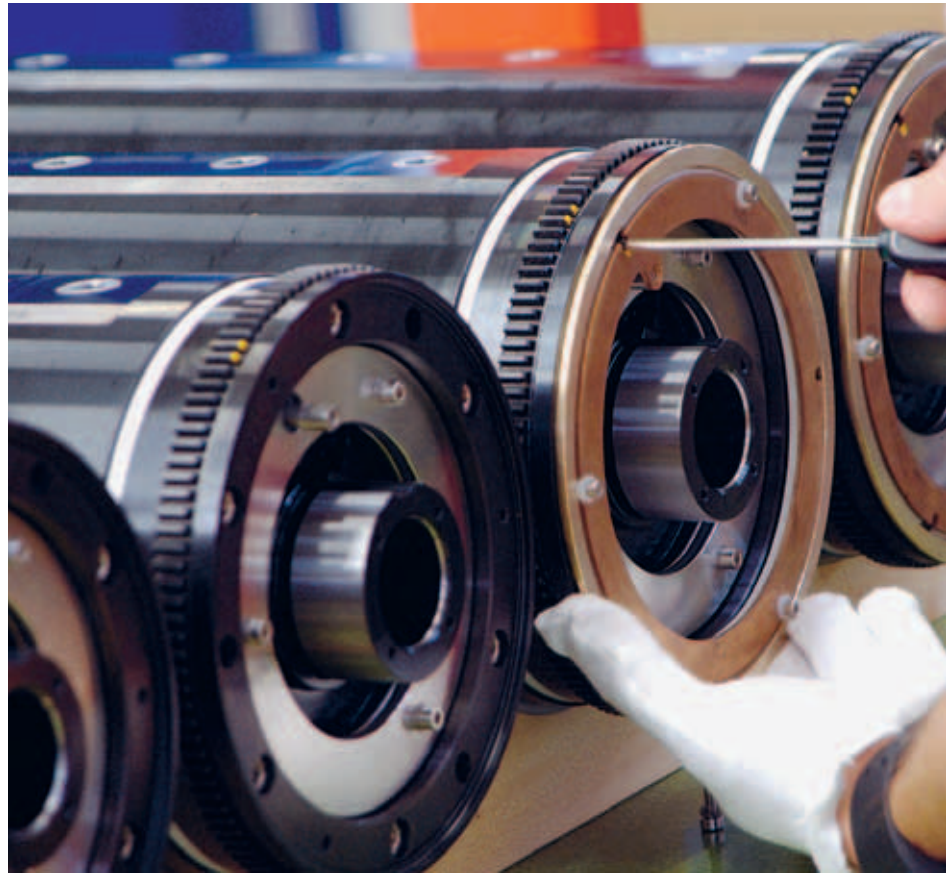
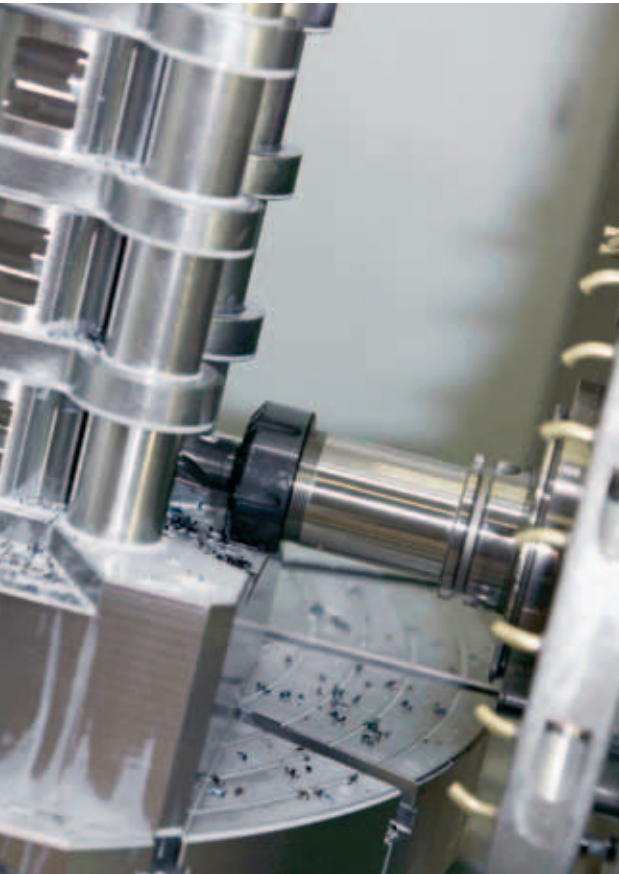


EDGE MILLING MACHINES
EDGEMILL SERIES 100/400/500



THE COMPANY. AN INNOVATIVE MARKET PLAYER.

ALME AG has been distinguishing itself in the international marketplace since 1984. This Swiss company proves its capabilities day in, day out with its innovative products and extensive knowledge. "We support our customers throughout the entire project process", says Christian Taennler, CEO since 2006.

The company's activities have covered two areas since its foundation in 1984: machine building and the supply of mechanical components. Powerful synergies between these two business units make ALME AG a flexible and capable partner.

With a motivated team of specialists, the entire value chain for ALME products is located in

Switzerland. We manufacture top-quality products that are based on proven technologies. Precision, continuity, and a high level of supply readiness are therefore ensured.

Long-term customer relationships with trusted contacts and reliability are the cornerstones of our corporate strategy. We live this strategy right from the consulting stage through to manufacturing and assembly – together with our customers throughout the world.

FACTS

MACHINE BUILDING. INDIVIDUAL SOLUTIONS.
Whether for prototypes or series production.

ASSEMBLIES. PERFECT INTERACTION.
Our solutions are focused on the project goals of the customer.

SUPPLIER. AN IMPORTANT COMPONENT.
Working closely with our customers, we create highly complex components.

ULTRAPRECISE LATHES.
ALME can turn in the sub- μm range.

PRINTING INDUSTRY. BRILLIANT TECHNOLOGY.
We demand excellent quality.

SERVICES. DEVELOPMENT AND CONSTRUCTION.
We develop, manufacture and build.

OUR OPTIONS – YOUR ADDED VALUE.
Your partner for the highest quality and short lead times.



ALME EDGEMILL SERIES 100

THE COMPACT ONE

The edgemill series 100 is a stationary edge milling machine designed for efficient chamfering of plates, rods and workpieces.

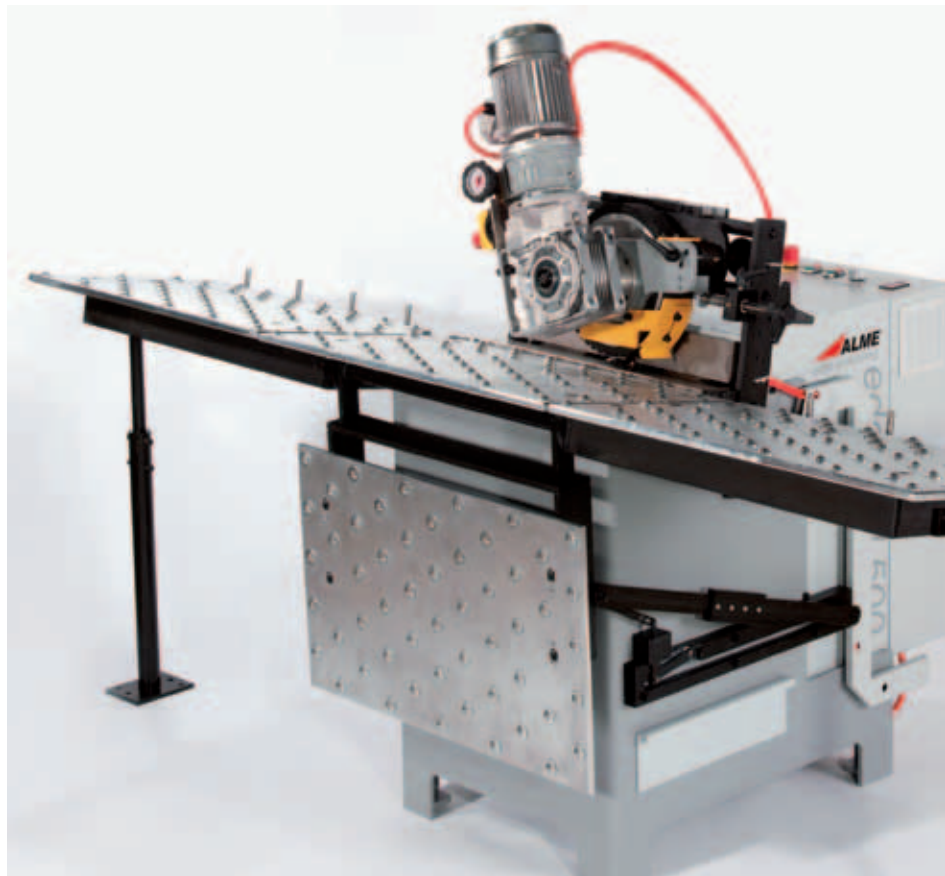
The edgemill 100 table-top model is the smallest machine in our model series. With its fixed cutting angle, this low-cost machine is capable of milling burr-free super edges up to 8 mm x 45 degrees (option: 30/60 degrees) – in many cases in a single pass, depending on the material. A smoothing pass enables a surface finish of N7 to be achieved without any chatter. The edgemill 100 is excellently suited for deburring, but can just as well be applied for preparing welding edges or for chamfering almost all types of metal parts.

All the machine's important components are hardened and ground. The chips produced during the milling process land in a special drawer, ensuring a clean workplace at all times.

The excellent accessibility of the milling head allows the inserts to be exchanged in almost no time at all. All that is required is to swivel the guide bar upwards by 180 degrees. This provides access to the milling head, enabling the inserts to be exchanged very easily.

FACTS SERIES 100

- Can be used anywhere
- Burr-free edges up to 8 mm x 45 degrees
- Motor power: 3 kW
- Milling cutter with indexable inserts, diameter: 80 mm, with 6 standard carbide tips
- Hardened guides
- Easily adjustable milling height
- The following options are available:
 - Variable speed, especially for aluminum, corrosion-resistant materials and all plastics
 - Hold-down fixture for small workpieces
 - Support bar for wide workpieces



ALME EDGEMILL SERIES 400 THE UNIVERSAL ONE

The edgemill series 400 is a stationary edge milling machine designed for the efficient chamfering of plates and bars.

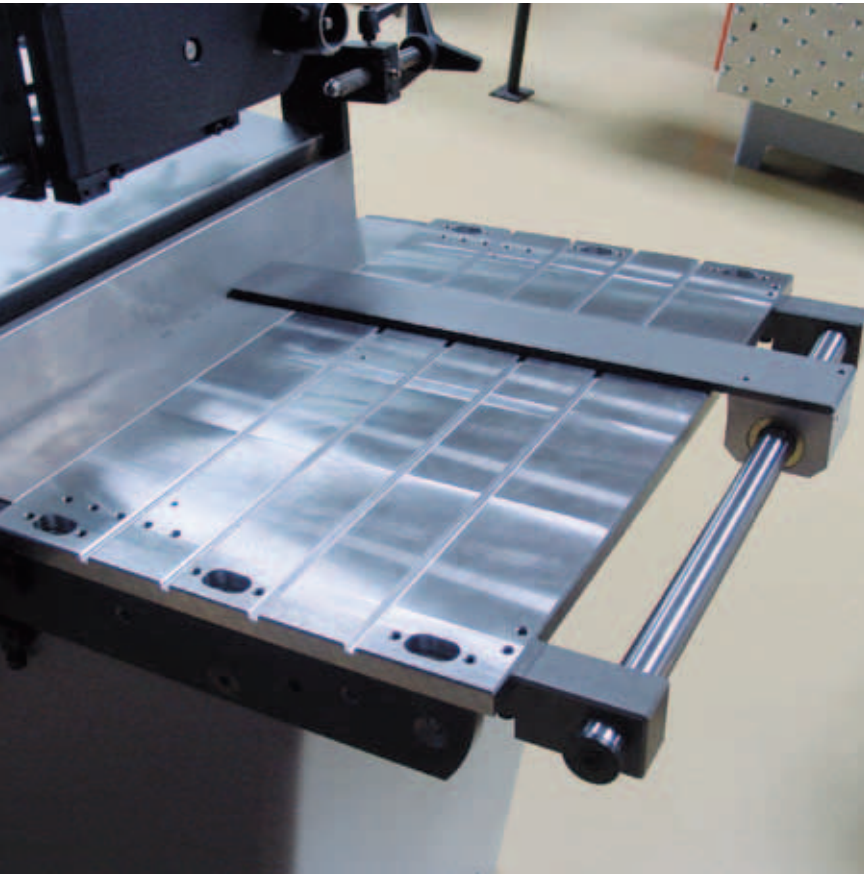
The patented infinitely variable feed permits edge processing without having to securely clamp the workpiece in place. Thanks to the swivel-mounted, infinitely adjustable milling spindle, you can produce any chamfer angle you want between 30 and 60 degrees. The edgemill series 400 can achieve a maximum chamfer height of 10 mm (with a milling angle of 45 degrees in several passes). Depending on how the machine is equipped, the milling spindle speed can be infinitely adjusted using a frequency converter. Option: circular milling device for machining round parts; table extension on the right, the left and in front.

The edgemill series 400 can be used to process all carbon steels, cast metals, aluminum and light metal alloys, titanium, non-ferrous metals, stainless steels (under certain conditions) and all machinable materials. The easily accessible milling head permits inserts to be exchanged within a few minutes. The machine does not require any maintenance.

The chips produced by the milling process land in a special drawer and can be removed easily. This ensures a clean workplace.

FACTS SERIES 400

- Robust machine with feed
- All-purpose machine with the best price/performance ratio
- Burr-free edges up to 10 mm x 45 degrees
- Motor power: 3 kW
- Milling cutter with indexable inserts, diameter: 80 mm, with 6 standard carbide tips
- Feed motor from 0.5 to 5 m/min
- Infinitely variable speed from 1000 to 5000 rpm
- Table with 55 ball elements, to ensure handling is as easy as possible
- The following options are available:
 - Circular milling device for plates and bars
 - Side extensions right and left
 - Table extension, front



ALME EDGEMILL SERIES 500 THE HEAVY-DUTY ONE

The edgemill series 500 is a stationary edge milling machine designed for the efficient chamfering of plates and bars.

Thanks to its powerful motor and robust housing, ALME's top model is ideally suited to continuous use and large chip volumes. The diverse options make this machine a high performer in the production area. The edgemill series 500 can achieve a maximum chamfer height of 15 mm (with a milling angle of 45 degrees in several passes). The milling spindle speed can be infinitely adjusted using a frequency converter. Optional: circular milling device for machining round parts; table extension on the right, the left and in front. A table with a linear guide is available as an option. On the edgemill series 510 version, the

feed is also equipped with a frequency converter, which can be controlled remotely. The edgemill series 500 can be used to process all carbon steels, cast metals, aluminum and light metal alloys, titanium, non-ferrous metals, stainless steels (under certain conditions) and all machinable materials. The easily accessible milling head permits inserts to be exchanged within a few minutes. The machine does not require any maintenance.

The chips produced by the milling process land in a special drawer and can be removed easily. This ensures a clean workplace.

FACTS SERIES 500

- Robust machine with the highest cutting performance, suitable for multi-shift operation
- Burr-free edges up to 15 mm x 45 degrees
- Large, powerful motor with a motor power of 5.5 kW
- Milling cutter with indexable inserts, diameter: 120 mm, with 10 standard carbide tips
- The following options are available:
 - Circular milling device for plates and bars
 - Side extensions right and left
 - Table extension, front
 - Variable feed motor with frequency converter
 - Remote control for easy operation
 - Table with linear guide

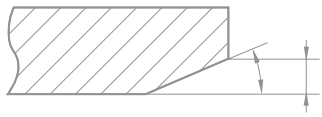


TECHNICAL DATA

ALME EDGEMILL SERIES 100

Milling angle: 30/60 degrees

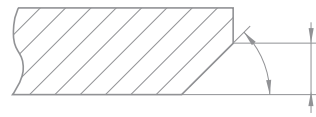
Chamfer height infinitely variable: at 30 degrees max 5 mm
(depending on material, 2 to 3 passes may be required)



Milling angle: 30/60 degrees
Chamfer height infinitely variable:
max 5 mm / 10 mm

Milling angle: 45 degrees

Chamfer height infinitely variable: at 45 degrees max 8 mm
(depending on material, 2 to 3 passes may be required)

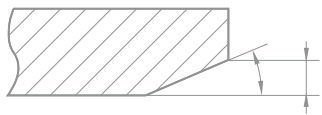


Milling angle: 45 degrees
Chamfer height infinitely variable:
max 8 mm

ALME EDGEMILL SERIES 400

Milling angle: 30/60 degrees

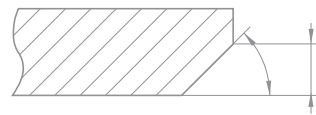
Chamfer height infinitely variable: at 30 degrees max 8 mm
(depending on material, 2 to 3 passes may be required)



Milling angle: 30/60 degrees
Chamfer height infinitely variable:
max 8 mm / 15 mm

Milling angle: 45 degrees

Chamfer height infinitely variable: at 45 degrees max 10 mm
(depending on material, 2 to 3 passes may be required)

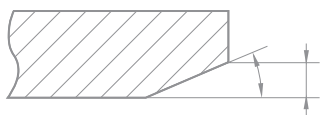


Milling angle: 45 degrees
Chamfer height infinitely variable:
max 10 mm

ALME EDGEMILL SERIES 500

Milling angle: 30/60 degrees

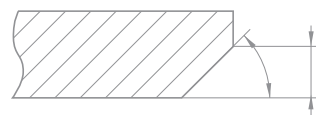
Chamfer height infinitely variable: at 30 degrees max 12 mm
(depending on material, 2 to 3 passes may be required)



Milling angle: 30/60 degrees
Chamfer height infinitely variable:
max 12 mm / 20 mm

Milling angle: 45 degrees

Chamfer height infinitely variable: at 45 degrees max 15 mm
(depending on material, 2 to 3 passes may be required)



Milling angle: 45 degrees
Chamfer height infinitely variable:
max 15 mm



Technical data and options **edgemill series 100/400/500**

Specifications	Machine type						
	100	110	380	400	450	500	510
Guide rails, hardened, length: 700 mm							
Motor power: 3 kW							
Motor power: 5,5 kW							
Fixed speed: 2850 rpm							
Variable speed with frequency converter: 0 to 4200 rpm							
Variable speed with frequency converter: 1000 to 5000 rpm							
Feed motor: 0.5 kW							
Feed motor with variable feed rate: 0.5 to 5 m/min							
Feed motor with variable feed rate, with frequency converter: 0.5 to 5 m/min							
Remote control for speed and feed							
Ball bearing conveyor table, aluminum design, 32 ball elements				opt.			
Ball bearing conveyor table, aluminum design, 55 ball elements				opt.			
Table with linear guide							
Angle adjustment, fixed (milling angle)							
Angle adjustment, infinitely variable 30 to 60 degrees (milling angle)							
Angle adjustment, infinitely variable 15 to 45 degrees (milling angle)							
Milling head diameter: 80 mm, with 6 ISO reversible carbide inserts							
Milling head diameter: 125 mm, with 10 ISO reversible carbide inserts							
Circular milling device							
Table extension, front							
Table extension, right/left							
Dimensions: length 620 mm/width 350 mm/height 450 mm plus base frame 500 mm							
Dimensions: length 1200 mm/width 900 mm/height 1700 mm							
Dimensions: length 1300 mm/width 900 mm/height 1700 mm							
Weight: approx 80 kg							
Weight: approx 400 kg							
Weight: approx 600 kg							
Voltage: 380 V, 50 Hz standard							
Voltage: 400 V, 50 Hz standard							
Chamfer height infinitely variable: depending on material, 2 to 3 passes may be required							
At 45 degrees max 8 mm							
At 60 degrees max 15 mm, at 45 degrees max 10 mm							
At 60 degrees max 20 mm, at 45 degrees max 15 mm							

Technical data are subject to change without notice.

