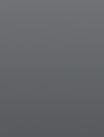
Special devices

16







"ARKADE+ZINKEL+ELLIX" Page 16.03 ÷ 16.05



DRILLING FOR CREMONE BOLTS Page 16.09



DRILLING OF WOOD AND PVC WINDOW FRAME TO FIT CREMONE BOLT Page 16.13



ECCENTRIC CLAMP Page 16.16



TRIMATIC FOR HINGES Page 16.06 - 16.07



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ELECTRIC ROUTER Page 16.15







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CARPENTER'S CLAMP Page 16.17

PNEUMATIC TYPE Page 16.18



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"ARKADE+ZINKEL+ELLIX" - The complete routing system for arches

The building techniques of the ancient Greeks and Egyptians had not contemplated the joining of wall openings by the use of arches. Roman times brought great technological progress. Thanks to archlinking they were able to create wider openings and so this technique became increasingly popular. The greatest development and the most gracious examples of arch construction came during the middle ages and continued through the years until more modern times when other building methods largely replaced the use of arches. Modern day building construction has rediscovered the charm, aesthetic taste and practical aspects of archlinking and because of this our technical department has developed and patented "ARKADE + ZINKEL". This is the only equipment on the market today capable of drawing and producing wooden, double-radius arch frames with practically no size restriction, quickly and with unmatched quality results.



PATENT nr. AN93A000054



Item ARKADE

"ARKADE" complete with tracer unit and goniometer



ZINKEL

"ZINKEL" articulate accessory for double-radii arches



Item ELLIX

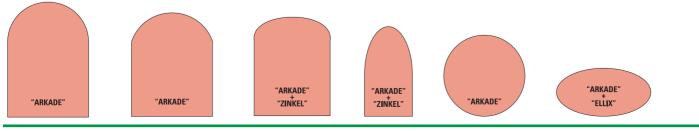
"ELLIX" the equipment for perfect geometrical ellipse for customers already using "ARKADE"



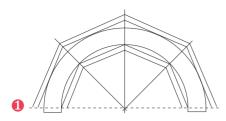
ELLISISTEM

"ELLISISTEM" is the "last born" of our special equipments for producing arch frames. With "ELLISISTEM" the customer can execute a perfect geometrical ellipse. Suitable for house restoration where the double radius arch is difficult to fit. Simple and easy to use, it keeps the same work procedure and features as "ARKADE" + "ELLIX"

Examples of windows made with "Arkade+Zinkel+Ellix"

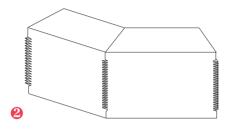




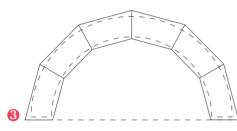


- Drawing of arch.

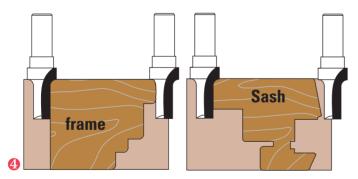
- Drawing and cutting of arch component parts.



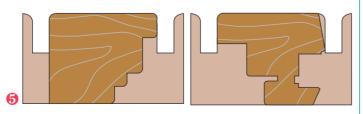
Joining the arch component parts (use eccentrinc clamp Art. SPP060029).



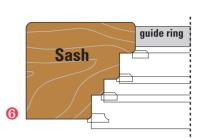
Positioning and securing the arch component parts, which are glued toghether



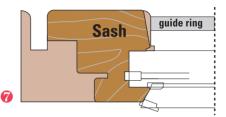
Inner-outer frame and sash outlining using a portable electric router fitted on the equipment (use tool Art. E.199.200.R).



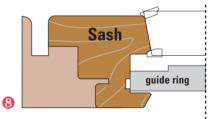
Using the band saw, remove excess wood



Profiling the frame by means of the cutter units with copy bearing on moulding machine



Profiling the sash by means of the cutter units with copy bearing on moulding machine



Profiling the glazing bead by means of the cutter units with copy bearing on moulding machine



9

Shaping of the glazing bead (with cutter Art. E.199.165.R use router table Art. SPP060028 ballbearing guide Art. SPP060039).

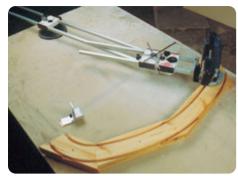


Separation of glazing bead with cutter Art. T141.061.R.

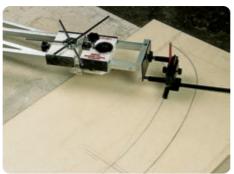


"ARKADE+ZINKEL+ELLIX"

The only equipment on the market capable of producing single and double radius arches or elliptical frames



The window arch is worked continuously It does not require a specific work bench The goniometer shows exactly how to cut the wood sections making up the arch



Drawing is done before making the window A carpenter's pencil i used Bars are engraved



Thanks to the revolver, the frame measurements can be repeated without risk of error





Description

Additional 1.500 mm bars

ltem

SPP060036

With the router table accessory and the ballbearing guide the execution of glazing bead is quick ad easy.

Item SPP060037



With the equipment "ELLIX" a perfect geometrical ellipse can be executed

Description

Additional revolver



Uses standard electric router

TOOLS TO BE USED WITH THESE EQUIPMENTS

Shank Ø8	Shank Ø12	Description	
C199.140.R	E199.140.R	T.C.T. beading bit	
C199.165.R	E199.165.R	T.C.T. beading bit	
C199.200.R	E199.200.R	T.C.T. beading bit	
T141.061.R	T141.061.R	Solid carbide bit for glass fixing lath	
U211.061.R	U211.061.R	HS upcut spiral bits for aluminium	
	Z001.006.N	Bushing \varnothing 6/12	
Z001.001.N		Bushing Ø 6/8	
TS140.96030		Profil cutter hole Ø 30/35/40	:
TS140.96035 TS140.96040		Profil cutter hole Ø 30/35/40 Profil cutter hole Ø 30/35/40	



TRIMATIC FOR HINGES

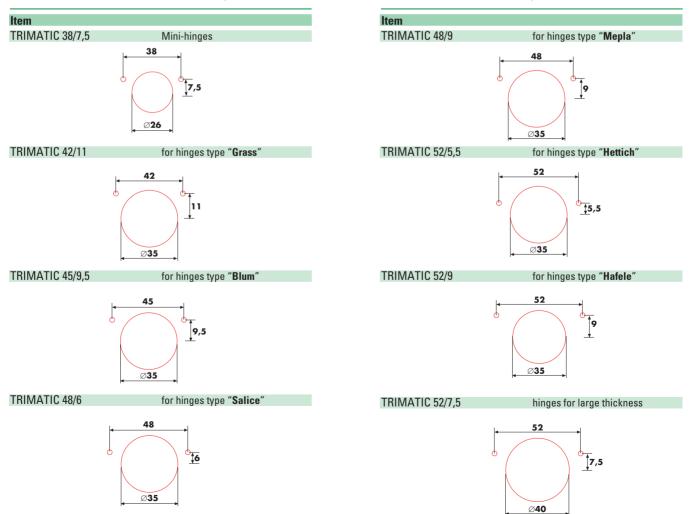
TRIMATIC are drilling jigs which allow making holes required in a single pass using a normal pillar drill or a portable electric drill. These articles are dedicated to craftsmen and hobbysts who have drilling problems when fitting hinges or positioning shelves with holes at a distance between centres of 32 mm.

The **TRIMATIC** unit with three tool-holders is suitable to make the three holes to fix the hinge in a single pass with distance between centres depending on the hinge to be fixed. Tools diameter depends on the hinge used. The central bit must have right hand rotation, the lateral bits have left hand rotation.



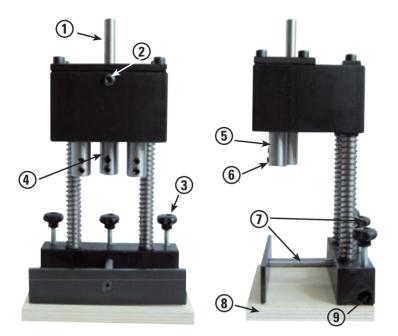
TRIMATIC 48/6 used with a pillar drilling machine

TRIMATIC 48/6 used with a portable drilling machine



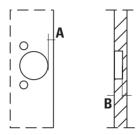


Designed in **1998** is one of the most innovative products in the woodworking field. Tested and appreciated by the most important hinges manufacturers, only our TRIMATIC boring jigs allow making more than **50.000** bores.



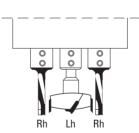
DESCRIPTION

- 1) Arbor for pillar drill spindle
- 2) Threaded hole for greasing
- 3) Locking knob for stop reference rod4) Distance adjusting screw "B"
- 5) Tool holder bush
- 6) Tool locking screw
- 7) Distance adjusting screw "A"
- 8) Equipment support table
- 9) Stop rod sliding hole



HW tools suitable for TRIMATIC

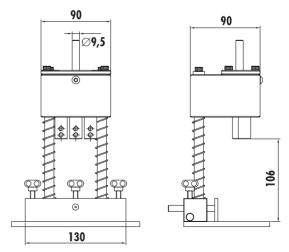
Ø	Rotation	Description
3	Lh	L120.030.L
		+ Z011.030.N
5	Lh	L103.050.L
8	Lh	L103.080.L
10	Lh	L103.100.L
26	Rh	L140.260.R
35	Rh	L140.350.R
40	Rh	L140.400.R





The central bit must have right hand rotation, the lateral bits have left hand rotation

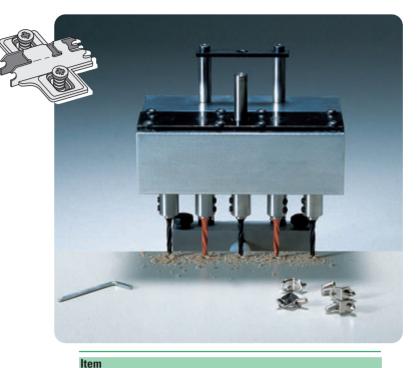
DIMENSIONS





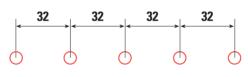
TRIMATIC 32

The **TRIMATIC** unit with five tool holders is suitable to make a five holes set with distance between centres of 32 mm. in a single pass. This device is designed for drilling holes in lateral panels (sides) of furniture for both fixing the hinge and positioning the shelves at the height desired. In the **TRIMATIC 32** the tool diameters depend on the fittings used. The central bit and those mounted in the external positions have right hand rotation, the other tools have left hand rotation.



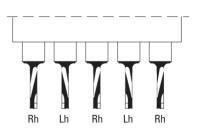






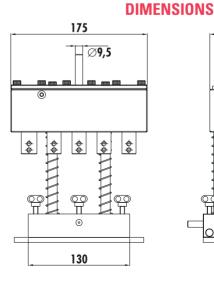
HW tools	suitable f	or TRIMATIC	32
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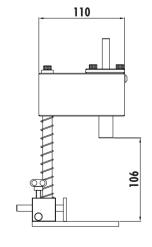
Ø	Rotation	Description
4	Rh	L103.040.R
4	Lh	L103.040.L
5	Rh	L103.050.R
5	Lh	L103.050.L





The central bit and those mounted in the external positions have right hand rotation, the other tools have left hand rotation.







DRILLING FOR CREMONE BOLTS

TRIMATIC 43/0 was designed for window frame makers who have problems with drilling holes to fit the handle on wood, wood/aluminium and PVC windows. **TRIMATIC 43/0** allows drilling the three holes necessary to fit the cremone bolt in one single pass with a normal pillar drill or a portable electric drill.

TRIMATIC 43/0, a drilling jig for handles with a distance between centres of the retaining screws of 43 mm.





Drilling of wood and PVC window frames to fit cremone bolts

0

Rh

43

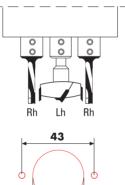
Lh

0

Lh

Item TRIMATIC 43/0

Ø	Rotation	Description
4	Rh-Lh	L103.040.R/L
5	Rh-Lh	L103.050.R/L
8	Lh	L103.080.L
10	Rh-Lh	L103.100.R/L
12	Rh-Lh	L103.120.R/L
25	Rh	L140.250.R
26	Rh	L140.260.R



Ø**25**

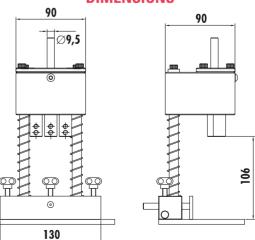
Ø	Rotation	Description
8	Lh	U260.080.L
10	Lh	U260.100.L
12	Rh-Lh	U260.120.R/L
14	Rh	U260.140.R

Some examples of drilling patterns

SIEGENIA-TRIAL		WEIDTMAN	N-KURLER
U260.120.L	2	U260.100.L	2
U260.120.R	1	U260.140.R	1
G-U JET77		OLIVEN	

G-U JET77		OLIVEN	
U260.100.L	2	U260.080.L	2
U260.120.R	1	U260.1420.R	1







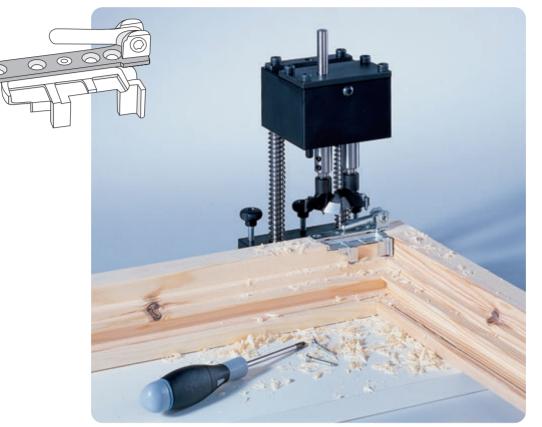
The central bit must have right hand rotation, the lateral bits have left hand rotation.



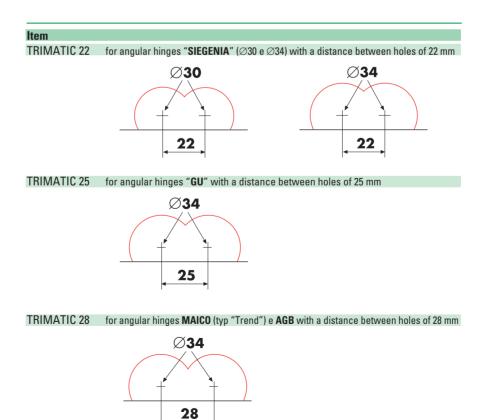
SPECIAL DEVICES FOR ANGULAR HINGES INSERTING

With constant attention paid to our customers' requirements and ongoing research for developing new technical solutions for helping craftsmen and small firms, our special equipments **TRIMATIC 22**, **25 e 28** help the window makers to make holes for angular hinges to be mounted on windows and door-windows, in wood and wood-aluminium material. The **TRIMATIC 22**, **25 e 28** can be used either with pillar drills or portable electric drills, and have distance between holes suitable for angular hinges of the following types: Siegenia (Trimatic 22), GU (Trimatic 25), Maico and AGB (Trimatic 28).

GINAL SI



Fixing of edge hinge



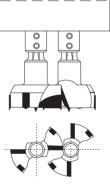


SPECIAL DEVICES FOR ANGULAR HINGES INSERTING



Fixing of top hinge

Z	Rotation	Description
80	Rh	L160.300.R
30	Lh	L160.300.L
34	Rh	L160.340.R
34	Lh	L160.340.L





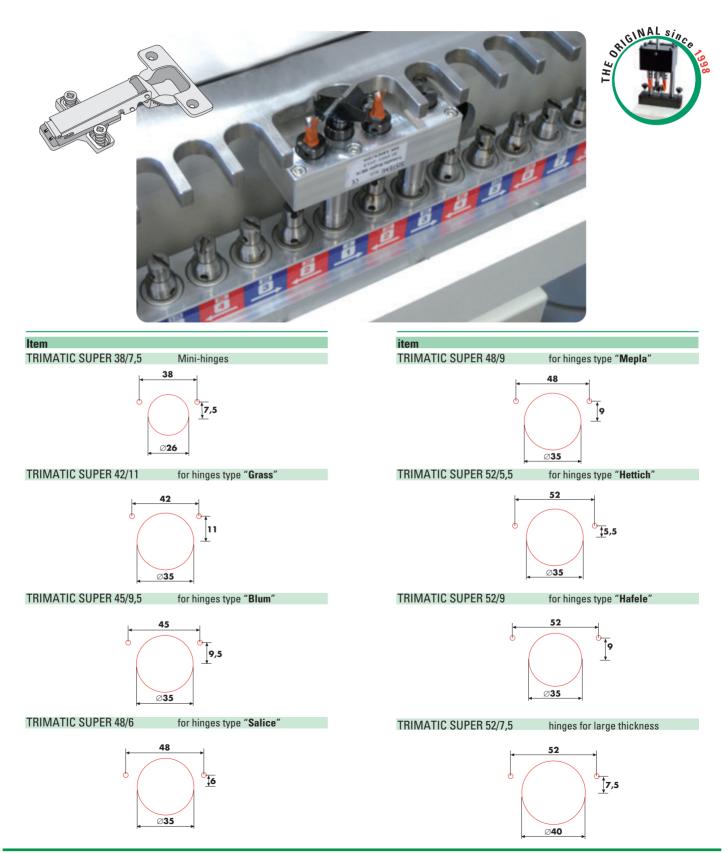
106



DRILLING JIG FOR MAKING HOLES FOR HINGE INSERTING

The **TRIMATIC SUPER** is a very innovative drilling jig, suitable to solve many problems to craftsmen and small industries when fitting the hinges and handles on doors, windows and cabinet doors. The **TRIMATIC SUPER** can be easily and quickly mounted on the multispindles head of any automatic boring machine with 32 mm distance between centres chucks. The **TRIMATIC SUPER** is very precise and fast, making in one single pass the three holes required for fitting the hinges on the cabinet doors.

At the moment, 8 types **TRIMATIC SUPER** in different patterns are available, suitable for the most common hinges: Salice, Blum, Hettich, Grass, Mepla, Ferrari, ecc. The new model 43/0, is now available for the execution of the holes necessary to fit the cremone bolt on the handles of doors and windows. The **TRIMATIC SUPER** are small-sized, 12,5x5x3 cm, but they are very solid and long-lasting devices. The diameter of the drills has to be chosen with reference to the model of hinges being used. Now, just choose the type of **TRIMATIC SUPER** you need.





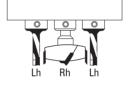
DRILLING JIG FOR MAKING HOLES FOR HINGE INSERTING



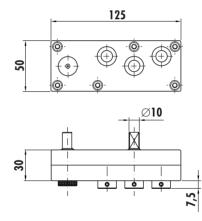
HW tools suitable for TRIMATIC SUPER

Ø	Rotation	Description
3	Lh	L120.030.L
		+ Z011.030.N
5	Lh	L171.050.L
8	Lh	L171.080.L
10	Lh	L171.100.L
26	Rh	L170.260.R
35	Rh	L170.350.R
40	Rh	L170.400.R





DIMENSIONS



DRILLING OF WOOD AND PVC WINDOW FRAME TO FIT CREMONE BOLT



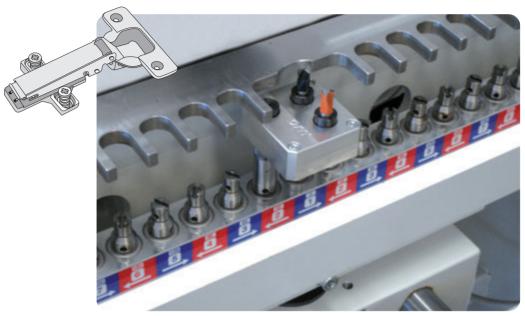
HW tools suitable for TRIMATIC SUPER 43/0

Ø	Rotation	Description
10	Lh	L103.100.L
12	Lh	L103.120.L
25	Rh	L140.250.R



DRILLING JIG FOR MAKING HOLES FOR HINGE INSERTING

TRIMATIC SUPER 32/90° allows to drill at a same time 2 holes perpendicular to the machine boring axis.

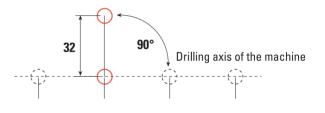




TRIMATIC SUPER 32/90° drilling jig for multi spindles machines 32 mm

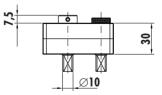
Item TRIMATIC SUPER 32/90°

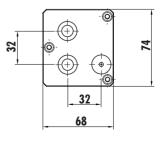
HW tools suitable for TRIMATIC SUPER 32/90°			
Ø	Rotation	Description	
20	Lh	L170.200.L	
10	Rh	L171.100.R	





DIMENSIONS







ELECTRIC ROUTER

Wood milling machines are possibly the most versatile machines that exist for woodworking. They can be used to carry out a whole series of finishing operations that would require hour upon hour of hard work and toil with other systems and achieve an unimaginable degree of precision. Although professional operators and woodworkers are fully familiar with its vast array of possibilities, hobbyists often see milling machines as a slightly mysterious tool and approach them with some diffidence. In fact, a milling machine is not a drill. To use it to its full extent, operators must first get to know its great potential, and then start working with it - which requires a certain degree of training. On the other hand, the satisfaction it can give is considerable. Items made as a hobby – often a little awkward and bulky – can be embellished with smooth corners, curves and rounded edges, and traditional, cabinet-making joints can replace joints made using pins or glue. In sum, a whole new world has opened up for do it yourself that was previously off-limits to them. Naturally, all this requires an extra effort, to ensure that customers are adequately informed. This is why we have decided to provide a summary of basic information to be supplied for this type of customer, when they express a desire to approach the world of milling.

High quality and long-lasting machine.

Its technical features, accuracy and performance make it a router for all your requirements.



- Safety instructions - Warranty



ECCENTRIC CLAMP

The eccentric clamp is suitable for keeping the glued wood sections with comb joints under pressure. It is tightened and slackened by turning the grip; the eccentric pressors are covered in rubber to prevent damage to the wood.



 Item
 Thickness range

 SPP060029
 Min. 25 mm - Max 75 mm

 SPP060053
 Min. 40 mm - Max 90 mm

DRIVER FOR CURVES

The driver for curves was conceived for greater safety during router machining on curves. It is equipped with a motor sufficient to guarantee a regular feed of about 2 m/min. so that a good quality of finish is obtained. The rubber wheel, apart from not damaging the wood, guarantees the perfect position of the piece with respect to the tools. The driver can already be applied with an arc of 25 cm radius.

2 feed rates=1,39 mt/min. + 2,78 mt/min.



Item SPP060065 **Description** Drivers for curves 2 feed rate

ROUTER TABLE



Item	Description
SPP060028	Router table to separate the glass fixing lath
SPP060039	Ball bearing guide for router table

LIFTING CLAMP

The lifting clamp facilitates the handling and trasport of large panels. It features an anatomic wooden grip and rubber covered eccentric jaws.



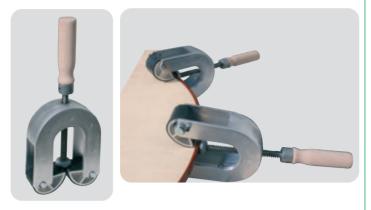


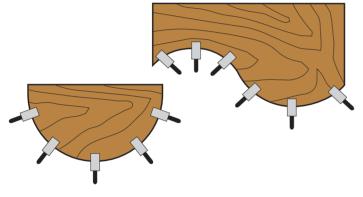
ltem SPP060047 Thickness range Min. 10 mm - Max 65 mm



EDGE CLAMP

The edge clamp is used to press the wooden lippings against the edge of the panel. The eccentric pressors are covered in rubber. This article is practically indispensable when gluing edge on curved or shaped panels.



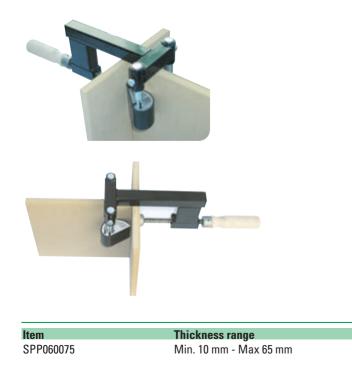


ltem SPP060052

Thickness range Min. 10 mm - Max 65 mm

T-JOINTS CLAMP

Suitable for T-joints in little pieces of furniture



CARPENTER'S CLAMP

The carpenter's clamp is suitable for craftsmen who manufacture modern furniture. The clamp is tightened and loosened by turning the wooden handgrip. The ends which hold the panel are covered with ribbed rubber to protect and improve the grip. With a suitable number of extensions furniture of any dimension can be assembled.



Item SPP020021 Thickness range Min. 250 mm - Max 800 mm

Thickness range

EXTENSIONS

ltem SPP020022

800 mm

DOOR LIFTER

Lifts, swivels and lowers. Easy foot operation for weights up to 100 kg for the installation of doors including fire doors, windows, furniture, dry walls, partitions.





QUICK CLAMPING DEVICES

Devices for quick clamping workpieces and for numerous applications. By simply applying pressure on the grip, once dead centre has been passed, they close securely. Horizontal models with horizontal or vertical clamping, push rod and pneumatic. Maximum quality and a virtually unlimited lifespan.



HORIZONTAL TYPE WITH HORIZONTAL CLAMPING ART. B.ORI



ltem	Clamping strength	
B.ORI.0240	Kg. 120	
B.ORI.0400	Kg. 200	
B.ORI.0600	Kg. 300	
B.ORI.0700	Kg. 350	

HORIZONTAL TYPE WITH VERTICAL CLAMPING ART. B.VER



ltem	Clamping strength	
B.VER.0241	Kg. 120	
B.VER.0401	Kg. 200	
B.VER.0601	Kg. 300	
B.VER.0701	Kg. 350	

PNEUMATIC TYPE ART. B.PNE



Operated by a cylinder 6,5 Atm.

ltem	Clamping strength	
B.PNE.0400	Kg. 200	

PUSHER TYPE ART. B.SPI



ltem	Clamping strength
B.SPI.0400	Kg. 220

SPARE ENDPINS made in rubber

ltem	Description
B.ORI.0240	M6 for clamps kg. 120
B.ORI.0400	M8 for clamps kg. 200
B.ORI.0600	M10 for clamps kg. 300
B.ORI.0700	M12 for clamps kg. 350
	· · · ·





- Suitable for washing any metal parts
- · For tools of various dimensions, also for tool groups for windows Heated biological operating mode •
- Includes:

- Stainless steel housing
 Rotating tank D=550 mm.
 Stainless steel upper, under and lateral washing arms
- Timer
- Thermal resistance •
- •
- •
- Single-plase 1 hp pump Dimensions: 700x600 h 866mm. Dimensions packing: 785x780 h1000mm. •
- Weight: 50 kg.

Item KLEINWASHER NEW

Description Automatic tool washer





- Can wash any type of tools or metal parts
 Easy to be used with water and spray gun
 Heated biological operating mode Includes:
- •
- •
- Spray gun Tool holding grid Stainless steel tank with thermal resistance •
- Air-operated double diaphragm pump 5 L/min. Tank dimensions: 600x500 h 250mm. •
- •
- Tank dimensions: 000300 fl 250mm.
 Tank capacity: 70L
 Dimensions: 700x560 h1000mm.
 Dimensions packing: 970x670 h1020.
 Weight: 40 Kg.

Item KLEINCLEANER NEW

Description

Manual tool washer

Sealants, lubricants, cleaning products see section 14 page 14.03

Sealants, lubricants, cleaning products see section 14 page 14.03

