BRANKAMP

X5

PROCESS MONITORING

POWERFUL PROCESS MONITORING FOR METAL FORMING

MARPOSS

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X5

Your benefits

- ⊕ **Machine and tool protection**
- ⊕ **In-process quality control**
- ⊕ **Increased productivity** due to extended run-time, reduced downtime and stroke optimization
- ⊕ **Minimized tool and scrap costs**
- ⊕ **Process optimization for more stable processes**
- ⊕ **C-THRU 4.0 interface to connect the DC / MES / ERP systems**

Equipment

- Up to **24 monitoring channels** with automatic calculation of amplification and monitoring window
- **12" touch display** with fast image refresh and high resolution
- **High resolution signal acquisition** (24 Bit A/D conversion)
- Various, flexible **counter functions**: order, tool, dosage, maintenance, shift and stroke
- **Stop & Go diagram** shows the run-time behavior (up to 90 days) with spm graph
- **Device protocol records failure curves** incl. date, time and reason of process failure
- Extensive **tool and product storage**
- **Data collection terminal masks** prepared for C-THRU 4.0 and XBrowser

Monitoring

- **Quattromatic**: Double, dynamic envelopes, inner envelope sorts, outer envelope stops
- **Systematic**: Precise monitoring of tool damage
- **Zoom**: Accurate monitoring of failure-critical signal sections
- **Rotator**: Exact detection of turned or wrong inserted parts
- **Short- and long-term trend**: Comprehensive monitoring of short- and long-term behavior
- **Wire feed monitoring** detects and visualizes feeding problems
- **Pattern-based idle limit** for thread rollers
- **ADM**: Automatic display and adjustment of the die match
- **Brake angle monitoring** visualizes stop problems of the machine

Operation

- **Cockpit mask** shows all relevant information at-a-glance
- **Optimizer plus** calculates the optimum envelope curve for each channel
- **Adapt function** optimizes the envelope curves in the event of random process fluctuations
- **Monitoring assistant** for a flexible adaption of monitoring
- **Teach-In** for individual channels possible
- **Toolmatic** transmitting binary tool numbers of the plc to the unit
- **10 point calibration** for each channel
- **USB and network interface** for process documentaion

The cockpit mask provides all relevant information at-a-glance: counter readings, maximum forces, ADM and envelope curves with idle limits.

The device protocol records failure curves together with all process data.
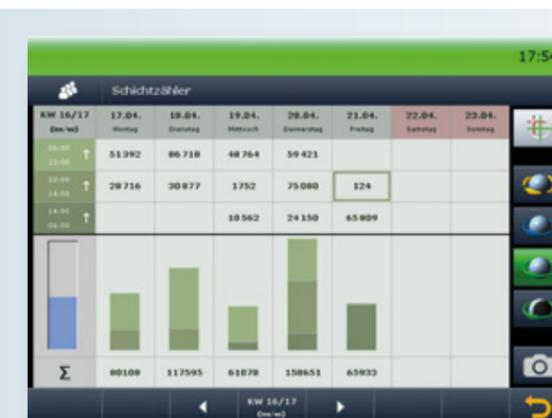
The X5 shift counter records the number of pieces produced per shift, day and weeks. The machine performance can be compared over several weeks.

X5 displays and monitors the rolling forces for easier analysis over the tool length (mm).

This protocol stores the last 250 operator inputs with the date, time and the used tool number.

Technical Data

Monitoring:	1 - 8 (24) analog channels 4 - 16 digital in-/outputs
Power:	24 V / DC / 23 Watt
Environment temp.:	+5 °C to + 40 °C
Interface:	1 Ethernet / TCP/IP 2 USB
Sampling:	Pseudo angle, option: angle or stroke-dependent
Dimensions:	346 x 354 x 136 mm (W x H x D)
Weight:	10.5 kg (incl. U-holder)