

THE FLEXIBLE ORIGINAL

# MAG-EUBAMA S-6

The rotary transfer machine für small-, medium- and large-scale batch production and start-to-finish machining in a single clamping step.



**MAG-EUBAMA**

A MAG INSTRUMENT COMPANY.





# **GAINING AN ADVANTAGE ONE CYCLE AT A TIME**

MAG-EUBAMA GmbH & Co. KG is the inventor, optimizer and visionary of the rotary transfer method for the world of machining – a true pioneer in the field of mechanical engineering.

As a southern German „Mittelstand“-enterprises and key supplier of the globally known flashlight manufacturer MAG INSTRUMENT, we and our long-term staff believe in engineering spirit, future-proofing and customer satisfaction: Each individual does his or her bit to ensure that our modular rotary transfer machines have no rival when it comes to machining options, cost-effectiveness and reliability.

We don't just build machines – we supply systems. That's because we tailor all of our manufacturing solutions to your specific requirements. Gain your crucial competitive edge now with the lowest workpiece manufacturing costs and maximum-precision machining – second for second, workpiece for workpiece, order for order.

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## THE RIGHT SOLUTION FOR EVERY MACHINING OPERATION

Thanks to its start-to-finish machining in a single clamping step, the particularly flexible MAG-EUBAMA S-6 rotary transfer machine is incredibly cost-effective. As each company has its own production specifications, the S-6 machine concept offers a wide variety of customization options:

**When it comes to small and medium batch sizes, the S-6 can be retooled quickly for specific applications.**

**When used in large-scale batch production (up to several million workpieces), the S-6 stands out with its reliability and machining speed.**



#### **MANUFACTURING SOLUTIONS WITH BUILT-IN FUTURE-PROOFING.**

The rotary transfer method has been developed by Eugen Bader Maschinenfabrik (Eubama) in 1957 and has been enhancing it ever since. In doing so, it has been following a fundamental principle with one key objective: achieving efficiency and precision through the start-to-finish machining of workpieces in a single clamping step.

But MAG-EUBAMA offers you much more than an added technological value and decades of experience:

MAG-EUBAMA offers you security thanks to certified reliability. Our 3,500 production solutions employed every single day all over the world are proof of that.

MAG-EUBAMA offers you technological peace of mind for the future since our machine generations are designed modularly and can be retrofitted at any time.

MAG-EUBAMA offers you economical security thanks to us being part of MAG INSTRUMENT, the best-known and most successful flashlight company in the world.

#### **THAT MAKES A DIFFERENCE:**

- Simultaneous, second-by-second machining (for a very high workpiece output).
- Custom production solutions with an optimum price-performance ratio.
- Variably combinable machining units for more than 200 different machining options.
- Cost-effective manufacturing, multiple-part production and further processing of a diverse range of workpieces with complex shapes and machining operations.
- Machining of the outer contour by means of a contour turning unit before workpieces are clamped.

#### **A CLICK THAT'S WORTH IT**

You can find a list of the machining units as well as other information on our production solutions at [www.mag-eubama.de](http://www.mag-eubama.de)



BE

# INSPIRED

Thanks to their modular construction, rotary transfer machines from MAG-EUBAMA are highly flexible – this means that they can be tailored to suit your needs. This is just one of the reasons why you will find them all over the world in small enterprises, large corporations and a variety of industries. These include:

AUTOMOTIVE INDUSTRY

FASTENER INDUSTRY

CONNECTION TECHNOLOGY

LOCK INDUSTRY

DIY INDUSTRY

TOOL INDUSTRY

ELECTRICAL INDUSTRY

VALVE INDUSTRY





[WWW.MAG-EUBAMA.DE/WORKPIECE-GALLERY](http://WWW.MAG-EUBAMA.DE/WORKPIECE-GALLERY)





## METICULOUSLY THOUGHT OUT

# HIGH TECH

### FACTS

- Optimal for all production tasks up to 40 mm in diameter and 450 mm in length
- Modular, highly stable construction: standard machine base for a variety of manufacturing solutions
- Perfectly designed for a wide range of workpieces
- Start-to-finish machining in a single clamping step
- Ideal for smaller, frequently changing batches: the combination of precision, the power of the rotary transfer process and a CNC control

### HIGHLIGHTS

- User-friendly machine design to save time during setup and production
- Quick-change machining units
- Up to 15 horizontal plus 5 radial machining units for complete 3-side machining in a single clamping step
- 2-jaw chuck, collet, bridge-slide system
- 8 clamping stations with centrally clamping 2-jaw chucks
- Short cycle times (the longest machining time equals the total machining time)
- Movable unit carrier (right) for different workpiece lengths
- Quick-change tooling system
- Possible combination of different control types
- Recessing and contour turning during material feed

### MATERIAL FEED

- Automatic material feed via
  - Coil
  - Bar loader
  - Single part feed
- Flexible and fast: Changing from bar loader to coil and vice versa takes only 20 minutes

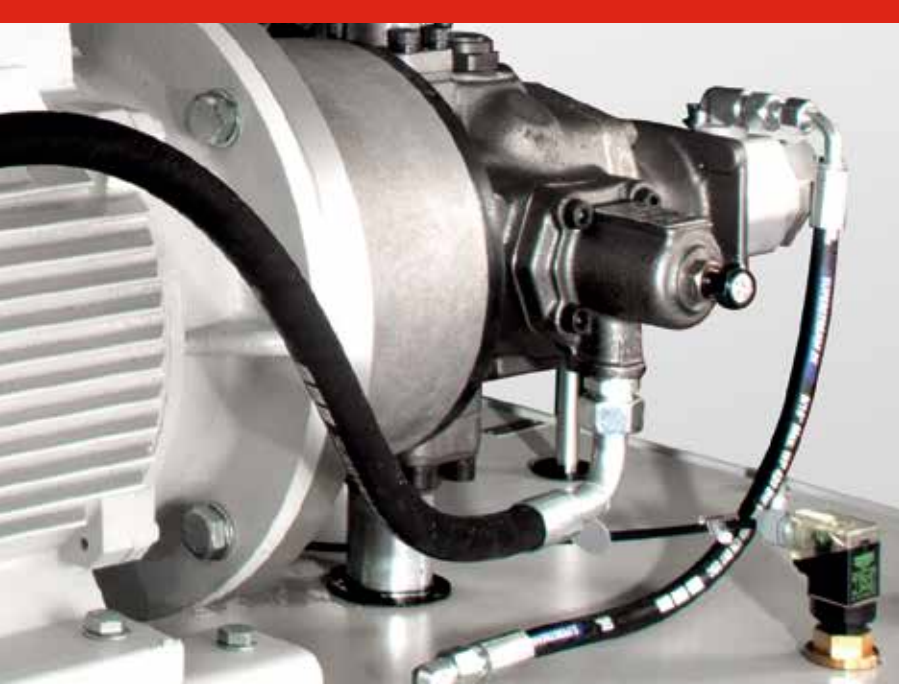
### OPERATION

- Excellent accessibility to all setup and retooling devices
- Complete change of prepared clamping jaws on clamping plate and easy precision fixing of clamping jaws
- All preparatory work ahead of retooling can be done outside the machine
- Well-defined separation of the working area from the rest of the machine to provide a clear overview
- Free access for precise, time-saving setup
- Machining units can be changed safely and quickly

### TECHNOLOGY

Number of clamping stations:	8
Number of machining units (horizontal/radial):	15/5
Max. clamping diameter:	40 mm
Max. workpiece length:	450 mm
Max. output (cycles/min.):	40 (80 in double production)
Stroke:	up to 130 mm
Feed control:	hydraulic/ball screw
Machine control:	CNC Siemens 840 D
Min. clamping plate indexing time:	0,3 s (0,7 s including non-machining time)
Optional remote maintenance	✓
Hydraulic clamping system	✓
2-jaw chuck	✓
Collet	✓
Bridge-slide system	✓





### CONTROLS

- Hydraulic control for medium- to large-scale batch production
  - Short retooling times thanks to continuous adjustment of feed and rapid feed speeds by means of hydraulic valves
  - Adjustment of feed and rapid feed paths via easily accessible micrometer screws
- CNC control for small and medium batches, as well as for workpiece families
  - High flexibility and short retooling times thanks to continuous adjustment of feed and rapid feed speeds
- Combined control types
  - For special machining requirements, e.g. workpiece families

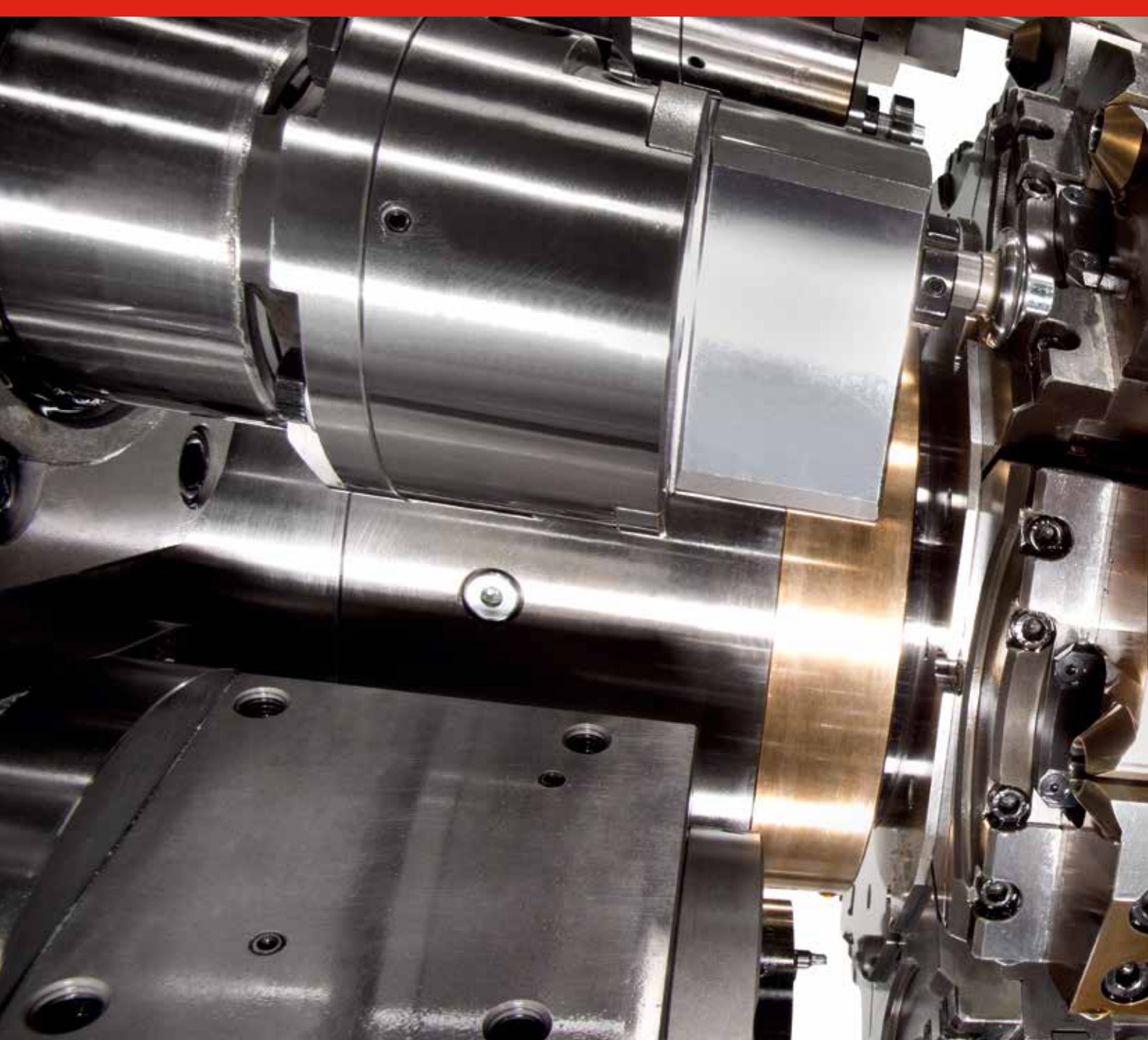


### OUR SERVICE DEPARTMENT MATCHES THE QUALITY OF OUR MACHINES

Our quality products have an average life cycle of more than 30 years, and customers have seen them work without fault for decades while running as efficiently now as on the day they were delivered. Our service department sets the bar equally high with regard to quality and finds quick solutions to any issue, whether it is about spare parts, a remote diagnosis, maintenance/revision or supporting rings.

#### DO YOU HAVE QUESTIONS?

We're happy to answer them: [info@mag-eubama.de](mailto:info@mag-eubama.de) | Tel.: +49 741 267 0  
Additional information at [www.mag-eubama.de](http://www.mag-eubama.de)

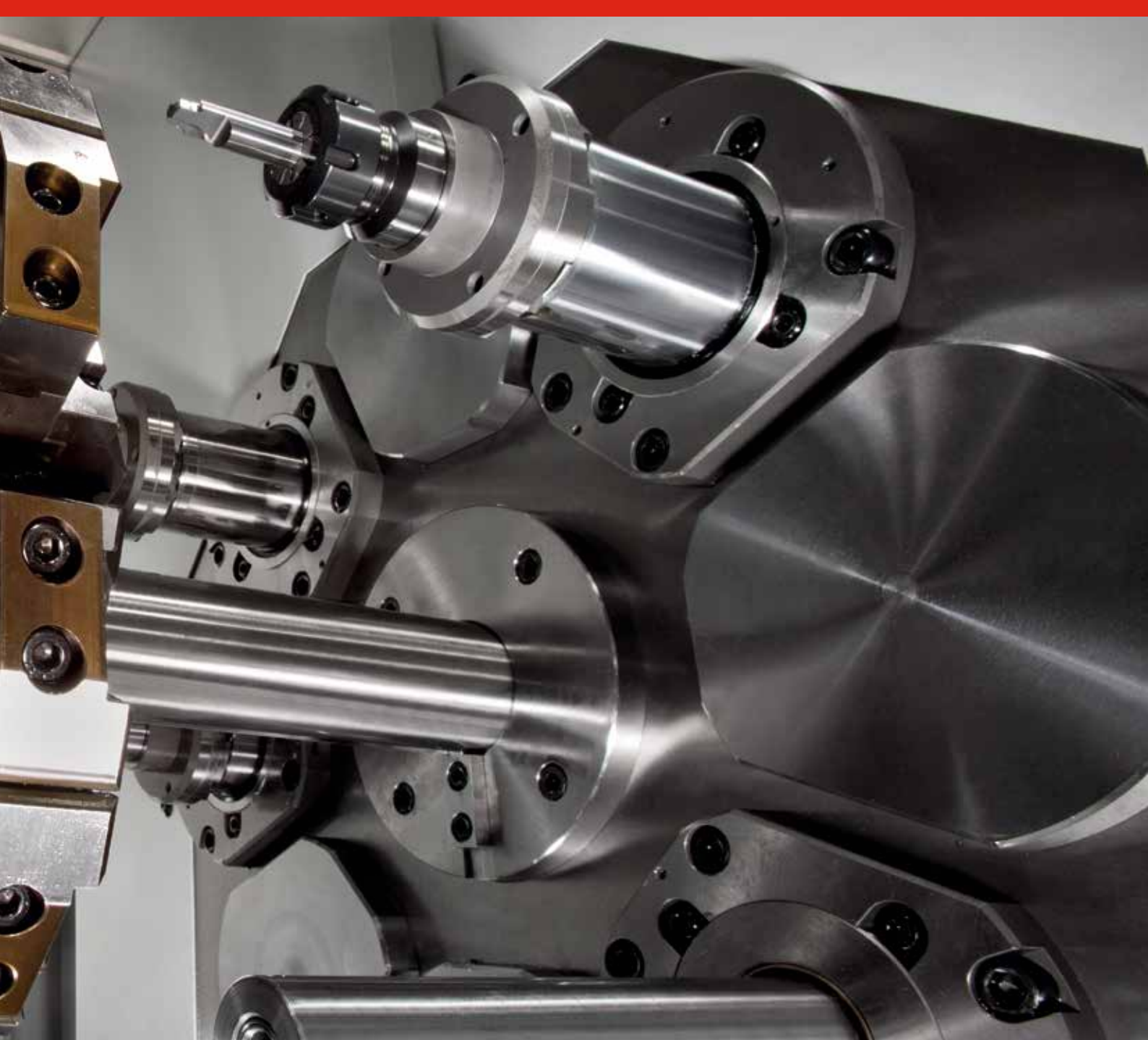


## CONSTANT **EVOLUTION**

Our customers are the ones who benefit most from our manufacturing solutions, which have been perfected thanks to constant refining and enhancement. As a result, they can reap the rewards of minimum unit costs and high-precision, start-to-finish machining of the widest range of workpieces and this is exactly what spurs MAG-EUBAMA to always keep going. Companies from various industries, both large and small, know that they can always rely on rotary transfer machines from the original in Rottweil.

**WHY WE, AS THE ORIGINAL, DON'T MAKE IT A PRIORITY TO TALK ABOUT "PRECISION".**

Because it is a fundamental prerequisite for our machines, and a given for both our customers and us.



**WHY WE, AS THE ORIGINAL, TALK ABOUT OTHER THINGS BESIDES “INNOVATION”.**

Because it goes without saying that an inventor knows his or her invention best – and it comes most naturally to him or her to constantly improve on it.

**WHY WE, AS THE ORIGINAL, DON'T TALK ABOUT OUR “TAILORED” PRODUCTS AND SERVICES IN CONCRETE TERMS.**

Because we know the technology inside out, have virtually no staff turnover and largely supply long-term customers – delivering custom products and services is simply par for the course.

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**THE ORIGINAL.**

**MAG-EUBAMA GmbH & Co. KG**

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