



The partners **BAHMÜLLER**, **TSCHUDIN** and **DEGEN** cover the complete cylindrical grinding and honing needs in high precision machinery ...

- Fuel injection systems (diesel and gasoline)
- Valve train
- Turbocharger
- Electric power steering
- Transmission
- Hydraulics

BAHMÜLLER sales and service subsidiaries in USA, China, India, Romania, UK, Italy and Turkey guarantee ...

- Integrated in-line configuration of grinding and honing
- Lowest cost-per-piece value chain design
- Qualified technical consultation
- On-the-spot support
- Quick worldwide response
- Express parts service
- Tele-, and on-line support with expert-know-how

BAHMÜLLER offers workpiece-optimized process-flow as well as investment-optimized high-productivity concepts to TIER-I clients.

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T'SCHUDIN®



T'SCHUDIN®

The Grinding and Honing Summit

A new partnership offers a full range one-stop-shop for all Cylindrical Grinding and Honing Technologies



Integrated In-Line Configuration of Grinding and Honing

Lowest Cost-per-Piece Value Chain Design between Centerless, ID/OD Grinding and Honing



BAHMÜLLER is developing retrofit-friendly, integrated compact grinding machines with highly dynamic automation options as turnkey solutions for high-volume serial manufacturing of small, high-precision components. At the same time unit cost efficiency and production stability are primary targets.

We achieve this with the lowest cycle times and superior machine availability, maximizing machining and process combination possibilities as well as the realization of multi-station solutions.

Modular, newly developed systems of the super-precise ULTRA-series with linear motor drive technology eliminate the division of internal and external processing. ULTRAs enable freely place-able combinations at first setup with variable layout of all axes.

This means maximum adaptability to new production requirements, defined variable creation, or complementary operations at minimum setup times.

The ULTRAeco-series benefits from a smart special axes concept.

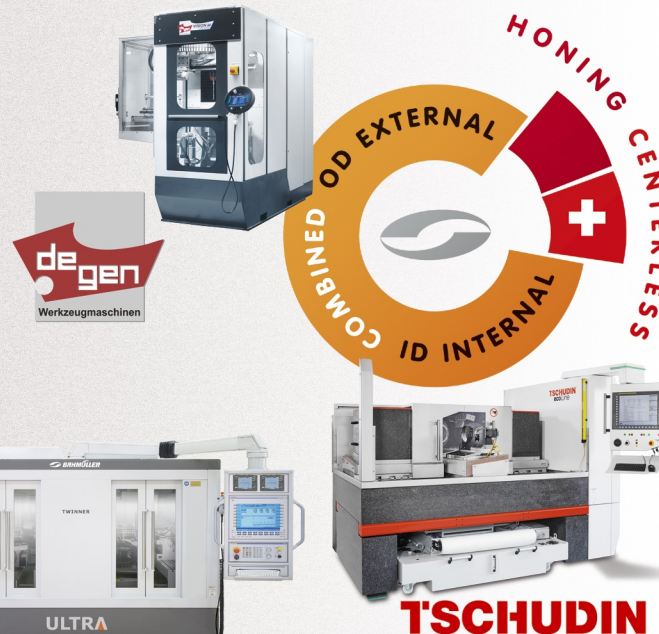
As is characteristic of all BAHMÜLLER products, the FLEX series has all expansion options, between internal grinding, combined grinding and external grinding. The use of a robot within the machine room is particularly innovative and beneficial. Consistent alignment to standardized axle arrangement relationships and selective tool arrangements result in cost-efficient and retrofit-flexible solutions for a variety of applications.

BAHMÜLLER machines are the preferred choice in the automotive industry sectors for fuel injection systems, turbocharging and electric power steering, when it comes to fulfilling future requirements for ever decreasing emission limits.

As worldwide technology leader we are proud of our contribution to environmental mobility.



- + **The TSCHUDIN centerless OD grinding and the DEGEN honing machines complete the BAHMÜLLER product range and a new one-stop principle extends the BAHMÜLLER supply**
- + **New synergies for developing the grinding process-flow from unmachined to finished parts will optimize part machining, exactly matching your needs: The road to highest precision and cost-effectiveness**
- + **Your benefits:**
A considerable increase in efficiency of the process chain for highest precision grinding
- + **BAHMÜLLER optimizes all interfaces:**
Skilled experts coordinate your project from first planning to parts manufacturing
- + **One-face-to-the-customer service as well as on-the-spot support by BAHMÜLLER**



TSCHUDIN®

TSCHUDIN – The Swiss centerless OD grinding experts

The TSCHUDIN ecoLine grinding machines make it possible to work on the technological limit – and this with the highest reliability and well proven operating simplicity.

The result of this interaction of men and technology are grinding parts that satisfy in precision well into the μ -range.

As a long standing and renowned player in the market of precision grinding TSCHUDIN knows how to excel continuously in the advanced level: knowledge of the market, technological know-how, courage to creative solutions, flexibility, persistence and last but not least the close collaboration with customers.



DEGEN – The only high speed honing machine and honing-tool expert

The DEGEN Vision Ultimate SL High Speed Honing Machine is the most flexible honing solution for single piece up to mass production.

The benefit for the end-user is the combination of highest quality and cost-efficiency.

The history of DEGEN as a high precision machine tool manufacturer goes back more than 50 years.

For almost 10 years now they have established the high speed honing technology as a patented solution for customers worldwide.