



MORE LIGHT

Multi-functional measurement control system for demanding measurements as part of the production process. **Movoline ESi140 & ESi440**

The ESi140 and ESi440 measurement control systems can be used to obtain precise measuring results throughout the entire production process: in real-time while processing a workpiece, as well as in pre-production and post-production, such as when carrying out match grinding processes or as a means of quality control.

To measure

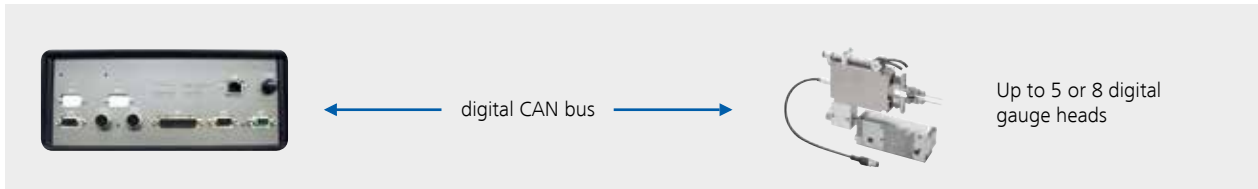
- Diameter
- Length and longitudinal position

System characteristics

- For uninterrupted or interrupted surfaces
- Passive or active positioning
- Up to 5 or 8 Movoline measuring heads can be connected
- With standard or customer-specific software
- Simple adaptation to different measuring requirements
- Several installation options for flexible use
- Digital and thus interference-free data transmission
- Measurement precision, even with minimal workpiece tolerances

Multi-functional measurement and control unit for demanding measurements throughout the entire production process

Movoline ESi140 & ESi440



Integration

The ESi140 and ESi440 measurement control systems come installed in a switch cabinet. The data can be displayed on a separate display or on the machine control unit display.

Display

Using the Windows-based Movoline Tolaris Process software, all measurement control functions can be operated and displayed directly on the graphical user interface for the grinding machine control unit or on a separate display.

Electronic properties

A single CAN bus cable is used for operation and to connect to the measuring heads. The measurement data is transmitted digitally, providing for interference-free transmission, and independent of the cable length. By using modern fieldbus technology, you can considerably reduce the number of cables needed when using multiple measuring heads on the ESi140 and ESi440.

Technical data

| | |
|-----------------------------|---|
| Power supply | 24 VDC |
| Movoline gauge heads | |
| ESi140 | Max. 5 digital gauge heads |
| ESi440 | Max. 8 digital gauge heads |
| Control inputs | 5 |
| Type | 24 VDC, 10 mA, Common: 0 VDC |
| Control outputs | 17 |
| Type | 24 VDC, 100 mA (optocoupler), Common: 24 VDC |
| Interfaces | PROFIBUS®, Ethernet |