MOBILE 125 / 140 / 160 / 200	250
Filter Element for JET STREAM M	252

Filter for Water Separator	149
Finger Shape Rasp Head	88
Fire Cone Cutter, HSS	182
Fire Blanket made of Glass-Fiber Fabric.....	342
Firmer Gouge.....	315
Flap Lift.....	35
Flat Bed Oven	120-121
Flat Chisel.....	284
Flat Contouring Iron	331
Flat Nose Pliers	279
Flat Nose Pliers „Langbeck“	279
Fleece Fan Sanding Drum	194
Fleece Polishing Wheel	102
Flexible Ruler	304
Flexible Shaft	270
Flexible Steel Ruler.....	301
Flux.....	223
Folding device	36
Folding Ruler, wood.....	300
Folding Stick	334
Foot Imprint Chart Pad	64
Foot Imprint Device.....	63
Foot Measuring Device „Heider“	63
Forstner Drill	296
Forstner Drill Set.....	296
Frequency Converter.....	246
Full Cushion	80
Funnel made of HD-PE.....	138
Furrier's Needle	337

G

Gas Shock.....	134
Glue Container	333
Goniometer	303
Grate	53
Grid Shelf	57
Grind Stone.....	322
Grind Stone, rough/smooth.....	322
Grinding Belt	204
Grinding Bit Set.....	271
Grinding Cone made of Silicone	197
Grinding Disc	272
Grinding Fleece Sleeve.....	192
Grinding Wheel.....	206
Grinding Wheel Dresser.....	206
Grip Pliers.....	283
Groove Cutter.....	183
Groove Cutter, HSS.....	183
Guide.....	86

H

Habermann Sanding Drum.....	186
Hacksaw Frame.....	329
Half Moon Knife.....	318
Halogen-Infralux Processor.....	90
Hammer Stretching Pliers	308
Hand Grinder.....	98
Hand Grinder with Knee-Control Unit.....	99
Hand Lever Shear	227
Hand Reamer, HSS.....	297-298
Hand Tap Set, HSS	298
Hand Vice.....	335
Heat Monitoring Switch	76
Heat Protective Gloves.....	346-347
Heating Cabinet	121-125
Heavy Duty Thread.....	84
Heel Cutter Head.....	88
Height Gauge	305
Hepa Filtre	269
Hex Socket Wrench	287-288
Hip Compass	303
Holder	138, 199
Holder for Wall-Mounting.....	53
Holding Forceps.....	309

Directory

Hole Punch.....	291-292	Metal Shear	332
Hole Punch and Brass Support	70	Micrometer	302
Hole Punch Set	291-292	Milling Bit, HSS.....	295
Hole Punch Tube	309	Mixing Board	93
Hole Punch Tube Set	310	Mixing Bowl.....	58
Hook.....	31	Mixing Bowl for Plaster Mixer 90E20.....	59, 97
Horsehair Wheel Brush	85	Mixing Cup	138
Hose Clamp.....	157, 256	Mobile Compressor	152
Hose Clamp for Vacuum Hose	154	Mobile Gas and Brazing Welding Unit	222
Hose Nipple	156	Mobile Rack	37
Hose Nozzle.....	155	Mobile Stand	227
Hose Sleeve / Flanged Collar.....	255	Mockup Model	20
Hot Air Blower „Electron“	259	Modelling Instrument.....	95
Hot Air Blower „Triac ST“	259	Modelling Spatula made of Plastic Material	58, 94
Hot Air Gun	260	Morse Taper.....	220
Hot Air Gun „Ghibli“	260	Multifunction Transfer Apparatus	50
Hot Sealing Iron	261	N	
Hot Water Quench	144	Neoplene Knife	318
HSS Milling Bit Set.....	270	Non-Return Valve.....	149
I		Non-stick Paperboard Frame.....	139
Illuminant	135	Number Die Set	285
Impact Drilling Machine	269	O	
Industrial Vacuum Cleaner JET STREAM M.....	251	Oil Can	334
Infrared Emitter.....	134-135	One Way Suction Pipe.....	139
Infrared-Oven	127-133	Ordinary Knife.....	318
Ink	64	Orthopaedic High-speed Press	78
Insert	290	Orthopaedic Press	78-79
Insert Foils.....	54	Oscillating Saw OSCIMED Ergo.....	267
Insole Knife.....	321	Oscillating Tool „Multimaster“	266
Insulation Mat	176	Outflow Cap	164
Internal Pressure Plate Set.....	79	Outside Caliper	304
J		P	
Jaw Wrench	177	Paint Beater	161
Jaws.....	35	Paint Roller	64
Jig Saw Blade.....	273	Panel Rack.....	43
Jig Saw, Electronic „Professional“	273	Paper Bag.....	269
Junior Hacksaw.....	329	Paper Dust Bags for JET STREAM M.....	252
K		Parallel Bars	21
Knee Axis Key	331	Parallel Scriber.....	305
L		Paring and Trimming Machine	71
Lace Tip Pliers	282	PE Plastic Container.....	163
Lamella Fleece Sanding Drum	194	Peeling Drill Set, Tapered, HSS	297
Lamella Fleece Wheel	198-199	Peeling Drill, Tapered, HSS	296
Lamella Wheel.....	199	Peen Hammer	278
Lateral Support.....	18	Pelvic Level.....	305
Lead Block.....	335	Philips Head Screw Driver	286
Leather Knife.....	317-318	Philips Head Screw Driver Set.....	287
Leather Shear	326	Pillar Drill Press.....	218-219, 222
Leg Rest.....	18	Pin Punch	284
Lift.....	36	Pin Punch Set	284
Lockstitch Sewing Machine	83	Pin Wrench	330
M		Pinking Shear.....	326
M.A.S. Compressive Measuring Tape	307	Pipe	252
M.A.S. Tool Kit.....	306	Pipe Clamp.....	255
Machine Jaw Vise	220	Pipe Clamp Jaw	33
Machine Recognition	246	Pipe Cutter.....	332
Magnetic Felt Jaws.....	33	Pipe Deburrer	333
Magnetic Lamp.....	176	Pipe Vise.....	52
Manchester Pliers	281	Plaster Apron.....	350
Manual Countersink Set	324	Plaster Bandage Trolley	55
Manual Rolling Mill.....	71	Plaster Bucket	58
Maschinen „Schmid“ Socket Router HF2.....	169	Plaster Casting Apparatus Set	48
Maschinen „Schmid“ Socket Router HF2.....	170	Plaster Cutter, Ball	103
Material Cabinet	39	Plaster Cutter, Cone	103
Measuring Chair with leg rest	18	Plaster Cutter, Pointed	104
Measuring Cup	96	Plaster Knife „Esmarch“	320
Measuring Gauge.....	305	Plaster Mixer.....	59, 97
Mechanical Protective Gloves.....	346	Plaster Moulding Spatula	58
Metal Lace Tip	282	Plaster Scissors	328
		Plaster Scissors „Stille“	328
		Plaster Scissors, model „Bruns“	327

Directory

Plaster Scoop	59	Replacement Blade, HSS	180
Plaster Separation Sink	54	Replacement Blades	323
Plaster Separator	54	Replacement Brush	333
Plaster Silo	52	Replacement Claw Mark	323
Plaster Stirrer	59	Replacement Countersink	324
Plaster Trowel	58	Replacement Cutter	87-88
Plaster Waste Bin	56	Replacement Cutter, HSS	180
Plaster Work Table	52	Replacement Glass	224, 349
Plaster-Grinding Basin	53	Replacement Parts	70
Plastic Side Cutter	281	Replacement Rubber	195
Plier Bracket	32	Replacement Set for Company First Aid Box	341
Plug Nipple	156	Replacement Shield	349
Plumb Bob	303	Replacement Spring	309
Plurimeter-V	307	Replacement Tube for Tube Carrier 76M11	34
Pneumatic Chipping Hammer	159	Resin Casting Work Station	114-115
Pneumatic Close Off Slider	254	Respirator Mask	348
Pneumatic Drilling Machine	158, 161	Revolving Eyelet Punch Press	70
Pneumatic Stapler	159	Revolving Hole Punch	309-310
Pneumatic Whirl Sintering Unit	143	Ring/Open End Spanner Set	332
Podometer	19	Rivet Header	285
Podotrack®	63	Rivet Setter	284
Polishing Arbor	192	Riveting Bar	335
Polishing Brush	104	Rotary Cutter	316
Polishing Cone	195	Rotating Mount	33, 35
Polishing Drum	195	Round Awl	336
Polishing Paste	104	Round Nose Pliers	280
Polishing Wheel	102, 198	Rubber Board	77
Polishing Wheel / Wave Folding	198	Rubber Core Replacement	192
Polyester Filtre	269	Rubber Covering	187
Practibox Storage System	40	Rubber for Polishing Arbor	185
Precision Band Saw	213	Rubber Grid Plate	63
Precision Spirit Level Light Metal	300	Rubber Insert Set	191
Pressure Container	163	Rubber Mallet	279
Pressure Cushion	79	Rubber Mat	77, 142
Pressure Gauge	164		
Pressure Regulator	222	S	
Pressure Regulator without Pressure Gauge	164	Saddler's Needle	336
Pressure Wedge	47	Safety Cabinet with Wing Doors	118
Pricker	310	Safety Storage Cabinet	117
Processing Roller	94-95	Safety Storage Cabinet with Folding Door	117-118
Protective Gloves	345-346	Sand Paper	105, 188
Protective Goggles	347	Sand Paper Holder	105
Protective Switch	120	Sand Paper Set	190
PTFE Film	137	Sanding Belt	89, 201-203, 208
PTFE Sheeting	262	Sanding Cap	195
PTFE-Foil, airtight	134	Sanding Cylinder	103
PTFE-Foil, porous	134	Sanding Disc	204
Pump Membrane	149	Sanding Drum	86, 187, 193-194
Q		Sanding Drum, conical	193
Quarter Moon Knife	317	Sanding Line	205
Quick Action Drill Chuck	219	Sanding Net	189
Quick Coupling with exterior thread	154	Sanding Roll	184, 190
Quick Coupling with inner thread	154	Sanding Roll, small	184
Quick Hose Coupling	155	Sanding Sheets	189
Quick-Lock Coupling with Hose Nozzle	153	Sanding Sleeve	86, 193
R		Sanding Sleeves	89, 103, 184-186, 190-194
Rack, height adjustable	140	Sanding Strip Roll	187, 189
Ramus Angle Gauge	307	Sanding-Genius	188
Rasp Head	181	Sandpaper for Wet Sanding	188
Rasp Head with Shank	181	Saw Blade Welding Unit	212
Rasp Head without Shank	182	Saw Blades	266
Raw Air Dust Extractor MOBIL 200	249	Scalpel	96, 319
Raw Air Dust Extractor MOBILE 100	247	Scissors	93, 324-325
Raw Air Dust Extractor MOBILE 125	248	Screw Clamp	330
Raw Air Dust Extractor MOBILE 140	248	Screw Driver	286
Raw Air Dust Extractor MOBILE 160	249	Screw Driver Set	286
Rear Panel	42	Screw Insulation	177
Receiver Station	259	Screwdriver Bit Socket, Torx 1/4"	290
Recirculating Air Filter System for Safety Cabinet	119	Sealing Ring	164
Reducing Piece	156	Sealing Tape	156
Refill for Company First Aid Box	341	Segmented Saw Blade	265
Replacement Blade	316-317, 319, 321, 329, 333	Sewing Machine 30/10, Adler Long-Arm	81
		Sewing Machine 30/70, Adler Long-arm	82

Directory

Sewing Machine Needle	81-83	Storage Box	32, 40
Sewing Scissors	326	Storage Box for Protective Goggles	347
Shaker	96	Storage Cabinet.....	39
Shank	182	Storage Rack.....	43
Sharpening Steel	322	Streifeneder VACUTEK.....	147
Shear Knife	227	Suction Arm.....	116
Sheet Metal Shear	332	Suction Hose	255
Shelf Panel	41, 43, 68	Suction Hose for JET STREAM M	251
Shelf System.....	41, 68	Suction Pipe with Disc.....	141
Shoe Makers Scissors	325	Suction Ventilator	226
Shoe Stretcher	308	Supporting Device AK-plaster casting	48
Shoe Stretcher „Eupedus“	72-73	Surform File	316
Shoemaker's Anvil.....	64	Surform Scraper.....	316
Shoemaker's Hammer	279	Swivel Stool	21
Shoemaker's Knife „Tina“	320	Synthetic Fibre Jaws	33
Shoemaker's Measuring Tape.....	301	T	
Shoemaker's Pincers.....	281	T-Handle Hex Wrench	287
Shoemaker's Rasp.....	313	T-piece for Vacuum Hose	150
Shoemaker's Stool	67	Table Band Saw	209
Side Cutter	280	Table Sander	84
Side Panel	42	Tailor's Chalk	335
Silicone Polisher.....	104	Tailor's Measuring Tape	301
Silicone Roller, Mechanical	107	Tailor's Scissors.....	325
Silicone Roller. Electric	106	Talcum Powder Container	333
Silicone Spatula	93-94	Tap and Die Set, HSS (DIN).....	300
Silicone Work Station.....	106	Tap Holder	299
Silicone-Vacuum Hose.....	154	Tapered Sleeves.....	89
Silver Solder	223	Tension Disc	199
Sing. Needle Doub, Stitch Post Bed Sewing Machine	83	Thermic Shear.....	262
Single Cut Tap, HSS	298	Thickness Bow Gauge	302
Sink Base Cabinet.....	53	Threaded Manifold	176
Sit Stand.....	21	Threaded Stud	176
Skiving Knife.....	321	Three-Quarter Cushion	79
Skiving Machine	84	Tire Pressure Gauge	161
Sleeve	156	Toe Cap Lifting Tool	308
Slider	254	Toggle Joint Wire Nippers	282
Slot Hole Punch	293	Tool Board	31
Socket Router	175	Tool Cabinet	37
Socket Router HF2.....	171	Tool Holder	194
Socket Router HF3 VARIO.....	172-174	Tool Key for Habermann Sanding Drum	186
Socket Router HF3 Vario Eco II	175	Tool Peg	31
Socket Wrench.....	330	Top Sound absorber for POWER UNIT 250	245
Soft Face Hammer	278	Top Sound absorber for POWER UNIT 300	245
Sole Trimmer.....	88	Torque Wrench.....	289
Spacer Set	304	Tower Pincers.....	283
Spare Blade for Deburring Knife.....	324	Tracing Wheel.....	334
Spare Pin	285	Transformer Coil.....	246
Spare Spool.....	80	Trapezium Blades	319
Spare Wire Mesh	57	Trimmer, complete	87
Spark Guard.....	206	Trimming and Sanding Machine	86
Special Band Saw Model „Universal Cutter“	212	Trimming Knife.....	319
Special Countersink Tool.....	297	Trimming Scissors	325-326
Special Plaster Knife.....	320	Tube Carrier for Clamping Table	34
Spindle Holder.....	101	Tuber-M-L-Gauge	306
Spray Gun	160	Tweezers	95
Spray Paint Set.....	163	Twin Service Unit.....	157
Spring Balancer	116	Twist Drill Set, HSS (DIN 338).....	294
Spring Clamp	310	Twist Drill, HSS (DIN 338)	293
Stainless Steel Basin	51	Twist Drill, HSS-Co (DIN 338).....	295
Stand for 5 grinding cones made of silicone.....	197	Two Way Suction Pipe.....	139
Stand Hand Sealing Iron	261	Two Way Vacuum Pipe.....	141
Standing-Lift.....	36	U	
Staple	160, 268	Universal Knife	319
Staple Gun	277	Upper Leather Shear	327
Staple Remover	277	V	
Staples.....	277	Vacumat Plus Type 262.....	147
Stationary Compressor.....	153	Vacumat Type 340	148
Steel Hammer.....	277	Vacupress 620 SIII	75
Steel Letter Set	285	Vacupress 850 Deep Drawing Device.....	73
Steel Ruler.....	301	Vacupress DUAL, Deep-Drawing Unit.....	74
Steel Scriber.....	303	Vacupress, Deep-Drawing Unit.....	74
Steel Square.....	301		
Steel Tape Measure	300		

Vacuum Cleaner	268
Vacuum Control Unit	150
Vacuum Deep-Drawing Device.....	142
Vacuum Pump.....	75, 151
Vacuum Pump Oil for Vacuum Pump.....	152
Vacuum Pump with Memory.....	151
Vacuum Sealing Disc	141
Vacuum Tank	148
Vacuum Unit.....	149
Vacuum-Kit incl. Quadruple Vacuum	153
Valve Hole Cutter	296
Vernier Caliper	302
Voltage Converter.....	177-178
W	
Wall Mount.....	40
Wall Mounting for Fire Blanket, empty.....	342
Warding File Set	315
Waste Bin.....	56
Waste Container.....	44
Water Draining Pump	55
Water Separator.....	148
Water/Steam Basin	143
Waterpump Pliers.....	283
Wax Knife	95
Welding and Cutting Torch Set.....	221
Welding Apron.....	225, 350
Welding Electrode.....	223
Welding Gloves	345
Welding Nozzle	259
Welding Rod	223
Welding Shield	224, 349
Welding Table.....	224
Welt Cutter	322
Welt Pincers	308
Whirl Sintering Unit.....	143
Wide Belt Sander.....	200-201
Wide Slit Nozzle	260
Wire Brush	322
Wire Mesh File.....	57
Wire Wheel.....	102, 197
Wood Rasp – Flat.....	313
Wood Rasp – Half-Round.....	314
Wood Rasp – Round.....	314
Work Bench	27-28, 30-31
Work Table.....	28
Worktable „Ergomax“ ESL	29
Worktable „Ergomax“ HT	29
X	
X-Ray Image Viewer.....	20
Y	
Y-Shape Coupling.....	155
Z	
Zig-zag Double Lockstitch Sewing Machine.....	80

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