

Double mitre saw Window frame saw Precision mitre saw Special machines Cutting and processing centres

PRODUCTS CATALOG

PRECISION, NO-BURR CUTTING AND PROCESSING OF ALUMINIUM, WOODEN AND PVC PROFILES



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WE LOVE PRECISION

ONE OF THE LEADING MANUFACTURERS OF MACHINERY
FOR WINDOW INDUSTRY - SINCE OVER 80 YEARS!



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DGS200 Double mitre saw

PRECISION, NO-BURR CUTTING OF ALUMINIUM, WOODEN AND PVC PROFILES



High precision based on the twin-shaft guides

We use precise and efficient motion technology: Ball bushing guides for length adjustment, mechanical suspension of swivel units for a comfortable and safe angle setting between 45 and 90 degrees. The length and angle setting is manually. More comfortable and effective is the handling supported by a digital length display at each saw head.

Configuration DGS200 (including extra charge options):

- ✓ Saw blade diameter 420 mm
- ✓ Manual length and angle setting
- ✓ Motor with direct drive
- ✓ Hardened guide shafts
- ✓ Solid machine bed
- ✓ Pivoting spindle mounted in bearing on both sides
- ✓ Electronically balanced saw blade flange
- ✓ Long-living linear guide



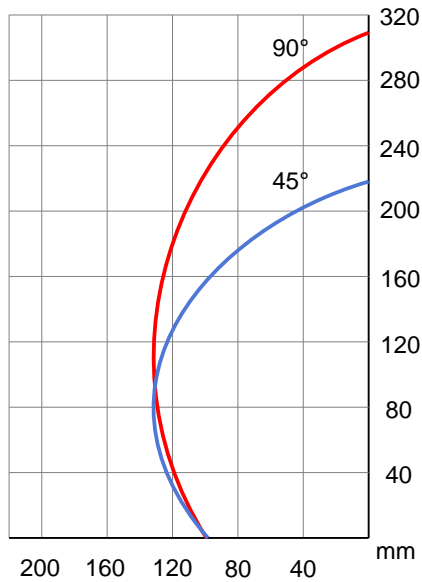
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Technical features:

Drive:	2 x 2,2 KW three phase AC motors 400 V
Swivel range:	manual, 45° to 90°
Saw blade:	420 mm diameter
Saw feed:	pneumatic (optional hydropneumatic)
Cutting lengths:	4.000 mm, 5.000 mm
Length setting:	manual

Entry-level model

MANUAL HANDLING SUPPORTED BY DIGITAL LENGTH DISPLAY



Saw blade Ø 420 mm
Cutting diagram DGS 200

Options:

- ✓ Stopper for short parts
- ✓ Vertical clamping device
- ✓ Digital length display
- ✓ Profile support fix
- ✓ Profile support moveable
- ✓ Roller table at the fixed saw head
- ✓ Roller table at the moveable saw head
- ✓ Swarf extraction units
- ✓ Plug-in for a swarf extraction unit
- ✓ Reversed configuration (fixed head on the right)

Optional for Aluminium:

- ✓ Hydropneumatic saw infeed
- ✓ Lubrication device

The saw blade diameter 420 mm is suitable for a wide range of commercial profiles.

Easy handling, high precision and reliability make the DGS200 particularly attractive for a small-lot producer of fly screens as well as an entry-level double mitre saw for the PVC and Aluminium window production.

In the wooden sector the saw DGS200 is employed in furniture industry or in the production of interior elements for cutting of diverse strips.

Suitable for:

Window, door, facade, winter garden, fly screen profiles



Digital length display:

For easy handling during the window production using of different correction values for frames and wings are possible.

The operator have just to set the needed length and to select a correction value according to the hight of the used profile.

Setting of up to 99 correction values possible.

Technical features:

- Profile clamping:** standard: horizontal clamping cylinders
optional: vertical clamping cylinders
- Air pressure:** 7 bar
- Dimensions:** 5200 / 1200 / 1500 (L/W/H in mm)
at the cutting length 4000 mm
- Weight:** 800 kg

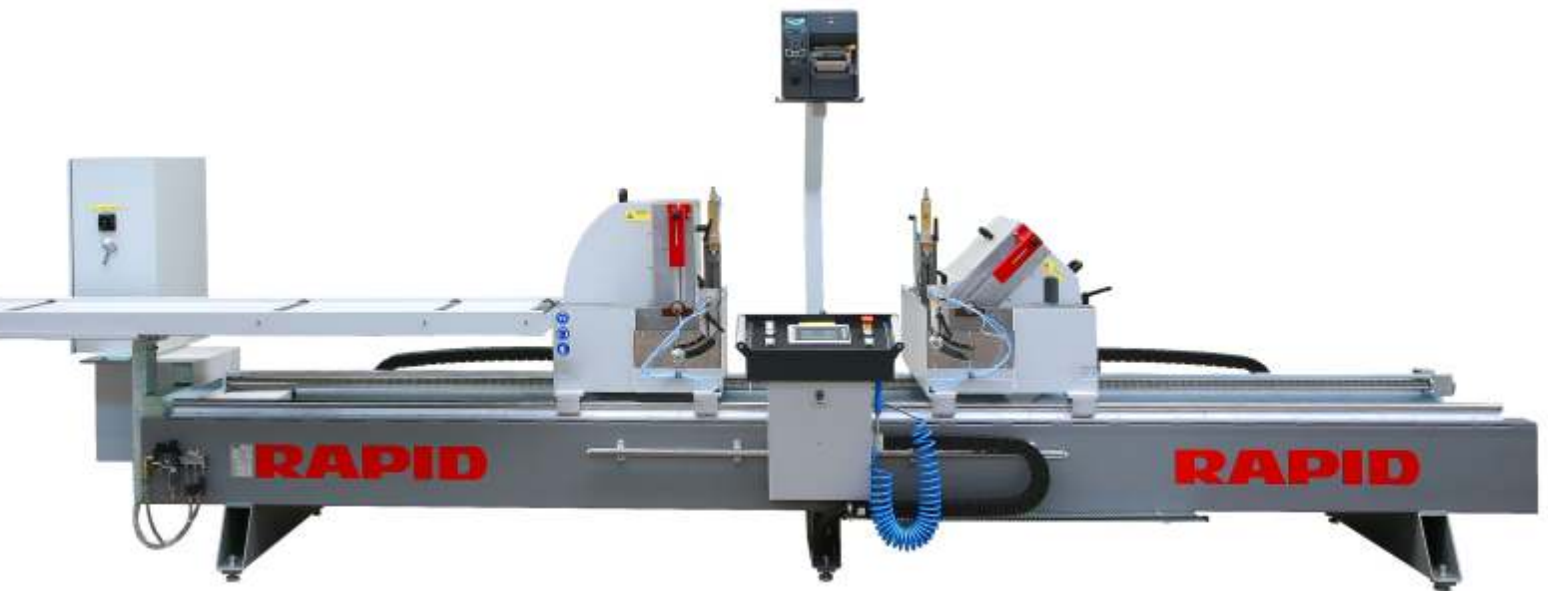
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Further information, pictures and video:

http://www.rapid-maschinenbau.de/dgs-200_en.html

DGL200M/E Double mitre saw

PRECISION, NO-BURR CUTTING OF ALUMINIUM, WOODEN AND PVC PROFILES



Our all-rounder: from basic DGL200M to high-tech DGL200E

The electronically controlled double miter saw DGL200E is a reliable quality product from our range of high-precision double mitre saws. The network connection between DGL200E and the customers' software for window constructions enables loading and working of data sets.

Optimisation software helps to minimise the waster and, as a result, to reduce the costs. Label printer with separator is placed ergonomically under the operating panel.

Configuration DGL200E (including extra charge options):

- ✓ Saw head movement is based from the middle
- ✓ Electronic length and angle positioning
- ✓ Stop for first cut to minimize the offcut
- ✓ Stop for short pieces
- ✓ Horizontal and vertical clamping devices
- ✓ Gasket clamping option
- ✓ Digital angle display on both saw heads
- ✓ Swarf extraction units, waste conveyor belt

Control options (including extra charge options):

- ✓ USB and network connections
- ✓ Automatic length positioning for over-length
- ✓ Automatic length positioning for bevel and arrow cut
- ✓ Software stopp short-pieces
- ✓ Optimisation software including rest piece working
- ✓ Label printer (standard label / clients' label)
- ✓ Graphical display of profile data
- ✓ Profile height measuring device

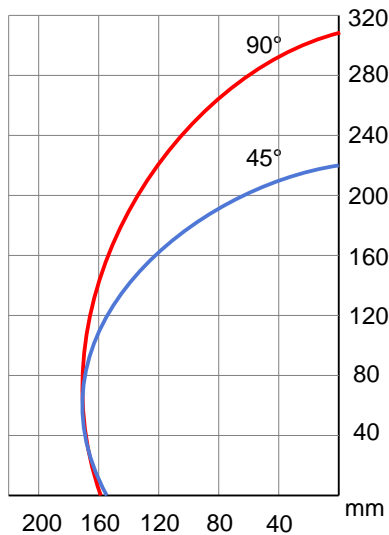
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Technical features:

Drive:	2 x 2,2 KW three phase AC motors 400V
Swivel range:	45° to 90°, optional up to 135°
Saw blade:	500 mm diameter
Saw feed:	pneumatic (optional hydropneumatic)
Cutting lengths:	3.700 mm, 5.100 mm, 6.100 mm
Length setting:	manual (DGL200M), automatic (DGL200E)

From basic DGL200M to high-tech DGL200E

MANUAL OR AUTOMATIC LENGTH AND ANGLE POSITIONING



Saw blade Ø 500 mm
Cutting diagram DGL 200M/E

Angle setting 45°- 90°: manually, pneumatically or electro pneumatically



Suitable for:

Window, door, facade, winter garden, fly screen profiles

Manual double mitre saw DGL200M for perfect cutting results thanks to precision and efficient motion technology. Ball bearing guide for length setting, mechanical suspension of swivel units for a comfortable and safe angle setting between 45 and 90 degrees.

The length and angle setting is manually. More comfortable and effective is the handling supported by a digital length display and pneumatic swivel facilities at each saw head. The saw blade diameter 500 mm is suitable for a great range of commercial profiles. The moveable saw head can be chosen on the left or on the right-hand side.



Configuration DGL200M (including extra charge options):

- ✓ Saw head left fix, on the right-hand side moveable
- ✓ Length setting manually, optional digitale length display
- ✓ Angle setting manually 45°-90°, optional pneumatically
- ✓ Stopper for short parts manually retractable
- ✓ Verticale and horizontal clamping cylinders
- ✓ Profile supports fix and manually moveable
- ✓ Roller tables at the fix or at the moveable saw heads
- ✓ Swarf extraction units, waste conveyor belt

Technical features:

Clamping device: pneumatic, horizontal and vertical
Air pressure: 7 bar
Dimensions: 5250 / 1600 / 1950 (L/W/H in mm)
 at cutting length 3700 mm
Weight: 1300 kg

Pictures may contain options

Further information, pictures and video:

http://www.rapid-maschinenbau.de/dgl-200e_en.html

http://www.rapid-maschinenbau.de/dgl-200m_en.html

DGL220 Double mitre saw

PRECISION, NO-BURR CUTTING OF ALUMINIUM, WOODEN AND PVC PROFILES



3-axis controlled from 20° to 135° with an angular accuracy of 0.01°

Double mitre saw DGL220 enables flexible production of individualized customer-specific products in small batches up to 1, in an efficient and consistent manner. 3-axis controlled sawing units can be automatically positioned between 20 ° and 90 ° (optional up to 135 °) with an angular resolution of 0.01 °.

Good and controlled waste disposal of the basic machine can optionally be supplemented by a waste conveyor belt.

Configuration DGL220 (including extra charge options):

- ✓ Saw head movement is based from the middle
- ✓ Electronic length and angle positioning
- ✓ Stop for first cut to minimize the offcut
- ✓ Stop for short pieces
- ✓ Vertical and horizontal clamping devices
- ✓ Gasket clamping option
- ✓ Efficient lubrication system for Aluminium
- ✓ Swarf extraction units, waste conveyor belt



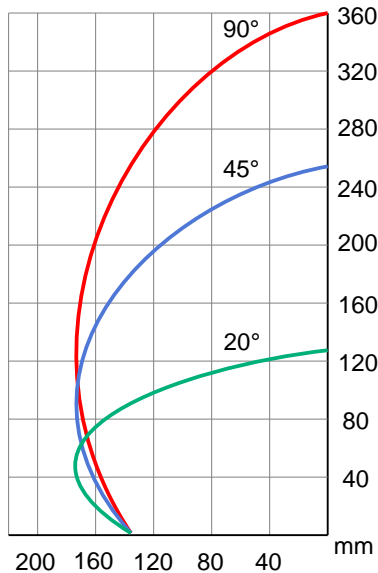
Technical features:

Drive:	2 x 3 KW three phase motors 400 V
Swivel range:	via variable speed motor 20°- 90°(-135° optional)
Saw belt:	500 mm diameter
Saw feed:	pneumatic (optional hydropneumatic)
Cutting lengths:	3.700 mm, 5.100 mm, 6.100 mm
Length setting:	automatic from the middle

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20° to 135° with an angular accuracy of 0.01°

STEPLESS AUTOMATIC POSITIONING OF LENGTH AND ANGLES



Saw blade Ø 500 mm
Cutting diagram DGL 220

Stepless angle setting from 20° to 90° (optional to 135°)



Suitable for:

Window, door, facade, winter garden, fly screen profiles

High-end electronic control:

The network connection between the DGL220 and the customers' software for window constructions enables loading and working of data sets. Special software solution allow an automatic positioning for cutting of over-length or short length.

Optimisation software helps to minimise the waster and, as a result, to reduce the costs. Label printer with a separator is placed ergonomically under the operating panel.



Control options

(including extra charge options):

- ✓ USB and network connections
- ✓ Automatic length positioning for over-length
- ✓ Automatic length positioning for bevel and arrow cut
- ✓ Software stopp short-pieces
- ✓ Optimisation software including rest piece working
- ✓ Label printer (standard label / clients' label)
- ✓ Graphical display of profile data
- ✓ Profile height measuring device

Technical features:

Profile clamping: pneumatic, horizontal and vertical
Air pressure: 7 bar
Dimensions: 5250 / 1600 / 1950 (L/W/H in mm)
at cutting length 3700 mm
Weight: 1600 kg

Pictures may contain options

Further information, pictures and video:

http://www.rapid-maschinenbau.de/dgl-220_en.html

DGL250 Double mitre saw

PRECISION, NO-BURR CUTTING OF ALUMINIUM, WOODEN AND PVC PROFILES



Fig. above:
configuration with the length setting from the middle

Extended cutting range thanks to saw blade diameter 550 mm

The electronically controlled double mitre saw DGL250 is a reliable quality product from our range of high-precision double mitre saws.

The comfortable configuration with the length setting from the middle based on the top-quality ball roller spindles for an efficient length setting. Alternatively available the space-saving configuration with only one moveable saw head on the left or on the right.

Configuration DGL250 (including extra charge options):

- ✓ Extended cutting range with saw blade diameter 550 mm
- ✓ Elektronic length and angle positioning
- ✓ Stop for first cut to minimise the offcut
- ✓ Stop for short pieces
- ✓ Vertical and horizontal clamping devices
- ✓ Gasket clamping option
- ✓ Efficient lubrication system for Aluminium
- ✓ Swarf extraction units, waste conveyor belt



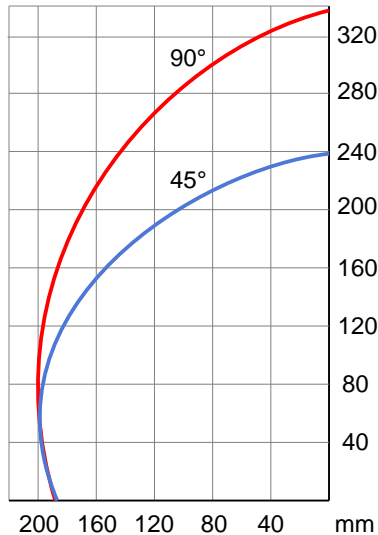
Technical features:

Drive:	2 x 3 KW three phase AC motors 400 V
Swivel range:	electro-pneumatic 45°-90°, optional 45°-90°-135°
Saw blade:	550 mm diameter
Saw feed:	hydropneumatic
Cutting lengths:	3.700 mm, 5.100 mm, 6.100 mm
Length setting:	choise of traversing left- or right-hand assembly via rack-and-pinion drive or a central assembly adjustment with ball roller spindles

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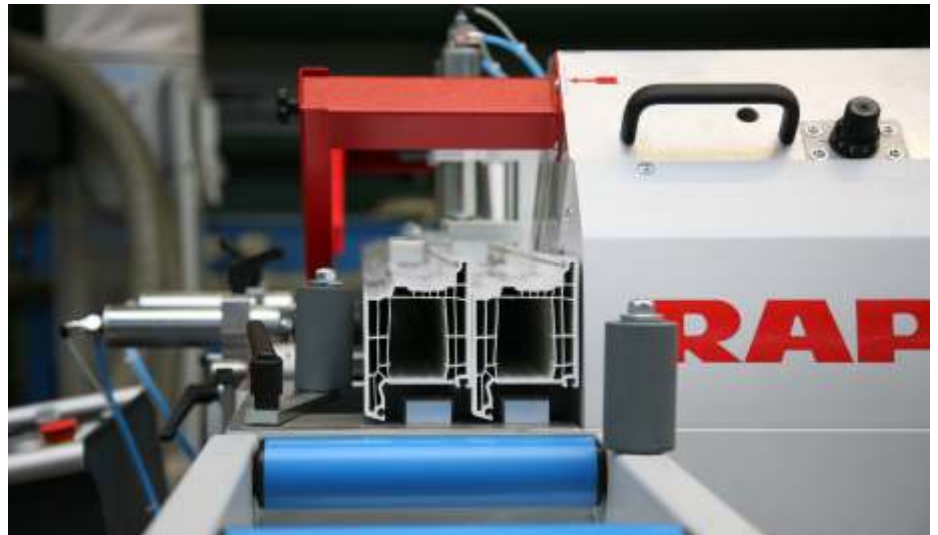
Cutting in pairs even for 7-chamber profiles

PRECISION, NO-BURR CUTTING OF ALUMINIUM, WOODEN AND PVC PROFILES



Saw blade Ø 550 mm
Cutting diagramm DGL 250

Angle setting 45°, 90°, 135° automatic, angles between by hand



Suitable for:

Window, door, facade, winter garden, fly screen profiles

High-end electronic control:

The network connection between the DGL250 and the customers' software for window constructions enables loading and working of data sets. Special software solution allow an automatic positioning for cutting of over-length or short length.

Optimisation software helps to minimise the waster and, as a result, to reduct the costs. Label printer with a separator is placed ergonomically under the operating panel.



Fig.:
saw head left fix, on the right-hand side moveable

Control options

(including extra charge options):

- ✓ USB and network connections
- ✓ Automatic length positioning for over-length
- ✓ Automatic length positioning for bevel and arrow cut
- ✓ Software stopp short-pieces
- ✓ Optimisation software including rest piece working
- ✓ Label printer (standard label / clients' label)
- ✓ Graphical display of profile data
- ✓ Profile height measuring device

Technical features:

Profile clamping: pneumatic, horizontal und vertical
Air pressure: 7 bar
Dimensions: 5350 / 1760 / 1900 (L/W/H in mm)
 at cutting length 3700 mm
Weight: 1400 kg

Pictures may contain options

Further information, pictures and video:

http://www.rapid-maschinenbau.de/dgl-250_en.html

DGL260 Double mitre saw

PRECISION, NO-BURR CUTTING OF ALUMINIUM, WOODEN AND PVC PROFILES



3-axis controlled from 20° to 135° with an angular accuracy of 0.01°

Double mitre saw DGL260 combines extended cutting range with the highest precision, and efficiently and in constant quality. With the saw blades diameter a wide variety of profile systems with large dimensions can be cut. This machine is an All-rounder with maximum flexibility and precision for window, door and façade production, for special constructions and Aluminium building elements.

The ingenious solutions for stepless automatic angular positioning of the saw blades from 20 ° to 135 ° reliably guarantee the highest angular accuracy with 0.01 ° resolution.

Precise and burr-free cutting thanks to double-bearing linear guide and electronically balanced saw blade flange. Extremely stable machine bed and low-noise running, maximum drive power due to direct drive.

Good and controlled waste disposal of the basic machine can optionally be supplemented by a conveyor belt system.

Configuration DGL260 (including extra charge options):

- ✓ Saw head left fix, on the right-hand side moveable
- ✓ Automatic angle and length positioning
- ✓ Angle setting steps 20°-135° or pneumatic 45°/90°
- ✓ Stopper for short pieces hand operated or pneumatic
- ✓ Vertical and horizontal clamping cylinders
- ✓ Gasket clamping device
- ✓ Efficient lubrication system for Aluminium
- ✓ Swarf extraction units, waste conveyor belt



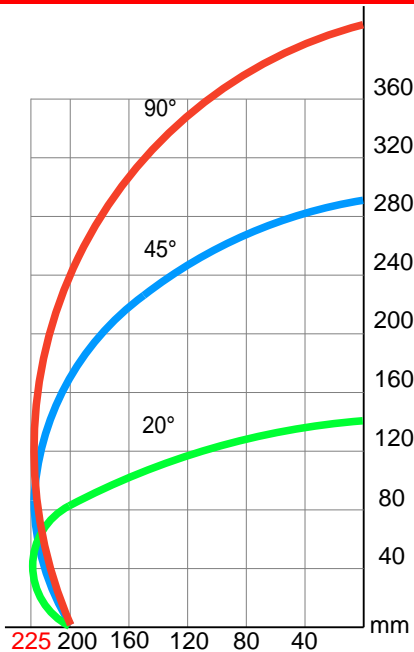
Technical features:

Drive:	2 x 3 KW three phase AC motors 400 V
Swivel range:	via variable speed motor stepless 20° to 135°
Saw blade:	600 mm diameter
Saw feed:	hydropneumatic
Cutting lengths:	3.700 mm, 5.100 mm, 6.100 mm
Length setting:	automatic

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Extended cutting range & high precision

STEPLESS AUTOMATIC POSITIONING OF LENGTH AND ANGLES



Saw blade Ø 600 mm
Cutting diagram DGL 260

Saw blade Ø 600 mm for over-size profile



Suitable for:

Window, door, facade, winter garden, fly screen profiles

High-end electronic control:

The network connection between the DGL220 and the customers' software for window constructions enables loading and working of data sets. Special software solution allow an automatic positioning for cutting of over-length or short length.

Optimisation software helps to minimise the waster and, as a result, to reduce the costs. Label printer with a separator is placed ergonomically under the operating panel.



Control options

(including extra charge options):

- ✓ USB and network connections
- ✓ Automatic length positioning for over-length
- ✓ Automatic length positioning for bevel and arrow cut
- ✓ Software stopp short-pieces
- ✓ Optimisation software including rest piece working
- ✓ Label printer (standard label / clients' label)
- ✓ Graphical display of profile data
- ✓ Profile height measuring device

Technical features:

Profile clamping: pneumatic, horizontal and vertical
Air pressure: 7 bar
Dimensions: 5350 / 1420 / 1900 (L/W/H in mm)
at cutting length 3700 mm
Weight: 1600 kg

Pictures may contain options

Further information, pictures and video:

http://www.rapid-maschinenbau.de/dgl-260_en.html

GLX Vario Window frame saw for PVC

WINDOW FRAME SAW WITH GLASS SIMULATION - PERFECT CUTTING RESULT



GLX Vario + Posi-Touch



GLX Vario + Posi-Basic

Universal clamping system Vario, glass simulation steplessly variable

The Vario universal clamping system with a variable two-stage clamping unit with a steplessly adjustable glass simulation has been specially designed for the cutting of PVC glazing beads in the production of windows and doors. The glazing bead is pulled and clamped at the holding foot. The horizontal clamping plates of the glass simulation straightened up the glazing bead in the position like when glazing bead is "snapped-in". This method ensures a clean look of the window corners.

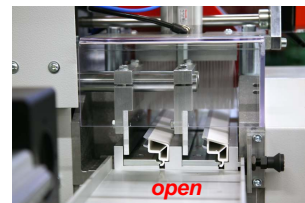
According to the profile width, the horizontal plates of the glass simulation can be step less adjusted via hand wheel with a position display. The glazing bead saw GLX Vario is equipped with a profile support roller as an anti-tipping device vertical and horizontal.

The profile depending parts are usually universal within a profile system since they are only adapted to the respective holding foot. The shape of the glazing bead does not play any role in the optimal clamping process using the Vario clamping system.

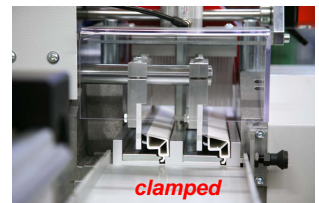
Product features:

- ✓ Saw feed from back to front.
- ✓ Pneumatic saw feed, steplessly variable.
- ✓ Additional profile support on the infeed site of the saw, manual adjustable.
- ✓ Selector switch for clamping order: vertical, at the bottom-foot of the glazing bead, or horizontal as glass simulation unit continuously adjustable.
- ✓ Manual, digital or electronic length stop systems.
CE compliant safety connection for automatic length stops.

Clamping situation / glass simulation:



open



clamped

- ✓ Universal clamping system with a variable, two-stage clamping (horizontal and vertical at the bottom-foot).

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Technical features:

Drive:	2 x 0,45 KW three phase AC motor 400 V
Cutting angle:	45°/45°, single or pair cut
Saw blade:	2 x 200 mm diameter, Z=60 2 x 95 mm diameter, Z=20
Saw feed:	pneumatic, continuously adjustable
Required extraction:	1100 Watt

GLX Holz Window frame saw for the wood bars

WINDOWS FRAME SAW WITH A COMBINED CLAMPING HORIZONTAL AND VERTICAL - PERFECT CUTTING RESULT



For the wood glazing beads:

RAPID GLX Holz is a glazing bead saw for using in the production of the wood windows and doors. Cutting of two or four glazing beads at the same time, cutting angle 45 degrees.

The saw can be combined with electronic length measuring and positioning units. Cutting data can be transferred via network, USB and radio measuring stick, or typed by hand via keyboard.

Combined clamping unit:



Product features:

- ✓ Saw feed from back to front.
- ✓ Pneumatic saw feed, steplessly variable.
- ✓ Combined profile clamping (horizontal and vertical).
- ✓ Profile depending pressure pieces and contour blocks.
- ✓ Maintenance unit with pressure reducer, pressure gauge and manual dewatering. Cleaning pistol.
- ✓ Manual, digital or electronic length stop systems.
- CE compliant safety connection for automatic length stops.

Technical features:

Drive:	2 x 0,45 KW three phase AC motor 400 V
Cutting angle:	45°/45° single or pair cut
Saw blade:	2 x 200 mm diameter, optional 2 x 220 mm diameter
Saw feed:	pneumatic, continuously adjustable
Required extraction:	1100 Watt

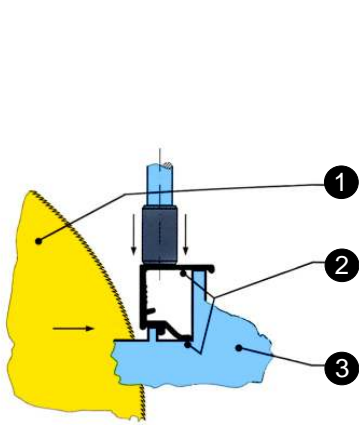
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Further information, pictures and video:

http://www.rapid-maschinenbau.de/GLX_en.html

GLI Window frame saw for Aluminium

WINDOW FRAME SAW FOR ALUMINIUM - PERFECT CUTTING RESULT



RAPID-advantages:

- ❶ Cutting direction inwards (after assembly - no visible burrs).
- ❷ Clamping surface (treated visible surface, movement only takes place on the inner area).
- ❸ Universal backfence (also with different side lengths).



GLI with a manual measuring system (right), support (left)

Two profiles are cut at 90 degrees at the same time

The glazing bead saw **GLI** has been specially designed for the cutting of Aluminium glazing beads in the production of windows and doors. Two profiles are cut at 90 degrees at the same time. The saw feed is steplessly variable, the backward movement in fast motion. Thanks to the universally designed base and profile guide a wide range of commercial profiles can be worked.

Manual measuring system: manual scanning with a length stop system to ensure precise transfer of measurements. Four movable angled stops scan the real lengths direct at the frame and act as length stop for the cutting.

Two-hand operating panel for more safety during sawing process.

Product features:

- ✓ Saw feed from back to front.
- ✓ Pneumatic saw feed, steplessly variable.
- ✓ Pneumatic lubrication unit for cutting of Aluminium profiles.
- ✓ Maintenance unit with pressure reducer, pressure gauge and manual dewatering. Cleaning pistol.
- ✓ Manual, digital or electronic length stop systems. CE compliant safety connection for automatic length stops.

Manual measuring system with 4 stops:



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Technical features GLI:

Drive:	1 x 0,45 KW three phase AC motor 400 V
Cutting angle:	90°, single or pair cut
Saw blade:	1 x 250 mm diameter, Z=80
Saw feed:	pneumatic, continuously adjustable
Air pressure:	6 bar
Required extraction:	1100 Watt

Window frame saws for special applications

RAPID WINDOW FRAME SAWS - PERFECT CUTTING RESULT

GMS Glazing bead saw - sub bench saw:

Glazing bead saw RAPID GMS for cutting of PVC, Wood or Aluminium in the production of windows and doors. Cutting angles 90° and 45°/45°, pneumatic adjustment of special angles, for example 8°/8° and/or 15°/15°. Saw blade diameter 250 mm.

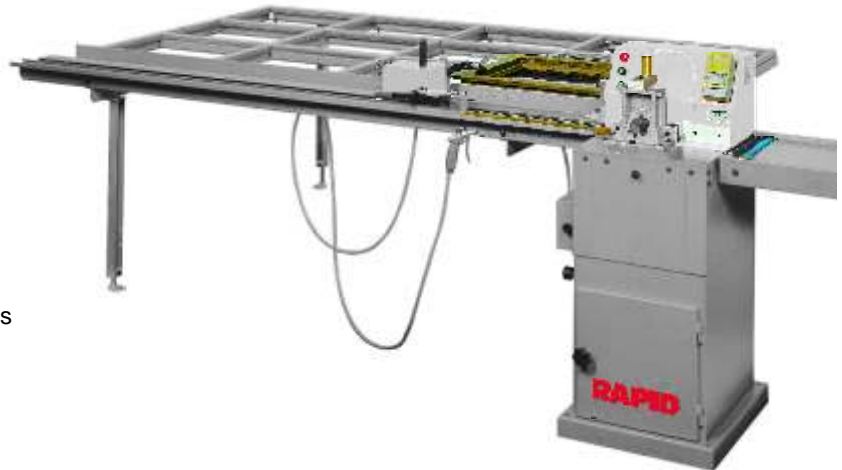
Automatic working, at the push of the start button the **tracking control** is triggered:

clamping - cut right mitre - return - saw blade swivel - cut left mitre - return - release.

The glass bar is sawn to length.

RAPID-measuring-profiling-technology

The first cam sensor moves to the 0-position. The second cam sensor is positioned at the glass groove of the window casement and with it the permanently attached measuring carriage is positioned. This provides an exact dimension and allows for the cut to be made. During positioning the measuring carriage glides on an **air cushion** which builds up automatically when the slide lever is being touched. This gliding positioning device ensures accurate dimensional transfer. In the measuring position it is vented and the measuring carriage clamped.



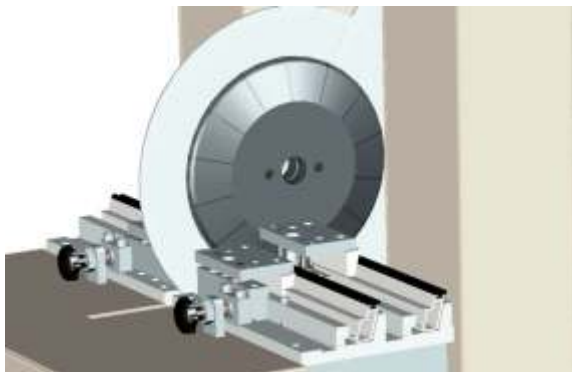
GLF Glazing bead saw with contour tooling:

The **Glazing bead saw GLF** enables the contour milling of the PVC glazing beads. A combination of two milling discs with a saw blade positioned at 90 degrees allows the front and end milling of two profiles at the same time.

Clamping unit profile depending:

The contour blocks and pressure strips are specially designed for each profile contour or if possible for a combination of several similar profiles.

Two milling discs combined with one saw blade.



Product features:

- ✓ Hydropneumatic saw feed.
- ✓ Profile infeed support table.
- ✓ 2 milling discs combined with a saw blade.
- ✓ Profile depending contour blocks and pressure strips.
- ✓ Contour cutting at two profiles at the same time.
- ✓ Selector switch: cutting or milling.
- ✓ Electronic length stop systems. CE compliant safety connection for automatic length stops.



Technical features GLF:

Drive:	1 x 1,85 KW three ph AC motor 400 V
Cutting angle:	90° single or pair cut
Saw blade:	1 x 300 mm diameter, Z=96 milling tools depend on profile contour
Saw feed:	hydropneumatic, continuously adjustable
Required extraction:	1100 Watt

Pictures may contain options

Further information, pictures and video:

http://www.rapid-maschinenbau.de/GLI_en.html

http://www.rapid-maschinenbau.de/GMS_en.html

http://www.rapid-maschinenbau.de/GLF_en.html

PK 100 High precision circular saw

PRECISION CIRCULAR SAW FOR WOOD, PVC AND ALUMINIUM - PERFECT CUTTING RESULT



Fig. on the right: PK 100 with a length stop, moving carrier plate and table extension up to 600 mm.

Precision work with the saw PK 100

This extremely robust, compact and low-maintenance machine ensures a perfect dimensional precision and burr-free cutting. The Teflon-coated iron table with high lubricity facilitates working with plate material. The sliding table with folding arm is extendable with a few simple steps to a depth of 1100 mm. The length stop with a millimeter scale can be extended to 2500 mm and tilted up to 45 ° quickly and easily.

The perfect addition to any working process to benefit from the precision, reliability and rational work.

Product features:

- ✓ Cutting burr-free and precisely to the millimetre.
- ✓ High cutting quality.
- ✓ Especially suitable for laminates.
- ✓ Quick and easy to work with..
- ✓ Medium-heavy design.
- ✓ Teflon-coated cast table free from abrasions which glides easily.
- ✓ Pneumatic lubrication unit for Aluminium, operation by foot pedal.



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Technical features PK 100:

Drive:	4 KW three phase AC motor, narrow V-belt
Cutting angle:	90°-45°
Cutting height:	75 mm with a saw blade diameter 250 mm, 100 mm with a saw blade diameter 300 mm
Table size:	600 x 700 mm, 850 x 700 mm, 1100 x 700 mm
Length stop:	slide unit with swivelling arm and a diagonal adjustable length stop extendable up to 2500 mm

SGS-ML Precision mitre saw

MITRE CUTS FROM 15 TO 165 DEGREES - PERFECT CUTTING RESULT



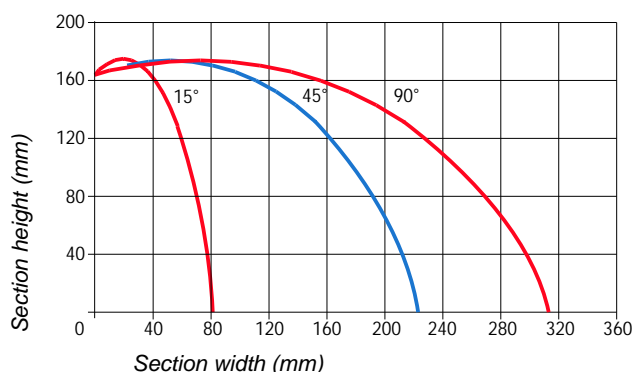
Fig.: SGS-ML with Posi-Touch (on the left) and with RM-DI (on the right).

High precision cutting of Aluminium, PVC or Wood profiles from 15° to 165°

The SGS-ML precision mitre saw offers a combination of the highest precision and CNC-assisted flexibility, primarily for special constructions. The fixed pivot point renders any angle correction unnecessary over the entire swivel range.

The electronic controlled version of the Rapid SGS-ML allows automatic stepless positioning for cutting lengths as well as any angle from 15 ° to 165 °. The network connection enables automatic transfer of the cutting data sets. The manually operated version can be upgraded with digital displays for the angle and length setting.

Other extras, such as the laser cutting line display or the automatic opening and closing of the protective cover, facilitate handling and speed up the work processes.



Product features:

- ✓ Angular scale from 15 via 90 to 165 degrees.
- ✓ Edge stops with a locking fixture at 45°, 67,5°, 90°, 112,5° and 135°, other angles setting to scale.
- ✓ Manual angle setting, optional supported by a digital angle display.
- ✓ Optional: steplessly automatic angle and length positioning via Posi-Touch.
- ✓ Manual or electronic measuring systems.
- ✓ Sturdy basic design to ensure high precision of the long mitre cuts.

Technic features SGS-ML:

Drive:	1 x 2,2 KW three phase AC motor 400 V
Cutting angle:	manually, from 15° left to 15° right, edge stops at 90° as well as at 45°/67,5° left and right
Saw blade:	500 mm diameter
Saw feed:	from below, pneumatic, optional hydropneumatic

Pictures may contain options

Further information, pictures and video:

http://www.rapid-maschinenbau.de/PK-100_en.html

http://www.rapid-maschinenbau.de/sgs-ml_en.html

HP 207 Mitre joint assembling machine

PRECISE AND RATIONAL MITRE ASSEMBLING OF WINDOW AND DOOR PROFILES



HP 207 Well proven machine with sturdy construction and high precision components

This extremely robust, reliable and easy-to-maintain machine ensures maximum functional reliability over many years. Fast and safe corner joints without lengthy adjustment. Fast tool change and easy retooling.

Easy operation via foot pedals. The standard equipment includes two hold-down clamps, the extension arms, two abutment inserts 20 mm and 30 mm, as well as three sets of standard knives 3, 5 and 7 mm. Also special knives available, depending on the profile design or on the work procedure, for example knives with offset or for double punching.

Product features:

- ✓ Suitable for all standard Aluminium profiles.
- ✓ High functional assurance and reliability.
- ✓ Extremely stable construction.
- ✓ Comfortable and fast working.
- ✓ Easy handling via foot pedals.
- ✓ High economic efficiency and accuracy.
- ✓ Inclusive 3 sets standard punching knives and 2 sets abutment inserts.



RAPID
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Technical features HP 207:

Drive:	hydro-pneumatic
Punching height, max.:	118 mm
Punch travel:	20 mm
Punching capacity at 6 bar:	32 kN
Punching capacity at 8 bar:	42 kN
Profile width:	120 mm
Smallest frame:	175 x 175 mm

ST 60 ST 100 ST 120 Punching units

THREE MODELS WITH DIFFERENT PUNCHING PERFORMANCE - FOR STEEL, ALUMINUM OR PLASTIC.



Figures: ST 60T table model (left), ST100S floor stand model (right).

Punching units for rational profile treatment

Depending on the engaged tools the punching units suit for treatment of Steel, Aluminium or Plastic.

As a table model the smallest punching unit ST600T is available. The floor stand models ST60S, ST100S and ST120S are designed with the infeed height 150 mm and stroke 30 mm.

The models ST100R and ST120R can be equipped with a quick-change tooling plate for up to 6 tools.

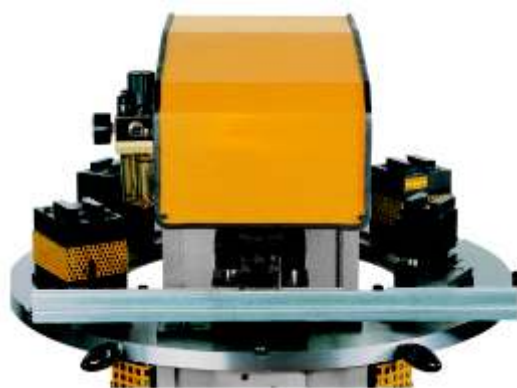


Fig.: ST120R Multiple punching unit with a tooling plate for 6 tools

Product features:

- ✓ Robust, reliable, fail safe for many years.
- ✓ Power transmission via pressure intensifier.
- ✓ Easy handling via foot pedals.
- ✓ Optional hinged stopper left or right, max. length 2000 mm.
- ✓ Quick-change tooling plate (revolver) for 6 tools available.
- ✓ ST 60 and ST 100 with hydro-pneumatic drive, ST 120 with hydraulic drive for maximum capacity.

Technical features ST 100:

Drive:	hydro-pneumatic
Punching thrust:	100 kN
Stroke:	30 mm, optional 50 mm
Max. tool height:	150 mm, optional 200 mm
Max. tool width:	300 mm, optional 200 mm
Number of tools:	1 Stück, revolver for 6 tools
Air connection:	R 1/4"

Pictures may contain options

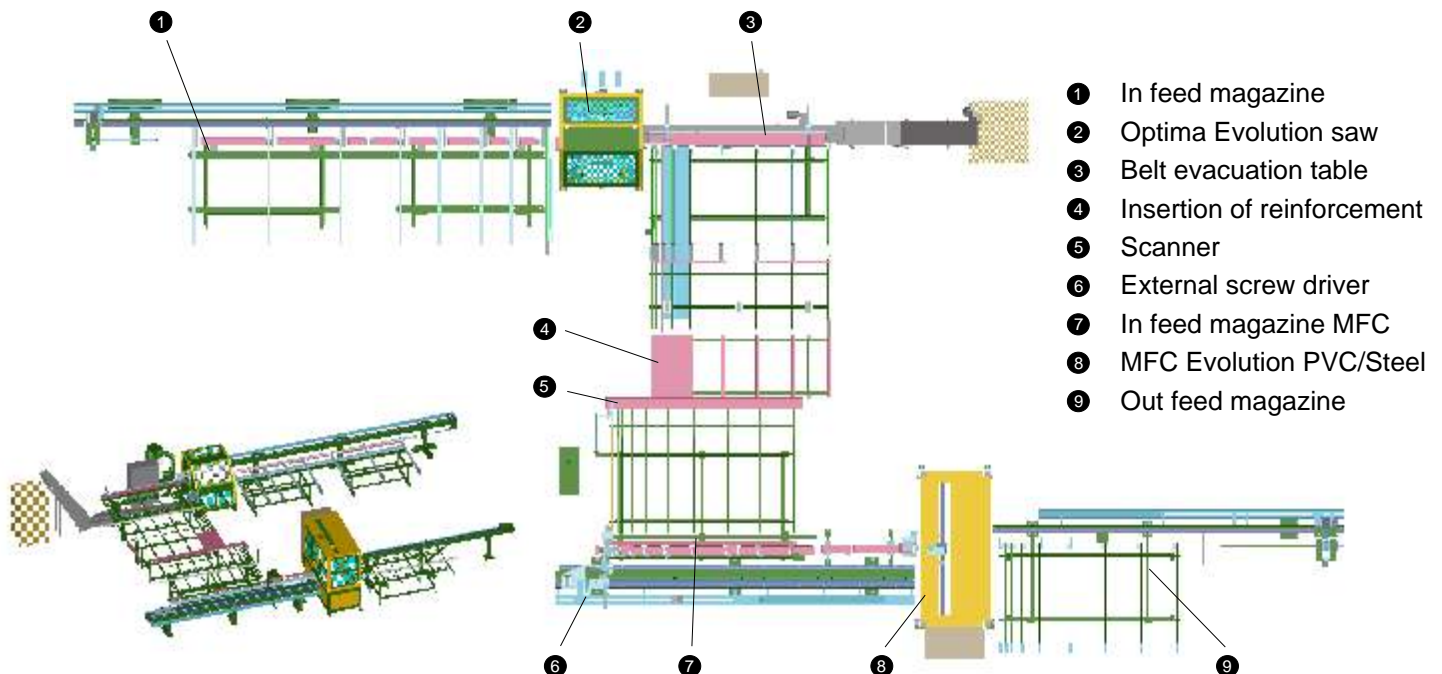
Further information, pictures and video:

http://www.rapid-maschinenbau.de/HP-207_en.html

http://www.rapid-maschinenbau.de/ST-60-ST-100-ST-120_en.html

Ultratech / Optima Evolution / MFC Evolution

CUTTING AND PROCESSING CENTRES FOR PVC WINDOW AND DOOR INDUSTRY



Flexible production concepts for PVC window

With the components sub bench saw **Optima Evolution** and profile processing centre **MFC Evolution** we realise the production lines for our comprehensive programm of products in the range of PVC profile processing.

The key feature of the RAPID Ultratech is the consistent modular construction. By separating the sawing unit and processing module, productivity can be increased considerably. This is further aided greatly by the buffer station positioned between the two modules (Ultratech Inline version).

Machining centre MFC Evolution: Highly flexible and universally applicable for processing of PVC profiles with or without reinforcement. Proven RAPID machine building technology combined with modern control systems.

Product features:

- ✓ Extrem solid design for the highest process reliability.
- ✓ For all standard PVC window and door profiles.
- ✓ Sub bench saw module with one saw blade.
- ✓ Cutting angles 45/90/145 degrees.
- ✓ Processing module with 360 degree technology.
- ✓ Configuration up to 8 milling and drilling tools.
- ✓ Efficient automatic screwing unit.



Technical features Ultratech:

Profile dimensions:

Maximum width 125 mm
Maximum height 130 mm
For all commercial window and door profiles
Saw blade diameter 500 mm, 45°-90°-45°
Ring module with 8 milling and drilling tools,
choice between external or internal screwing unit

Optima Evolution: MFC Evolution:

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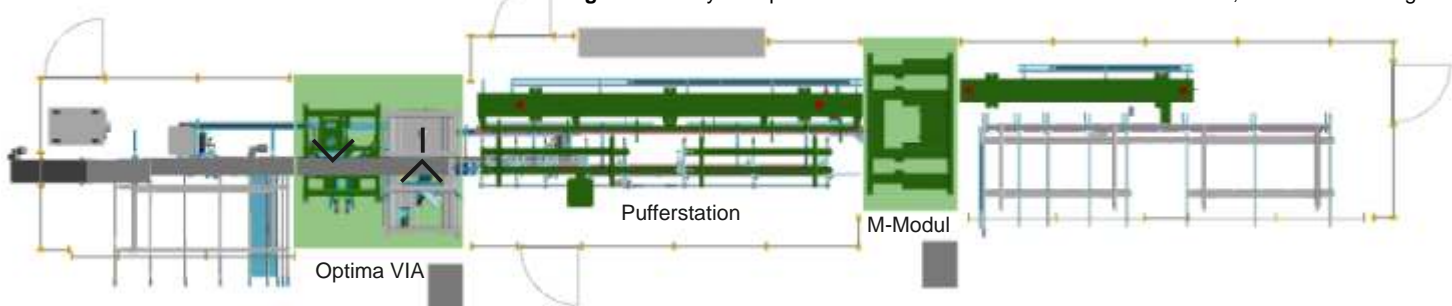
Optima VIA - More speed, more power

CUTTING AND PROCESSING CENTRES FOR PVC WINDOW AND DOOR INDUSTRY



Fig. above: Optima VI High-speed cutting centre with 3 saw blades.

Fig. below: Layout Optima VIA Inline with M-Module and buffer station, infed from the right



Optima VIA - Short process times for higher production volumes

The key feature of the RAPID installation concept for the Optima VI / VIA is the consistent modular construction. By separating the sawing unit and 6-axis-processing-module with up to 16 tools, productivity can be increased considerably. This is further aided greatly by the buffer station between the two modules.

Thanks to the V-layout of the saw achieves shorter working cycles for 45 degrees cuts than with ordinary saw layouts. Feed and advance motions via servo axis increase the cutting and processing speed and the production volume.



Fig.: Optima VI Saw unit with three saw blades

Product features:

- ✓ V-layout of the saw unit for maximum speed.
- ✓ 6-axis M-Module with up to 16 milling tools.
- ✓ Very short cycle time.
- ✓ Modular construction with a buffer station for more capacity.
- ✓ Optimum profile clamping with an automatic 4-point clamping system.
- ✓ Solid machine design ensures a long functioning time and the highest process reliability.

Technical features Optima VI:

Profile dimensions:	Maximum width 130 mm Maximum height 140 mm For all commercial window and door profiles
Saw blades:	90 degrees saw: 450 mm, 45 degree saws: 2 x 500 mm
M-Module:	16 milling and drilling tools

Pictures may contain options

Further information, pictures and video:

http://rapid-maschinenbau.de/processing-centres_en.html

ALUSTAR - Cutting and processing centre

CUTTING AND PROCESSING CENTRES FOR ALUMINIUM WINDOW, DOOR AND FACADE INDUSTRY



fig.: Alustar Compact

Absolute accuracy of machining and maximum process reliability

With the components profile machining centre **3-Axis-Module ALU**, sub bench saw **Optima ALU** and the high flexible **Notching Saw** (also called **Facade Saw**) for cutting and processing of king-size Aluminium profiles we realise the multifunctional production line ALUSTAR.

All clamping and support rollers (profile table, back fences etc.) as well as all pressure pads are hardened, ground and fitted with a special blow-off device to avoid pressure marks on the anodized or coated profiles.

Optimised flow: The process of cutting and machining works synchronistic, according to the position of the milling operation on the bar.

Sectional horizontal clamping surface allows the profile orientation in the saw in an optimal way. The upper clamping units move automatically up to +/- 56 mm and adapt themselves flexible to the respective profile geometry.

Features:

- ✓ Robust, reliable, fail-safe.
- ✓ Suitable for most commercial profiles.
- ✓ 3-Axis milling and drilling module with up to 16 tools.
- ✓ Tool breakage monitoring after each bar.
- ✓ Sub bench saw Optima ALU with one saw blade.
- ✓ Facade saw for king-size profiles as well as for the end milling.
- ✓ Extrem solid machine bed, guides and spindles.



Aluminum chips are permanently blown off

RAPID
MASCHINENBAU

Technical features Alustar:

Profile dimensions:

max. width 295 mm, depending on the angle
max. height 135 mm, depending on the angle
suitable for most commercial profiles

Optima ALU:

Facade saw:

3-Achs-Module:

saw blade 550 mm, swinging stepless 45°-135°
saw blade 500 mm, tilt stepless 45°-135°
drilling and milling module with up to 16 tools

Absolute accuracy of machining

CUTTING AND PROCESSING CENTRES FOR ALUMINIUM WINDOW, DOOR AND FACADE INDUSTRY

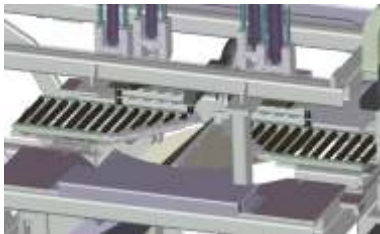
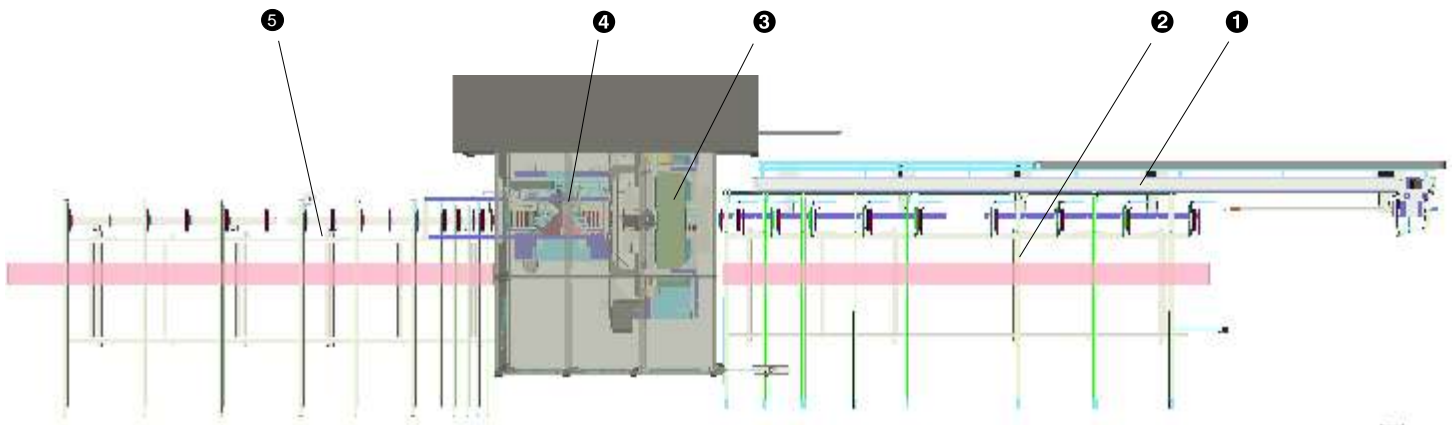


fig.: Optima ALU

- ❶ Transport axis with an integrated gripper
- ❷ In feed magazine
In feed for a maximum profile length 6500 mm
(optional 7000 mm)
- ❸ 3-Achs-Module with up to 16 milling and drilling tools
- ❹ Sub bench saw Optima ALU
- ❺ Off transport via belt system

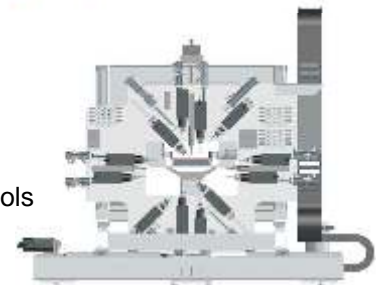


fig.: 3-Achs-Module

Top level control technology

Modern CNC control engineering allows fast operational sequences. An intuitive and logical user interface enables easy operation.

On the operation screen the actual situation and true values will be shown. The work, which has to be done and how it has to be done will be shown as well.



Facade & notching saw for a profile width up to 295 mm

Features:

- ✓ Synchronistic processes of cutting and machining, according to the position of the operation in the bar..
- ✓ Optimisation program including off cut processing and length measurement.
- ✓ Profile monitoring: length and width measuring.
- ✓ Hardened and burnished support rollers and contact surfaces
- ✓ Blow-off pipes along the rear contact surface between the rollers.
- ✓ Sectional horizontal clamping unit for optimal profile alignment.
- ✓ Modern CNC control with intuitive and logical user interface.

Technical features Alustar:

Profile in feed:	In feed acceleration: max. 2m/sec ²
	Return acceleration: max. 9m/sec ²
Piece length:	Repeat accuracy: +/- 0,1 mm
	Min. inside dimension: 20 mm
	Max. outside dimension: 7000 mm
	Min. bar length: 1000 mm

Pictures may contain options

Further information, pictures and video:

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PRECISION, NO-BURR CUTTING AND PROCESSING OF ALUMINIUM, WOODEN AND PVC PROFILES



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