

Messung in Karuselldrehmaschinen

Measurement in large vertical turning machines

Messung von großen Außendurchmessern

How to determine large outer diameters in production

Kordt GmbH & Co. KG

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CEO/Managing Partner

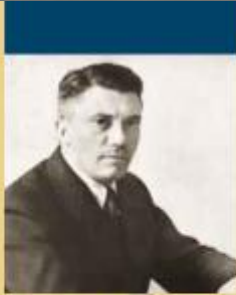
70 Jahre Messtechnik für die Fertigung

70 Years Metrology for the Production



KORDT

Lehren und Messzeuge
gauges and measuring
instruments



WILHELM KORDT

1947



KORDT

1965



KORDT

1984



KORDT

1992



2007

messnormteile.de

1947: Gegründet durch Wilhelm Kordt

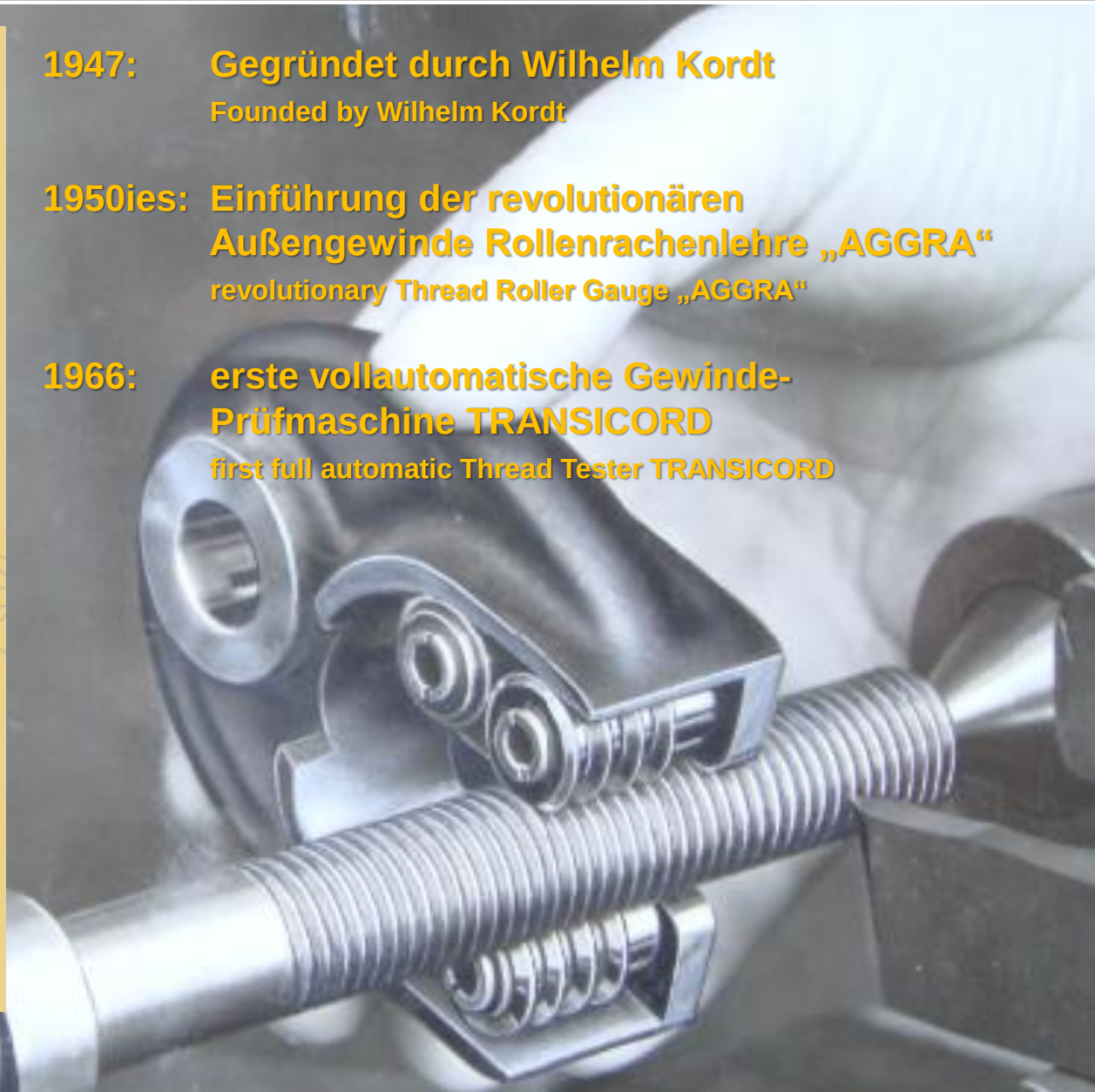
Founded by Wilhelm Kordt

**1950ies: Einführung der revolutionären
Außengewinde Rollenrachenlehre „AGGRA“**

revolutionary Thread Roller Gauge „AGGRA“

**1966: erste vollautomatische Gewinde-
Prüfmaschine TRANSICORD**

first full automatic Thread Tester TRANSICORD



Erfahrung mit Kohlefaser

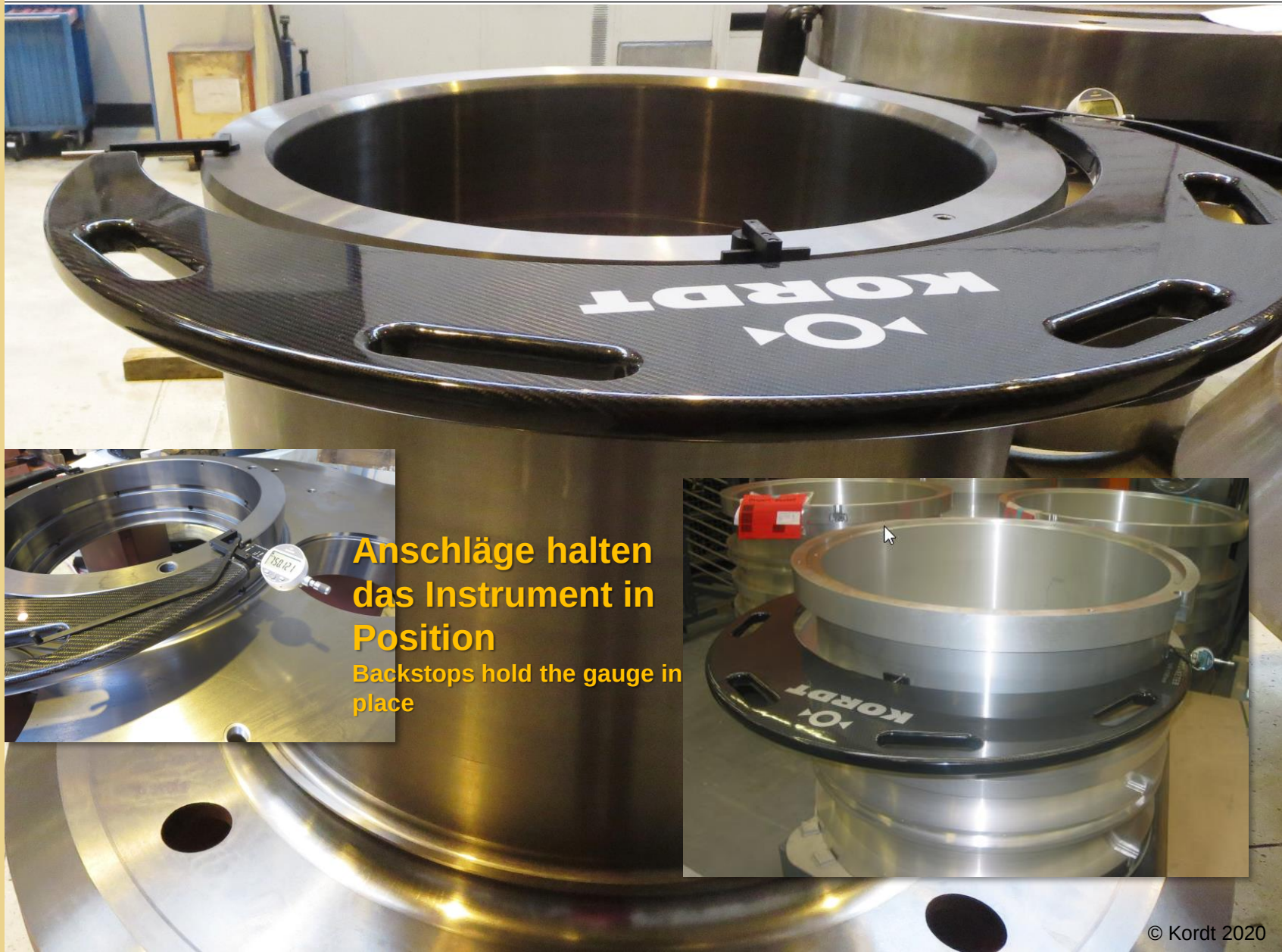
Experience in Carbon Fiber

- **Arbeiten seit 2000 mit dem Werkstoff Kohlefaser**
Working with Carbon Fiber Material for Measuring instruments since 2000
- **Mehr als 100 CORDAMETER aus CFK verkauft sei 2007**
More than 100 CORDMETER with CFK-Frame sold since 2007
- **Max. Durchmesser 1600 mm**
Max. Diameter 1600 mm
- **Aktuelles Projekt bis 1700 mm**
Present Project: 1700 mm
- **Anforderungen bis 2500 mm**
Demand up to 2500 mm



Große Durchmesser horizontal messen

Measuring large diameters horizontally



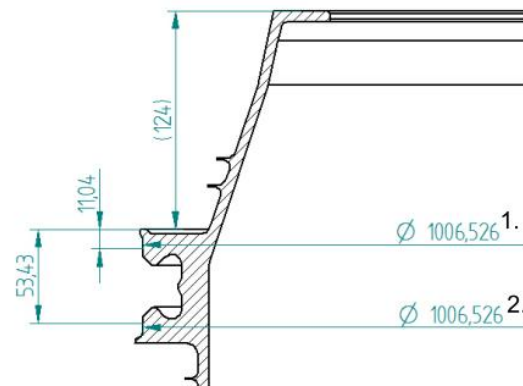
**Anschläge halten
das Instrument in
Position**

Backstops hold the gauge in
place

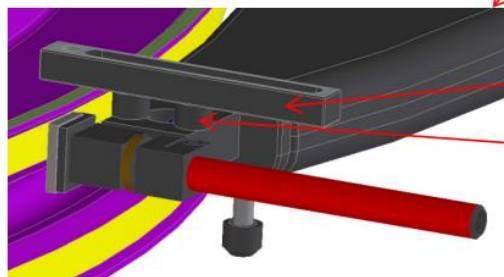


Flexible Anschläge sind anpassbar

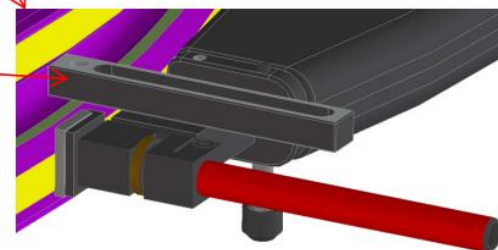
Flexible Backstops are adjustable



1. Messung an Ø1006,526



2. Messung an Ø1006,526



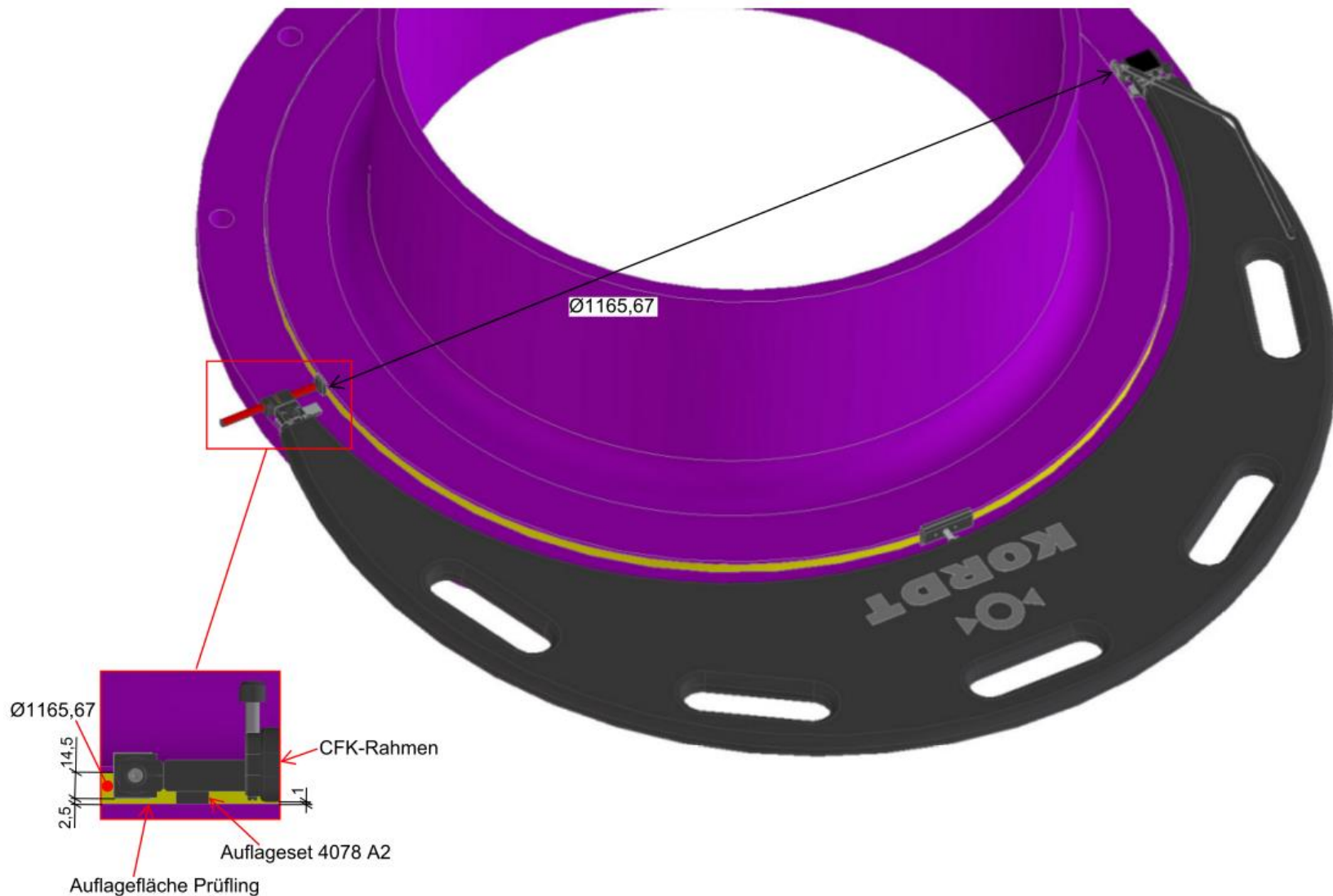
Schieber 4078 A1

Abstandsbuchse

- = Anlagedurchmesser am Prüfling
- = Auflagefläche am Prüfling

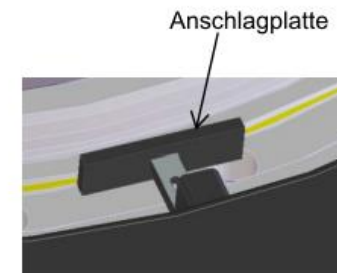
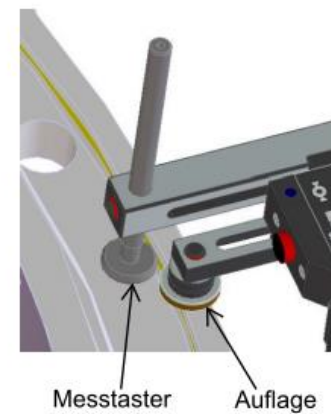
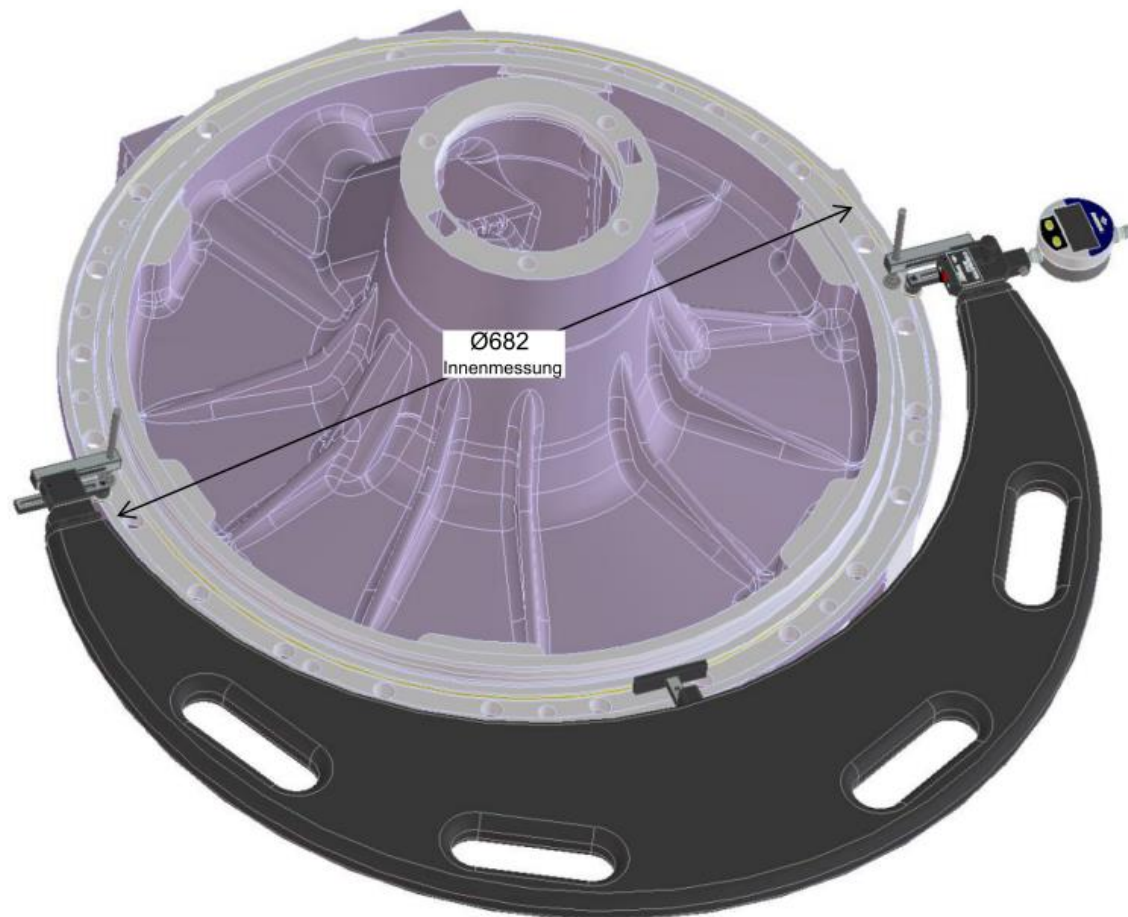
Bauteilbespezifische Anschläge

Tailor-Made Backstops



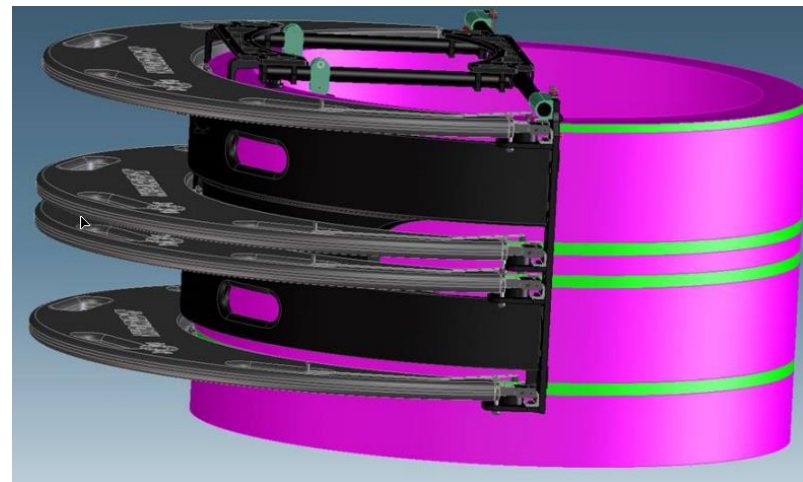
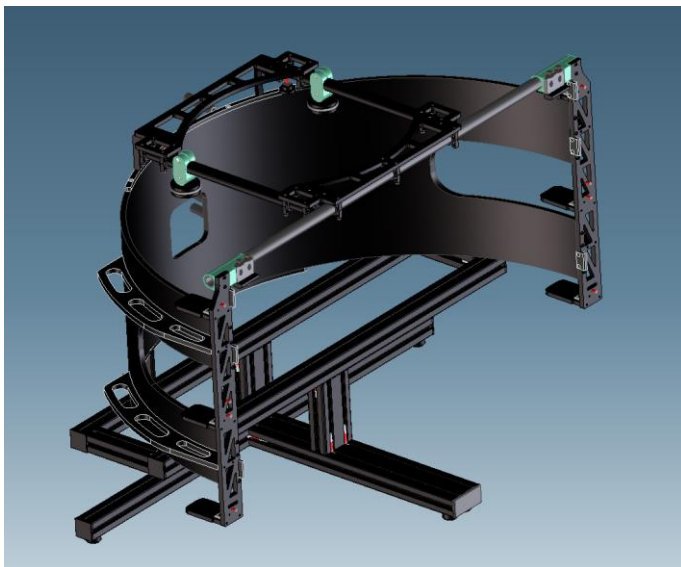
Messung InnenØ mit verbauter Mitte

Measurement internal diameter with obstructed center

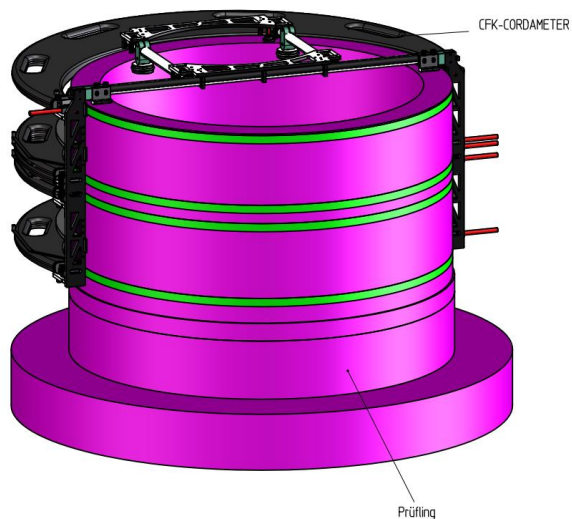


Messungen in verschiedenen Höhen

Measurement on different heights

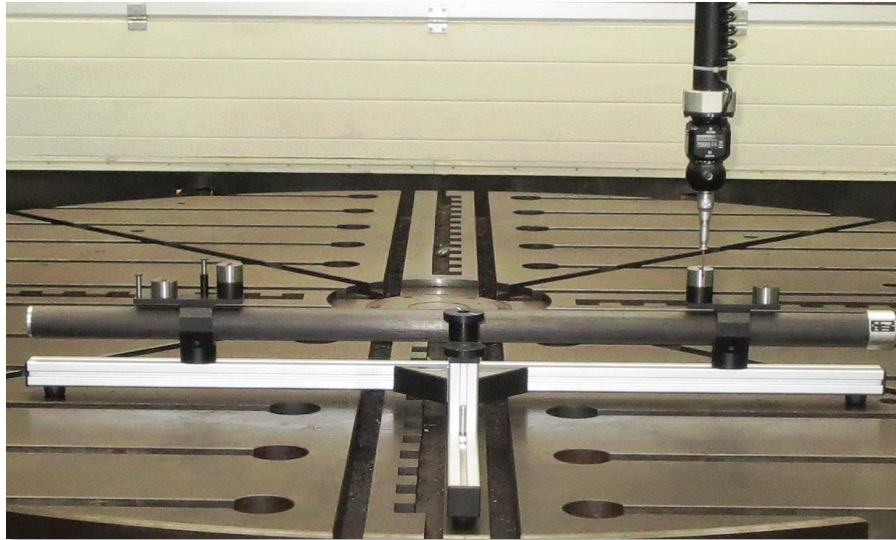


Video CORDAMETER mit Rack



Einstellen mit CORDAS_match

Setting with CORDAS_match

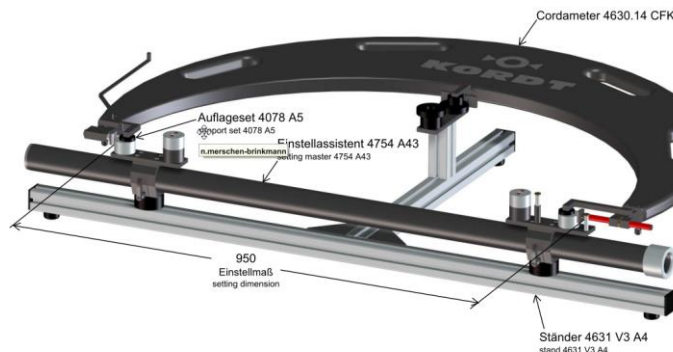


Mit einer Längenmessbank oder einer CMM wird der verstellbare Einstellassistent CORDAS_match auf das benötigte Maß gebracht.

With CMM or Length Measuring Bench you set the needed length on the adjustable setting assistant.

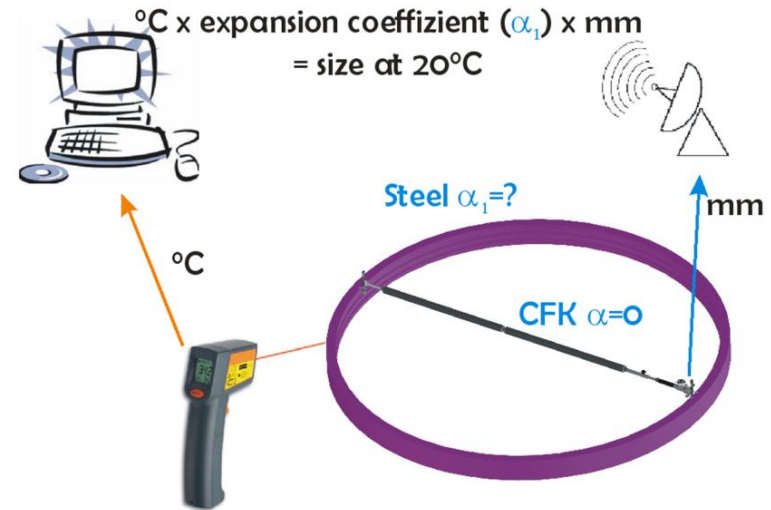
In der Produktion wird das CORDAMETER in Messposition eingestellt.

In production you set CORDAMETER in measuring position.



Temperaturkompensation

Temperature compensation



Da der Einstellassistent aus CFK ist und das Messgerät CORDAMETER ebenfalls, ist der Temperatureinfluss annähernd Null.

Entsprechend können Sie das gemessene Maß auf die Größe bei 20°C herunterrechnen, wenn Sie den Ausdehnungskoeffizienten des Werkstücks kennen.

As Setting Assistant CORDAS is build out of CFK and the measuring instrument CORDAMETER too the impact of temperature is approx. Zero. Hence you can determine dia by reading the temperature of the component and calculate down to 20°C .



Optionen zur Einstellung

Options for setting

Best:

CORDAMETER 4630 + CORDAS_fix 4754

CORDAS_fix is representing the calibrated size. This carbon fixer master is dedicated to one size only. With stand you execute the setting in measuring orientation and close to the job.

Flexible:

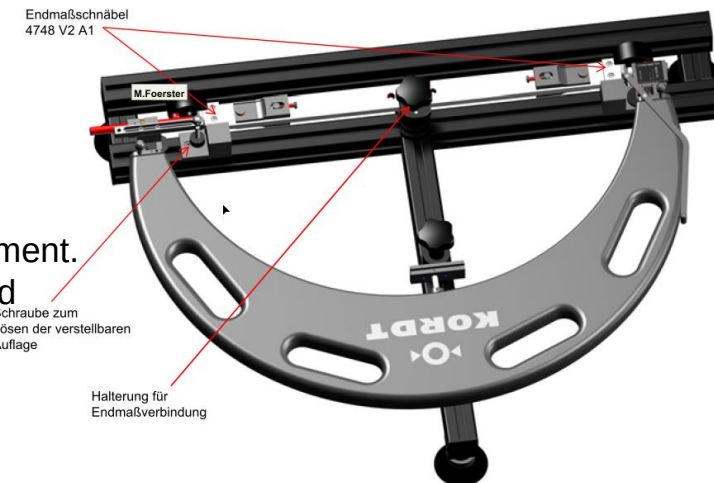
CORDAMETER 4630 + CORDAS_match 4754

If you have the possibility to adjust the setting assistante with a CMM or a measuring bench CORDASmatch is a flexible unit to cover the range of the instrument

Budget:

CORDAMETER 4630 + Slip gauges with Slip gauge holder

Using slip gauges is a budget solution to set the instrument. Slip gauge holders help to arrange the slip gauges and assist while setting the instrument.



Traditional:

CORDAMETER 4630 + measuring bench with setting

You always can use a setting bench. With special designed backstops the setting is much easier.

Andere Applikationen Großbauteile

Samples for other applications for large components

