



MAE Maschinen- und Apparatebau
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Straight Performance

MAE.

MAE – Your specialist partner for component
straightening, pressing and joining.



expertise

MAE is your specialist partner for component straightening, pressing and joining, offering expertise and a wide range of services. Founded in 1931, MAE has grown to become a flexible and dynamic company, whose standard products and customized solutions are used all over the world. Over 40 utility models and patents show how MAE systems make our customers successful, in particular the countless uses in automotive engineering, rail technology, steel, energy, tools and standard components, textiles, and electrical machines.



intelligence

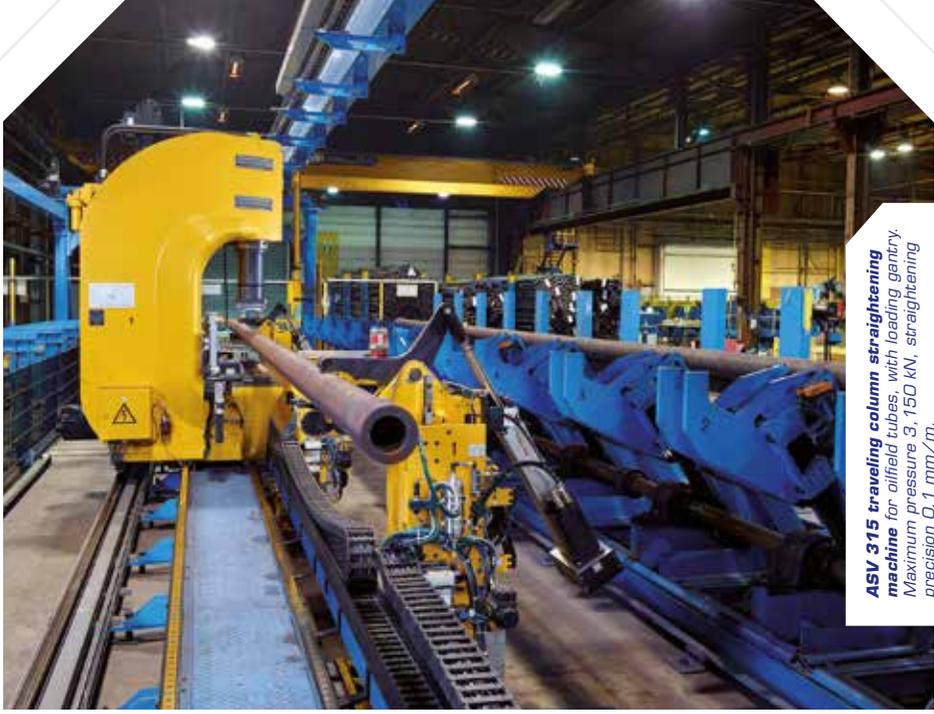
Straightening and joining are processes that call for power and precision. Above all though, they require an intelligent strategy to use this power correctly. Whether round, 3D-formed, profiled, cast, soft or with hardened surfaces, MAE straightening presses can process a huge range of workpieces. MAE wheel set presses stand out thanks to their high-performance controls, which ensure maximum precision in the joining process and comprehensive process documentation. Whatever you need from your processing procedures, MAE always has the right solution to keep your production processes running smoothly and efficiently.





MAH 16 straightening system for splines.

Straightening precision up to 0.02 mm on all teeth, active gear measurement in the pitch circle.



ASV 315 traveling column straightening machine for oilfield tubes, with loading gantry.
Maximum pressure 3,150 kN, straightening precision 0,1 mm/m.



M-AH 40 straightening system for gear shafts. Max. straightening power 400 kN, precision up to 0,01 mm run-out.



M-AH 16 straightening system with chain conveyors, Duorec walking beam conveyor and cleaning station for workpiece centering.

versatility

Even MAE's standard range of products offers outstanding solutions for your needs, tailored precisely to your workpieces and processes. See for yourself what our wide range of standard products can do for you:

Manual straightening presses

Automatic straightening presses

Wheel set presses

Gear measurement

Hydraulic presses



Automatic straightening machine M-AM for work pieces with complex geometry, modular design incl. various conveying systems.



RADs 250 wheel set press with LARIS automatic wheel feed system.

variety

MAE offers the largest range of manually and automatically controlled straightening machines in the world. They allow you to straighten round, profiled and 3D-formed components weighing from 5 g to 40 t. With pressing forces of 0.1 kN to 40,000 kN, you can process workpieces measuring 40 mm to 30 m in length.

Assemble drive shafts, rotor parts and wheel sets with forces of up to 8,000 kN with hydraulic or mechanical servo drive.



5 g to 40 t



15 to 40,000 kN



40 mm to 30 m



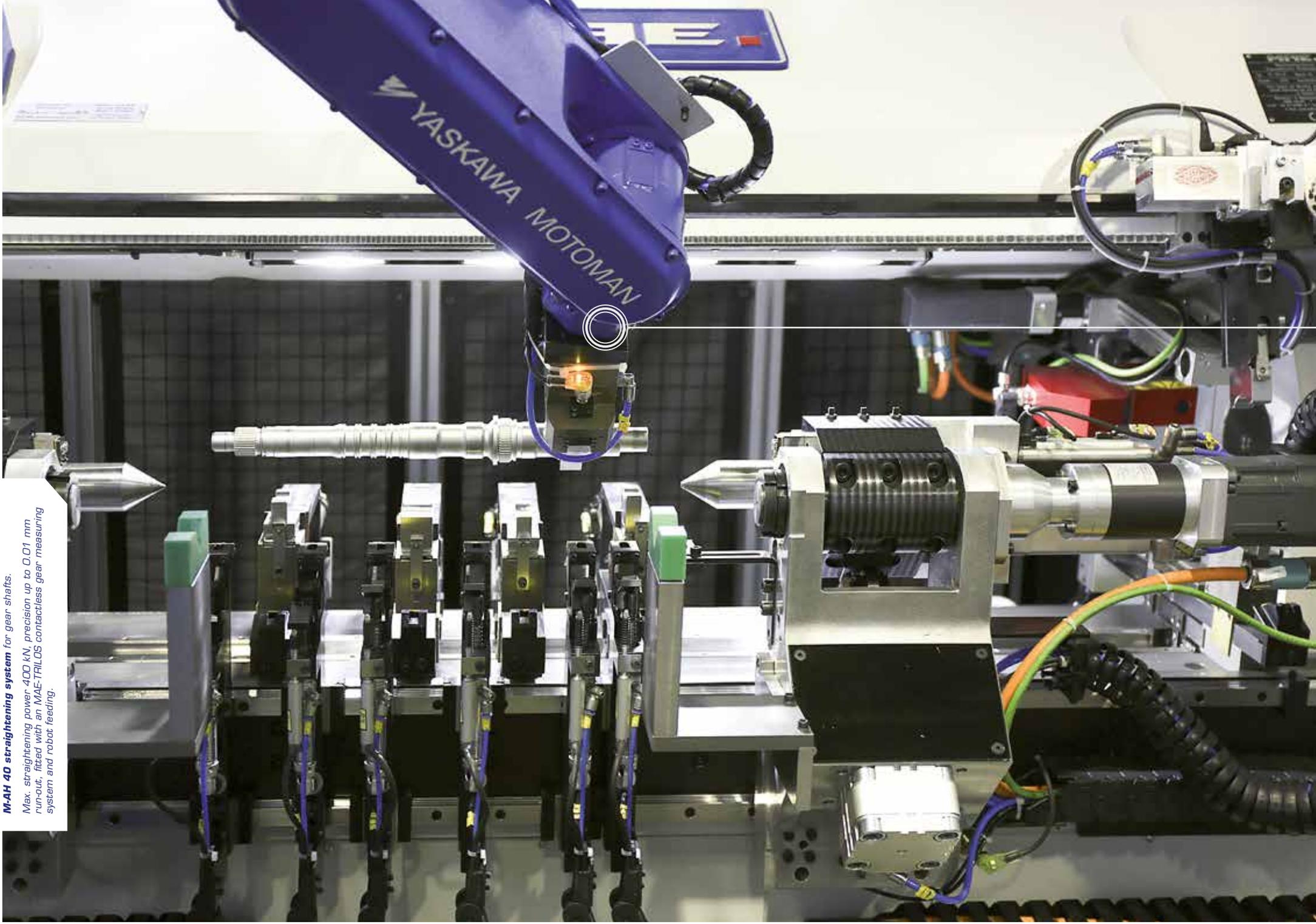


ADSV 4000 traveling column straightening machine:

The world's largest straightening machine, with a maximum power of 40,000 kW. Used to straighten steel rods measuring up to 700 mm in diameter, and piece weights of up to 40 metric tons.

M-AH 40 straightening system for gear shafts.

Max. straightening power 400 kN, precision up to 0.01 mm run-out, fitted with an MAE-TRIOS contactless gear measuring system and robot feeding.



precision

MAE machines allow you to achieve precisions of up to 0.01 mm in the straightening process. We work together with our customers to develop the right straightening strategy for their application. This strategy determines the result and efficiency of the process. Alongside conventional straightening processes, MAE also offers pressure straightening for hardened parts and torsion straightening for twisted profile bars. The precision control allows you to create a variable straightening strategy with universal tension curve. This means you can boost the performance and precision of your production procedures even more.

MAE measuring machines are extremely robust and fully integratable. They are always the best choice for precisely measuring run-out, diameter and straightness.

safety

At MAE, safety is always at the front of our minds for your products and processes. Regulations around the world are becoming stricter. To respond to this, MAE continuously develops its safety systems so that you can process large series and chains safely, reliably and efficiently.

For safety-relevant processes like wheel set pressing, you can put your trust in reliable technology from MAE.



Our experienced technicians can commission the machines in our factory or at your site right up until the process starts.



M-AH 16 straightening system for pinions.
Straightening precision of up to 0.02 mm, active gear measurement, including assessment of rolling faults.



Wheel set press with dynamic shaft run-out measurement system.

efficiency

Boost your efficiency with MAE: Our smart ideas make your straightening process faster and more powerful. A range of linkage systems allows you to process in an efficient, largely automated way, with fully automated permanent operation also possible. The machine's solid design, combined with our fast and reliable service, ensures high system availability.



Straightening position
for concrete drills with SDS - shaft.



Ball screw spindle on a roller support of an
automatic straightening machine type ASV with
measuring device on the bearing diameter.

We can also reconfigure your system, even after years of use. We can fit a new control system or drive technology to help you keep your machine fit for many more years to come.

From planning to final handover, we implement your requirements precisely to create a tailored solution.



reliability

As your technology partner, we are at your side right from the start of your project. Almost a quarter of our employees work in design and development for software or mechanical, hydraulic and electrical engineering. Thanks to efficient project management, each machine goes through a modern, quality-assured production process, from ordering to commissioning. A deep analysis of your individual application forms the basis of our expert consultation and reliable service – before, during and after commissioning.



availability

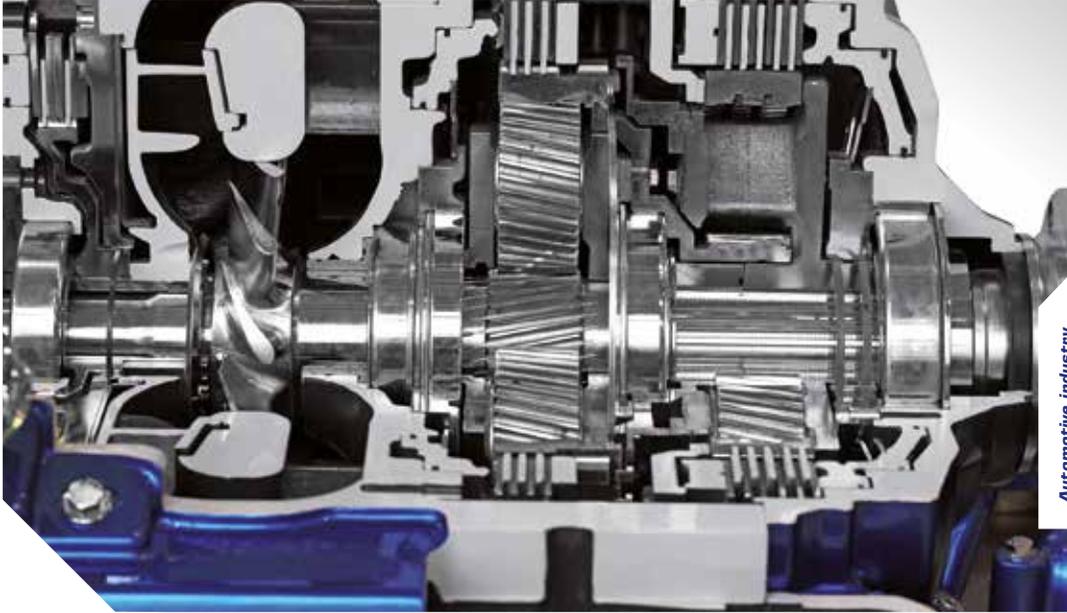
We are here for you whenever you need us, from the initial query to machine operation. Take advantage of our experienced technicians' expertise, or get spare parts off the shelf. Our services are available around the world via our three sites in Germany, the USA and China. We can also provide telephone support and remote diagnosis for minor faults quickly and easily. We are happy to answer all questions personally.



Rail industry



Steel industry



Automotive industry



Semi-finished products

MAE.

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Our brands: **MAE. EITEL.**