GMS-E

Profiler Cross Section

The GMS-E is developed for industrial suited applications and provides information of the cross-shape of tubes, profiles and pipes.

MSG MASCHINENBAU GMBH

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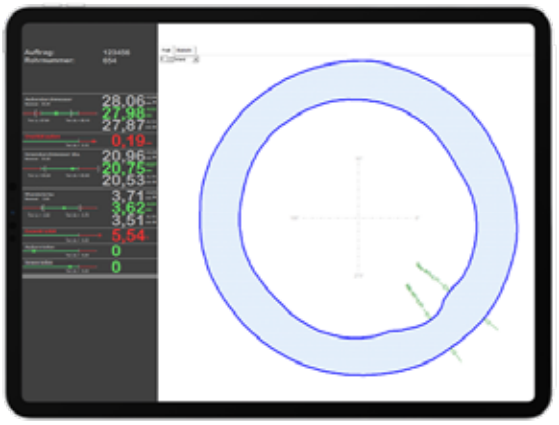
Measurably precise

The perfect result in one turn

In the early manufacturing process, drawn or sawn pipes in particular have deformations and burrs at their ends. Since the GMS-E measures the cross-section geometry far inside the pipe without ever establishing contact, unlike with conventional methods, such imperfections do not influence the measurement result. This way, the GMS-E can be used very early in the production process. The earlier the product quality is known, the less waste is produced!



01 Digital benefits of measured data

In addition to the digitisation of your product geometry, specific inspection characteristics can be extracted with the GMS-E software and passed on for further processing via various interfaces to both the process control and operations control levels.

02 Implementation for industrial applications

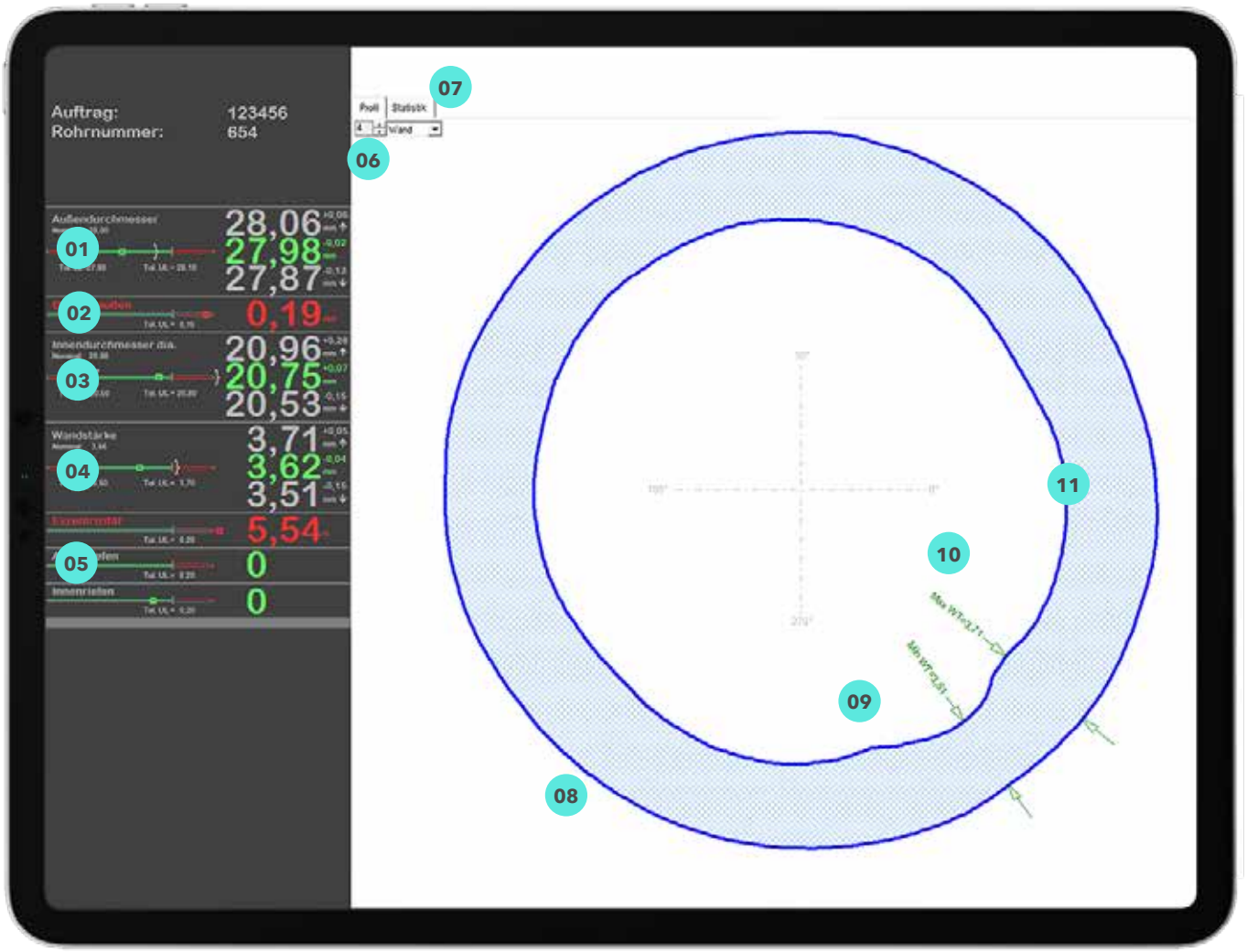
Thanks to our many years of know-how in mechanical engineering, especially for the semi-finished product industry, adverse environmental conditions are not an obstacle for us, but rather lessons learned that are taken into account in the GMS-E. Be it cross transport or axial feed – the GMS-E can be easily integrated at various points in your production line thanks to its intelligent design.

03 Mechanical adaptability

Our measuring systems are functionally standardised. This means that the measurement function is recurrently the same. The mechanical design, on the other hand, we adapt from project to project according to your circumstances. E.g. the rotation measuring head may be equipped with a second triangulation laser from a diameter larger than 200 mm.

Control and software

Digital overview



With the visualization of your digital data you always keep the overview and can use the information for further processing.

01 Outer diameter maximum, averaged, minimum

02 Ovality of the outer contour

03 Inner diameter maximum, averaged, minimum

04 Wall thickness maximum, averaged, minimum

05 Coaxiality / Eccentricity

06 2D view scaling option

The other points can be found on page 4.

Control and software

Digital overview

07 View Change from profile view to stastic view

08 Outer contour

09 Minimum wall thickness

10 Maximum wall thickness

11 Inner contour

Technical data

Everything at a glance

Application range

Digitization
Product certification
System control
Production optimisation in drawing machines
Production optimisation in welding lines
Machine Learning

Product areas

Automotive round pipe
Linepipe (LSAW, HSAW, Seamless)
Construction pipe
Profiled rod products
Miscellaneous

Materials

Steel
Brass
Aluminium
Titanium
a.o.

Integration possibilities

Longitudinal transport
Cross transport
Standalone

The other points can be found on page 5.

Technische Daten

Everything at a glance

Inspection criterions

- Outer diameter/radius
- Inner diameter/radius
- Circumference
- Ovality
- Local eccentricity
- Wall thickness
- Eccentricity
- Coaxiality
- Surface area
- Volume
- Weld seam height
- Weld seam width
- General weld seam shape

Interface

- Process: PLC
- Data: SQL

Measuring speed

Depending on configuration

Measuring accuracy

Depending on configuration

Machine dimensions

The standard system (max. Ø 60 mm) has approximate dimensions of 1000 mm height, 500 mm width and a depth of 500 mm.

Get in touch.

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