



Dr. Brandt  
GmbH



Dr. Brandt GmbH

Measuring mechanical values electrically

A Company of Group 



# The Art of Measuring in the Metal Industry

## Force Measuring Systems

Dr. Brandt GmbH has always been a forerunner in the development of innovative force measuring systems. As the inventor of the load cell, we have been continuously pioneering this field ever since our company was founded. Based on the sensors developed by us, we offer numerous measuring systems.

We know: Our measurement technology forms the basis for safe and trouble-free process control. Consequently, we are fully aware of our professional responsibility in the development and production of precise measuring systems which convince by their long service life.

The portfolio of Dr. Brandt GmbH comprises numerous products with the focus laid on the accurate measurement of tensile force, compression force, shear force and torque in a wide variety of processes. For this purpose, innovative force and pressure sensors are used as transducers and load cells. Via real-time control, the data thus obtained are directly employed for process improvement. Our measuring systems can also be retrofitted in existing plants and equipment.

## Strip Tension Measuring Systems for Metal Production and Metal Working

Precision is a top priority in the production and processing of metals. Our measuring technology greatly contributes to making industrial processes future-proof in order to be able to manufacture products of the highest quality. For this purpose, we offer, among other things, strip tension measuring systems, rolling force measuring systems as well as weighing systems and pressure transducers.

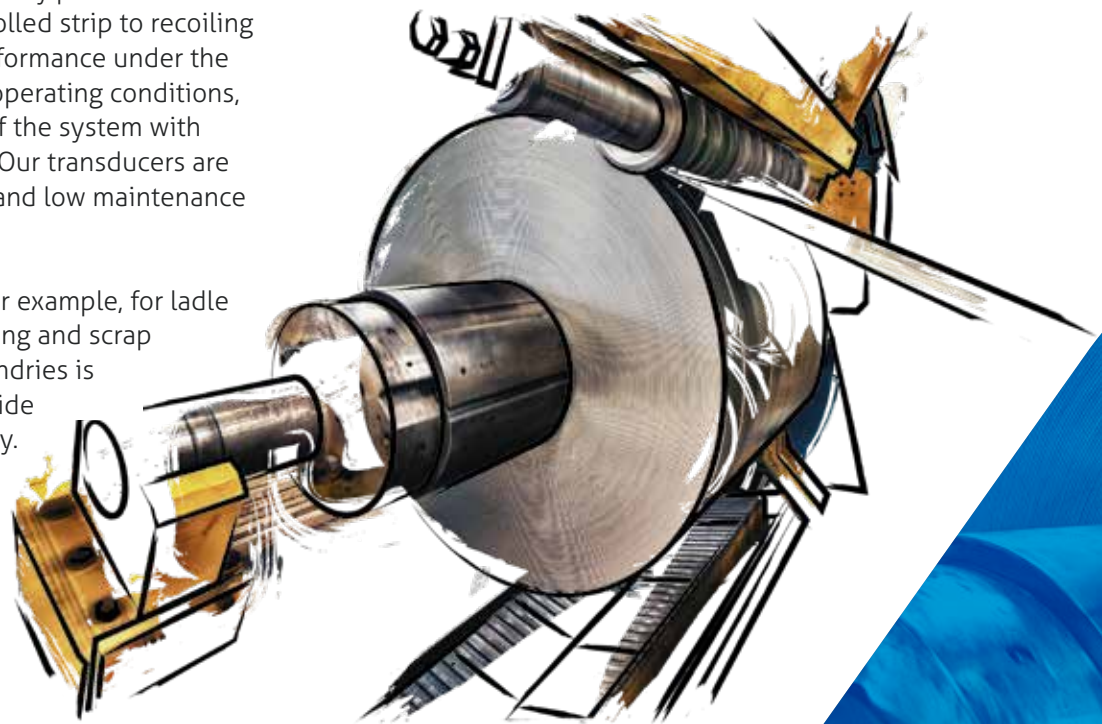
Dr. Brandt strip tension measuring transducers have been successfully used for decades in many plants in the metalworking industry, from hot-rolled strip to recoiling lines. They offer extraordinary performance under the most difficult environmental and operating conditions, thus ensuring reliable operation of the system with consistently high product quality. Our transducers are characterized by long service life and low maintenance expenditure and costs.

Our weighing systems are used, for example, for ladle turrets, billet weighing, coil weighing and scrap trolleys. The ladle weighing in foundries is also one of the processes we provide with reliable measuring technology.

Moreover, by manufacturing innovative measuring systems for industrial applications we have specialized in the development

and production of tailor-made solutions for complex plants and systems. These systems, which are individually adapted to the respective plant and its field of application, may not only be implemented in newly constructed processes but also lend themselves to replacing third-party products in existing plants.

In addition, our product range offers a large number of standardized components, such as standardized strip tension transducers or load cells capable of being attached to all common roller bearing variants via adapter plates.



## Calibration Services Offered by Dr. Brandt Provide Increased Safety and Efficiency

Even the slightest changes to a system require recalibration with a view to enabling the measuring sensors of your system to work perfectly.

With our mobile calibration tools, including reference force sensor, evaluation unit, and corresponding tensioning belts, we are able to carry out precise measurements for products of different manufacturers.

Regular checking, certification and, if necessary, adjustment of the current zero point and nominal force result in an optimal and smooth workflow to be obtained during operation, and ensure that your processes can be successfully audited.

## Crane Weighers

To enable weights to be measured or determined as accurately as possible by means of crane weighers, we equip these weighers with modern measuring systems. These include, inter alia, precisely adjusted load cells as well as inhouse developed electronic evaluation equipment, optionally with an interface to electronic data processing systems. It goes without saying that the crane weighers can be provided with digital display indicators.



## Wire Rope Testing Devices

The safety inspection of wire ropes on regular basis is essential. Whether track ropes and traction ropes of lifts and cableways, bridge catenary cables or haulage cables, e.g. in mining: Inspection and testing for possible damage or fractures and the reliable load bearing capability is crucial for the safe operation and use of all kinds of plant, machinery, and buildings. This also applies to high-duty wire ropes used as anchoring ropes for cranes or masts as well as on hangars, and for wire rope reinforced conveyor belts.



# Metrological special projects on request

The Dr. Brandt GmbH is available to its customers at any time for the implementation of metrological special projects. From the development of suitable elements for the permanent monitoring of a production process to the production of individually designed measuring systems for a particular system: Our special projects provide tailor-made solutions for every need and purpose.



# Dr. Brandt GmbH

Dr. Brandt GmbH has been an established manufacturer and technology leader in the field of high-precision measuring systems for many decades. Founded in 1949, we supply force and compression measurement technology which plays a vital role in the quality assurance and process control in industry. As a globally acting pioneer in our industrial field, we are constantly working on the enhancement of our products. The leading role of our medium-sized company in the market for measuring technology can be demonstrated, among other things, through inhouse developments such as the invention of the first commercially usable load cell.

Our focus is on the development and manufacture of customized measurement technology for individual fields of application. With the quality claim „Made in Germany“, Dr. Brandt GmbH combines devices and components that meet the highest requirements. These custom-designed and manufactured measuring systems can be implemented not only for planned new installations and plants. Our company is also a leading specialist furnishing and integrating spare parts for retrofitting existing plants.

Aside from their reliable, high-precision operation, products from Dr. Brandt are also known for their particularly long service life.

Our product range includes system solutions in the following areas:

- Strip tension for steel, aluminum, non-ferrous metal
- Web tension for sheet/paper
- Rolling force measurement
- Weighing technology
- Force and load measuring technology
- Non-destructive testing of steel ropes (round and flat), mining and load lifting technology
- Special solutions to suit customer requirements e.g. power plant engineering, wind turbines, dams, hydraulic lift locks, ships, salvage cranes or similar for high temperatures or aggressive ambient conditions
- ATEX certification for safety-critical applications
- Certified to ISO 9001

## Sales Partner

**Belgium, France  
and Luxembourg**  
Segrif S.A.  
[www.ingrif.com](http://www.ingrif.com)

**Germany**  
Dr. Brandt GmbH  
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