

TAURUS® 1-4 C

TAURUS® 1-4 C
With integrated setting
process monitoring

Setting process monitoring is achieved by direct online analysis of traction force and traction stroke recorded during the setting of the rivet. All system components necessary for this operation are integrated in the tools. Analysis of a setting process takes less than 1 μ s. The results are directly shown by a green or red LED installed in the tool base and optionally by an acoustic signal. In addition to this individual analysis the system also provides collective analysis for the complete workpiece. The tool stores more than 260,000 setting process data which can be retrieved at any time. The system also identifies failure patterns and memorizes them for failure analysis and troubleshooting. The tools can be operated as stand-alone devices or as integrated part of a customer's production system via the GESIPA® interface.

GESIPA® Interface

The new interface developed by GESIPA® is based on an embedded PC system and provides 24 digital in and out control system ports, Ethernet connection via a RJ45 connector as well as status LEDs. Connection ports for a protocol converter supporting all common bus systems and for external storage media as well as a USB port for fast data transfer complete the features of the new interface.

In addition, the GESIPA® interface has a process database for storing 250,000 of the most current process data (date, time, rivet position, process curve, analysis, etc.).

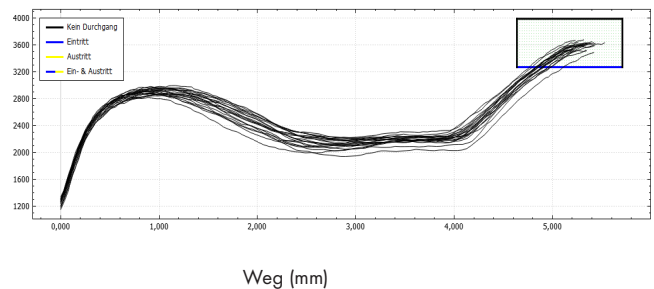
Of course, the new interface is backward compatible with its predecessor models.



TAURUS® C 1-4 (with setting process monitoring)

High-grade GESIPA® Blind Rivet with Minimal Scatter:

- Minimal scatter of the graphs
- All graphs end in the break-off window
- 20x OK riveting



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GESIPA®

TAURUS® WinTech

WinTech – Multi-window technology with up to three assessment windows

Ideal for highly critical assembly applications using safety components in industries such as aviation and automotive.

The basis for monitoring the WinTech setting process is the tried and tested TAURUS® C. The setting process is evaluated with the aid of position and force sensors as well as integrated electronic circuitry. Up to three evaluation windows can be configured with special setup software. A colored LED on the tool shows the result of setting process monitoring. With a data line, the values can also be recorded and further processed.

Consultation, price and delivery time on request.

Application

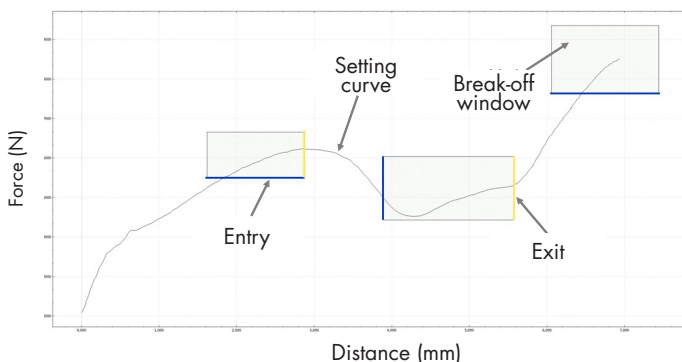
For use in the production of critical components, the TAURUS® C can facilitate monitoring and documentation of the assembly results.

Advantages

- High process reliability
- Documentation of each individual setting operation
- Less scrap as faults are detected immediately
- Avoidance of additional costs/quality costs due to NOK parts
- The customer can configure how to enter and exit the assessment window
- Flush-break rivets (MEGA GRIP®) can also be monitored

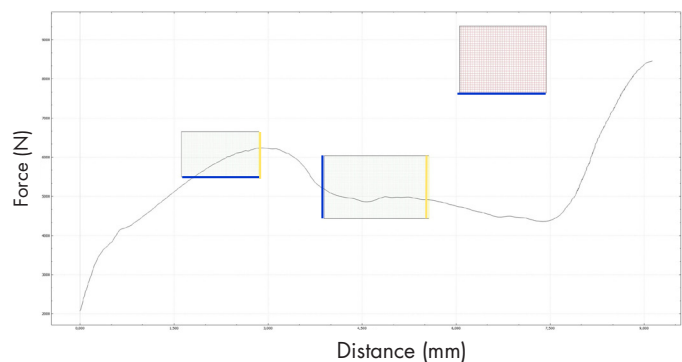
Example of OK Process

Window entry and exit at customer-defined positions



Example of not OK Process

Material to be joined too thin due to missing component



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