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Quality

produces Quality



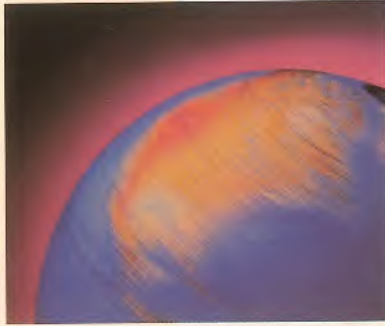
>> You have profile – we will work on it! >>



P V C



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Our factory is here but you find
our products all around the world.
In 28 countries we are in place for
you with sales and service!



< A company of tradition since 1928 >>



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Table saw TS 161/20

- > Accurate cutting cycles are achieved by the upward saw stroke
- > Wide angle cutting range. Up to 45° to the left and up to 0° to the right
- > The unique combination of pivoting saw head and operating lever allows the operator to remain in the same position
- > The back fence is adjustable to allow the most effective use of the sawblade capacity for narrow and flat profiles
- > Manual upward saw stroke
- > Manual clamping (vertical)
- > Standard equipped with sawblade and machine base

Technical information

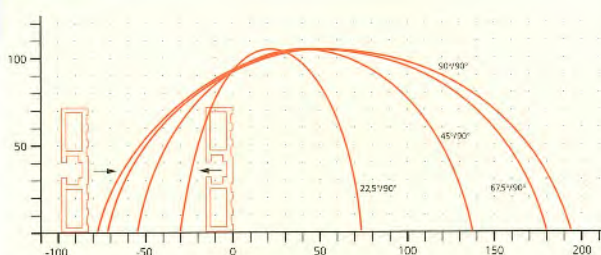
- Cutting capacity see cutting diagram
- Sawblade diameter 280 mm
- Speed 3.200 r.p.m.
- Power supply 230/400 V, 3~, 50 Hz
- Power output 740 W
- Length 650 mm, width 750 mm, height 1.300 mm, weight 96 kg

Table saw TS 161/21

- See TS 161/20, however:
- > Pneumatic clamping (vertical)
 - > Air filter, regulator

Optional

- Digital readout for pivoting angles
- Extraction set
- Length stop and measuring systems see page 9
- Roller conveyors
- Special sawblades



TS 161/20

TS 161/21

Mitre saw MGS 72/30

- > Stable, grinded continuous support table with turn table on precise bearings
- > Wear resistant and low noise multi v-belt drive
- > Manual saw stroke
- > Standard equipped with sawblade

Technical information

- Pivoting range 0° - 45° adjustable to the left and to the right
- Positive location points at 15,0°, 22,5°, 30,0° and 45,0°
- Cutting capacity see cutting diagram DG 79 page 16
- Sawblade diameter 380 mm
- Speed 2.800 r.p.m.
- Power supply 230/400 V, 3~, 50 Hz
- Power output 3.000 W
- Length 720 mm, width 660 mm, height 620 mm, weight 120 kg

Optional

- Machine base
- Pneumatic clamping
- Quick-acting clamping device
- Length stop and measuring systems see page 9
- Roller conveyors
- Special sawblades

Mitre saw MGS 72/10

- See MGS 72/30, however:
- > Machine base
 - > Pneumatic clamping (2x horizontal, 1x vertical)

Technical information

- Length 780 mm, width 900 mm, height 1.600 mm, weight 184 kg

Mitre saw MGS 73/33

- See MGS 72/10, however:
- > Hydropneumatic saw feed

Technical information

- Compressed air supply 7 bar
- Length 850 mm, width 900 mm, height 1.380 mm, weight 200 kg

Optional

- Extraction set
- Length stop and measuring systems see page 9
- Roller conveyors
- Special sawblades



MGS 72/10 + MMS 100 + roller conveyor

MGS 73/33

Length stop and measuring systems AMS 200, MMS 200, MMS 100

- > For precise cutting of plastic profiles (Accuracy +/- 0,1 mm)
- > To be connected to all single head saws (right side)
- > Sliding stop can be folded up to feed in profiles
- 1 Accurate magnetic 45° angle adaptor enables rapid and easy change-over from straight to mitred ends (optional)

Length variants AMS 200, MMS 200, MMS 100

- 1.500 mm (only at MMS 100)
- 3.000 mm
- 4.500 mm
- 6.000 mm
- Special length on demand
- Version for left hand side on demand

Variants with electronic controls

AMS 200 with E 255

- > Length stop and measuring system with automatic cut length adjustment with electronic positioning

Technical information E 255

- Measurement system independent from drive
- Pneumatically locked on position
- Controls situated within easy reach of machine operator
- With 255 memory positions and correction values assigned to 35 profile numbers
- The position number, length dimension, profile number and quantity can be set in the position memory
- Switch to convert mm/Inch

AMS 200 with E 500/1

- > Length stop and measuring system with automatic cut length adjustment by means of PC-control

Technical information E 500/1

- Measurement system independent from drive
- Pneumatically locked on position
- Robust, low-wear direct drive for the sliding stop
- Industrial-PC with pentium-processor
- Hard disk > 1 GB
- Working memory capacity min. 8 MB RAM
- 3,5"-disk drive
- 10,4"-colour screen and industrial key board
- 2 serial and 1 parallel interface for connection of a label printer or bar code scanner

Optional E 500/1

- Free space for network card
- Additional PC key board

Variants with hand wheel

MMS 200 with E 110

- > Length stop and measuring system with hand wheel drive and digital display E 110

Technical information E 110

- Accurate length setting by digital display
- Pneumatically locked on position
- Switchover from absolute size to chain size
- Actual value memory of the display

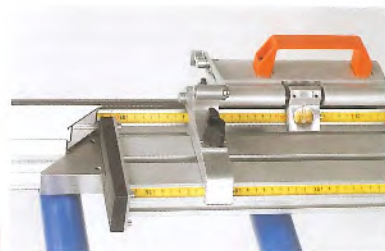
MMS 200 with hand wheel drive

- > Length stop and measuring system with sliding stop and reference scale for accurate and fast adjustment
- > Measure can be read from the operator position

Variants with manual adjustment

MMS 100 with manual length measurement

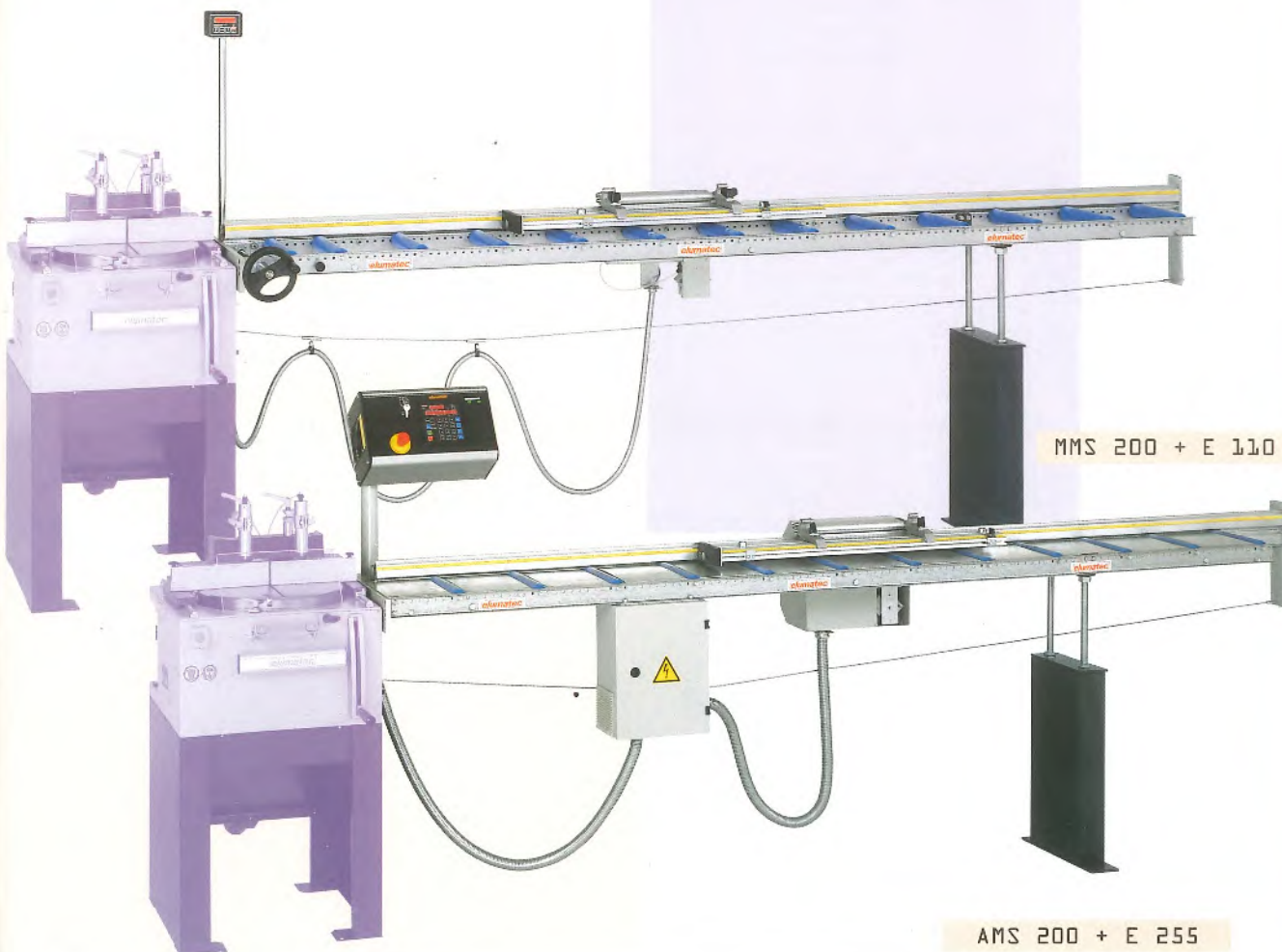
- > Adjustment at sliding stop
- > Manual clamping



1



MMS 100



MMS 200 + E 110

AMS 200 + E 255

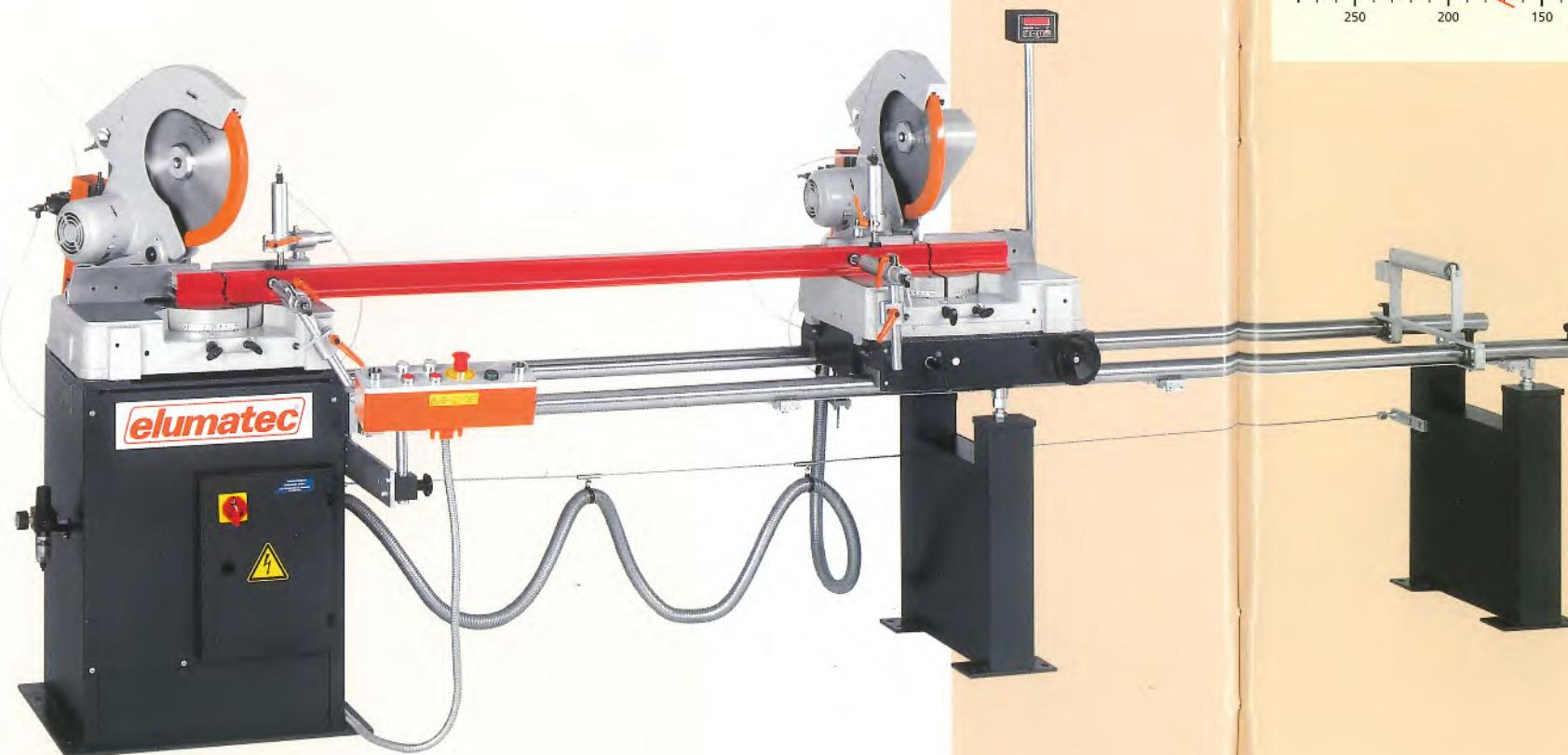
Length stop and measuring systems

AMS 200, MMS 200, MMS 100

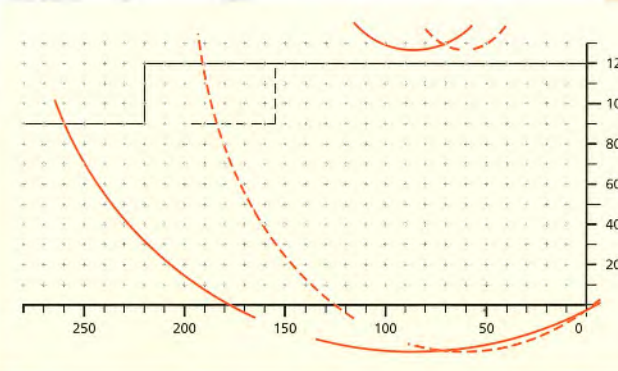
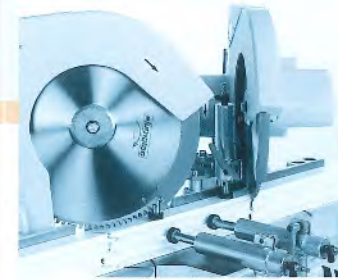
<Decide yourself: Manual or with electronic,
which cutting length and which version>>



DG 79 M + E 255



DG 79 + E 110



Double mitre saw DG 79

- >The solid cast construction with integrated round table guarantees optimum profile support for cutting to length with angular accuracy
- >Continuous adjustment of pivoting range 0° to 45° left and right, providing the facility for working off the external and internal dimension
- >Vertical and horizontal pneumatic clamping to ensure optimum profile fixing
- >Standard equipped with sawblades

Technical information

- Positive location points at 15,0°, 22,5°, 30,0° and 45,0°
- Pivoting range from 0° to 45° infinitely adjustable
- Hydro pneumatic saw feed
- Cutting capacity see cutting diagram
- Sawblade diameter 380 mm
- Spindle speed 2.800 r.p.m.
- Power supply 230/400 V, 3~, 50 Hz
- Power output each motor 3.000 W

Cutting length variants

- 3.000 mm
- 4.500 mm
- 6.000 mm

Optional

- DG 79 M machine base made of steel sheet (only at cutting length 3.000 mm)
- Fixed and mobile workpiece support
- Transom stop
- Extraction unit
- Special clampings
- Roller conveyors
- Special sawblades

Electronic variants

Manual cutting length adjustment with digital display E 110

- Rapid read-out by digital display (Resolution 0,1 mm)
- Entry of any desired reference value by means of keypad
- Switchover from absolute size to chain size
- After switching off, the last measure remains memorized

Automatic cutting length adjustment with positioning electronic E 255

- Measurement system independent from drive
- Robust, low-wear direct drive for moving saw head
- With 255 memory positions and correction values assigned to 35 profile numbers
- The position number, length dimension, profile number, angular position 90°, 45° (only for DG 142, DG 104, DG 244) and quantity can be set in the position memory
- Switch to convert mm/Inch
- Interface RS 232

< High cutting capacity:

Simultaneous cutting of several profiles >>

Double mitre saw DG 142

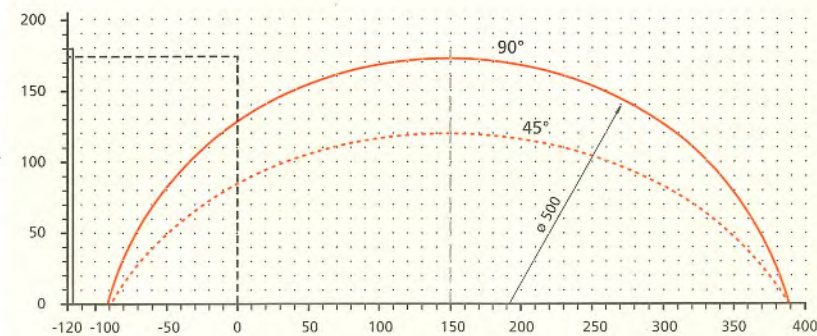
- > Cutting profiles of big dimensions
- > By means of special accessories cutting profiles with retracted or extruded gaskets is possible
- > Cutting of point to point dimension at all variants
- > Ideal machine for high volume production when cutting 90° and 45°
- > Standard equipped with sawblades
- > Vertical pneumatic clamping
- > Safety hoods

Technical information

- Minimum cutting length 90° 350 mm
- Minimum cutting length 45° tilted 350 mm
- Tilting range inwards 90° - 45°
- Cutting capacity see cutting diagram
- Sawblade diameter 500 mm
- Spindle speed 2.800 r.p.m.
- Power supply 230/400 V, 3~, 50 Hz
- Power output each motor 4.000 W
- Compressed air supply 7 bar
- Air consumption per working cycle 40 l

Cutting length variants

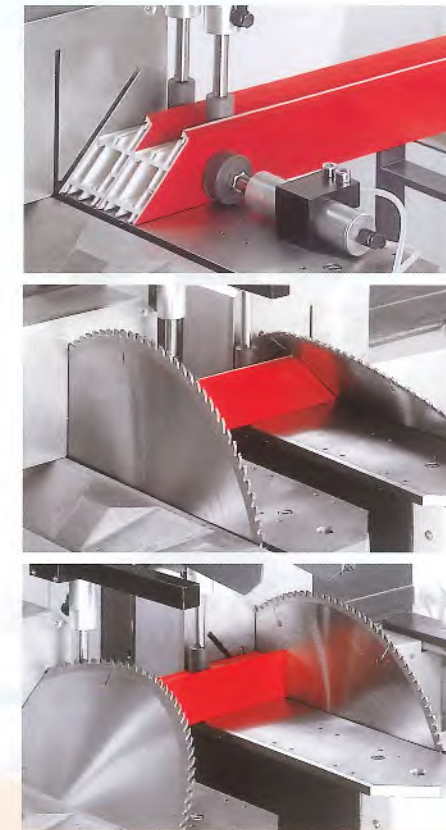
- 3.000 mm
- 4.500 mm
- 6.000 mm



DG 142 M + E 255



DG 142 + E 500/1



Optional

- DG 142 M machine base made of steel sheet (only at cutting length 4.500 mm)
- Intermediate angle setting by hand wheel and digital display
- Additional software for E 500: Optimizing program, software module for cut-off and oversize length cuts
- Label printer
- Movable or automatic pivotable workpiece supports
- Special clampings
- Transom and first cut
- Extraction unit
- Auto-feed systems
- Roller conveyors
- Special sawblades

Electronic variants

Manual cutting length adjustment with digital display E 110

> See DG 79, page 11

Automatic cutting length adjustment with electronic positioning E 255

> See DG 79, page 11

Automatic cutting length adjustment by means of PC-control E 500/1

- > Measurement system independent from drive
- > Pneumatically locked on position
- > Robust, low-wear direct drive for moving saw head
- > Industrial-PC with pentium-processor
- > Hard disk > 1 GB
- > Working memory capacity min. 8 MB RAM
- > 3,5"-disk drive
- > 10,4"-colour screen and industrial key board
- > 2 serial and 1 parallel interface for connection of a label printer or bar code scanner

Optional E 500/1

- Free space for network card
- Additional PC key board

< Robust and easy-care use >>



C0 250 + Base, support stand

Metal saw C0 250 bench version

- > Mitre cuts up to 45° to the left
- > Automatic cooling system
- > Spindle vice with double clamping arm for cutting with min. burr
- > Saw head on double bearings

Technical information

- Sawblade diameter 250 mm
- Spindle speed 52 r.p.m.
- Power supply 400 V, 3~, 50 Hz
- Power output 1.000 W
- Length 400 mm, width 700 mm, height 850 mm, weight 73 kg

Optional

- Machine base
- Support stand
- Length stop and measuring systems see page 9
- Roller conveyor

Metal saw C0 275

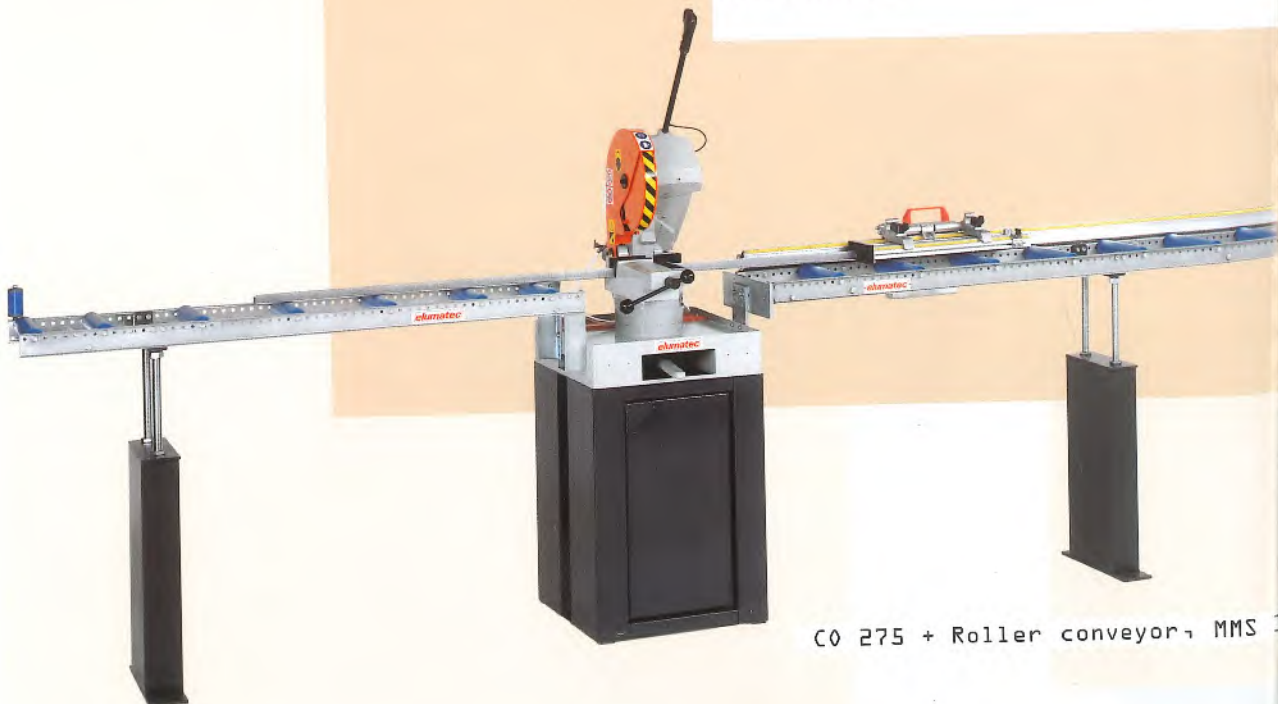
- > With machine base and integrated tool compartment
- > Mitre cuts up to 45° to the left
- > Automatic cooling system
- > Conus safety clutch made of hardened steel for saving of the saw blades
- > Wear-resistant and easy adjustable

Technical information

- Sawblade diameter 275 mm
- Spindle speed 33 - 66 r.p.m.
- Power supply 230/400 V, 3~, 50 Hz
- Power output 1.500 W
- Length 500 mm, width 850 mm, height 1.800 mm, weight 137 kg

Optional

- Length stop and measuring systems see page 9
- Roller conveyor



C0 275 + Roller conveyor, MMS



Vee-notch and cut off saw KS 101/23

- > Precise Vee-cuts in PVC profiles
- > Simple setting of cutting depth
- > Minimum space requirement by compact design
- > Pneumatic and continuously adjustable sawblade feed
- > for fast and precise sawing with rapid return
- > Standard with swarf extraction outlets and swarf container
- > Standard equipped with sawblades

Technische Daten

- Cutting capacity at Vee-cuts cutting depth 60 mm
Profile height 80 mm
- Sawblade diameter 254 mm
- Spindle speed 2.800 r.p.m.
- Power supply 230/400 V, 3~, 50 Hz
- Power output each motor 900 W
- Compressed air supply 7 bar
- Air consumption per working cycle 20 l
- Length 980 mm, width 800 mm, height 1.650 mm,
weight 199 kg

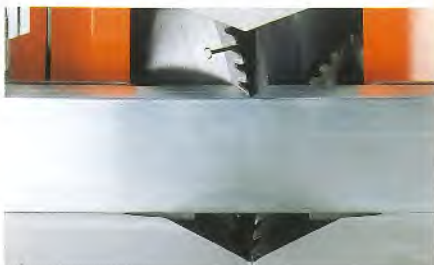
Optional

- Material clamping horizontal
- Length stop and measuring systems, see page 9
- Roller conveyors
- Special sawblades

Vee-notch and cut off saw KS 101/30

See KS 101/23, however:

- > Bigger capacity due to an enlarged cutting range
- > Cutting capacity at V-cuts cutting depth 80 mm,
profile height 100 mm
- > Sawblade diameter 300 mm



Vee-notch and cut off saw KS 107/00

- > Precise allround cut off saw for PVC profiles
- > The ideal machine for series production for profiles with 45° cuts combined with Pusher transportation system or length stop and measuring system
- > Clamping directly at the cutting level by stroke and adjusting movements in direction of the sawblade level
- > Zero point fixation for cut off position
- > Scale for transom cuts
- > Max. cross section 105 x 200 mm

Technical information

- Cutting range for cut off resp. Vee-cuts:
- Profile depth max. 110 mm,
 - Profile height max. 200 mm
 - Table dimensions: Length 850 mm, Breite 250 mm
 - Sawblade diameter 450 mm
 - Spindle speed 2.800 r.p.m.
 - Power supply 230/400 V, 3~, 50 Hz
 - Power output each motor 4.000 W
 - Compressed air supply 7 bar
 - Air consumption per working cycle 80 l
 - Length 850 mm, width 1.150 mm, height 2.140 mm,
weight 420 kg

Optional

- Material clamping horizontal
- Length stop and measuring systems see page 9
- Roller conveyor
- Special sawblades



KS 107/00



KS 101/30

< Screwing of the steel reinforcement with the profile.

For processing two profile bars simultaneously >>

Reinforcement screwdriver system
ADS 260/00

- > For processing two profile bars simultaneously with automatic screw feed and computer controlled length measuring E 500 S
- > Working process upon customer's request: From the right to the left or left to the right

Working process:

- > Feed in of the profile bars into the pusher tong (on the right)
- > Automatic measuring and screwing
- > Opening of the pusher tong
- > Off-loading of profiles
- > Pusher returns to the initial position
- > Standard equipped with pusher system and roller conveyor
- > 6-way turret stop to adjust the back fence for different profile widths (manual)
- > Pneumatic material clamping devices (horizontal and vertical)
- > Standard equipped with safety hood

Technical information

- Max. torque 6 Nm at 2.400 r.p.m.
- Power output 630 W
- Compressed air supply 6 - 7 bar
- Screw length 13,0 - 45,0 mm
- Shaft diameter 3,0 - 4,5 mm
- Screw head diameter 6,0 - 9,0 mm
- Length 8.600 mm, width 1.000 mm, height 2.100 mm, weight 340 kg

Reinforcement screwdriver system
ADS 260/01

- See ADS 260/00, however:
- > Working process from the left to the right



↓



Electronic

PC control E 500/S

- > Measuring system independent from drive
- > Strong, wear-resistant direct drive of the pusher
- > Industrial PC with Pentium processor
- > Hard disk > 1 GB
- > Memory min. 8 MB RAM
- > 3,5" disk drive
- > 10,4" colour screen and industrial keyboard
- > 2 serial and 1 parallel interface
- > Processing of data sentences is possible (window manufacturing software)

Optional E 500/S

- Free space for network card

Reinforcement screwdriver system
ADS 260/10

- See ADS 260/00, however:
- > Dowel hole drilling unit with two-spindle drilling head and hydro-pneumatic feed
- > Process direction from the right to the left

Reinforcement screwdriver system
ADS 260/11

- See ADS 260/10, however:
- > Process direction from the left to the right

Reinforcement screwdriver system
ADS 260/20

- See ADS 260/10, however:
- ↓ Automatic transom hole drilling unit (from the top) with hydro-pneumatic feed
- > Process direction from the right to the left

Reinforcement screwdriver system
ADS 260/21

- See ADS 260/20, however:
- > Process direction from the left to the right

Reinforcement screwdriver system
ADS 260/22

- > Screws from the top, dowel hole and transom hole drilling from the bottom
- > Process direction from the right to the left

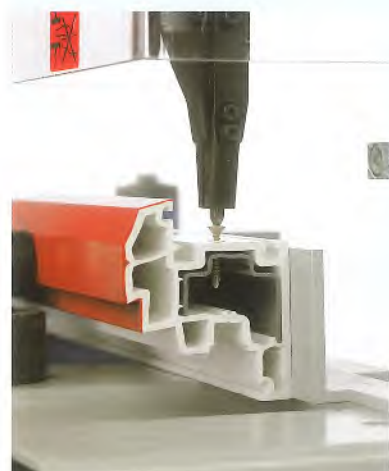
Reinforcement screwdriver system
ADS 260/23

- See ADS 260/22, however:
- > Process direction from the left to the right



ADS 260/00

< Single bar processing >>



**Reinforcement screwdriver system
ADS 259/30**

- > For processing a single profile bar. Automatic screw feed and pusher system with SPS control

Operation process:

- > Putting the profile into the pusher clamp
- > Manual input of the screw distances
- > Automatic transportation of the profile bar and screwing
- > Unloading of profile bar
- > Pusher returns to initial position
- > Automatic depth stop independent from the profile height
- > Pneumatic material clamping horizontal
- > Standard equipped with pusher system and roller conveyor

Technical information

- Max. torque 6 Nm at 2.400 r.p.m.
- Power output 630 W
- Compressed air supply 6 - 7 bar
- Screw length 13,0 - 45,0 mm
- Shaft diameter 3,0 - 4,5 mm
- Screw head diameter 6,0 - 9,0 mm
- Length 5.100 mm, width 700 mm, height 1.960 mm, weight 180 kg

Control system

SPS - control

- > Automatic profile bar positioning
- > Free selection of screw distances
- > Automatic recognition of end of profile bar for positioning the last screw
- > Measuring system independent from drive



ADS 259/11



**Reinforcement screwdriver system
ADS 259/10**

- > For single bar processing
- > Manual profile bar transportation
- > Screwing operation by means of foot pedal switch
- > Manual screw feed
- > Standard equipped with roller conveyor right and left
- > Automatic depth stop independent from the profile height
- > Pneumatic material clamping (horizontal)

Technical information

- Max. torque 6 Nm at 2.400 r.p.m.
- Power output 630 W
- Compressed air supply 6 - 7 bar
- Screw length 13,0 - 45,0 mm
- Shaft diameter 3,0 - 4,5 mm
- Screw head diameter: 6,0 - 9,0 mm
- Length 3.600 mm, width 550 mm, height 1.500 mm, weight 68 kg

**Reinforcement screwdriver system
ADS 259/11**

- See ADS 259/10, however:
- > With automatic screw feed

**Reinforcement screwdriver system
ADS 259/20**

- See ADS 259/11, however:
- > With automatic dowel hole drilling unit (from the bottom)
- > 6-way turret stop to adjust the back fence for different profile widths (manual)



ADS 259/10

Bench version

**Reinforcement screwdriver system
ADS 259/00**

- > For single bar processing
- > Manual transportation of the profile bar
- > Screwing operation by means of foot pedal switch
- > Manual screw feed
- > Automatic depth stop independent from the profile height

Technical information

- Max. torque 6 Nm at 2.400 r.p.m.
- Power output 630 W
- Compressed air supply 6 - 7 bar
- Screw length 13,0 - 45,0 mm
- Shaft diameter 3,0 - 4,5 mm
- Screw head diameter 6,0 - 9,0 mm
- Length 3.600 mm, width 550 mm, height 1.500 mm, weight 68 kg

**Reinforcement screwdriver system
ADS 259/01**

- See ADS 259/00, however:
- > With automatic screw feed

Hand tools

Screw driver RD 2010

- > Screw driver in pistol grip execution for screw feed unit necessary:

Screw feed unit MF 2

- > Automatic screw feed unit for RD 2010

Screw driver TP 2000

- > Screw driver in pistol grip execution for manual screw feed



ADS 259/00



MF 2 + RD 2010



TP 2000

< Water slots for drainage >>

Automatic water slot router WSF 76/00

- > Three routing units for automatic routing and drilling of water slots and ventilation openings in PVC profiles
 - > Compact built router units with automatic feed for routing depth and slot length
 - > Wear-free high frequency motors with speed 17.000 r.p.m.
 - > Complete left and right side machining of a sash or frame profile section by pneumatic adjustment of the upper and rear router units
- 1 Spring loaded and in length adjustable tilting stops enable the machining of profiles with different height to inside dimension
 - 2 Router units are simple adjustable to a scale (angle, height, depth) with hand wheel
- > Two pressure clamping systems for safe material clamping
 - > Router units can be switched on individually. In the automatic working cycle always two units are in operation
 - > Workpiece supports left and right are standard
 - > Standard equipped with 3 TCT cutters (dia. 5 mm)

Technical information

- 3 Router units
- Spindle speed 17.000 r.p.m.
- Drilling stroke 80 mm
- Routing stroke 50 mm
- Power supply 230 V, 1~, 50/60 Hz
- Motors 230/400 V, 3~, 290 Hz
- Power output each motor 550 W
- Compressed air supply 7 bar
- Air consumption per working cycle 15 l
- Length 580 mm, width 1.180 mm, height 1.550 mm, weight 280 kg

Optional

- Upper motor pivoting up to 45°
- Pivoting side stop
- Workpiece supports
- Guide rods
- Adjustable stand
- Collets
- Special cutters

Two head automatic drainage water slot router WSD 76/20

- See WSF 76/00, however:
- > Equipped with two router heads (2 x 3 router units)
 - > A profile section can be simultaneously machined on both ends
 - > With pneumatic clamping of the moveable router head

Technical information

- 2 x 3 router units
- Minimum dimension depending on profile height
- Power supply 230/400 V, 3~, 50/60 Hz
- Motors 230/400 V, 3~, 290 Hz
- Power output each motor 550 W
- Compressed air supply 7 bar
- Air consumption per working cycle 30 l
- Length 3.000 mm, width 1.180 mm, height 1.700 mm, weight 680 kg

Optional

- Additional material supports
- Stop for transom position
- Adjustable stand
- Collets
- Special cutters

Single spindle water slot router AS 70/60

- > Adjustable side stops enable many routing positions
- > Big support table with back fence
- > Routing of water slots for angles from 90° up to 45° (infinitely adjustable)
- > Possibility for routing handle holes and lock cases
- > Standard equipped with universal copying template

Technical information

- Routing range horizontal after stop 250 x 90 mm
- Routing range horizontal after copying template 240 x 90 mm
- Spindle speed 12.000 r.p.m.
- Stroke 110 mm
- Power supply 230/400 V, 3~, 50 Hz
- Power output 740 W
- Length 920 mm, width 650 mm, height 1.440 mm, weight 120 kg

Optional

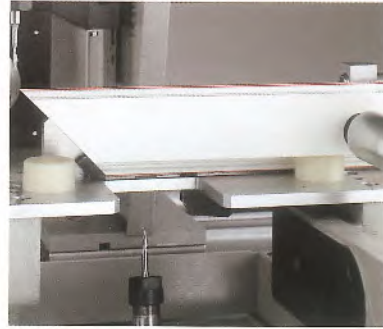
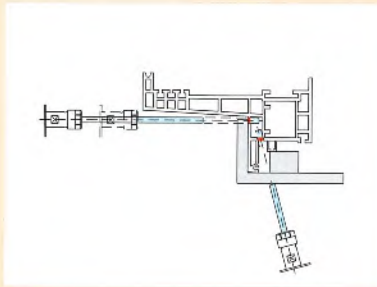
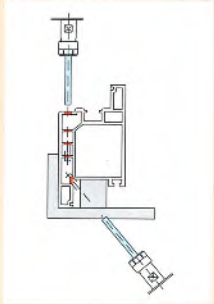
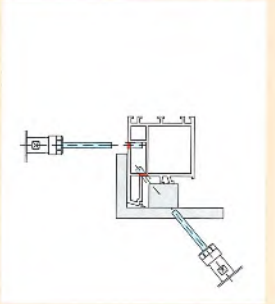
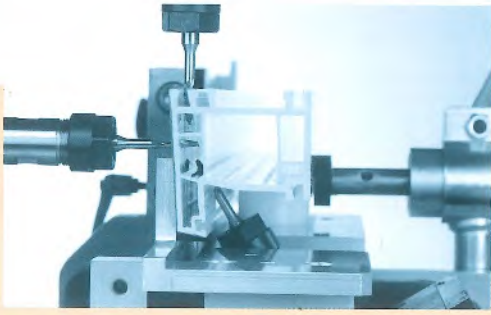
- Profile support extensions
- Copying templates
- Collets
- Special cutters



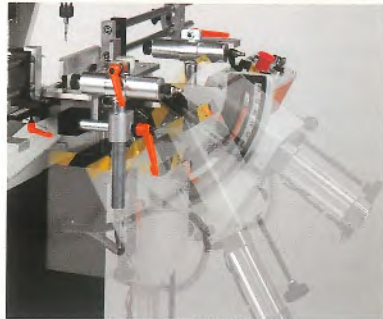
WSD 76/20



AS 70/60



1



2



WSF 76/00

Water slot routers

WSF 76/00, WSD 76/20, AS 70/60



Single spindle copy router AS 70/44

- > Variable use for processing PVC profiles
- > Ideal for sliding systems
- > Precise routing with minimum of effort, simple two-hand operation
- > Copy routing 1:1 ratio therefore easy transfer of the routing pattern from a template on the profile
- > Your own template can be produced (copying the template pattern on a raw template)
- > Possibility of copy routing after stops (only rectangular routing patterns)
- > Can be adjusted easily
- > Pneumatic clamping
- > Manual triple stepped copy finger for different cutter diameter

< The elumatec invention >>

Technical information

- Routing capacity horizontal with length stop 250 x 90 mm
- Routing capacity horizontal with copying template 240 x 90 mm
- Spindle speed 12.000 r.p.m.
- Clamping capacity for sections 180 x 150 mm
- Stroke 110 mm
- Power supply 230/400 V, 3~, 50 Hz
- Power output 740 W
- Compressed air supply 7 bar
- Air consumption per working cycle 12 l
- Length 720 mm, width 650 mm, height 1.440 mm, weight 110 kg

Optional

- Copying templates
- Collets
- Special clampings
- Stands and sets of guide rods
- Workpiece supports and stops
- Cutters

Single spindle copy router AS 70/45

- See AS 70/44, however:
- > Speed switch from 12.000 r.p.m. to 6.000 r.p.m. for routing thin walled steel profiles

Single spindle copy router AS 70/50

- See AS 70/44, however:
- > Bench model
 - > Manual clamping
 - > Without compressed air supply

Single spindle copy router AS 70/51

- See AS 70/50, however:
- > Single phase - AC - version



AS 70/44



AS 70/50

**Router and triple spindle drill
GF 171**

- > Height adjustable triple spindle drill unit with automatic feed for working on two planes without reclamping the material
- > Possibility of door processing
- > Routing to stops or template in 1:1 ratio
- > Double acting pneumatic copy finger for two different tool diameters
- > Simple tool changing thanks to spindle lock
- > Pneumatic material clamping

Technical information

- Routing capacity horizontal with length stop 300 x 120 mm
- Routing capacity horizontal with copying template 290 x 110 mm
- Spindle speed router 12.000 r.p.m.
- Clamping capacity for sections with drilling unit 150 x 110 mm adjustable up to 400 mm
- Stroke 105 mm
- Power supply 230/400 V, 3~, 50 Hz
- Capacity of routing motor
- Spindle speed 12.000 r.p.m.
- Power output 740 W
- Capacity of drilling motor
- Spindle speed 750 r.p.m.
- Power output 940 W
- Compressed air supply 7 bar
- Air consumption per working cycle 12 l
- Length 770 mm, width 840 mm, height 1.380 mm, weight 220 kg

Optional

- GF 171/10 with self-centering device
- GF 171/11 with length stop system left and right for constant positions
- Additional pneumatic copy fingers (for optimum use of the copying template)
- Hydro-pneumatic feed with rapid movement
- Collets
- Special material clampings
- Stop systems
- Routing and drilling tools



GF 171



< Handy and strong >>

End milling machine AF 221

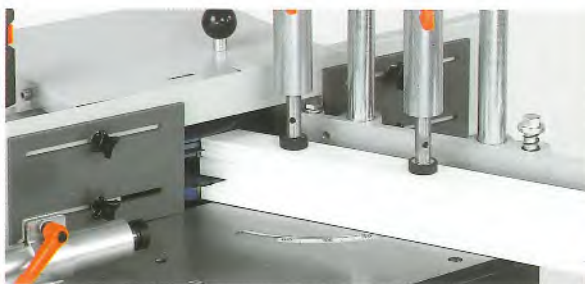
- > For milling transoms and sockets
- > Manual feed of milling
- > Tools can be used up to 250 mm diameter
- > Adjustable fence can be swivelled to left and right up to 45°
- > With fast tool change system and « spindle lock » for easy tool exchange
- > Easy running high - precision, hard wearing ball races
- > Flexible, due to horizontal and vertical pneumatic clamps
- > Integrated support with exhaust hose for connecting up with extraction system
- > Easy to adjust tool guard. Can be adapted to any shape
- > Depth stop for four different notching depths

Technical information

- Cutter diameter 250 mm max.
- Spindle speed 2.800 r.p.m.
- Cutter - head feed manual
- Routing capacity height 100 mm
- Routing capacity depth 90 mm
- Routing capacity length 250 mm
- Stroke 350 mm
- Power supply 230/400 V, 3~, 50 Hz
- Power output 2.000 W
- Compressed air supply 7 bar
- Air consumption per working cycle 10 l
- Length 800 mm, width 800 mm, height 1.000 mm, weight 100 kg

Optional

- Special stop for corner cleaning
- Chuck for router quick change clamping system
- Special clampings
- Spacer washer
- Air filter, regulator
- Extraction unit
- Set of cutters



AF 221



End milling machine AF 222

- See AF 221, however:
- > Work table can be adjusted up and down using handwheel infinitely adjustable
 - > Adjustable fence, can be swivelled to the left and right up to 60°, recessed notching cuts up to 30° (acute angle to the left and right)
 - > Tools can be used up to 280 mm diameter
 - > Large working area up to 400 mm profile width
 - > More powerful motor capacity 2.500 W
 - > Manual feeding with pneumatic clamping (gas pressure spring)

Technical information

- Cutter diameter 280 mm max.
- Spindle speed 2.800 r.p.m.
- Feed manual
- Routing capacity height 150 mm
- Routing capacity depth 110 mm
- Routing capacity length 400 mm
- Stroke 550 mm
- Power supply 230/400 V, 3~, 50 Hz
- Power output 2.500 W
- Compressed air supply 7 bar
- Air consumption per working cycle 10 l
- Length 1.540 mm, width 905 mm, height 1.000 mm, weight 248 kg



AF 222

End milling machine AF 223

- See AF 222, however:
- > Automatic machining cycle

Technical information

- Feed automatic
- Air consumption per working cycle 15 l
- Length 1.540 mm, width 905 mm, height 1.200 mm, weight 260 kg

Optional

- Hydropneumatic milling feed
- Set of cutters
- Material stop automatically pivotable

End milling machine AF 224/00

- See AF 223, however:
- > 1 drill unit

Optional

- Multi spindle drill heads

End milling machine AF 224/20

- See AF 223, however:
- > 2 drill units

Optional

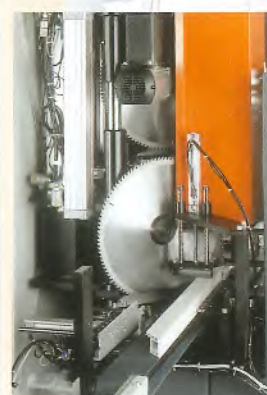
- Multi spindle drill heads



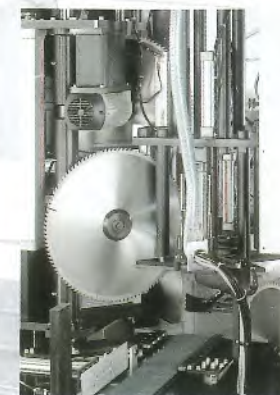
AF 223



1



2



3

< Today is solved, what yesterday has been still impossible >>



SBZ 610/33/R

Profile machining centre SBZ 610

The modular design of the machining centres of the «SBZ 610 generation» enables automation solutions for every need thanks to different execution levels

Depending on the execution the following operations which are independent from the profile system (without counter profiles) can be processed fully automatic in PVC. (Capacity up to 120 units in 8 hours)

1 Operations in PVC

- Overall processing of PVC profiles (before reinforcement):
- > Water slot routing
- > Lock case routing
- > Handle hole drilling (door)
- > Closing component marking
- > Closing component drilling
- > Gasket groove routing (for transom joints)
- > Ventilation hole drilling
- > Pre-cutting of gasket for profiles with inserted gasket
- > Gasket groove routing for profiles with inserted gasket
- > Routing of lock cylinder
- > Routing for roller shutter winder location
- > Roller shutter rail drilling
- > Trip cap drilling
- > Routing for roller location (sliding systems)
- > Routing for electrical door opener

2 Cutting

- > Mitre cuts (45°/45°)
- > 90°-cuts
- > V-notching, single sided at frame profile and double sided at mullion and transom profiles
- > Transom cuts for welded transom joints (arrow head cuts)
- > Alternating cuts

3 Operations in PVC and reinforcement profile

- Overall processing of the profile section (after reinforcement):
- > Reinforcement screw driving
- > Dowel hole drilling
- > Transom hole drilling
- > Corner and scissor bearing drilling
- > Handle hole drilling (window)
- > Door hinge drilling
- > Corner drive drilling
- > Closing component drilling



< Single head welding machines >

Single head welding machine ES 710 Lv

- > Infinitely adjustable stops enable the welding of all angles between 30° - 180°
- > Heated weld-bead restriction knives, adjustable from 0,2 to 2,0 mm for welding of foil- and acrylic coated profiles
- > Welding possibility of very wide profiles (monobloc, etc.)
- > Automatic adjustment of the melting time in the case of different profile cross sections by sensor-controlled burn-off time
- > Maintenance friendly, for example by easy cleaning of the heater plates and changing of the teflon is very easy thanks to special clamp springs
- > Optimum welding results by means of parallel table movement
- > Easy changing of the profile back fence for different burn-off
- > Corrosion proof guiding for the welding slide head
- > Standard equipped with height adjustable support arms

Technical information

- Use 1, 2, 3
Heater plate size - L- heater plate:
- Width 340 mm
- Height 300 mm
- Max. profile width at 90°: 180 mm
- Max. profile width at 180°: 220 mm
- Max. profile height 210 mm
- Min. profile height 40 mm
- Min. profile height (with special back fence) 20 mm
- Range of angle setting 30° - 180°
- Power supply 230/400 V, 1~, 50 Hz
- Power output 2.800 W
- Compressed air supply 6 - 8 bar
- Air consumption per welding cycle 20 l
- Weld bead restriction 0,2 - 2,0 mm
- Weld bead temperature control 30° - 70°C
- Heater plate temperature control 120° - 300°C
- Welding time control 0- 99 sec.
- Cooling time control 0 - 99 sec.
- Length 850 mm, width 950 mm, height 1.900 mm, weight 500 kg

Optional

- Teflon
- Outer limiters
- Outer limiters for profiles with retracted gaskets

Single head welding machine ES 701 Tv

See ES 710 Lv, however:

- > For transom and cross welding
- > Combination welding head for welding all angles between 30° and 180°
- > Possibility of welding transoms and cross in different angles
- > Precise guidings enable a transom welding without problems

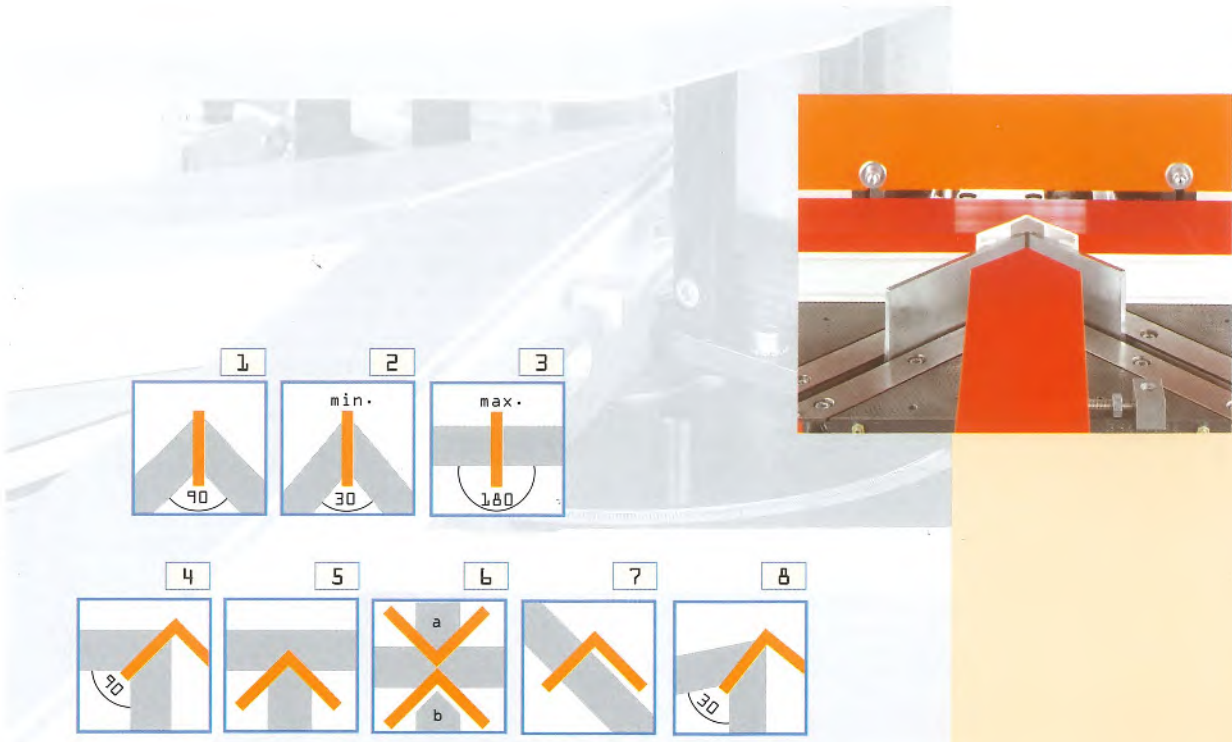
Technical information

- Use 4, 5, 6 (a or b), 7, 8
Heater plate size - T- heater plate:
- Width 255 mm
- Height 300 mm
- Max. profile width at 90°: 150 mm
- Max. profile width at 180°: 150 mm
- Max. profile height 210 mm
- Min. profile height 40 mm
- Min. profile height (with special back fence) 20 mm
- Range of angle setting 30° - 180°
- Power supply 230/400 V, 1~, 50 Hz
- Power output 3.000 W
- Compressed air supply 6 - 8 bar
- Air consumption per welding cycle 20 l
- Weld bead restriction 0,2 - 2,0 mm
- Weld bead temperature control 30° - 70°C
- Heater plate temperature control 120° - 300°C
- Welding time control 0- 99 sec.
- Cooling time control 0 - 99 sec.
- Length 850 mm, width 950 mm, height 1.950 mm, weight 520 kg

Optional

- Teflon
- Outer limiters
- Outer limiters for profiles with retracted gaskets





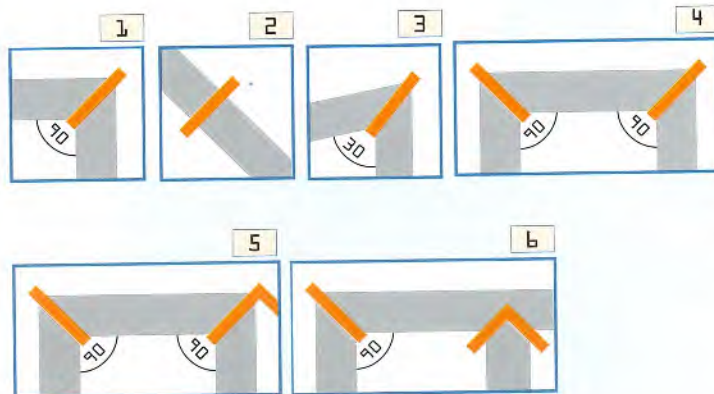
Single head welding machines

ES 710 Lv, Es 701 Tv



elumatec multi-head welding machines offer a high degree of quality, ease of use and flexibility.

There is a choice of 2 basic welding heads which can be lined up almost at will and in different numbers on the stand.



Two-head welding machines

Two-head welding machine ZS 720 LV

- > Fixed L-head (90°)
- > Variable L-head (30° - 180°)

Technical information

Heater plate sizes:

- L-heater plate: Width 340 mm, height 300 mm
- 2 L-heater plates
- Max. profile width at 90°: 180 mm
- Max. profile width at 180°: 220 mm
- Max. profile height 210 mm
- Min. profile height 40 mm
- Min. profile height (with special back fence) 20 mm
- Max. profile length 2.520 mm (special length optional)
- Smallest frame size 300 mm
- Range of angle setting 30° - 180°
- Power supply 230/400 V, 3N~, 50/60 Hz
- Power output 4.200 W
- Use 1, 2, 3, 4
- Length 3.000 mm, width 750 mm, height 2.000 mm, weight 800 kg

Two-head welding machine ZS 711 LT

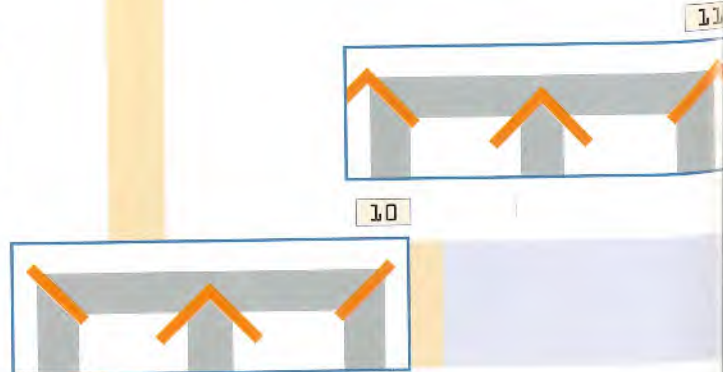
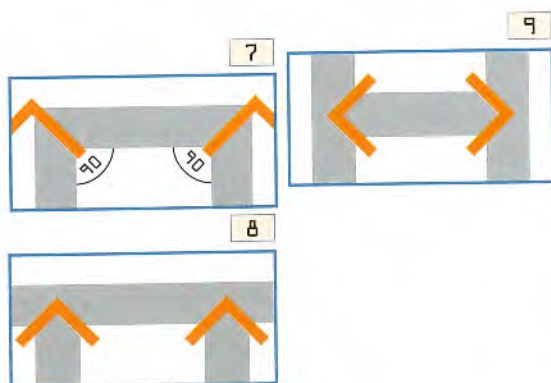
- > Fixed L-head (90°)
- > Variable T-head for angles (30°-180°), transom and cross welding

Technical information

Heater plate sizes:

- L-heater plate: Width 340 mm, height 300 mm
- T-heater plate: Width 255 mm, height 300 mm
- 1 L-heater plate, 1 T-heater plate
- Max. profile width at 90°: 180 mm
- Max. profile width at 180°: 220 mm
- Max. profile height 210 mm
- Min. profile height 40 mm
- Min. profile height (with special back fence) 20 mm
- Max. profile length 2.550 mm (special length optional)
- Smallest frame size 300 mm
- Range of angle setting 30° - 180°
- Power supply 230/400 V, 3N~, 50/60 Hz
- Power output 4.800 W
- Use 5, 6
- Length 3.000 mm, width 750 mm, height 2.250 mm, weight 920 kg

< The new generation - even more possibilities >>



Two-head welding machine ZS 702 THv

- > Two variable T-heads for angles (30°-180°), transom and cross welding. Both heads 90° pivotable inwards for H-welding

Technical information

- Heater plate sizes:
- T-heater plate: Width 255 mm, height 300 mm
 - 2 T-heater plates
 - Max. profile width at 90°: 150 mm
 - Max. profile width at 180°: 150 mm
 - Max. profile height 210 mm
 - Min. profile height 40 mm
 - Min. profile height (with special back fence) 20 mm
 - Max. profile length 2.600 mm (special length optional)
 - Smallest frame size 285 mm
 - Range of angle setting 30° - 180°
 - Power supply 230/400 V, 3N~, 50/60 Hz
 - Power output 5.600 W
 - Use 7, 8, 9
 - Length 3.000 mm, width 750 mm, height 2.250 mm, weight 1.000 kg

Three-head welding machines

Three-head welding machine DS 721 LTV

- > Fixed L-head (90°)
- > Variable T-head (moveable in lateral axis) for angles (30°-180°), transom and cross welding
- > Variable L-head (30°-180°)

Technical information

- Heater plate sizes:
- L-heater plate: Width 340 mm, height 300 mm
 - T-heater plate: Width 255 mm, height 300 mm
 - 2 L-heater plates, 1 T-heater plate
 - Max. profile width at 90°: 180 mm
 - Max. profile width at 180°: 220 mm
 - Max. profile height 210 mm
 - Min. profile height 40 mm
 - Min. profile height (with special back fence) 20 mm
 - Max. profile length 3.520 mm (special length optional)
 - Smallest frame size 300 mm
 - Range of angle setting 30° - 180°
 - Power supply 230/400 V, 3N~, 50/60 Hz
 - Power output 8.000 W
 - Use 10
 - Length 4.000 mm, width 750 mm, height 2.250 mm, weight 1.150 kg

Three-head welding machine DS 703 THv

- > Three variable T-heads (90°) (all of them can be moved in the lateral axis) for angles 30° - 180°, transom and cross welding. The middle and right hand welding head can be pivoted 90° inwards for H-welding

Technical information

- Heater plate sizes:
- T-heater plate: Width 255 mm, height 300 mm
 - 3 T-heater plates
 - Max. profile width at 90°: 150 mm
 - Max. profile width at 180°: 150 mm
 - Max. profile height 210 mm
 - Min. profile height 40 mm
 - Min. profile height (with special back fence) 20 mm
 - Max. profile length 3.650 mm (special length optional)
 - Smallest frame size 285 mm
 - Range of angle setting 30° - 180°
 - Power supply 230/400 V, 3N~, 50/60 Hz
 - Power output 9.000 W
 - Use 11, 12
 - Length 4.000 mm, width 750 mm, height 2.250 mm, weight 1.250 kg

Four-head welding machines

Four-head welding machine VS 704 THv

- > With four variable T-heads. All welding heads can be pivoted 90° inwards in pairs for H-welding

Technische Daten

- Heater plate sizes:
- T-heater plate: Width 255 mm, height 300 mm
 - 4 T-heater plates
 - Max. profile width at 90°: 150 mm
 - Max. profile width at 180°: 150 mm
 - Max. profile height 210 mm
 - Min. profile height 40 mm
 - Min. profile height (with special back fence) 20 mm
 - Max. profile length 4.650 mm (special length optional)
 - Smallest frame size 285 mm
 - Range of angle setting 30° - 180°
 - Power supply 230/400 V, 3N~, 50/60 Hz
 - Power output 11.500 W
 - Use 13, 14, 15, 16
 - Length 5.000 mm, width 750 mm, height 2.250 mm, weight 1.750 kg



12



14



15



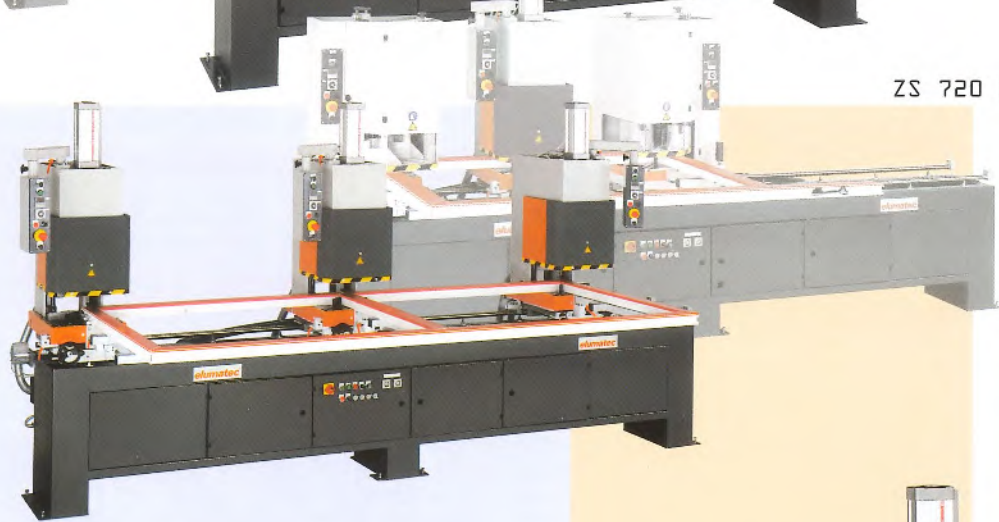
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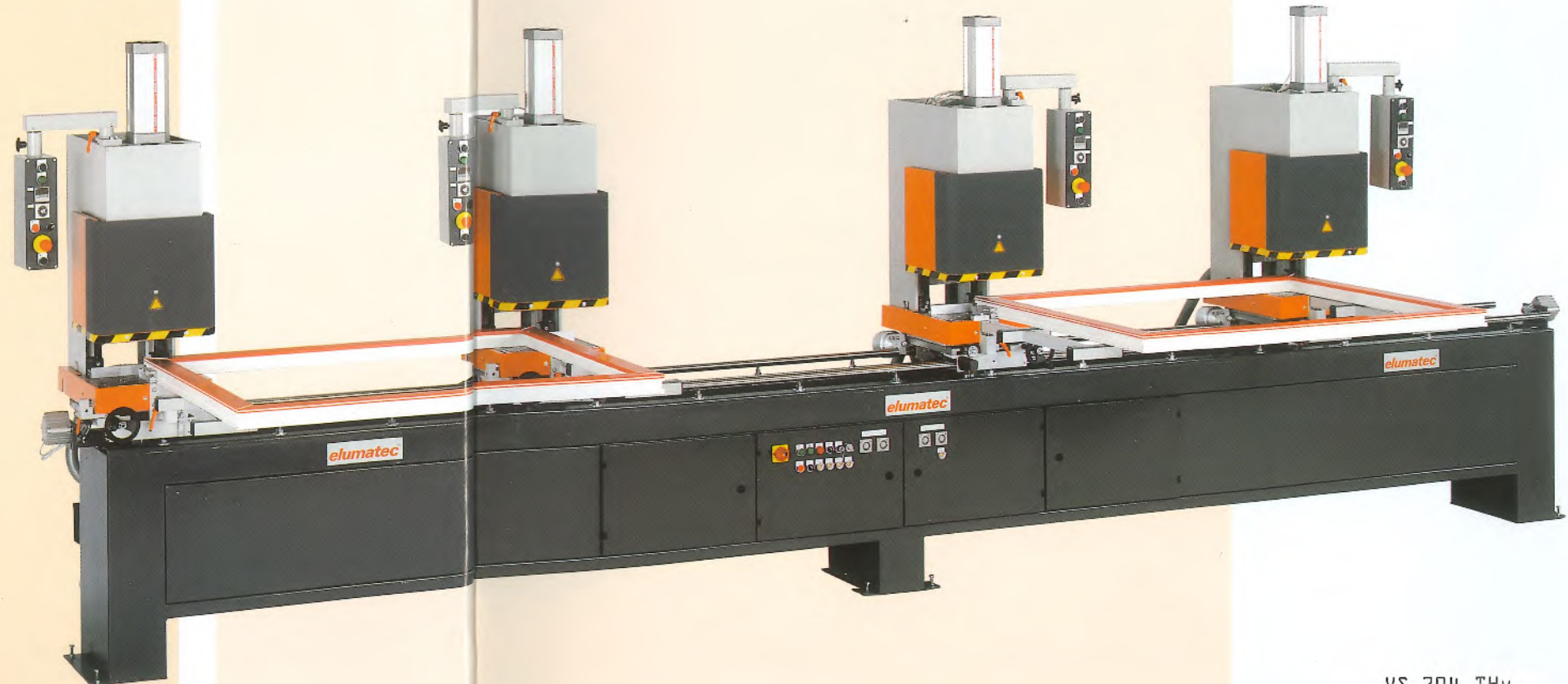
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ZS 720 Lv



DS 703 THv



VS 704 THv



< Your requirement - Our solution >

**Four - head welding machines
SE-HSM-4K, SE-VSM-4K**

- > Fully automatic four corner welding of PVC window profiles at an angle of 90°
- > Four - head welding machines offer individual solutions for our customers. For matching space availability we are able to supply horizontal SE -HSM - 4K or vertical SE -VSM - 4K types in various dimensions
- > Welding of a complete window frame or sash in one cycle. Exact welding to presetted dimensions (computer controlled)
- > User friendly, free programmable monitor - dialog control by use of an industrial PC
- > Welding of very small frames possible
- > By means of special accessories elumatec offers the possibility to integrate vertical or horizontal Four - head welding machines into automatic welding and cleaning lines at a later time (see page 40)
- > All profile related welding parameters are individually programmable

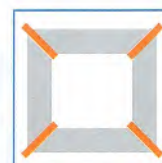
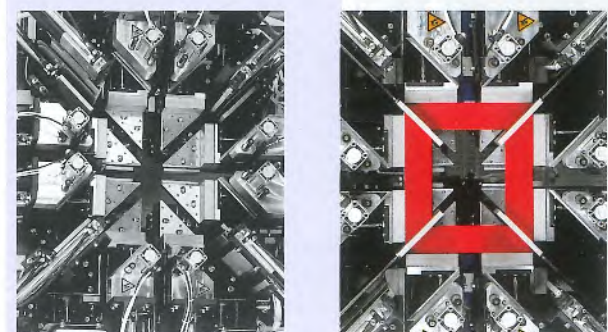
Technical information

- Heater plate sizes:
- L -heater plate: Width 295 mm, height 215 mm
 - L -heater plates
 - Max. profile width 130 mm
 - Max. profile height 180 mm
 - Min. profile height 430 mm
 - Max. profile length SE -HSM/VSM - 4K 30/26:
 - 3.000 x 2.600 mm
 - Max. profile length SE -HSM/VSM - 4K 40/26:
 - 4.000 x 2.600 mm
 - Smallest frame size, manual off - loading system 290 mm
 - Smallest frame size, automatic off-loading system 320 mm
 - Range of angle setting 90° constant
 - Power supply 230/400 V, 3~, 50 Hz
 - Power output 10.000 W

Optional

- Outer limiters
- Outer limiters for profiles with retracted gasket
- Teflon
- Special heater plates

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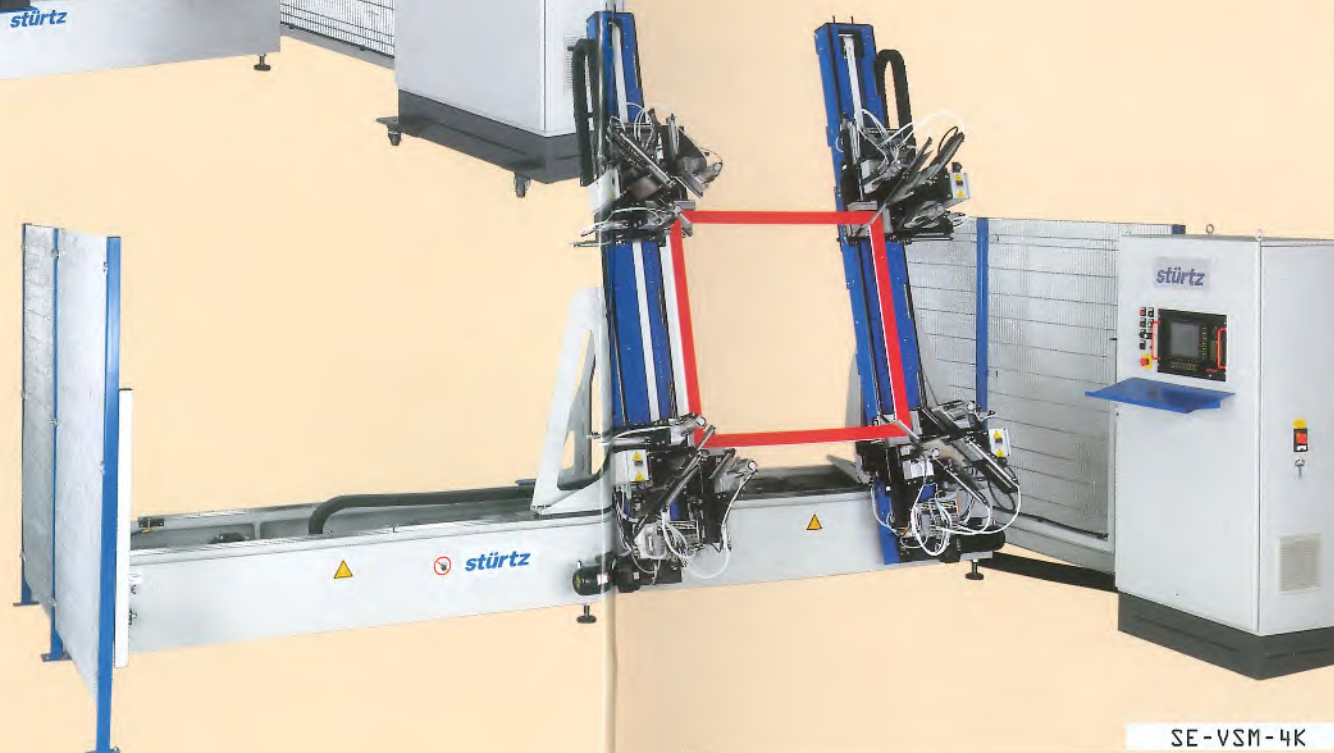


< Foundation stone for

the economical PVC window manufacturing >>



SE-HSM-4K



SE-VSM-4K

< Corner cleaning >>

Welding bead hand groover Z 7402

- > For corner and transoms
- > Working on both sides simultaneously
- > Easy handling

Technical information

- Cutting length 0 - 180, 230 mm
- Use 1, 3
- Compressed air supply 7 bar
- Air consumption per working cycle 10 l
- Length 480 mm, width 460 mm, height 370 mm, weight 5 kg

Optional

- One-way knife

Universal welding bead hand groover Z 7405

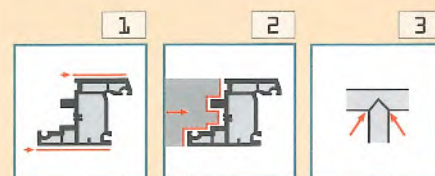
- > For 90° corner, archs and special angles
- > One sided working
- > Easy handling

Technical information

- Cutting length 0 - 180, 230 mm
- Use 1
- Compressed air supply 7 bar
- Air consumption per working cycle 10 l
- Length 720 mm, width 320 mm, height 490 mm, weight 4 kg

Optional

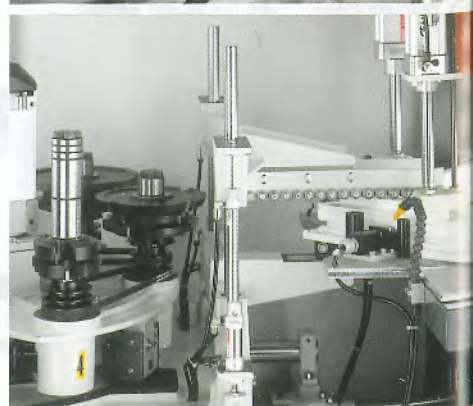
- One-way knife



Z 7402



Z 7405



Corner cleaning machine EV 834

The elumatec corner cleaner EV 834 is processing simultaneously the outer contour as well as the weld seam on the upper and lower surface of the profile.

Precise and safe:

- > With spring loaded grooving knives we can achieve optimum grooving on convex as well as on concave profile surfaces (profile tolerances).
- > The adjustable feed-in mechanism infeeds precise and safe heavy and high profile sections (e.g. doors).
- > During the process, profiles cannot twist as they are clamped horizontally and vertically.
- > A standard built-in blow off system prevents chips to remain and to cause inaccuracy.
- > The intelligent profile distinguishing system and a fully automatic working cycle eliminate errors.

Powerful and efficient:

- > High performance motor with extremely quiet running special bearing provides high power reserves.
- > For the outer contour 4 free selectionable cutter blocks are available - this minimizes the change-over times.
- > No problems with profiles of extreme depth (off-set). On all 4 spindle locations cutter diameters of max. 260 mm are possible.

Versatile and user friendly:

- > If needed, the grooving knives upper and lower as well as the cutterblocks can be activated individually
- > Individually adjustable cutting depth by means of different stops.
- > Easy arranging and changing of cutter blocks.
- > Standard support arms are optimizing the stability and ergonomy.
- > Easy access to tools, stops and clamping devices for adjustment and maintenance.

Technical information

- Use 1, 2
- Frame size max. theoretically unlimited
- Outside frame size min. 290 x 290 mm
- Inside frame size min. 160 x 160 mm
- Profile height max. 200 mm
- Profile height min. 25 mm
- Cutter diameter max. 260 mm
- Spindle speed 3.400 r.p.m.
- Diameter of milling spindle 32 mm
- Power supply 230/400 V, 3~, 50 Hz
- Power output 2.500 W
- Compressed air supply 7 bar
- Air consumption per working cycle 100 l
- Length 980 mm, width 1.680 mm, height 1.670 mm, weight 570 kg

Option

- Milling spindle 200 mm
- Milling set for frame 62 mm high, 3 disks, 4 teeth



EV 834

Corner cleaning machine SE-2AS-CNC

- > Machining of welded PVC window profiles at an angle of 90° in a short cycle time
 - > Complete inner corner machining with inner corner kniving units and gasket groove drilling units upper and lower
 - > Free programmable 2 axis control with a standard memory capacity for 40 different profiles (standard) and automatic profile identification
- 2 Disk cutter for universal application without tool changing for different outer contours of profiles

Technical information

- Use 1, 2, 3, 4, 5
- 6 2 CNC-controlled axis
- Memory capacity 40
- Frame size max. unlimited
- Frame size min.
- Outside 290 x 290 mm
- Inside 175 x 175 mm
- Profile height standard max. 100 mm, 180 mm (optional)
- Profile height min. 40 mm
- Profile width max. 140 mm
- Profilhöhe max. 100
- Sawblade speed 5.700 r.p.m.
- Sawblade spindle diameter 30 mm
- Power supply 230/400 V, 3~, 50 Hz
- Power output 8.000 W
- Compressed air supply 6 - 7 bar
- Air consumption per working cycle 500 l
- Cycle time 2,5 per min. (depending on profile)
- Length 2.100 mm, width 3.400 mm, height 2.150 mm, weight 1.200 kg

Optional

- Upper drilling unit pivotable
- Automatic turning station with integrated loading and unloading of the profile frame:
- Max. frame size with turning station 2.300 x 2.300 mm
- Length 7.000 mm, width 4.750 mm, height 2.150 mm, weight 1.800 kg

Corner cleaning machine SE-4AS-CNC

See SE-2AS-CNC however:

- > Free programmable 4-axis control with a standard memory capacity for 120 different profiles
- 7 Shorter cycle times. 2 more CNC axis enable simultaneous machining processes
- > Possibility of location of special tools in all levels

Technical information

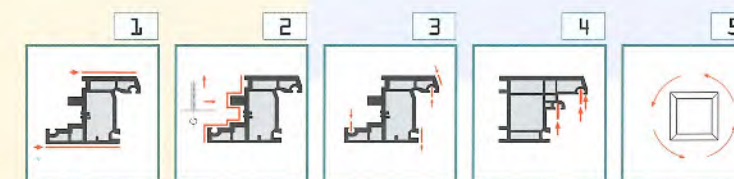
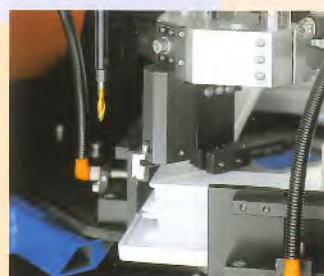
- Use 1, 2, 3, 4, 5
- 4 CNC-controlled axis
- Memory capacity 120
- Air consumption per working cycle 550 l
- Cycle time < 2,5 min. per min. (depending on profile)
- Length 2.100 mm, width 3.400 mm, height 2.150 mm, weight 1.250 kg

Optional

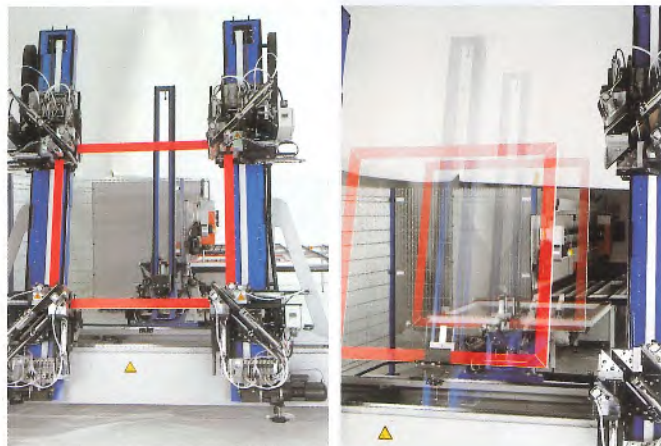
- Automatic turning station

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< CNC-controlled corner cleaning machines >>



SE-4AS-CNC with turning station



According to the customer's requirement concerning the manufacturing flow or the production capacity the special "modular designed system" offers combination possibilities to individual production lines:

Horizontal or vertical Single Line

- > The economic combination of a horizontal or vertical four-head welding machine with an automatic corner cleaning machine to one production unit
- > Starting from loading the window profiles to the welding and corner cleaning process up to the automatic unloading of the window frames/sashes into following production units, the Single Line is a compact production system, easy to operate
- > The combination of the vertical version with an automatic corner cleaning machine enables the off-loading to the rear or to the side
- > High production security by data transfer between welding and corner cleaning machines
- > Operation possibilities: Manual input, disk, online

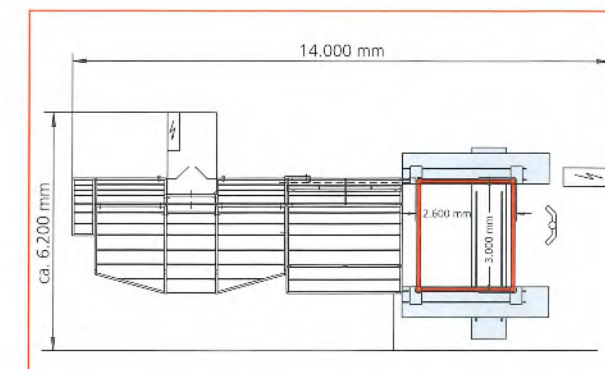
Technical information

- See individual machines pages 34 und 38

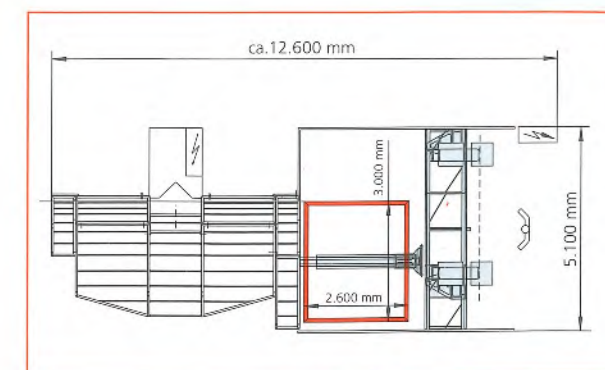
Stürtz machines exclusively sold by elumatec



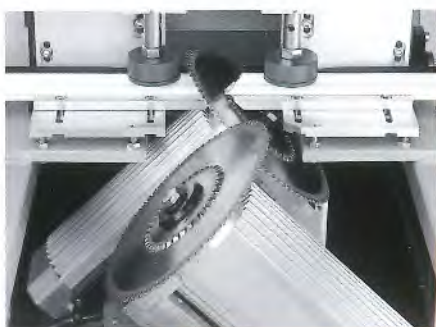
Single Line vertikál



Single Line horizontal



Single Line vertical



1



2

Glazing bead saw GLS 192

- 1 Horizontal V-cutting saw with sets of special saw blades for simultaneous undercutting of the glazing bead profile
- 2 Two glazing beads can be cut simultaneously without problems (double cutting)
 - > Standard equipped with two vertical clampings
 - > Automatic saw feed with foot pedal operation
 - > Equipped with swarf extracting attachment for connection with extraction system for rest pieces (optional)
 - > With profile supports suitable for many different glazing beads

Technical information

- Cutting capacity see cutting diagram
- Sawblade diameter 200 mm, 98 mm (beveled 45°)
- Spindle speed 2.800 r.p.m.
- Power supply 230/400 V, 3~, 50 Hz
- Power output 900 W
- Compressed air supply 7 bar
- Air consumption per working cycle 20 l
- Length 600 mm, width 960 mm, height 1.180 mm, weight 123 kg

Optional

- 3 Clamping device for special glazing beads
 - Extraction unit for rest pieces
 - Roller conveyor with stand
 - Length stop and measuring systems see page 9
 - Profile supports
 - Sawblades

Measurement of glazing beads

Electronic measuring system for glazing beads EMA 201

- > Electronic measuring of glazing bead profiles. Accuracy 0,2 mm
- 4 Data input via measuring chip (telescopic measuring rod), diskette, online or manually
 - > Measurements stored in a memory chip, therefore no trailing cables are necessary
 - > Light handy telescope measuring bar with possibility to memorize more than 255 different measurements
 - > Standard equipped with electronic telescopic measuring rod (measuring length 2.500 mm) and memory cassette

Optional

- Length variations

Electronic variations

Automatic cutting length adjustment with positioning electronic E 255

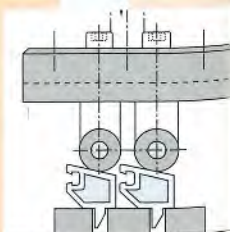
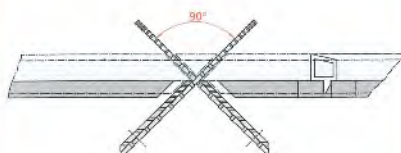
- > Drive independent measuring system
- > Strong, low wear direct drive of the moveable sawing unit
- > With 255 memory positions and correction values assigned to 35 profile numbers
- > Switch over from mm/inch
- > Interface RS 232

Automatic cutting length adjustment with PC-control E 500/1

- > Measurement system independent from drive
- > Pneumatic lock at position
- > Strong, low wear direct drive of the moveable sawing unit
- > Industrial PC with Pentium processor
- > Hard disk > 1 GB
- > Memory capacity min. 8 MB RAM
- > 3,5" diskette drive
- > 10,4" colour monitor and industrial keyboard
- > 2 serial and 1 parallel interface facility for connection of a label printer or barcode scanner

Manual measuring system MMA 201

- > Manual measuring of glazing beads by mechanical scanning
- > Manual measuring up to 1.500 mm, with extension up to 2.500 mm





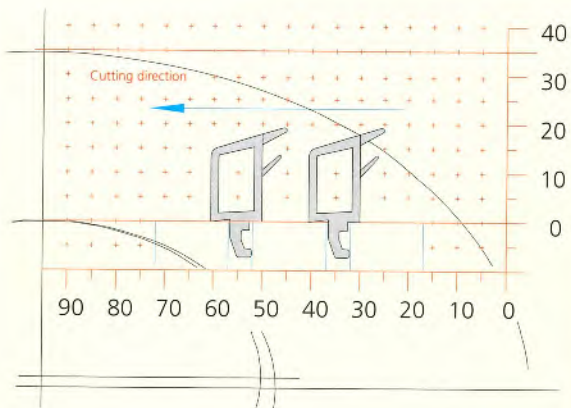
EMA 201 + E 500



4



EMA 201 + E 255



GLS 192 + MMA 201



GLS 192 + EMA 201 + E 255



< Bending >>



PBM 382

Bending machine PBM 382

- > Bending table has a very smooth surface which does not leave any dents on the bended profiles
- > Optimum location of the heating elements as well as the state of the art heat stream guarantees a steady (oder continuous) warming up of the profile bar
- > By opening the ends of the heating channel 6 m profile bars also can be warmed up
- > The dry bending method does not leave environmental hazardous waste
- > Expensive disposal of used bending liquid is unnecessary
- > For the operator not health hazardous
- > Economical solution without (numerous) replacing of the bending liquid
- > No contamination of the working area by draining off bending oil

Technical information of the bending oven

- Max. temperature 160°C
- Power supply 3 x 230/400 V, 3~, 50 Hz
- Power output 13.500 W
- Length 4.200 mm, width 1.050 mm, height 1.450 mm, weight 290 kg

Technical information of the bending table

- Min. bending radius:
 - Depending on profile approx. 5 x profile width
 - Semicircular arch 300 mm
- Max. bending radius:
 - Semicircular arch 750 mm
- Length 2.800 mm, width 1.600 mm, height 870 mm, weight 100 kg





BW 7300

Hardware trolley BW 7300

- > Moveable and field-proven hardware working place
- > Punching press and measuring system
- > Two working surfaces of wood
- > Seven stepped containers of metal

Technical information

- Four running castors, two with locking brakes
- Working capacity 300 kg
- Length 1.100 mm, width 700 mm, height 1.000 mm
- weight 60 kg

Profile transport trolley PWS 1000

- > Stable transportation trolley for internal use
- > Vertical profile transportation
- > Suitable for 30 - 40 profile sections
- > Holding compartments adjustable in height

Technical information

- 8 Compartments
- Clear width 100 mm
- Working capacity 350 kg
- Length 1.100 mm, width 700 mm, height 1.000 mm
- weight 65 kg



PWS 1000

Frame transport trolley RF 1000

- > Vertical frame transport
- > Compartments for nine frames
- > Compartments adjustable in height

Technical information

- 9 compartments
- Clear width 90 mm
- Working capacity 350 kg
- Length 1.100 mm, width 900 mm, height 1.500 mm
- weight 65 kg



RF 1000

Reinforcement profile trolley AW 800

- > Vertical storage and transportation of steel profiles
- > Cut-lengths stored in visible length sequences
- > Minimum space requirement

Technical information

- Working capacity 400 kg
- Length 800 mm, width 600 mm, height 1.000 mm
- weight 55 kg



AW 800

Sealing gasket trolley DW 2

- > Accommodates two gasket rollers
- > Adjustable to suit different gasket roll diameters
- > Storage for tools

Technical information

- Four running castors, two with locking brakes
- Length 900 mm, width 900 mm, height 1.050 mm
- weight 30 kg

Sealing gasket trolley DW 4

- See DW 2, however:
- > Accommodates four gasket rollers

Technical information

- Length 900 mm, width 900 mm, height 1.870 mm
- weight 40 kg

Commissioning trolley KW 1

- > For inner and outside factory use
- > Profile surface with rubber covering

Technical information

- Working capacity 500 kg
- Length 2.000 mm, width 1.100 mm, height 1.900 mm
- weight 160 kg



DW 2

DW 4



KW 2

Hardware assembly table FLA 2000

- > Working table for hardware assembly on the window sash
- > Universal use for working frame and sash
- > Tilting table for fatigue-free operation
- > Favourable working position
- > Pivoting hold-fast rollers for easy turning of the sashes
- > Large tool surface

Technical information

- Length 2.000 mm, width 1.300 mm, height adjustable 850 - 1.000 mm, weight 90 kg

Hardware assembly table 2500

See FLA 2000 however:

- > For large elements

Technical information

- Length 2.500 mm, width 1.300 mm, height adjustable 850 - 1.000 mm, weight 105 kg

Hardware assembly table FLA 2505

- > Hardware assembly table for economical screwing of Hardware parts
- > Screwing unit with automatic feed
- > Manual input device for second screw size
- > Pneumatic adjustable height of the screwing slide
- > Table pneumatic tilting
- > Pivoting hold-fast rollers for easy turning of the sashes
- > Guiding system for screwing unit
- > Automatic screw feeding
- > Automatic depth stop

Technical information

- Length 2.800 mm, width 1.800 mm, height adjustable 850 - 1.000 mm, weight 140 kg

Turn table DT 1000

- > Turn table for economical retraction of the gaskets
- > Quick adjustment to different frame sizes by means of four pivotable and infinitely extendable support arms
- > Table can be rotated 360° and be clamped with foot pedal at any position
- > Support arms are felt-coated
- > Tool surface

Technical information

- Length of support arms 900 - 1.500 mm
- Length 2.000 mm, width 1.200 mm, height adjustable 850 - 1.100 mm, weight 75 kg



DT 1000

Assembly table MT 2000

- > Stable assembly table for all workings on frames and sashes
- > Height adjustable
- > Stable steel construction
- > Plastic slide rails
- > Easily assembled by building-block system
- > Two storage trays for tools

Technical information

- Compressed air supply four-fold
- Length 2.000 mm, width 1.300 mm, height adjustable 850 - 1.100 mm, weight 70 kg

Assembly table MT 3000

See MT 2000 however:

- > Enlarged support table for large elements

Technical information

- Length 3.000 mm, Width 1.300 mm, height adjustable 850 - 1.100 mm, weight 90 kg



MT 3000



FLA 2500



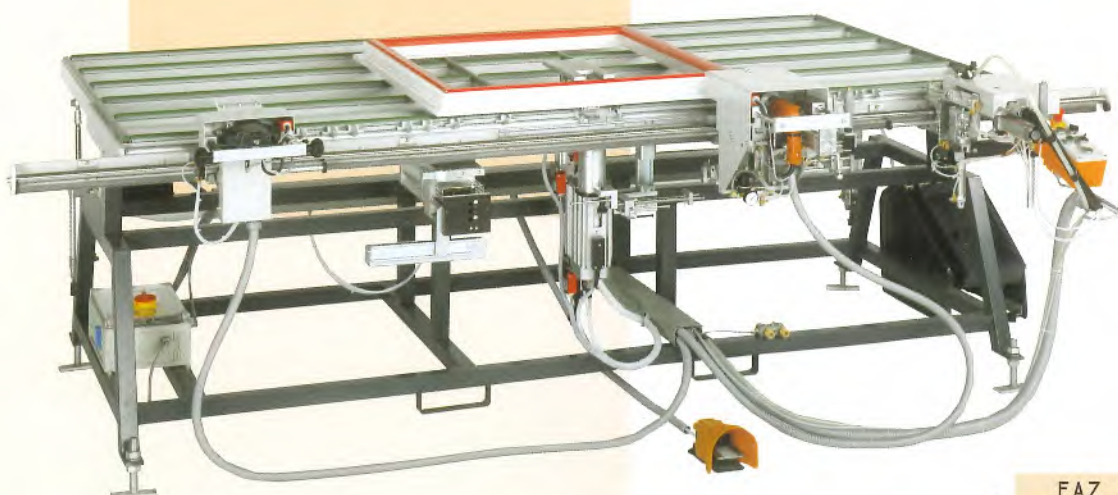
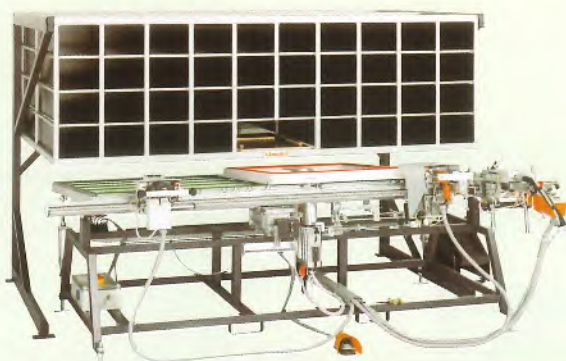
FLA 2505

Assembly equipment

FLA 2000, FLA 2500, FLA 2505, DT 1000, MT 2000, MT 3000

Pages 48, 49

< Hardware assembly >>



Sash assembly centre FAZ 2800

- > Sash assembly table for measuring and off-cutting of hardware parts. Ergonomical screwing of hardware parts within shortest time
- > Optimization of sash processing by combination of different working processes at one working place
- > Gear punch with stops for grip position center and constant
- > Moveable screw unit with pneumatic height adjustment
- > Screw feed unit

Technical information

- Length 3.400 mm, width 2.000 mm, height adjustable 850 - 1.000 mm, weight 450 kg

Optional

- Corner drive drilling unit
- Handle hole drill unit
- Lock case milling unit
- Hardware rack
- Punch tooling



Checking and glazing unit VE 3000

- > Fast and exact assembly of windows, doors and elements
- > Accuracy thanks to parallel clamping pressuring
- > Cut-out for window drip
- > Optimum in stability
- > Surface for tools
- > Pneumatic centering
- > Stepless height adjustment

Technical information

- Clamping width 2.800 mm
- Clamping height 2.300 mm
- Stand height 2.000 - 2.500 mm
- Clamping bars height 2.300 - 2.800 mm
- Working capacity 150 kg
- Length 3.150 mm, width 850 mm, height 2.000 mm, weight 280 kg



VE 3000

Compressors

- > Space saving design by standing tank
- > Belt-driven operated piston compressor
- > Double-stage compressed multi unit
- > Long life by means of low rotation speed
- > Tank with two component inner coating and special coating outside

Compressor ST 670 - 270

- > Container volume 270 l
- > Suction capacity 670 l/min.
- > Power output 4.000 W
- > Compressed air supply 10 bar

Optional

- Compressed air dryer

Compressor ST 960 - 500

- > Container volume 500 l
- > Suction capacity 960 l/min.
- > Power output 5.500 W
- > Compressed air supply 10 bar

Optional

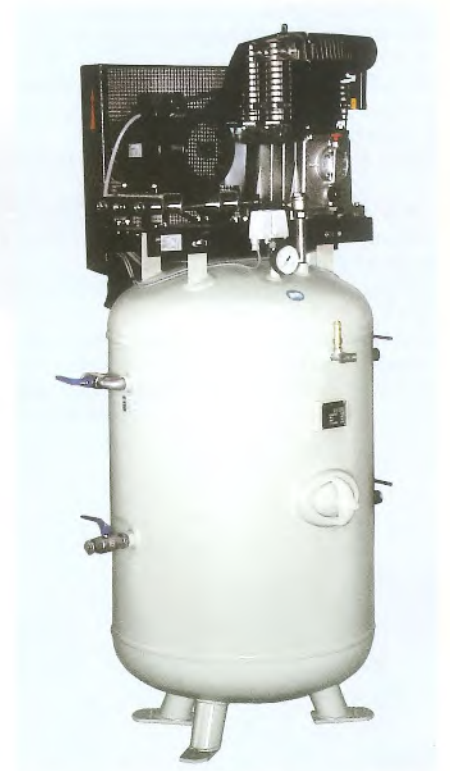
- Star delta starter
- Compressed air dryer

Tandemcompressor ST 860 - 500

- > Container volume 500 l
- > Suction capacity 2x 860 l/min.
- > Power output 2x 5.500 W
- > Compressed air supply 10 bar

Optional

- Star delta starter
- Compressed air dryer



ST 670-270

< Small, inconspicuous, but indispensable >>

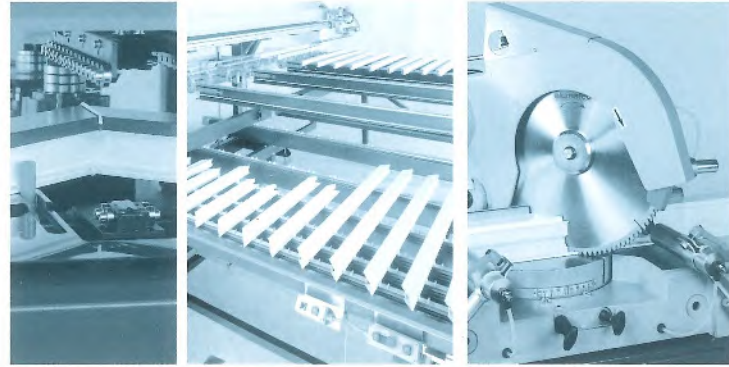
Hand tools

- (01) Gasket scissors 2 x 45°
- (02) Gasket scissors 90°
- (03) Gasket scissors 180°

- (04) Pneumatic screwdriver
- (05) Magnetic holder with set of screwdriver bits
- (06) Pneumatic pistol drill
- (07) Set of drills
- (08) Air gun
- (09) Finger cutter HSS
- (10) Spiral tube 2.500 mm
- (11) Chisel ST 4

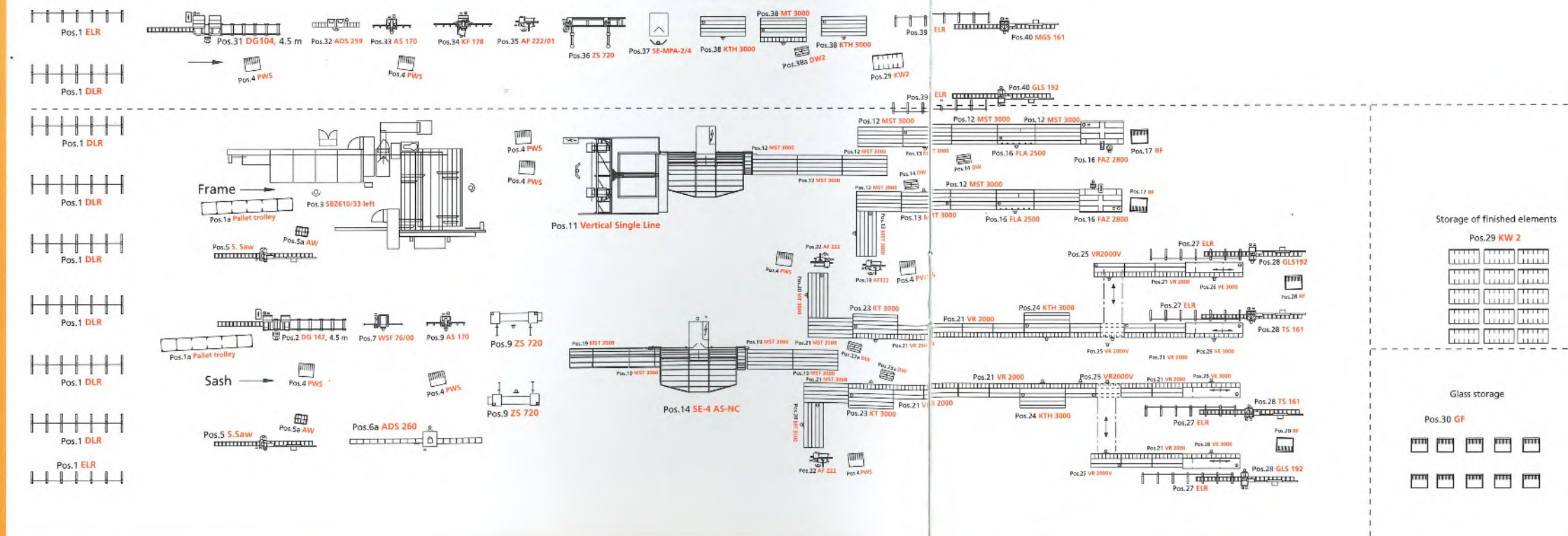
- (12) Soft hammer
- (13) Glazing lever
- (14) Glass suction pad (double)
- (15) Glass suction pad (single)





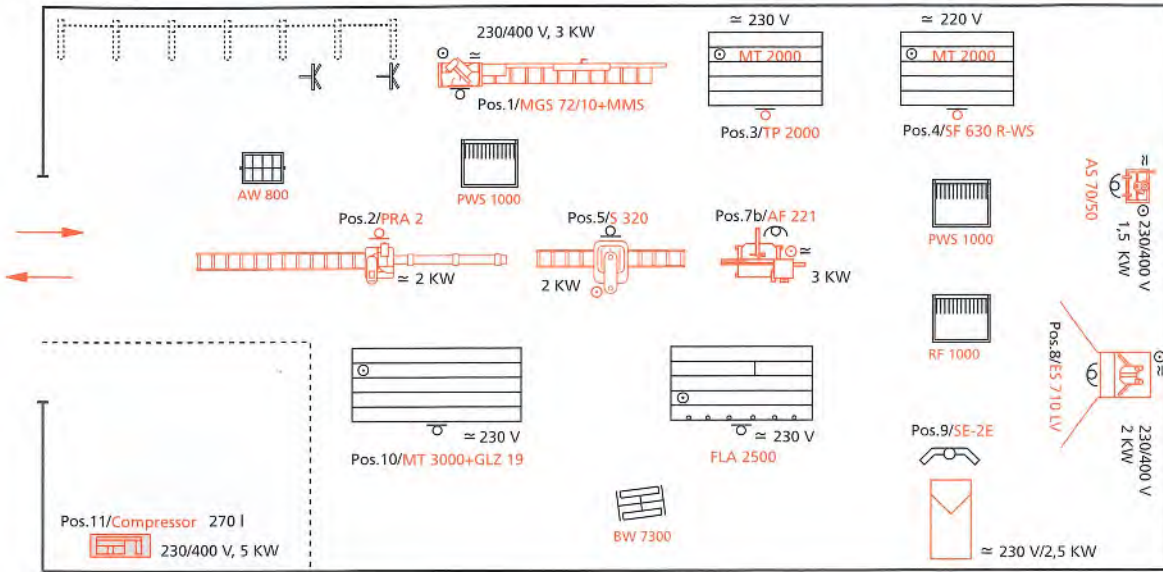
< 200 to 240 windows and doors >>

(Units in 8 hour shift)



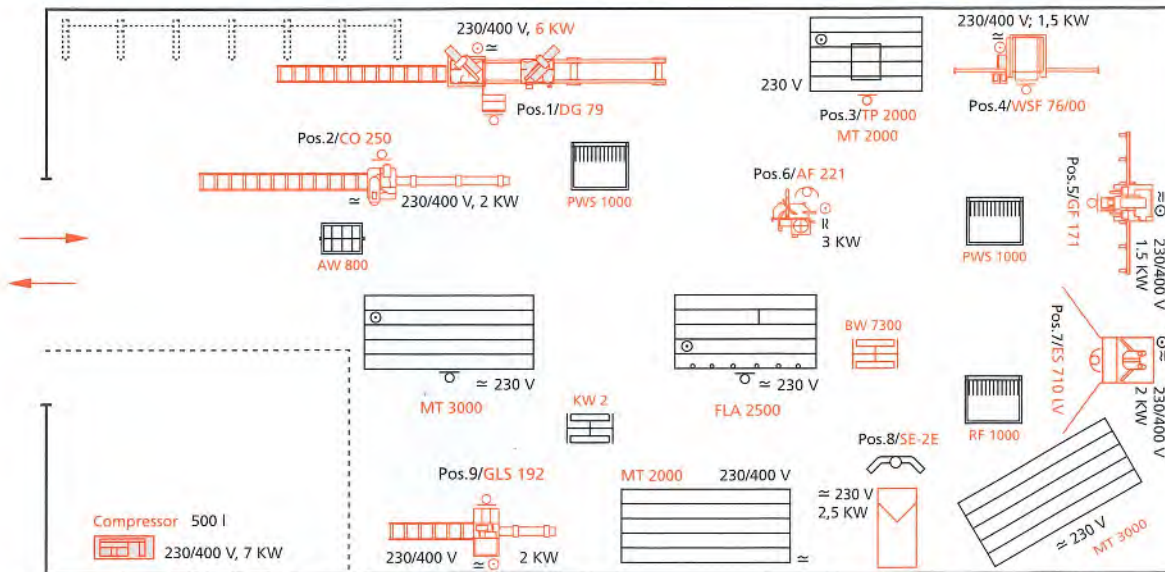
< 10 (PVC 1K) windows and doors >>

(Units in 8 hour shift)



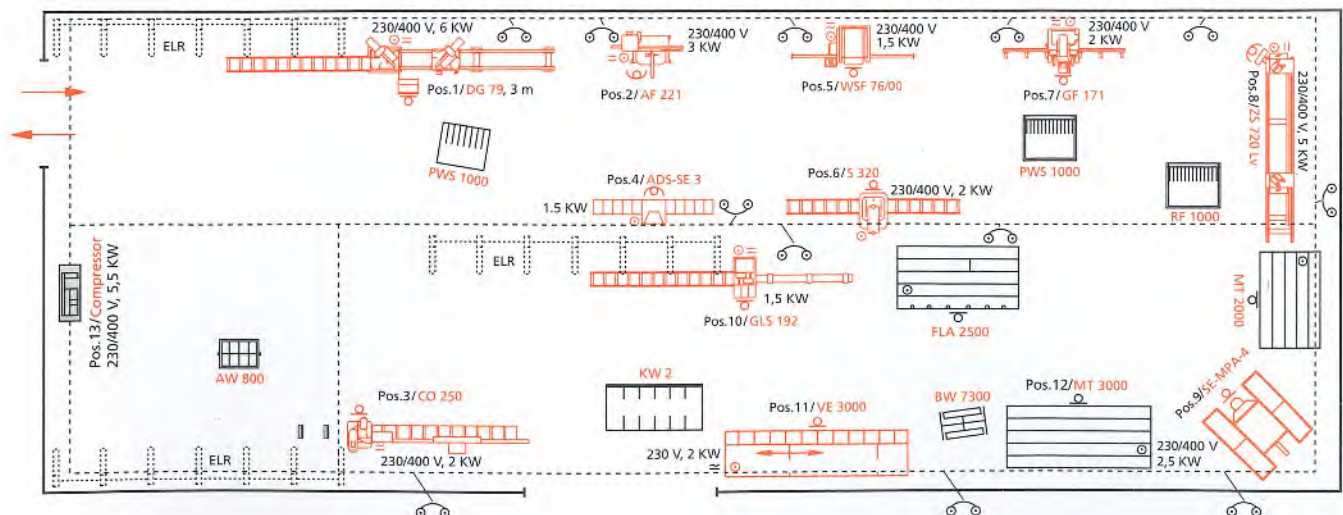
< 20 - 30 (PVC 2K) windows and doors >>

(Units in 8 hour shift)



< 50 - 60 (PVC 3K) windows and doors >>

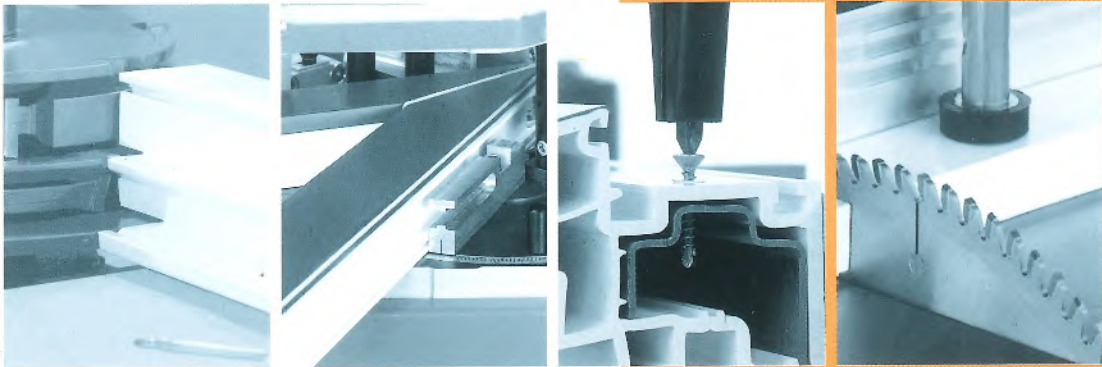
(Units in 8 hour shift)



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