



ENGLISH



The Black Forest has a lot more to offer than just an evergreen forest, Black Forest cake, tradition, and R&R.

Maximilian Schmidt
Vorstand/Director of ATEMAG, Hofstetten, Germany

I am proud to be part of the small but highly motivated team at ATEMAG.



I have headed ATEMAG since 2020. The staff showed me pretty quickly what's accomplished here and how amazing the idyllic Black Forest can be for **Nigschmeckte**.

The ATEMAG team is full of drive and know-how. In the development department, this motivation is marked by a pronounced **Wunderfitz**. Our established system of design and assembly à la **Dipfleschisser** delivers outstanding quality. Even if a coworker happens to be **grädig** once, focus stays on the customer in the building of new aggregates, and when it comes to servicing. What makes the work fun is sales and purchasing, because **s'Beschde isch grad** good enough for our customers. That's how I experience us in our daily work.

With this team and the outstanding products in our portfolio, I am looking forward to the future at ATEMAG.

Maximilian Schmidt

Baden vocabulary

Nigschmeckte:	newcomer
Wunderfitz:	curiosity
Dipfleschisser:	1000% accurate person
grädig:	in a bad mood
s'Beschde isch:	the best is
grad:	just



Motor Spindle

Combining an electric motor, a tool interface, and a tool clamping system, the motor spindle is the heart of the CNC machine. The motor spindle clamps the tools and aggregates and supplies the rotational speed and torque for machining.

C-Axis

The C-axis is a huge gain for the wood industry. With it, the aggregate can use the clamped-in tools with different approach angles. Rotations about the Z-axis of the machine are simple and time-saving because the C-axis, equipped with a servomotor, gearing, and a torque support ring, can rotate the aggregate by 360 degrees.

Torque Arm

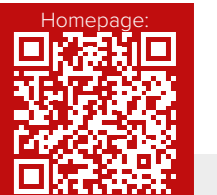
The torque arm is the part that secures the aggregate against spinning. It prevents the static parts from rotating during machining. It also reduces vibrations, supports the aggregate against acting machining forces, and can transmit cooling media or control signals in the form of compressed air. The locating pins specified by the machine manufacturer are built into the torque arm of the aggregate and engage in the machine's antirotation torque support ring, stop block, or C-axis.

Here you will find a selection of companies for whose machines we supply suitable connections: Anderson Industrial Corp., auratronic, BIESSE S.p.A., C.R. Onsrud, Felder KG, FOOKE GmbH, HOLZHER GmbH, HOMAG Group AG, IMA Schelling Deutschland GmbH, MAKА Systems GmbH, Masterwood S.p.A., MKM International GmbH, Multiax International CNC Srl, Reichenbacher Hamuel GmbH, SAOMAD 2 srl., SCM Group S.p.A., Technowood, Thermwood Corporation, Michael Weinig AG, F. ZIMMERMANN GMBH, ... Please consult our sales team for companies not listed here.

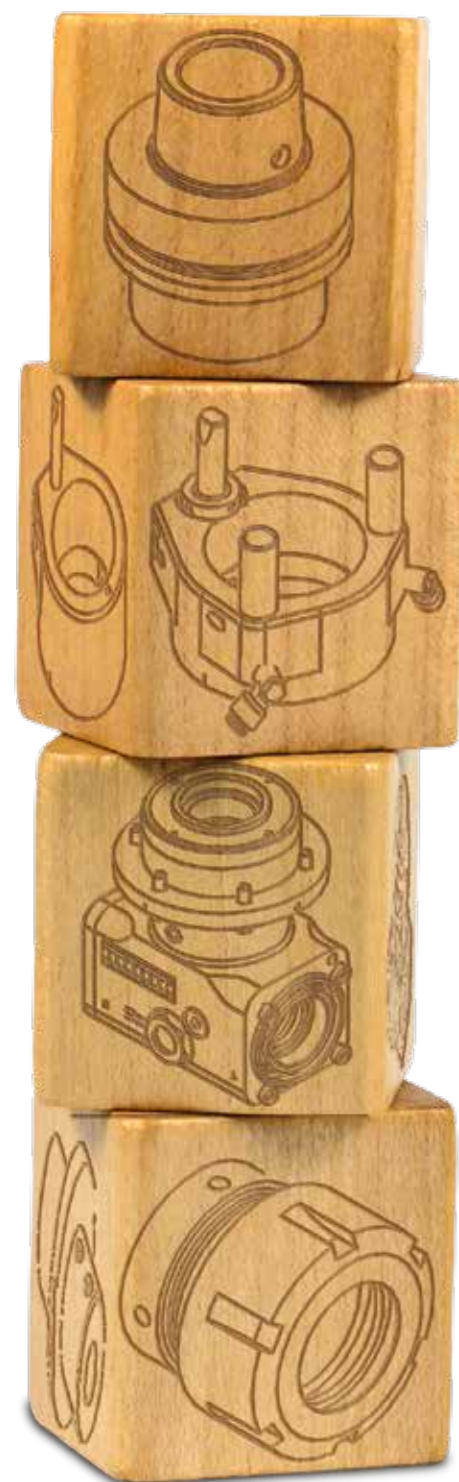
Aggregate

An angular aggregate, or angle head, supports the functionality of a CNC machine and acts as an extended arm of the motor spindle. Aggregates extend the machine-side machining capabilities of 3-, 4-, and 5-axis machines. Tools can work horizontally or at any angle, even when space is limited.

Use of aggregates offers cutting, grinding, probing, indenting, doweling, gluing, and many other processing methods in addition to "rotating" machining processes such as routing, drilling, and sawing, ...



Aggregate Solutions for CNC Machines & Robot Systems



Modularity for Greater...

- ... **Adaptability**
The design is completely adapted to the application area.
- ... **Cost-efficiency**
Optimally coordinated components provide for the maximum possible service life.
- ... **Flexibility**
Subsequent configuration of the machine connection is possible at any time.

Requirements and applications differ from one production facility to another. ATEMAG fine-tunes the solutions to match them perfectly.

In our initial meeting, our experts ask about the CNC machine, the material, the application, and the desired machining result. The aggregate is configured and assembled based on these specifications.

The modular design of our CNC aggregates offers numerous significant advantages. The main one lies in the individual adaptation. In our craft production facility, the aggregates are designed for the application area with the components needed for the application and the CNC machine.

If the conditions change, the requirements that the aggregate must meet also change.

Aggregates are built with cone/taper formats such as HSK-F63, HSK-E63, HSK-A63, SK30, SK40, BT30, and others. The torque arm is built to match the machine and is mounted as a separate aggregate component in the last work step.

Just like the machine connections, the tool interfaces can be designed flexibly and integrated according to customer requirements.

The numerous different interfaces, including ER 32, ER 25, Weldon, saw flange, and the modular tool interface (page 22), give rise to a wide range of possible tool applications.

The most common components are kept in stock so that we can assemble and deliver them quickly.

You benefit from the flexibility afforded by the modular design of the aggregates. Even with the large number of configurations, standard aggregates are always in stock and can be delivered within a short time after the torque arm is mounted.



Our Design – Your Advantage

Benefits to you:

- Flexible selection options
- Attractive prices
- Short delivery lead times





We machine EVERYTHING



Digital fingerprint for high quality standard.

Before leaving our manufactory, every unit - regardless of whether it is a new unit or a serviced unit - is tested in a test run. Vibration data, temperature development and maximum temperature in various speed ranges are checked and digitalized via the AC 4.0 Control Chip.

This enables us to guarantee a high quality standard and at the same time assign a digital fingerprint to the respective serial number.

where needs find solutions. With our craft production facility, we at ATEMAG can offer customers individual solutions with the highest quality – #madeingermany.

Our development and design team works with the customer and the customer's partners from the initial idea to the finished product to develop specific and one-of-a-kind products – even with a parts volume of one.

Custom-made aggregates are part of our core business, so we can often come up with concrete implementation ideas right in the initial meeting. ATEMAG is represented in numerous different industry sectors and provides innovative solutions for realizing challenging processes.



Angle Heads in 5-Axis Machines?

With the 5-axis machine, the user has greater machining flexibility because the spindle head can move to different positions. Still, there are a number of reasons for using 90-degree gearboxes with the 5-axis technology.

Time savings through elimination of tool change

If an angle head with multiple tool outputs is clamped into the 5-axis machine, different machining operations can be performed in succession without any tool change.



Compensation for unevenness & thickness fluctuations

A floating aggregate guarantees a constant machining depth by compensating for clamping unevenness and thickness fluctuations in the material.



Gentle force application for high torques

Through the central positioning of the tool in the motor spindle of the 5-axis machine, the load on the bearing is greatly reduced and the machine service life accordingly increased.



Groove routing for CLAMEX connectors

To avoid the interfering contours of the 5-axis machine, the MONO or DUO FUNCTION LINE can be used for routing CLAMEX grooves on the surface.



Time savings through drilling of multiple holes in a single stroke

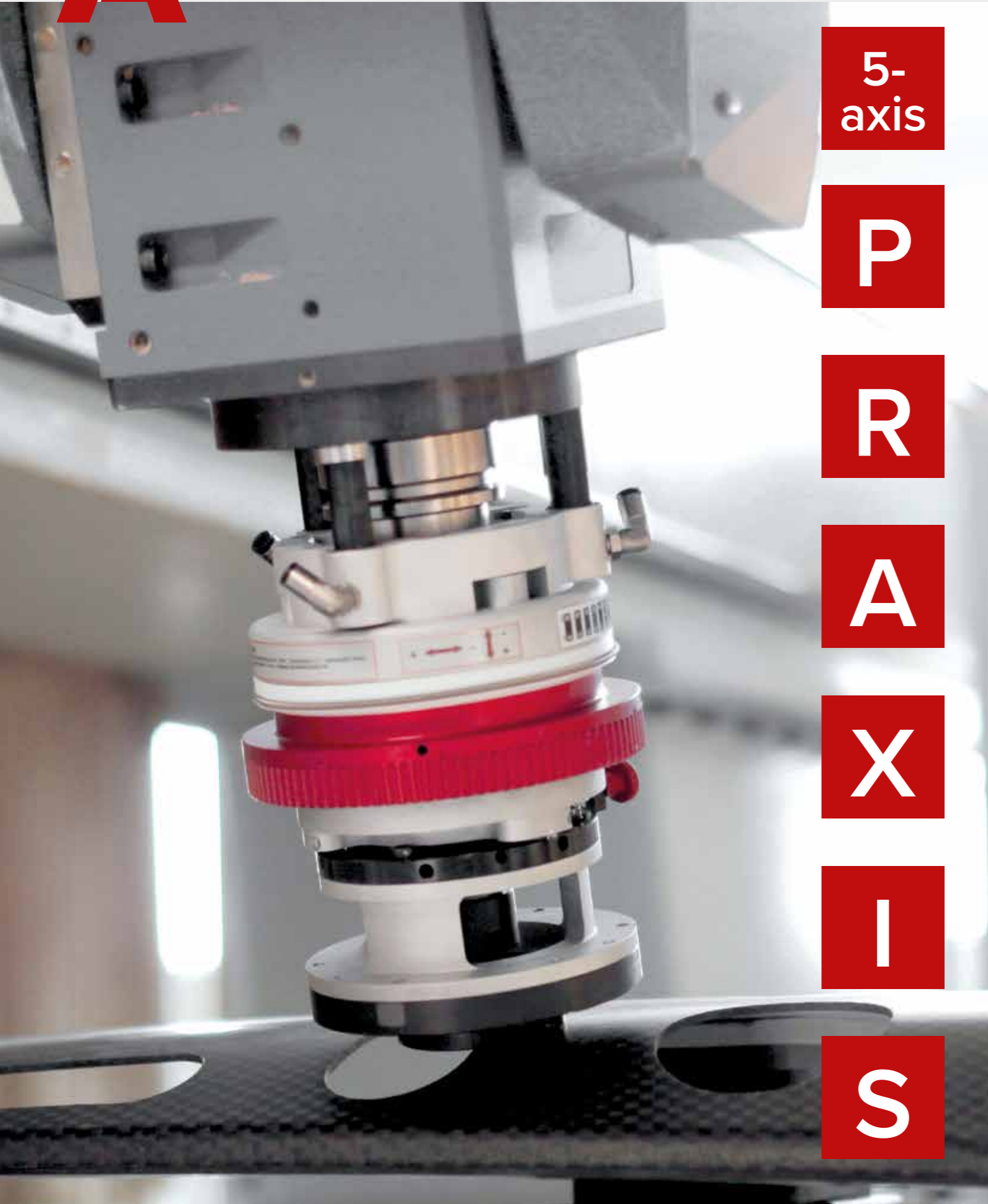
Multispindle heads and the planing shaft aggregate with a saw package are great time savers – they generate complex hole patterns and multiple parallel grooves in just one machining step.



Underside machining & corner notching

The slim design of the EXTRA 2 FUNCTION LINE and the SOTTO FUNCTION LINE brings a machining advantage to the 5-axis machine for underside machining and corner notching in tight spaces.





5-axis

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Maximum time savings in the machining process



Maximum space savings in the tool changer



Floating aggregate for defined edge machining of contoured parts on 5-axis machines or robot systems



During machining, guides the chips via a chip deflector plate directly to the machine extraction system



Economical drilling of numerous holes or complex hole patterns in just one machining stroke



Automated grinding of surfaces and edges



Clamex connectors on surfaces possible thanks to low interfering contour



Corner notching in tight spaces and underside machining without board reclamping



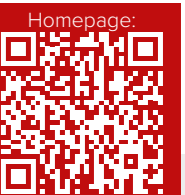
Cutting of soft materials



Stable machining through better support



Constant and defined machining depth despite clamping unevenness and thickness fluctuations





Aggregate Lubrication Technology

Grease or Oil?

Lubrication of the gear parts plays an important role in aggregate technology. Insufficient lubrication impacts the aggregate service life.

aggregate and prevents downtime.

ATEMAG aggregates are equipped with either high-performance grease or oil bath lubrication.

Proper lubrication improves the efficiency of the

Grease or Oil?

For mechanical parts that mesh and move relative to one another, there must be a grease or oil film on the metal surfaces to guarantee that there is no direct contact between them. This reduces friction and minimizes wear. The type of lubrication that should be used depends on the type of machining and whether it is for light- or heavy-duty tasks as well as on the rotational speed.

Grease

SMART LINE and FUNCTION LINE aggregates are lubricated with high-performance grease. The grease lubrication ensures the reliability of the machining process at moderate torques and high rotational speeds in continuous operation, especially for drilling and routing. Lifetime lubrication ensures that regular grease refills are not necessary.

Oil

ULTRA LINE aggregates work with oil bath lubrication. The oil bath lubrication ensures the reliability of the machining process at low rotational speeds and high torques. The gear housing is reliably sealed against dirt ingress and the gearing is continuously relubricated. Machining operations that use high torques such as planing or sawing can be performed reliably.

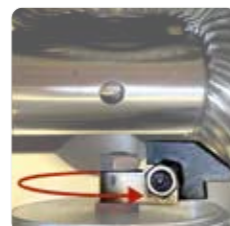


Constant Lubrication During Machining



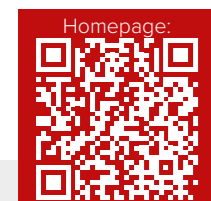
SIMA LUBE

The automated lubricator mounted on the aggregate has a lubricating time that can be individually adjusted to up to 12 months and guarantees regular relubrication of multiple spindles.



ROTA LUBE

The mechanical device is actuated manually at regular intervals and provides for optimal lubrication of the gear elements at high aggregate rotational speeds.



Smart Process Analysis Industry 4.0 – In the Aggregate

ATEMAG CONTROL 4.0

The AC 4.0 chip is mounted right on the aggregate and collects its process data, which are transmitted in real time directly to the user.

The high-tech sensors record the following data:

- Rotational speed
- Operating hours
- Temperature
- Vibration



The machine operator recognizes when critical parameters are reached and can optimize settings on the aggregate, the tools, and the machine in order to

- maximize the performance of the aggregate,
- lengthen the service life,
- optimize processes, and
- guarantee trouble-free operation.

The software also indicates recommended service intervals and enables timely and planned service for preventing undesired downtimes by means of preventive wear monitoring.



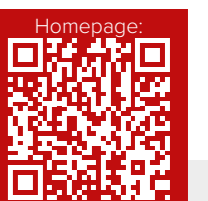
Performance Enhancement • Process Optimization • Cost Reduction



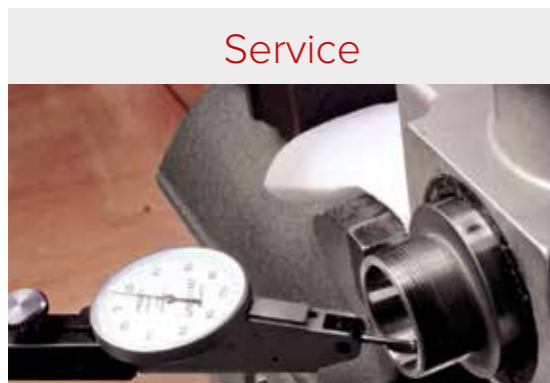
Adding AC 4.0 . . .

. . . to your ATEMAG aggregate is easy and inexpensive.

- Based on the serial number of your aggregate, we set up the AC 4.0 chip and send it to you.
- You simply retrofit your aggregate with the AC 4.0 chip and sign in to the cloud via registration.



A good aggregate alone is not enough –
 You also need excellent service so that you can rest assured:
Your productivity is guaranteed!

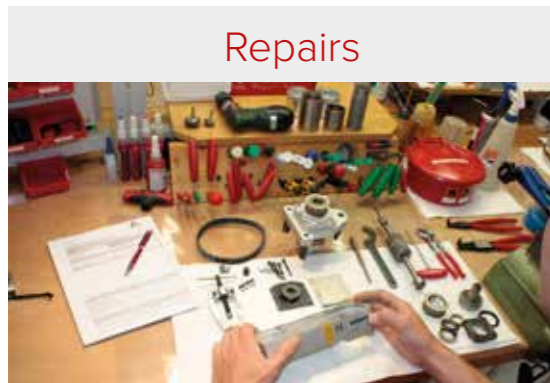


Service

Preventive maintenance & servicing of wear parts

Wear parts are parts that can be found on every aggregate and have to be replaced sooner or later. They include bearing parts, gear parts, toothed belts, seals, and spacer rings.

Regular service and timely replacement of wear parts prevents costly repairs and time-consuming breakdowns. That's why you should incorporate the servicing of your aggregate into your work processes.



Repairs

Is your aggregate defective and in need of repair?

Send the aggregate in to us!

After we receive the package, we will promptly examine and analyze it (whether ATEMAG or other make).

You will receive your individual service quotation based on this analysis.



Pickup Service

Do you want to order a repair, a conversion, or service from us?

We would be happy to pick up your aggregate.

Contact us by phone at +49 (0)7832 / 9997-28 or email at service@atemag.de.

For pickup, we require the following data: pickup address, name and telephone number of contact, size and weight of package, and pickup time frame.

Service Hotline

+49 (0) 7832 9997-28
 8:00 a.m. – 4:30 p.m.
service@atemag.de

When you call the ATEMAG service hotline, you will be speaking to experts who have many years of experience with ATEMAG products. Our experts know where the problem might be – and how it can be solved to the customer's satisfaction.

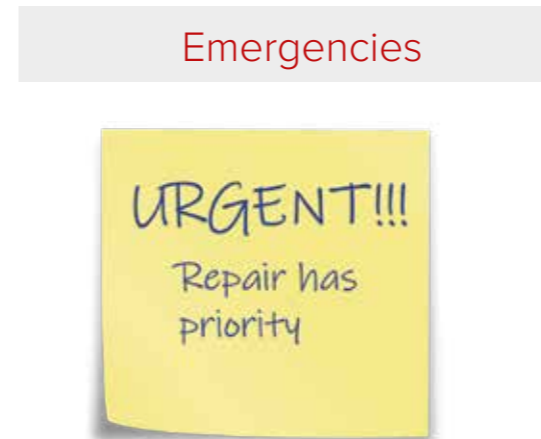


Replacement Parts

With the replacement parts service, you receive the individual components that you need. The service includes the following:

- Processing and execution of your individual replacement parts order and replacement parts delivery
- Compilation of replacement parts packages

We just need the serial number of the aggregate (number stamped into housing) and, optimally, a photo of the required replacement parts.



Emergencies

Is your aggregate defective and in need of immediate repair?

With our emergency service, we can help you minimize your downtime by providing the following services:

- Examination and quotation within 48 hours of receipt of aggregate
- Repair within 5 business days, provided that all replacement parts are in stock
- Personal service consultation
- If necessary, loan aggregate until repair is completed

Call us – we'll help you right away.

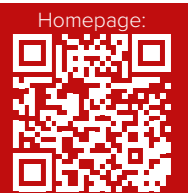


Machine Connection

Conversions for all CNC machines

Do you have a new CNC machine and want to use your aggregate on it?

We can modify the torque arm on your ATEMAG aggregate so that it can be used on a CNC machine from another manufacturer.

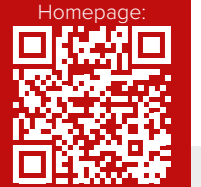


Homepage:



		SMART LINE			FUNCTION LINE																			ULTRA LINE			
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Material	Plastic	☑	☑	☑	☑	☑	☑	☑	☑	☑		☑	☑	☑	☑	☑	☑					☑	☑	☑	☑	☑	☑
	Soft materials																	☑									
	GFK CFK*	☑	☑	☑	☑	☑	☑	☑	☑	☑				☑		☑	☑						☑	☑	☑	☑	☑
	Wood	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑		☑	☑	☑	☑	☑	☑	☑	☑	☑
	Aluminum*			☑	☑	☑	☑	☑						☑		☑	☑						☑	☑	☑	☑	☑
Drilling	Acoustic																						☑				
	Hinges	☑	☑		☑	☑	☑	☑	☑	☑		☑	☑										☑		☑	☑	
	Connectors		☑		☑	☑	☑	☑	☑			☑	☑							☑		☑					
	Dowels	☑	☑		☑	☑	☑	☑	☑	☑		☑							☑		☑	☑					
	Countersinks													☑		☑											
Grinding	Peripheral grinding																						☑	☑	☑	☑	☑
	Face grinding			☑										☑		☑							☑	☑	☑	☑	
Milling	End milling (light-duty machining)	☑	☑		☑	☑	☑	☑	☑	☑	☑	☑	☑			☑	☑					☑					
	Shell end milling (heavy-duty machining)																						☑	☑	☑	☑	☑
Sawing	Circular saw, light-duty	☑	☑		☑	☑	☑	☑	☑						☑								☑	☑	☑	☑	☑
	Circular saw, heavy-duty																						☑	☑	☑	☑	☑
Cutting	Oscillating																		☑								
Probing	Axial			☑										☑	☑	☑											
	Radial																										☑
Planing																							☑			☑	☑

* Aggregates for machining of these materials are designed for specific applications





The Right Tool Holder for the Right Aggregate

Modular
tool con-
nection



		SMART LINE		FUNCTION LINE																		ULTRA LINE				
		P. 43	P. 45	P. 46	P. 47	P. 48	P. 50	P. 51	P. 52	P. 53	P. 54	P. 55	P. 56	P. 57	P. 59	P. 58	P. 63	P. 64	P. 62	P. 66	P. 65	P. 69	P. 69	P. 68	P. 71	
	ER 16 Mini																									☑
	ER 20 Mini																									☑
	ER 25 Mini	☑	☑	☑		☑	☑					☑		☑		☑					☑				☑	
	ER 32			☑	☑	☑	☑			☑	☑	☑													☑	
	ER40																								☑	
	ER 16 internal									☑	☑															
	ER 20 internal											☑														
	ER 25 internal												☑													
	Saw blade centering Ø30, Bolt circle Ø45 (4xM5) + Weldon Ø10 mm		☑	☑		☑	☑								☑						☑				☑	
	Saw blade centering Ø30, Bolt circle Ø52 (4xM5) + Weldon Ø10 mm			☑		☑	☑								☑						☑				☑	
	ER 25 Mini + saw blade holder Ø30, bolt circle Ø42 (2xØ6 cylindrical pin)	☑			☑																			☑	☑	
	Saw blade centering Ø30, bolt circle Ø45 (4xM5) + bolt circle Ø52 (4xM5) + Weldon Ø10	☑			☑																			☑	☑	
	Tool holder Ø30h5 for tool stem width from 1.5 to 6 mm																								☑	
	Tool holder Ø30h5 for tool stem width from 28 to 32 mm																								☑	
	Tool holder Ø30h5 for tool stem width from 48 to 52 mm																								☑	
	Tool holder Ø30h5 for tool stem width from 58 to 62 mm																								☑	
	Tool holder Ø30h5 for tool stem width from 98 to 102 mm																								☑	
	Weldon Ø6 mm																	☑	☑	☑					☑	
	Weldon Ø10 mm												☑												☑	
	Weldon Ø12 mm												☑												☑	
	Weldon Ø16 mm																								☑	
	Weldon Ø20 mm																								☑	
	M8 thread + Ø9H5 centering																								☑	

Typical Applications

Modular Adapter Systems for ...

- ... **Faster Setup**
Tool adapters are quickly exchanged.
- ... **Variable Machining**
Various tool adapters can be inserted into an aggregate.
- ... **Higher Productivity**
Tools can be clamped into the adapters in advance so that they are ready for use at all times.



ATEMAG ET interface



For economical production, setup times and downtimes have to be minimized.

With integration of the ATEMAG ET interface, various adapters with various dimensions and sizes can be deployed quickly and flexibly.

For this, the required tool is simply clamped into a device in the adapter and is then ready for use in the aggregate.

The ET interface is secured to the aggregate with four set screws. In both cases, the aggregate is immediately ready for operation.



Grinding of treads



SOFT GRINDER
SMART LINE
P. 44

Smoothing of transitions



SOFT GRINDER
SMART LINE
P. 44

Baluster hole drilling in stringer or railing



EXTRA
FUNCTION LINE
P. 52

Wire-brush texturing of treads



MEGA CUTTER
ULTRA LINE
P. 70

Corner mortising for stair treads



CHISEL MORTISER
FUNCTION LINE
P. 72

Pocket routing for treads / tread stringers



MONO / DUO / QUATTRO
FUNCTION LINE
P. 46, 48, 50

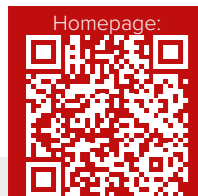
Edge machining of stair treads with surface probing



SOFT TOUCH ONE/PRO
FUNCTION LINE
S. 59, 56



SOFT TOUCH 360°
FUNCTION LINE
P. 58



Typical Applications

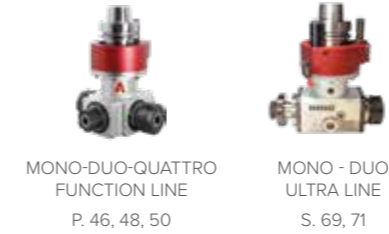
Clamex grooves in surfaces



Clamex grooves at any angle between 0°-100°



Sawing of back wall grooves



Underside machining, concealed hinge cup hole drilling or routing for hinges



Miter cuts at any angle between 0°-100° (corner joints)



Sanding of edges and surfaces



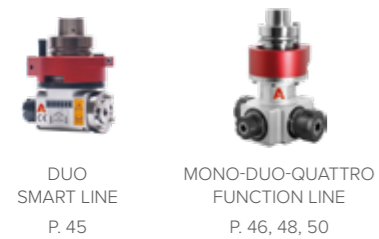
Machining w. surface probing: Rounding or chamfering of edges w. constant & defined positioning



Machining with surface probing: Decorative grooves with constant and defined positioning



Dowel hole drilling in edges



Routing or drilling in edges or recesses / pockets



Clamex grooves in edges with surface probing for boards with thickness fluctuations



Grinding at an angle (miters), e.g., Swiss edge



Typical Applications

Edge machining
of curved shapes



SOFT TOUCH 360°
FUNCTION LINE
P. 58

Drilling of holes for dowel joints in
body elements in nesting process



MONO LOW LEVEL
FUNCTION LINE
P. 64

Routing of glued-on edge
banding flush with board



FLUSH TRIM ROUTING AG-
GREGATE FUNCTION LINE
P. 72

All-in-one Cabineo hole drilling
in nesting process



VERTINEO
FUNCTION LINE
P. 62

Hole drilling for twist / furniture
handles / hardware in just one step



VERTI
FUNCTION LINE
P. 65

Sawing (formatting)



MONO-DUO
ULTRA LINE
S. 69, 71

Edge machining with surface
probing on 5-axis machines



SOFT TOUCH 360°
FUNCTION LINE
P. 58



SOFT TOUCH 3D
FUNCTION LINE
P. 60

Edge machining with surface
probing on 4-axis machines



SOFT TOUCH DUO 360°
FUNCTION LINE
P. 58

Slotting with saw package,
e.g., curved counter fronts



MEGA CUTTER
ULTRA LINE
P. 70

Slotting and wire-brushing of
visible surfaces



MEGA CUTTER
ULTRA LINE
P. 70

Generation of complex
surfaces and texturing grooves



MEGA CUTTER
ULTRA LINE
P. 70

Routing of Clamex grooves in
surfaces with surface probing



SOFT TOUCH PRO
FUNCTION LINE
P. 49



Drilling of hardware holes at an angle (e.g., 93° or 97°)



VARIO CLASSIC SMART LINE P. 43
MONO FIX FUNCTION LINE P. 47

Sanding of edges and surfaces – rough, intermediate, finish sanding...



SOFT GRINDER SMART LINE P. 44

Routing of pockets for door hinges



DUO FUNCTION LINE P. 48

Routing of corner joints, e.g., round mortise & tenon joints



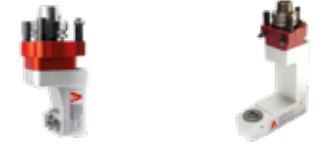
DUO FUNCTION LINE P. 48

Mortising of slots for fiche hinges, e.g., for restoration projects



FICHE HINGE AGGREGATE FUNCTION LINE P. 73

Sealing groove underside routing, twist handle holes & shiplap rabbets



EXTRA 2 FUNCTION LINE P. 54
SOTTO FUNCTION LINE P. 55

Conventional lockset recess and forend machining in edges



EXTRA FUNCTION LINE P. 52

Highly efficient lockset recess machining in edges



EXTRA PLUS FUNCTION LINE P. 53

Underside drilling (standard & concealed hinges)



EXTRA 2 FUNCTION LINE P. 54
SOTTO FUNCTION LINE P. 55

Efficient hole drilling for corner hinges, dowel joints (hole patterns)



HORI PRO FUNCTION LINE P. 66

Routing or drilling of water drainage grooves at an angle



VARIO CLASSIC SMART LINE P. 43

Drilling and routing



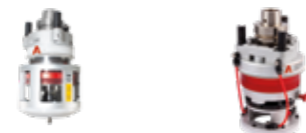
QUATTRO FUNCTION LINE P. 50

Notching of internal corners in light cutouts



EXTRA 2 FUNCTION LINE P. 54
CHISEL MORTISER FUNCTION LINE P. 72

Decorative groove routing, e.g. V-grooves in surfaces w. probing



SOFT TOUCH ONE FUNCTION LINE P. 59
SOFT TOUCH PRO FUNCTION LINE P. 56

Full decorative groove sawing in surfaces with probing



SOFT TOUCH PRO HORI FUNCTION LINE P. 57

Efficient routing of slat grooves in window shutters



HORI FUNCTION LINE P. 66

Hole drilling for twist handles / corner hinges / HW in 1 step



VERTI FUNCTION LINE P. 65

Hole drilling for twist handles, & door hardware, e.g., door handles



VERTI FUNCTION LINE P. 65

Generation of complex surfaces and texturing grooves



MEGA CUTTER ULTRA LINE P. 70

Drilling of door frame holes



FRAME AGGREGATE FUNCTION LINE P. 67



Underside conc. hinge cup hole drilling / recesses routing for countertop conn.



EXTRA 2
FUNCTION LINE
P. 54

SOTTO
FUNCTION LINE
P. 55

Milling of corner joints in countertops w. surface probing



SOFT TOUCH ONE
FUNCTION LINE
P. 59

SOFT TOUCH PRO
FUNCTION LINE
P. 56

Slotting and wire-brushing of visible surfaces



MEGA CUTTER
ULTRA LINE
P. 70

Edge machining of composite moldings with surface probing



SOFT TOUCH 360°
FUNCTION LINE
P. 58

SOFT TOUCH 3D
FUNCTION LINE
P.60

Countersinking to a defined depth



SOFT TOUCH ONE
FUNCTION LINE
P. 59

SOFT TOUCH PRO
FUNCTION LINE
P. 56

End-of-arm solution for GFRP/CFRP parts after pressing



SOFT TOUCH 360°
FUNCTION LINE
P. 58

Routing of rabbets for flush mount. (sink/stove) with surface probing



SOFT TOUCH ONE
FUNCTION LINE
P. 59

SOFT TOUCH PRO
FUNCTION LINE
P. 56

Hole drilling for furniture handles / hardware in one step



VERTI
FUNCTION LINE
P. 65

Formating (sawing)



MONO
ULTRA LINE
P. 69

Notching of intern. corners



EXTRA 2
FUNCTION LINE
P. 54

Milling of aluminum extrusions (train side walls) with surface probing



SOFT TOUCH CUBE
FUNCTION LINE
P. 56

SOFT TOUCH PRO
FUNCTION LINE
P. 56

Machining of aircraft turbines with surface probing



SOFT TOUCH CUBE
FUNCTION LINE
P. 56

SOFT TOUCH PRO
FUNCTION LINE
P. 56

Milling with surface probing for removal of weld seams



SOFT TOUCH CUBE
FUNCTION LINE
P. 56

SOFT TOUCH PRO
FUNCTION LINE
P. 56



Routing of glued-on edge banding flush with board



SOFT TOUCH ONE
FUNCTION LINE
P. 59

SOFT TOUCH PRO
FUNCTION LINE
P. 56



FLUSH TRIM
ROUTING AGGREGATE
P. 72

Edge machining with surface probing on front or back panels



SOFT TOUCH ONE
FUNCTION LINE
P. 59

SOFT TOUCH PRO
FUNCTION LINE
P. 56

Cutting of honeycomb core



SOFT CUTTER PRO
FUNCTION LINE
P. 63



Typical Applications

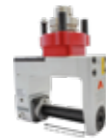


Slotting and wire-brushing of visible surfaces



MEGA CUTTER
ULTRA LINE
P. 70

Planing, grinding, & brushing of high-quality surfaces



MEGA CUTTER
ULTRA LINE
P. 70

Engraving



SPEEDER
FUNCTION LINE
P. 74

Sanding of edges & surfaces – rough, intermediate & finish sanding



SOFT GRINDER
SMART LINE
P. 44

Grinding of chamfers at an angle, e.g., Swiss edge & table tops



SOFT GRINDER
SMART LINE
P. 44

Machining w. surface probing: Routing of decorative grooves



SOFT TOUCH ONE
FUNCTION LINE
P. 59



SOFT TOUCH PRO
FUNCTION LINE
P. 56

Edge machining with surface probing on 4-axis machines



SOFT TOUCH 360° DUO
FUNCTION LINE
P. 58

Machining w. surface probing: Inlay grooves



SOFT TOUCH ONE
FUNCTION LINE
P. 59



SOFT TOUCH PRO
FUNCTION LINE
P. 56

Edge machining of curved shapes



SOFT TOUCH 360°
FUNCTION LINE
P. 58

Driving of staples or nails into wood



PNEUMATIC NAIL GUN

Production of hole patterns for acoustic elements



VERTI
FUNCTION LINE
P. 65

Sawing at high end of motor spindle performance range



REDUCTION GEAR
FUNCTION LINE

Notching inside corners in cutouts



MONO FIX 45°
FUNCTION LINE

Glued lam. timber str. elements slotting for steel plate connectors



CHAINSAW AGGREGATE
FUNCTION LINE
P. 73

Underside machining for drilling and routing



UNDERSIDE AGGREGATE
FUNCTION LINE



Slotting of wall or ceiling elements



MEGA CUTTER
ULTRA LINE
P. 70

Cutting of polyester, foam, or other soft core materials



SOFT CUTTER PRO
FUNCTION LINE
P. 63

Efficient hole pattern drilling for acoustic elements



VERTI
FUNCTION LINE
P. 65





ATEMAG was founded in 2004 to meet the needs of the wood processing industry for products with exceptional quality and outstanding customer service.

We want to supply products that ...

... are individually developed and coordinated according to customer needs and ...

... offer added value to each customer.

Craft production of aggregates at ATEMAG is nothing like an industrial production line. Ever since the company was founded, ensuring the uniqueness of each aggregate has been a priority. All bearings, gearwheels, and spacer rings are optimally coordinated.

Historically and owing to our quality promise, every aggregate is crafted by hand. Our aggregate specialists assemble, test, calibrate, document, and confirm the quality with their signatures.

ATEMAG

Aggregate Technologie und Manufaktur AG



where needs find solutions



FUNCTION LINE

Aggregate for efficient drilling of corner hinge holes in window frames thanks to especially compact

FUNCTION LINE

Aggregate for economical drilling of corner hinge holes in window frames with a high feed rate of 5

FUNCTION LINE

The drilling aggregate for Cabinet connectors. Drilling of three holes in one work step with a precise repeatable hole pattern.

FUNCTION LINE

Spindle drilling head for economical drilling of numerous holes in complex hole patterns in just one drilling stroke.



DRILLING



MILLING



GRINDING



SAWING



PLANING



BRUSHING



SCRIBING



STEMMING



Product overview

VARIO CLASSIC SMART LINE



CNC aggregate with angle adjustment from 0° to 100° via vernier scale and pivot arm for flexible use, even in compact machines.

Page 43

MONO FUNCTION LINE



Classic angle head with one horizontal tool output for challenging machining processes.

Page 46

QUATTRO FUNCTION LINE



Angle head with four horizontal tool outputs for flexible and challenging machining processes with no tool change.

Page 50

EXTRA FUNCTION LINE



Lockset recess aggregate with two horizontal tool outputs specifically for lockset recess routing or baluster hole drilling.

Page 52

MONO LOW LEVEL FUNCTION LINE



Nesting aggregate for efficient drilling of holes for dowel joints in body elements thanks to especially compact design.

Page 64

SOFT TOUCH PRO FUNCTION LINE



Floating aggregate for constant and defined machining depth despite clamping unevenness and thickness fluctuations. Routing, drilling, grinding, profiling, and sawing with surface probing (vertical and horizontal). Diverse machining possibilities thanks to modular system allowing individual adaptation to different requirements. Information on p. 56.

MONO ULTRA LINE



90-degree gearbox ideal for large saw blades, roughing cutters, profile cutters, texturing brushes, planing tools, grinding tools, etc.

Page 69

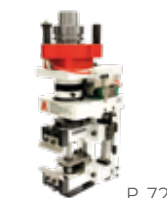
MEGA CUTTER ULTRA LINE



CNC machining aggregate for planing or with saw package – tool spindle positioned at 90°.

Page 70

FLUSH TRIM ROUTING AGGREGATE



P. 72

Aggregate for routing of glued-on edge banding flush w. board with probing function.

CHISEL MORTISER AGGREGATE



P. 72

Aggregate for drilling square holes through simultaneous drilling and mortising.

SOFT TOUCH COMPACT



Floating aggregate for constant and defined machining depth.

Page 60

DUO SMART LINE



CNC aggregate with two horizontal tool spindles – also ideal for compact machines.

Page 45

MONO FIX FUNCTION LINE



MONO FUNCTION LINE with customized angle and one tool output – ideal for mitering.

Page 47

VARIO VISO FUNCTION LINE



Machining aggregate with simple angle adjustment (0° to 100°) via fine gear and digital display – fast positioning at 90°, 45°, and 0°.

Page 51

EXTRA PLUS FUNCTION LINE



Lockset recess aggregate with high-speed mechanism for getting the work done in record time.

Page 53

HORI PRO FUNCTION LINE



Drilling aggregate for economical drilling of corner hinge holes in window construction with a high feed rate of 5 m/min.

Page 66

SOFT TOUCH PRO HORI FUNCTION LINE



90-degree gearbox with surface probing for groove sawing combined with copying unit from the SOFT TOUCH PRO for precise and accurate groove depths.

Page 57

MONO FIX ULTRA LINE



Aggregate for heavy-duty sawing ideal for large saw blades, roughing cutters, profile cutters, and grinding tools.

Page 69

The ULTRA LINE stands for a solid design and heavy-duty machining and, with use of the ideal motor spindle torque, is perfect for large saw blades, roughing cutters, profile cutters, texturing brushes, planing tools, grinding tools, etc.

Lubrication type: Oil
Gear stage: Reduction

CHAINSAW AGGREGATE



P. 73

Aggregate with chainsaw for joinery work on CNC machines.

ROTARY CUTTER AGGREGATE



P. 75

Aggregate with rotary blade for cutting a variety of different materials.

SOFT TOUCH 3D FUNCTION LINE



Floating aggregate for defined edge machining of contoured parts on 5-axis machines or robot systems.

Page 60

SOFT GRINDER SMART LINE



Eccentric sander for sanding or polishing work on CNC machines or robots on surfaces and edges – also suitable for free-form surfaces.

Page 44

DUO FUNCTION LINE



Angle head with two horizontal tool outputs for flexible and challenging machining processes with no tool change.

Page 48

SOTTO FUNCTION LINE



Underside aggregate for routing and drilling on cantilever machines without board reclamping – precise and efficient.

Page 55

EXTRA 2 FUNCTION LINE



Corner notching / underside machining on 5-axis machines in tight spaces without board reclamping.

Page 54

VERTINEO FUNCTION LINE



All-in-one drilling aggregate for Cableo connectors. Drilling of three holes in just one work step with a precise and repeatable hole pattern.

Page 62

SOFT TOUCH ONE FUNCTION LINE



Floating aggregate for constant and defined machining depth despite clamping unevenness and thickness fluctuations.

Page 59

DUO ULTRA LINE



Aggregate for heavy-duty sawing ideal for large saw blades, roughing cutters, profile cutters, and grinding tools with two tool outputs.

Page 71

SOLUTIONS FOR CLAMEX CONNECTORS



Vertical Clamex groove routing in surfaces with gentle machining using a standard ATEMAG aggregate – all-in-one system solution.

Page 49

SCORING & DRAG KNIFE AGGREGATE



P. 75

Aggregate with razor-thin blade for cutting thin materials.

FRAME AGGREGATE



P. 67

Angle head for machining connector holes in door frames.

BELT SANDING AGGREGATE



Efficient sanding of concave, convex, and flat edges.

Page 74

The SMART LINE combines the uncompromising ATEMAG quality with a compact size for continuous use on machines in tight spaces. For routing, drilling, grinding, and light-duty sawing.

Lubrication type: Grease

Gear stage: Fast

The FUNCTION LINE combines high rotational speeds with outstanding tool spindle stiffness in continuous operation. Designed mainly for routing, drilling, grinding, cutting, engraving, sawing, etc.

Lubrication type: Grease

Gear stage: Fast

SOFT CUTTER PRO FUNCTION LINE



Aggregate for cutting soft materials such as honeycomb core, acoustic elements, and textiles through the use of oscillating movements. Via the oscillating blade movement, either straight or radius cuts are made in soft materials – cutting at an angle is also possible if 5-axis technology is used.

Page 63

TOOL HOLDER WITH CHIP DEFLECTOR PLATE



Transports chips generated during machining directly to the machine extraction system via the deflector plate. Minimizes chip generation on the workpiece and provides for a dust-reduced and more comfortable work area.

Page 61

VERTI FUNCTION LINE



Multispindle drilling head for economical drilling of numerous holes or complex hole patterns in just one machining stroke.

Page 65

SOFT TOUCH 360° FUNCTION LINE



Floating aggregate for defined edge machining of contoured parts on 5-axis machines or robot systems.

Page 58

VARIO VISO ULTRA LINE



Digitally adjustable angle head (±100°) for heavy-duty machining in miters – fast positioning at 90°, 45°, and 0°.

Page 68

FICHE HINGE AGGREGATE



Aggregate for mortising of slots for fiche hinges.

Page 73

SPEEDER FUNCTION LINE



P. 74

High-speed aggregate for small tool diameters.

TRIO FUNCTION LINE



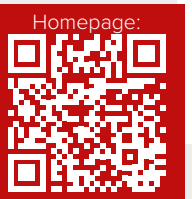
P. 67

DUO FUNCTION LINE with an additional vertical tool output.

SPECIAL SOLUTIONS

Nothing's impossible.

When standard aggregates reach their limits, ATEMAG takes a personalized approach. With our experience and development competence spanning the entire process from initial consultation to realization, we can expertly handle customer-specific challenges. We look forward to your tasks!



Homepage:

SOFT TOUCH PRO FUNCTION LINE



Floating aggregate for constant and defined machining depth despite clamping unevenness and thickness fluctuations. Routing, drilling, grinding, profiling, and sawing with surface probing (vertical and horizontal). Diverse machining possibilities thanks to modular system allowing individual adaptation to different requirements. Information on p. 56.



SOFT TOUCH PRO HORI FUNCTION LINE



90-degree gearbox with surface probing for groove sawing combined with copying unit from the SOFT TOUCH PRO for precise and accurate groove depths.

Page 57



SOFT TOUCH ONE FUNCTION LINE



Floating aggregate for constant and defined machining depth despite clamping unevenness and thickness fluctuations.

Page 59



SOFT TOUCH 360° FUNCTION LINE



Floating aggregate for defined edge machining of contoured parts on 5-axis machines or robot systems.

Page 58



where needs find solutions

Since 2019 ATEMAG's goals and vision have expanded:

ATEMAG doesn't just supply aggregates; ATEMAG supplies solutions for . . .

. . . every industry

. . . every material

. . . every challenge

Given these goals, the new company slogan is obvious:

where needs find solutions

This philosophy is part of our company culture and is what motivates the ATEMAG team.

For our customers, however, the slogan is a promise. No matter what challenge you present us with, we will work with you to find the solution, because . . .

. . . our customers are our strongest partners.

VARIO CLASSIC SMART LINE

CNC aggregate with angle adjustment from 0° to 100° via vernier scale and pivot arm for flexible use, even in compact machines



Machining capabilities: Drilling, routing, grinding, and light-duty sawing

Typical applications:

- Doors: Drilling of hardware holes at an angle (e.g., 93° or 97° Anuba hinges)
- Furniture making, exhibition stand construction, interior build-out: Clamex grooves in boards (90°) or at any angle
- Miter cuts at any angle (corner joints)
- Grinding of edges
- ...

Technical Specifications

Max. input speed:	15,000 rpm
Max. output speed:	15,000 rpm
Gear ratio:	1 : 1
Max. torque:	20 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	0° - 100°
Angle display:	Analog
Number of tool outputs:	1 / variable
Lubrication:	Grease / Lifetime lubrication Detailed information on page 14



Tool connections

- ER 25 Mini with saw blade flange (K1)
- K2 saw blade flange
- Modular interface
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



SOFT GRINDER SMART LINE

Eccentric sander for sanding or polishing work on CNC machines or robots on surfaces and edges – also suitable for free-form surfaces.

Machining capabilities:

- Sanding of edges and surfaces – rough, intermediate, and finish sanding ...
- Grinding at an angle (miters), e.g., Swiss edge
- Polishing of various materials, e.g., Corian
- ...

Materials: Veneered boards, solid wood, MDF, mineral materials, etc.

Technical Specifications

Max. input speed:	12,000 rpm
Max. output speed:	12,000 rpm
Gear ratio:	1:1
Permissible operating temperature:	85°C
Machining angle:	0°
Number of tool outputs:	1 / fixed
Max. floating capacity:	4 mm
Probing force:	1.2 - 2.4 kg
Eccentric stroke:	5



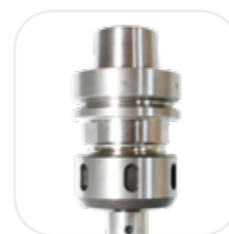
The SOFT GRINDER SMART LINE can be clamped in all angular aggregates units with ER 32 or ER 25 collet chuck interfaces.



Tool connection

The sanding discs are available with diameters of

- ø76 mm
- ø125 mm
- ø150 mm and can be exchanged.



Machine connection:

The eccentric sanding unit is simply clamped into an existing tool holder or a CNC aggregate.



Request quote:



DUO SMART LINE

CNC aggregate with two horizontal tool spindles – Also ideal for compact machines

Machining capabilities: Drilling, routing, grinding, and light-duty sawing

Typical applications: Furniture making, exhibition stand construction, interior build-out

- Clamex grooves in boards (90°)
- Dowel hole drilling in edges
- Routing in edges or recesses
- Grinding of edges
- ...

Technical Specifications

Max. input speed:	8,000 rpm
Max. output speed:	12,000 rpm
Gear ratio:	1 : 1.48
Max. torque:	15 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	90°
Number of tool outputs:	2 / fixed
Lubrication:	Grease / Rota Lube – Lifetime lubrication Detailed information on page: 14



Tool connections

- ER 25
- S1 saw blade flange
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.

Request quote:





FUNCTION LINE

MONO

MONO FUNCTION LINE

Classic angle head with one horizontal tool output for challenging machining processes

Machining capabilities: Drilling, routing, grinding, and sawing

Typical applications:

- Furniture making: Dowel hole drilling in edges, Clamex grooves in boards, sawing of back wall grooves
- Doors: Routing of recesses for connectors (TECTUS)
- Windows: Routing of joints, e.g., round mortise and tenon joints
- ...

Technical Specifications

Max. input speed:	10,000 rpm with Rota Lube: max. 12,100 rpm
Max. output speed:	15,000 rpm with Rota Lube: max. 18,000 rpm
Gear ratio:	1 : 1.48
Max. torque:	20 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	90°
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Rota Lube – Lifetime lubrication Detailed information on page: 14



Tool connections

- ER 25
- ER 32
- S1 saw blade flange
- Modular interface
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



Tool connections:

- ER 25 and saw blade flange (K1)
- K2 saw blade flange
- Modular interface
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.

FUNCTION LINE

MONO
FIX

MONO FIX FUNCTION LINE

MONO FUNCTION LINE with customized angle and one tool output – Ideal for mitering

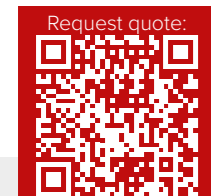
Machining capabilities: Drilling, routing, grinding, and light sawing

Typical applications:

- Doors: Drilling of hardware holes at an angle (e.g., 93° or 97° Anuba hinges)
- Clamex grooves
- Sawing of miter cuts at 45° for corner joints
- Routing of holes for miter joint connectors
- ...

Technical Specifications

Max. input speed:	15,000 rpm
Max. output speed:	15,000 rpm
Gear ratio:	1 : 1
Max. torque:	20 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	0-100°
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication Detailed information on page 14



DUO FUNCTION LINE

Angle head with two horizontal tool outputs for flexible and challenging machining processes with no tool change

Machining capabilities: Drilling, routing, grinding, and light-duty sawing

Typical applications:

- Time savings in the process and space savings in the tool changer (even with 5 axes)
- Furniture making: Dowel hole drilling in edges, Clamex grooves in boards, sawing of back wall grooves
- Doors: Routing of recesses for connectors (TECTUS);
- Windows: Routing of joints, e.g., round mortise and tenon joints

Technical Specifications

Max. input speed:	10,000 rpm With Rota Lube: max. 12,100 rpm
Max. output speed:	15,000 rpm With Rota Lube: max. 18,000 rpm
Gear ratio:	1 : 1.48
Max. torque:	20 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	90°
Number of tool outputs:	2 / fixed
Lubrication:	Grease / Rota Lube – Lifetime lubrication Detailed information on page: 14



Tool connections:

- ER 25
- ER 32
- S1 saw blade flange
- Modular interface
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.

SOLUTIONS FOR CLAMEX CONNECTORS

Vertical Clamex groove routing in surfaces with gentle machining using a standard ATEMAG aggregate – all-in-one system solution

The MONO, DUO, and QUATTRO standard aggregates allow the Clamex connector to be positioned at any point on the board thanks to the vertical position of the Clamex groove side milling cutter and the spindle design of the aggregate.

For diagonal positioning of the groove, the MONO FIX FUNCTION LINE (fixed angle) or the VARIO (variable angle) can be used. The grooving cutter tool of the respective aggregate is plunged into the surface during machining and moved sideways at a precise depth.

Technical Specifications

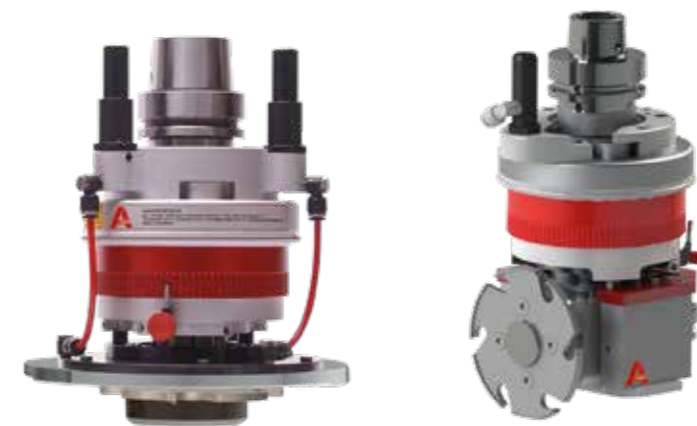
Max. input speed:	max. 10,000 rpm with Rota Lube: max. 12,100 rpm
Max. output speed:	max. 15,000 rpm with Rota Lube: max. 18,000 rpm
Gear ratio:	1 : 1.48
Max. torque:	20 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	90°
Number of tool outputs:	2 / fixed
Lubrication:	Grease / Rota Lube – Lifetime lubrication Detailed information on page 14



Floating Aggregate for Clamex Connectors

Grooves for Clamex connectors can also be routed into edges and surfaces of workpieces that have thickness fluctuations.

The **SOFT TOUCH PRO FUNCTION LINE**, which is equipped with a special probe, is suitable for this type of machining.



On request, we can supply any aggregate used for Clamex groove routing with the Clamex routing tool in a system. Take advantage of our all-in-one system solution and request a quote for your Clamex system solution.

Request quote:



Request quote:



QUATTRO FUNCTION LINE

Angle head with four horizontal tool outputs for flexible and challenging machining processes with no tool change

Machining capabilities: Drilling, routing, grinding, and light sawing

Typical applications:

- 5-axis: Maximum time savings in the process and space savings in the tool changer
- Furniture making: Dowel hole drilling in edges, Clamex grooves in boards, sawing of back wall grooves
- Doors: Routing of recesses for connectors (TECTUS);
- Windows: Routing of joints, e.g., round mortise and tenon joints

Technical Specifications

Max. input speed:	10,000 rpm with Rota Lube: max. 12,100 rpm
Max. output speed:	15,000 rpm with Rota Lube: max. 18,000 rpm
Gear ratio:	1 : 1.48
Max. torque:	20 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	90°
Number of tool outputs:	4 / fixed
Lubrication:	Grease / Rota Lube – Lifetime lubrication Detailed information on page: 14



Tool connections:

- ER 25
- ER 32
- S1 saw blade flange
- Modular interface
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



Tool connections:

- ER 25 Mini and saw blade flange (K1)
- K2 saw blade flange
- Modular interface
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



VARIO VISO FUNCTION LINE

Machining aggregate with simple angle adjustment (0° to 100°) via fine gear and digital display – Fast positioning at 90°, 45°, and 0°

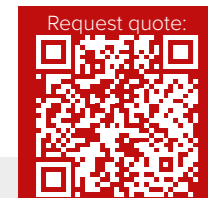
Machining capabilities: Drilling, routing, grinding, and light sawing

Typical applications:

- Doors: Drilling of hardware holes at an angle (e.g., 93° or 97° Anuba hinges)
- Furniture making, exhibition stand construction, interior build-out: Clamex grooves in miters
- Miter cuts at any angle (corner joints)
- Grinding of edges
- ...

Technical Specifications

Max. input speed:	15,000 rpm
Max. output speed:	15,000 rpm
Gear ratio:	1 : 1
Max. torque:	20 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	0 - 100°
Angle display:	Digital
Number of tool outputs:	1 / variable
Lubrication:	Grease / Lifetime lubrication Detailed information on page 14



EXTRA FUNCTION LINE

Lockset recess aggregate with two horizontal tool outputs specifically for lockset recess routing or baluster hole drilling

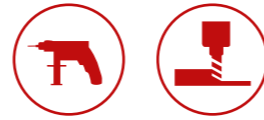
The design permits the use of long tools with a small interference circle diameter – optionally also with a guide rail for tool stabilization for deep drilling.

Typical applications:

- Doors: Lockset recess routing and forend routing in edges
- Stairs: Baluster hole drilling in stringer or railing
- Furniture making: Dowel hole drilling and drilling of holes for insert boards
- ...

Technical Specifications

Max. input speed:	10,000 rpm with Rota Lube: max. 12,100 rpm
Max. output speed:	15,000 rpm with Rota Lube: max. 18,000 rpm
Gear ratio:	1 : 1.48
Max. torque:	20 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	4 x 90°
Machining angle:	90°
Number of tool outputs:	2 / fixed
Lubrication:	Grease / Rota Lube – Lifetime lubrication Detailed information on page: 14



Tool connection

- ER 16
- ER 32
- Modular interface
- Weldon
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.

EXTRA PLUS FUNCTION LINE

Lockset recess aggregate with high-speed mechanism for getting the work done in record time.

The high-speed mechanism in the oscillating production process guarantees a time savings of at least 50% compared with conventional lockset recess milling.

Typical applications:

Industrial door production on CNC machines for lockset recess and forend machining

Technical Specifications

Max. input speed:	10,000 rpm
Max. output speed:	15,000 rpm
Gear ratio:	1 : 1.48
Max. torque:	20 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	4 x 90°
Machining angle:	90°
Number of tool outputs:	2 / fixed
Lubrication:	Grease / Rota Lube – Lifetime lubrication Detailed information on page: 14



Pocket width: 76 mm for cutter ø16 mm with extension length 125 mm



Tool connections:

- ER32
- ER16

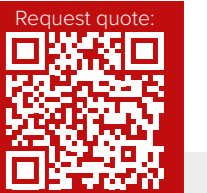
Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



EXTRA 2 FUNCTION LINE

Corner notching / underside machining on 5-axis machines in tight spaces without board

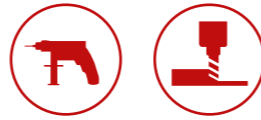
Machining capabilities: Drilling and routing

Typical applications:

- Windows: Underside routing of sealing grooves
- Doors: Underside drilling (standard and concealed hinges), notching of internal corners
- Furniture making and kitchens: Concealed hinge cup hole drilling / routing for hinges
- ...

Technical Specifications

Max. input speed:	8,000 rpm
Max. output speed:	12,100 rpm
Gear ratio:	1 : 1.48
Max. torque:	4 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	4 x 90°
Machining angle:	90°
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication Detailed information on page 14



Tool connection

- Spindle for corner notching tool
- ER32
- ER 20 internal
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.

SOTTO FUNCTION LINE

Underside aggregate for routing and drilling on cantilever machines without board reclamping – Precise and efficient

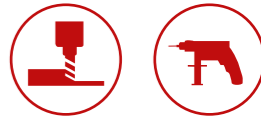
Machining capabilities: Drilling and routing

Typical applications:

- Windows: Underside routing of sealing grooves
- Doors: Underside drilling (standard and concealed hinges)
- Furniture making + kitchens: Concealed hinge cup hole drilling or routing for hinges
- ...

Technical Specifications

Max. input speed:	15,000 rpm
Max. output speed:	15,000 rpm
Gear ratio:	1 : 1
Max. torque:	5 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	4 x 90°
Machining angle:	180°
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication Detailed information on page 14



Tool connections:

- ER 25 internal
- Weldon
- Other connections on request

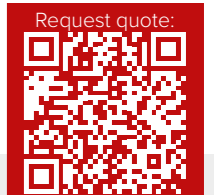
Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



SOFT TOUCH PRO FUNCTION LINE

Floating aggregate for constant and defined machining depth despite clamping unevenness and thickness fluctuations

Typical applications:

- Facade installation: Routing of V-grooves in ALUCOBOND
- Stairs: Edge machining of stair treads
- Furniture making: Clamex P connectors in edges
- Kitchens: Routing of recesses in countertops / doors: Decorative grooves
- Formwork installation: Drilling at a defined depth
- Automotive and aerospace: Edge machining of molded parts and countersinking

Technical Specifications

Max. input speed: 18,000 rpm

Max. output speed: 18,000 rpm

Gear ratio: 1 : 1

Max. torque: 10 Nm

Permissible operating temperature: max. 85°C

Machining angle: 0°

Number of tool outputs: 1 / fixed

Lubrication: Grease / Lifetime lubrication
Detailed information on page 14

Floating capacity: 10 mm

Adjustment range: 10 mm

Setting precision: 0.01 mm

Probing direction: Axial



Routing, drilling, grinding, profiling, and sawing with surface probing (vertical and horizontal)
Diverse machining possibilities thanks to modular system allowing individual adaptation to different requirements.



Tool connection:

- Modular interface
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.

SOFT TOUCH PRO HORI FUNCTION LINE

90° gearbox w. surface probing for groove sawing with copying unit from SOFT TOUCH PRO (p. 56) for precise and accurate groove depths

Fast feed rate due to high cutting speed

Machining capabilities: Sawing

Typical applications:

- Doors: All types of decorative grooves
- Facades: V-grooves

Technical Specifications

Max. input speed: 8,100 rpm

Max. output speed: 12,000 rpm

Gear ratio: 1 : 1.48

Max. torque: 10 Nm

Permissible operating temperature: max. 85°C

Floating capacity: 10 mm

Adjustment range: 7 mm

Setting precision: 0.01 mm

Machining angle: 90°

Number of tool outputs: 1 / fixed

Lubrication: Grease / Lifetime lubrication
Detailed information on page 14



Tool connections:

- ATlock
- S1 saw blade flange
- Modular interface
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



SOFT TOUCH 360° MONO FUNCTION LINE

Floating aggregate for defined edge machining of contoured parts on 5-axis machines or robot systems

Typical applications:

- Musical instruments: Edge machining of guitar bodies
- Furniture making: Edge machining of contoured shapes
Routing of glued-on edge banding flush with board on 5-axis machines
- Industrial robot cells: End-of-arm solution for edge machining of GFRP/CFRP parts after pressing
- ...

Technical Specifications

Max. input speed:	12,000 rpm
Max. output speed:	12,000 rpm
Gear ratio:	1 : 1
Max. torque:	10 Nm
Permissible operating temperature:	max. 85°C
Machining angle:	0°
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication Detailed information on page 14
Probing direction:	Radial
Floating capacity:	5 mm



Copying function for compensating for shape and position tolerances in radial axis direction of molded parts, e.g., chamfers and radii, or for deburring.

SOFT TOUCH 360° DUO FUNCTION LINE

With two tool outputs

Furniture making and interior build-out:
Routing of glued-on edge banding flush with board on 4-axis machines



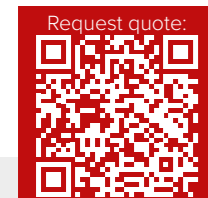
Tool connections:

- Modular interface
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:
ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.
On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



SOFT TOUCH ONE FUNCTION LINE

Floating aggregate for constant and defined machining depth despite clamping unevenness and thickness fluctuations

Typical applications:

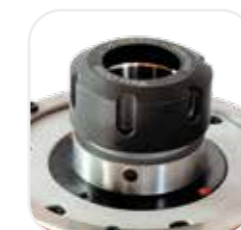
- Facade installation: Routing of V-grooves in ALUCOBOND
- Stairs: Edge machining of stair treads
- Doors: Decorative grooves
- Kitchens: Routing of recesses in countertops
- Formwork installation: Drilling at a defined depth
- Automotive and aerospace: Edge machining of molded parts and countersinking

Technical Specifications

Max. input speed:	18,000 rpm
Max. output speed:	18,000 rpm
Gear ratio:	1 : 1
Max. torque:	10 Nm
Permissible operating temperature:	max. 85°C
Machining angle:	0°
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication Detailed information on page 14
Floating capacity:	10 mm
Adjustment range:	70 mm
Setting precision:	0.01 mm
Probing direction:	Axial



Routing – Drilling – Sawing (horiz.) – Grinding for standard applications



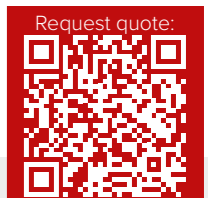
Tool connections:

- ER 32
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:
ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.
On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.





FUNCTION LINE

SOFT TOUCH COMPACT

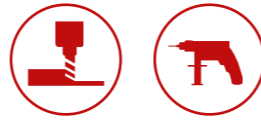
SOFT TOUCH COMPACT

Floating aggregate for constant and defined machining depth

Typical applications are the same as those of the SOFT TOUCH PRO FUNCTION LINE and the SOFT TOUCH ONE FUNCTION LINE, but are designed for use when space is limited due to the requirements of the application or the machine characteristics. The height or diameter is adapted.

Technical Specifications

Max. input speed:	18,000 rpm
Max. output speed:	18,000 rpm
Gear ratio:	1 : 1
Max. torque:	10 Nm
Permissible operating temperature:	max. 85°C
Number of tool outputs:	1 / fixed
Floating capacity:	6 mm
Adjustment range:	4 mm
Setting precision:	0.01 mm
Lubrication:	Grease / Lifetime lubrication



SOFT TOUCH 3D FUNCTION LINE

Floating aggregate for defined edge machining of contoured parts on 5-axis machines or robot systems

Extension of the SOFT TOUCH 360° FUNCTION LINE floating aggregate (p. 58) with additional axial probing.

Technical Specifications

Max. input speed:	12,000 rpm
Max. output speed:	12,000 rpm
Gear ratio:	1 : 1
Max. torque:	10 Nm
Permissible operating temperature:	max. 85°C
Floating capacity:	axial: 7.5 mm / radial 5 mm
Machining angle:	0°
Adjustment range:	5 mm
Setting precision:	0,01 mm
Probing direction:	axial and radial
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication



FUNCTION LINE

SOFT TOUCH 3D

FUNCTION LINE

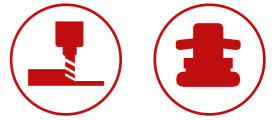
TOOL HOLDER

Tool holder with chip deflector plate...

... transports chips generated during machining directly to the machine extraction system via the deflector plate.

Minimizes chip generation on the workpiece and provides for a dust-reduced and more comfortable work area.

The tool holder is designed individually according to the customer's specifications.



Technical Specifications

Max. input speed:	15,000 rpm
Max. output speed:	15,000 rpm
Gear ratio:	1 : 1
Max. torque:	20 Nm
Permissible operating temperature:	max. 85°C
Machining angle:	0°
Number of tool outputs:	1 / fixed
Lubrication:	Grease



Tool connection:

- ER 25
- ER 32
- ER 40
- Modular interface
- Tool arbor according to customer's specifications
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.

Request quote:



VERTINEO FUNCTION LINE

All-in-one drilling aggregate for Cabineo connectors. Drilling of three holes in just one work step with a precise and repeatable hole pattern

Machining capabilities: Drilling of Cabineo holes

Typical applications:
• Furniture production

Technical Specifications

Max. input speed:	6,500 rpm
Max. output speed:	6,500 rpm
Gear ratio:	1 : 1
Max. torque:	3 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	0°
Number of tool outputs:	3 / fixed
Lubrication:	Grease / Lifetime lubrication Detailed information on page 14



Tool connection:
• Weldon Ø6 mm
Overview of most commonly used connections: Page 20.



Machine connection:
ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.
On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



VERTINEO including tools as a system solution:

- Suitable for all common board materials
- Nearly flat hole bottom
- Precutter design for accurate hole drilling



SOFT CUTTER PRO FUNCTION LINE

Aggregate for cutting soft materials such as honeycomb core, acoustic elements, and textiles through the use of oscillating movements

Machining capabilities: Cutting of straight-edged or radius cutouts

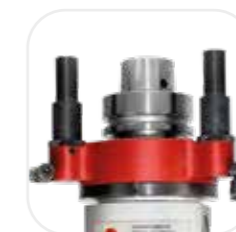
Typical applications:
• Textile: Cutting of fabrics or textiles (e.g., leather, felt, etc.)
• Cutting to size of honeycomb cores for doors, stair construction, exhibition stand construction, or recreational vehicle construction
• Acoustic elements: Cutting of polyester, foam, or other sound-absorbing materials
• Aerospace and boat building: Cutting of honeycomb core

Technical Specifications

Max. input speed:	6,000 rpm
Max. output speed:	9,000 rpm
Gear ratio:	1 : 1.48
Max. torque:	8 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	0°
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication Detailed information on page 14
Amplitude:	4 mm
Frequency:	150 Hz



Tool connection:
• Weldon Ø6 mm
Overview of most commonly used connections: Page 20.



Machine connection:
ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.
On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



Via the oscillating blade movement, either straight or radius cuts are made in soft materials – cutting at an angle is also possible if 5-axis technology is used



MONO LOW LEVEL FUNCTION LINE

Nesting aggregate for efficient drilling of holes for dowel joints in body elements thanks to especially compact design

Machining capabilities:
Drilling of dowel holes of diameter 6 or 8 mm in boards of thickness 16 mm or greater.
Typical applications: Furniture production on nesting machines.

Technical Specifications

Max. input speed:	6,800 rpm
Max. output speed:	6,000 rpm
Gear ratio:	1 : 0.88
Max. torque:	1 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	90°
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication Detailed information on page 14



Tool connection
• M8 with Ø9H5 centering hole
Overview of most commonly used connections: Page 20.



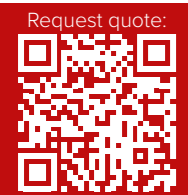
Machine connection:
ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.
On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



Tool connection:
• Weldon Ø10 mm
• Other connections on request
Overview of most commonly used connections: Page 20.



Machine connection:
ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.
On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



VERTI FUNCTION LINE

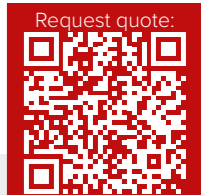
Multispindle drilling head for economical drilling of numerous holes or complex hole patterns in just one machining stroke

The design is always application-based. The number of spindles, the grid dimensions, and the spindle arrangement can vary accordingly.

Typical applications:
• Furniture, windows, and doors: Holes for twist handles or hardware in just one step
• Acoustic elements: Economical production due to fewer drilling strokes

Technical Specifications

Max. input speed:	10,000 rpm
Max. output speed:	10,000 rpm
Gear ratio:	1 : 1
Max. torque:	1 - 5 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	0°
Number of tool outputs:	2-49 / fixed
Lubrication:	Grease / Sima Lube Detailed information on page 14



HORI PRO FUNCTION LINE

Drilling aggregate for economical drilling of corner hinge holes in window construction with a high feed rate of 5 m/min

Typical applications:
Windows: Efficient drilling of holes for corner hinges and dowels

Technical Specifications

Max. input speed:	5,000 rpm
Max. output speed:	7,500 rpm
Gear ratio:	1 : 1.48
Max. torque:	1 - 20 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	90°
Number of tool outputs:	2-10 / fixed
Lubrication:	Grease / Lifetime lubrication Detailed information on page 14



Spindle arrangement and number of spindles according to customer specifications



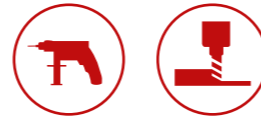
Tool connection:

- Weldon Ø 10 mm
- ER 25
- S1 saw blade flange
- Modular interface
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:
ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.
On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



FRAME AGGREGATE

Angle head for machining of door frames

Hole routing for frame connectors, also known as miter joint connectors, for bracing the individual mitered parts of door frames.

Technical Specifications

Max. input speed:	15,000 rpm
Max. output speed:	10,000 rpm
Gear ratio:	1 : 0.676
Max. torque:	1.5 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	90°
Number of tool outputs:	2 / fixed
Lubrication:	Grease / Lifetime lubrication

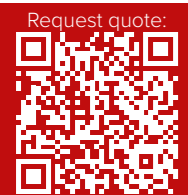
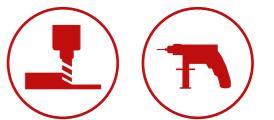


TRIO FUNCTION LINE

DUO FUNCTION LINE with an additional vertical tool output

Technical Specifications

Max. input speed:	10,000 rpm
Max. output speed:	15,000 rpm
Gear ratio:	1:1.48
Max. torque:	20 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	horizontal and vertical
Number of tool outputs:	3 / fixed
Lubrication:	Grease / Lifetime lubrication



Request quote:



VARIO VISO ULTRA LINE

Digitally adjustable angle head ($\pm 100^\circ$) for heavy-duty machining in miters – fast positioning at 90° , 45° , and 0°

Machining capabilities: Sawing, drilling, routing, planing, and grinding

Typical applications: Furniture industry, exhibition stand construction, and interior build-out:

- Solid wood machining with large saw blade diameter
- Miter cuts at any angle with a swivel range of 200° ($\pm 100^\circ$)

Technical Specifications

Max. input speed:	13,760 rpm
Max. output speed:	15,000 rpm
Gear ratio:	1 : 1.09
Max. torque:	20 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	From 100° to -100°
Angle display:	Digital
Number of tool outputs:	1 / variable
Lubrication:	Oil / Oil bath lubrication Detailed information on page 14
Max. saw blade diameter:	$\sim \varnothing 250$ mm



Tool connection

- ER 25 Mini and saw blade flange (K1)
- K2 saw blade flange
- Modular interface
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.

MONO ULTRA LINE

Aggregate for heavy-duty sawing ideal for large saw blades, roughing cutters, profile cutters, and grinding tools

Machining capabilities: Sawing, routing, brushing, planing, and grinding

Typical applications:

- Sawing (formatting) of solid wood, board and mineral materials, composites, aluminum, etc...
- Cut-offs, grooving, profiling, planing, etc.

Technical Specifications

Max. input speed:	12,000 rpm
Max. output speed:	8,100 rpm
Gear ratio:	1 : 0.676
Max. torque:	22 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	90°
Number of tool outputs:	1 / fixed
Lubrication:	Oil / Oil bath lubrication Detailed information on page 14
Max. saw blade diameter:	Housing height short: $\sim \varnothing 220$ mm Housing height medium: $\sim \varnothing 280$ mm Housing height long: $\sim \varnothing 300$ mm



Tool connection

- ATlock
- ER 32
- Modular interface
- S1 saw blade flange
- K2 saw blade flange
- ER 25
- Other connections on request

Overview of most commonly used connections: Page 20.



Machine connection:

ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.

On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



MONO FIX ULTRA LINE

with fixed 45° angle



Max. saw blade diameter:
 $\sim \varnothing 250$ mm



MEGA CUTTER ULTRA LINE

Planing shaft aggregate for planing, slotting (sawing), brushing, and grinding

Machining capabilities: Slotting, brushing, planing, and grinding

Typical applications:

- Stair construction: Wire-brush texturing of treads
- Shop fit-out: Slotting with saw package, e.g., curved counter fronts
- Door production: Textured surfaces
- Acoustic elements: Slotting of visible surfaces with saw package, e.g., wall or ceiling elements

Technical Specifications

Max. input speed:	11,380 rpm
Max. output speed:	7,690 rpm
Gear ratio:	1 : 0.676
Max. torque:	22 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	4 x 90°
Machining angle:	90°
Number of tool outputs:	1 / fixed
Lubrication:	Oil / Oil bath lubrication Detailed information on page 14
Max. tool diameter:	~ Ø160 mm



Tool connection
• Shaft Ø30
Overview of most commonly used connections: Page 20.



Machine connection:
ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.
On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



Request quote:



DUO ULTRA LINE

Aggregate for heavy-duty sawing ideal for large saw blades, roughing cutters, profile cutters, and grinding tools with two tool outputs

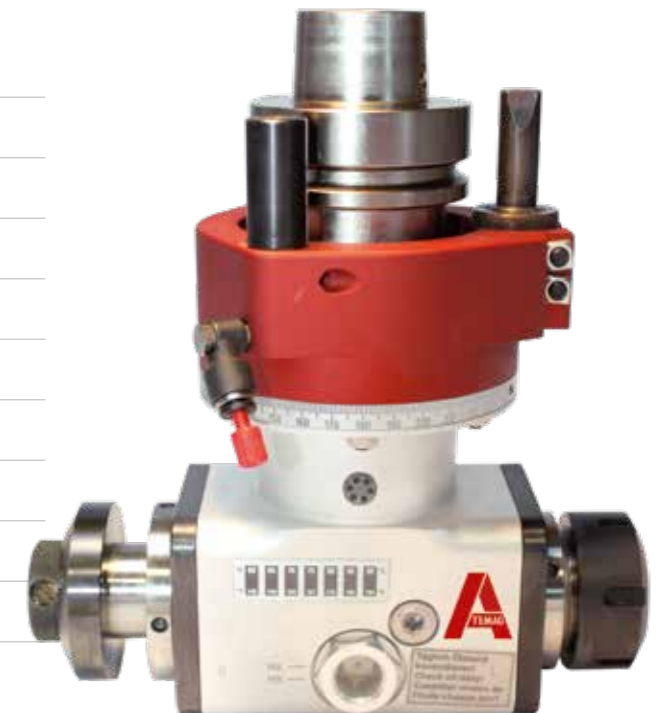
Machining capabilities: Sawing, routing, brushing, planing, and grinding

Typical applications:

- Time savings in the process and space savings in the tool changer (even with 5 axes)
- Sawing (formatting) of solid wood, board and mineral materials, composites, aluminum, etc...
- Cut-offs, grooving, profiling, planing, etc.

Technical Specifications

Max. input speed:	12,000 rpm
Max. output speed:	8,100 rpm
Gear ratio:	1 : 0.676
Max. torque:	22 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	90°
Number of tool outputs:	2 / fixed
Lubrication:	Oil / Oil bath lubrication Detailed information on page 14



Tool connection
• ATlock
• ER 32
• ER 25
• Modular interface
• S1 saw blade flange
• S2 saw blade flange
• Other connections on request
Overview of most commonly used connections: Page 20.



Machine connection:
ATEMAG aggregates are used on all CNC machines and robot systems. The machine connection is precisely matched to the technical requirements of the CNC machine or robot.
On page 5 under "Torque arm," you will find a selection of companies for whose machines we supply connections.



Request quote:



FLUSH TRIM ROUTING AGGREGATE

Aggregate for routing of glued-on edge banding flush with board with probing function

Board machining: After the edge banding has been glued on, the aggregate routes the protruding part of the edge banding using the integrated probing function so that the banding is flush with the board top and bottom surfaces.
Compressed air is required on the machine side for the functions of the unit.

Technical Specifications

Max. input speed:	10,000 rpm
Max. output speed:	10,000 rpm
Gear ratio:	1 : 1
Max. torque:	6 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	4 x 90°
Machining angle:	90°
Number of tool outputs:	2 / fixed
Lubrication:	Grease / Lifetime lubrication



CHISEL MORTISER AGGREGATE

Drilling of square holes through simultaneous drilling and mortising

- Production of square recesses in stair stringers for connecting and positioning treads in stringers
- Notching of internal corners

Technical Specifications

Max. input speed:	3,000 rpm
Max. output speed:	3,000 rpm
Gear ratio:	1 : 1
Max. torque:	20 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	3 x 120°
Machining angle:	horizontal or vertical
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication



CHAINSAW AGGREGATE

Chainsaw aggregate for joinery work on CNC machines

Slotting of glued laminated timber structural elements in wood construction
Sawing of cutouts, e.g., windows, doors
The chainsaw unit is sized according to the individual machining task.
Horizontal and vertical machining directions are possible.

Technical Specifications

Max. input speed:	depending on the pinion
Max. output speed:	depending on the pinion
Gear ratio:	horizontal 1 : 1 (vertical: individual)
Max. torque:	1.5 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	horizontal or vertical
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication
Lubrication of chain:	Oil



FICHE HINGE AGGREGATE

Aggregate for mortising of slots for fiche hinges

The fiche hinge aggregate is typically used in restoration projects for window installation. Depending on the application, it is oriented vertically or horizontally.
In furniture making, especially in the production of overlay doors, the slots for the frame/body and door leaves of mortise hinges can also be made in an industrial process.

Technical Specifications

Max. input speed:	4,000 rpm
Max. output speed:	4,000 rpm
Gear ratio:	horizontal: 1 : 1 / vertical: individual
Blade sizes:	Variable
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	horizontal: 6 x 60° / vertical: 360°
Machining angle:	horizontal or vertical
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication





FUNCTION LINE

SPEEDER

SPEEDER FUNCTION LINE

High-speed aggregate for small tool diameters

The high-speed aggregate with integrated gearbox allows very high speeds to be reached and is used, for example, for engraving wood or plastics or for processing delicate materials such as leather (tear-free cut). The maximum machine rotational speed is increased by the gearbox.

Technical Specifications

Max. input speed:	8,000 rpm
Max. output speed:	31,360 rpm
Gear ratio:	1 : 3.92
Max. torque:	2.7 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	360°
Machining angle:	0°
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication



FUNCTION LINE

SCORING & DRAG KNIFE AGGREGATE

SCORING & DRAG KNIFE AGGREGATE

Trapezoidal blade for cutting of thin soft-core materials

Cutting and scoring of fabrics, leather, and other thin, soft materials

Technical Specifications

Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	4 x 90°
Machining angle:	Vertical Blade angle can be adjusted
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication



Angle adjustable in 0°, 15°, 30° and 45°

Angle fix 0°

BELT SANDING AGGREGATE

Efficient sanding of concave, convex, and flat edges.

Fully automated grinding of edges on CNC machines

Technical Specifications

Max. input speed:	7,560 rpm
Max. output speed:	1,890 rpm
Gear ratio:	4:1
Max. torque:	1 Nm
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	4 x 90°
Machining angle:	Vertical
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication



FUNCTION LINE

BELT SANDING AGGREGATE

ROTARY CUTTER AGGREGATE

Aggregate with rotary blade for cutting a variety of different materials

The rotary cutter aggregate is used, for example, in the packaging industry for cutting and indenting cardboard boxes. It is also ideal for cutting fabrics and leather.

Technical Specifications

Blade sizes:	Rotary blade
Permissible operating temperature:	max. 85°C
Positioning of torque arm with respect to tool:	4 x 90°
Machining angle:	Vertical
Number of tool outputs:	1 / fixed
Lubrication:	Grease / Lifetime lubrication



FUNCTION LINE

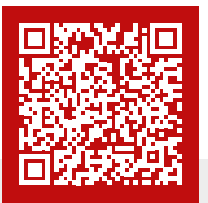
ROTARY CUTTER AGGREGATE



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where needs find solutions

ATEMAG
Aggregatetechnologie und
Manufaktur AG
Mühlenmatten 2
77716 Hofstetten / Germany
Tel.: +49 7832 9997-0
info@atemag.de
www.atemag.de