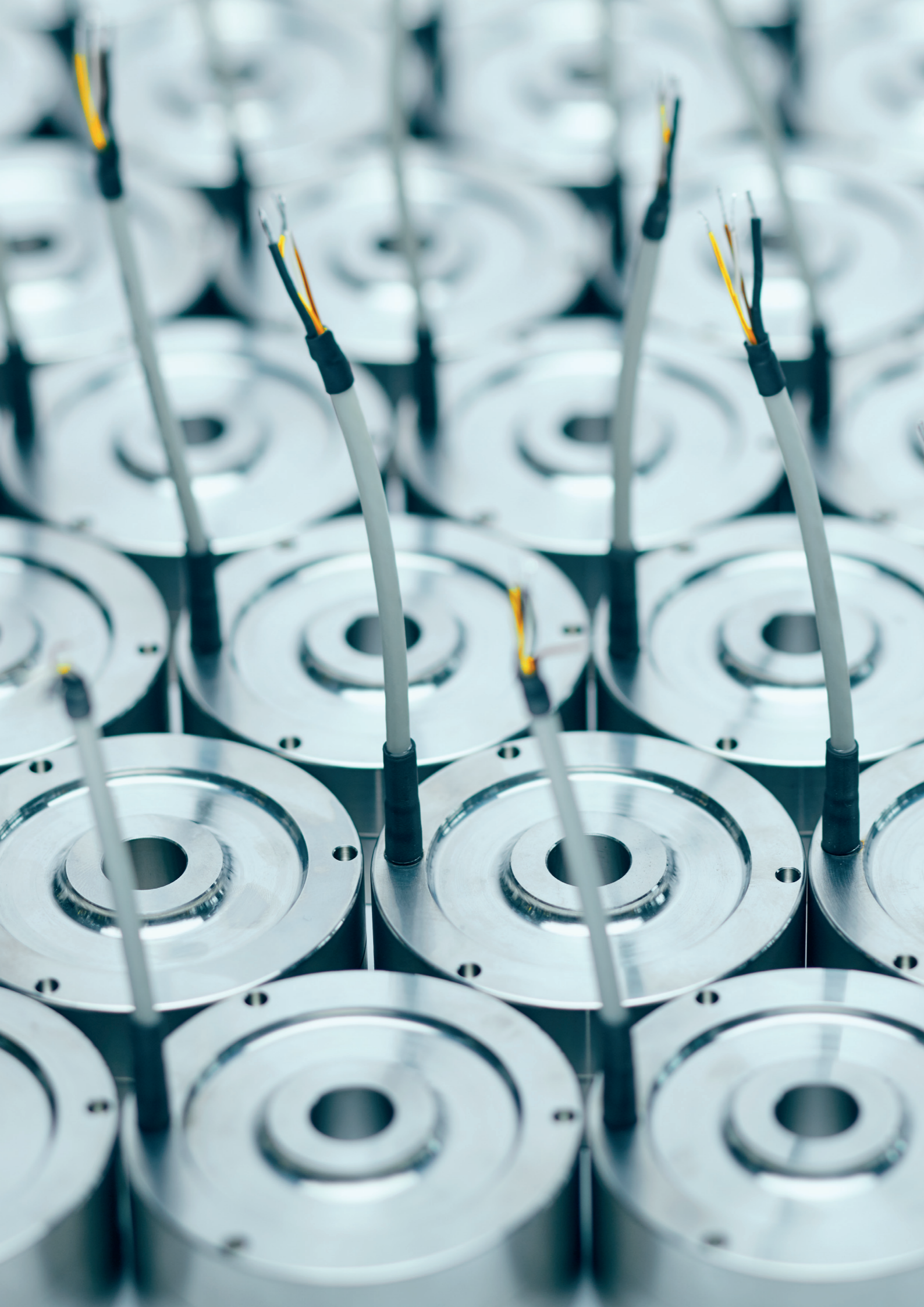




That's how forces are measured!

Highest quality - Made in Germany



Quality sets standards

The **A.S.T. – Angewandte System Technik GmbH, Mess- und Regeltechnik** in Dresden is a leading company in force measurement and sensor business. Our mainfields are the development, production and distribution of Force sensors, load cells and system technology. The location is supplemented by the business and production areas of electronics and mechanics, which implement both internal orders and external customer orders - from development and design to a serial production.

To make things always better is our way of working. In addition we offer a functioning QS management and a Corporate philosophy in which every employee meets this requirement embodies. The A.S.T. is certified according to ISO 9001: 2008 and meets all the requirements of a modern QS system.



Mechanical production

From conventional to CNC - from sample to series.

The mechanical production of the A.S.T. specializes in machining with modern CNC turning and milling centers. In addition to prefabrication for force measuring and weighing technology, our production technologies and assembly services are in demand by numerous business partners throughout Europe.

Concept & construction

We take over the conception and design for new products, the production of samples and the On-time serial production as well as the assembly of complex mechanical assemblies.

CNC-Production

With our modern CNC turning and milling centers, combined with the technical know-how of our highly qualified and experienced specialists, we guarantee a high-quality and punctual production.

Quality & Shipment

At the end of each production we do a strict Quality assurance. Our high-end -measuring machines ensure top quality for final inspection. The shipment will be send to you or as required direct to your Enduser.



Modern machines as well as highly qualified employees guarantee the highest quality in our production



Accuracy is everything! Leave nothing to chance - strict quality controls are the basic for our high quality standards

Electronical production

Your reliable EMS service provider

The electronic production of the A.S.T. is your reliable EMS service provider for the production of RoHS-compliant assemblies. We take care of the conception and development of new products, the production of samples, as well as the on-time series production of electronic assemblies and the associated equipment assembly. In addition to the classic technologies of an EMS service provider, we also have quick access to in-house development and construction as well as mechanical production.

Electronical development

You need a new development or a redesign about your assembly? With the help of our experienced hardware and software developers as well as our engineers and design engineers with the complete process with your idea from a series production to a single source.

Material procurement and storage

Profit from our experience and the highest level of competence in material procurement - from electronic components through mechanical components to on-the-spot sales packaging. Our extensive wide stock guarantees high flexibility and short delivery times.

Surface Mount Technology (SMD) / Through-Hole Technology (THT)

With our SMD assembly lines with solder paste printer and reflow soldering system, we guarantee you an on time production. In addition, other technologies are available:

- Wave soldering system with exchangeable solder baths for Pb-containing and Pb-free solder
- Selective soldering system for combined or double-sided printed circuit boards
- THT manual loading stations and mini wall Soldering system, for example, for pre-production

Tests and functional test

Additional to the permanent visual inspection of the electronic assemblies by our qualified manufacturing personnel, we offer an automatic optical inspection (AOI) as standard performance.

Furthermore, wiring and functional tests of individual components or complete end modules as well as their documentation of results belong to the product portfolio.

Final assembly and shipping

At the end of each production we do the professional assembly as well as ESD-compliant labeling and packaging of end products. The shipment will be send to you or as required direct to your Enduser.

Test of Electromagnetic compatibility (EMC)

In our EMC laboratory, we offer you the measurement electromagnetic compatibility, among other industrial, scientific and medical devices according to DIN EN test standards. Furthermore we could provide you with preliminary measurements in our GTEM cell Preparation of certified exams and advise you on EMC measures.



Quality sets standards - assembled printed circuit boards during the final inspection

Contact the specialists from our mechanical department!

phone: +49 (0)351 44 55 426 | fax: +49 (0)351 44 55 433 | e-mail: mechanik@ast.de |
website: www.ast.de/mechanik

Contact the specialists from our electronic department!

phone: +49 (0)351 44 55 345 | fax: +49(0) 351 44 55 350 | e-mail: elektronik@ast.de |
website: www.ast.de/elektronik

Sensors

Accuracy is our strength

The A.S.T. develops, manufactures and produces as a traditional and innovative company for over 25 years in the field of force measurement and system technology. There we offer our well-known partners a wide range of force transducers, load cells, evaluation and OEM products.

From development to serial production

Our experience in the field of sensors and the entire production in-house - from development and design, from the production of prototypes to a serial production of standard products - makes us to a recognized partner of the industry. Construction & Development, a state-of-the-art CNC mechanics and electronics. Our strength is close integration, the production of Development and production of intelligent solutions.

Calibration Laboratory - Calibration give you security

In addition to the development and manufacture of sensors offers the A.S.T. the associated calibration services. Our Calibration laboratory is certified by DAkkS according to ISO 17025 for measuring force accredited. Not only our own products we calibrate, we also do calibration for other devices. For this service we use our force reference standard measuring device, it is available with compressive and tension forces from 0,1kN to 2000kN. Works calibrations are carried out according to Calibration process from 5N to 3000kN performed. DAkkS accredited calibrations are according to DIN EN ISO 376 of 1kN to 2000kN and to DAkkS-DKD R 3-3 from 500N to 2000kN possible..

Services

- DKD calibrations according to DAkkS-DKD R 3-3
- DKD calibrations according to DIN EN ISO 376
- Works calibrations
- 2-point-calibrations
- At-site calibrations of A.S.T systems from the railway business



We do DAkkS calibrations from 500N up to the high load range from 2MN..

Railway Systems

Complete Systems from one manufacturer

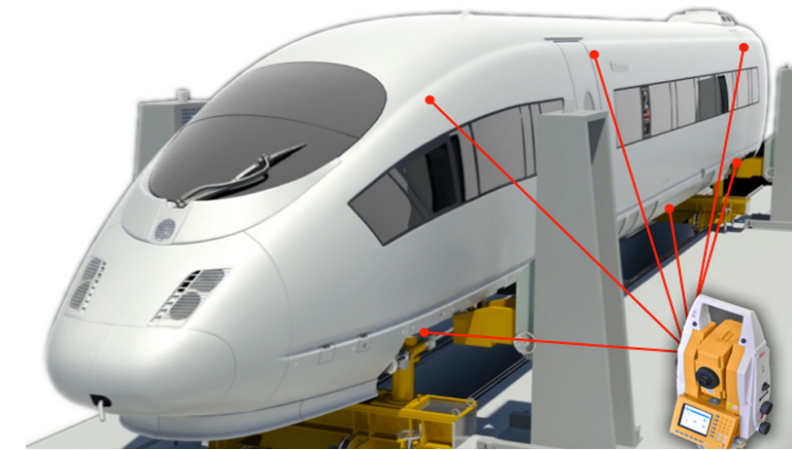
In addition to the production of sensors, the A.S.T. is a recognized and experienced producer of customer-specific systems and complete solutions of technical force tasks. The systems from our house are developed for the measurement of corner and wheel stand forces which are used worldwide in manufacturing of modern rail vehicles.

Four-Point Measuring Equipment (EKM)

The EKM - System is for the quality assurance of rolling stock, providing the torsion free (tension free) position of rail vehicles, combined with a geometrical measurement solution. A.S.T. provides the highest precision, which is required for manufacturers and during the refurbishment of railway vehicles.

Wheel Load Measuring System for Rail Vehicles (RAK)

The RAK- System is a highly accurate wheel load measuring system for rail passenger vehicles. The system is a highly flexible with the identification of the individual wheel or axle loads. By interconnection of a number of required weighing modules, you will get a test profile for all wheel loads of a bogie or vehicle.



The EKM-System to determine and adjust the rolling stock to torsion free position with integrated geometric measurement.



Production and maintenance of car bodies.

Contact the specialists from our Calibration Laboratory!

phone: +49 (0)351 44 55 491 | fax: +49 (0)351 44 55 540 | e-mail: sales@ast.de |
website: www.ast.de/sensorik

Contact the specialists from our Railway Systems!

phone: +49 (0)351 44 55 491 | fax: +49(0) 351 44 55 540 | e-mail: sales@ast.de |
website: www.ast.de/bahntechnik



A.S.T. - Angewandte System Technik GmbH, Mess- und Regeltechnik

post: **Marschnerstr. 26, 01307 Dresden, Germany** |

phone: **+49 (0)351 44 55 491** | fax: **+49 (0)351 44 55 540** | e-mail: **sales@ast.de** |

website: **www.ast.de**