BRANKAMP

X7

PROCESS MONITORING

HIGH END PROCESS MONITORING FOR SHEET METAL FORMING

MARPOSS

For a full list of address locations, please consult the Marposs official website

ODN6B04EN01 - *Edition 03/2023 - Specifications are subject to modifications.*

Marposs has an integrated system for Company quality, environmental and safety management, with ISO 9001, ISO 14001 and OHSAS 18001 certification. Marposs has further been qualified EAQF 94 and has obtained the Q1-Award.

www.marposs.com

www.brankamp.com

HIGH END PROCESS MONITORING FOR SHEET METAL FORMING

X7

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

- **PC Frontend** including a modular backend for larger machines
- Up to **32 monitoring channels** with automatic calculation of amplification and monitoring window
- Up to **20 digital inputs and cam outputs**
- **15“ touch display** with fast image refresh and high resolution
- **High resolution signal acquisition** (24 Bit A/D conversion)
- Internal **RFID Reader** for registration, user level-, language- and design control
- **Time Machine** showing the last 10 process signals
- **Combi mask** shows the entire monitoring methods of a channel
- **Data collection terminal masks** prepared for C-THRU 4.0 and XBrowser

Monitoring

- **Multi-sensor evaluation** (force, UltraEmission, AcousticEmission, distance etc.)
- **Quattromatic**: Double, dynamic envelopes, inner envelope sorts, outer envelope stops
- **Systomatic**: Precise monitoring of tool damage
- **Zoom**: Accurate monitoring of failure-critical signal sections
- **Short- and long-term trend**: Comprehensive monitoring of short- and long-term behavior
- **Tool protection** for feed and ejection monitoring
- **Super stop** to control hydraulic overload systems
- **Brake angle monitoring** visualizes stop problems of the machine
- **Sum and difference force** calculation and monitoring

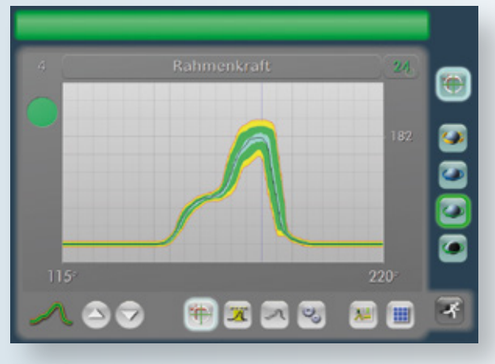
Operation

- **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
- **Teach-In** for individual channels possible
- **Toolmatic** transmitting binary tool numbers of the plc to the unit
- **Failure diagnosis** allows a quick fault recognition of process problems
- **10 point calibration** for each channel
- **Third party programs** executable on X7 Windows frontend
- **USB and network interface** for process documentaion

X7 Cockpit: Switchable mask design with flexible arrangement of the monitoring channels (according to the machine configuration).

Binary input signals can be monitored with up to three monitoring windows to ensure the earliest possible fault detection.

The failure distribution shows machine downtimes and the frequency of process failures for a quick and easy failure analyze.



The „Optimizer plus“ automatically determines the optimum sensitivity (envelope width) for the entire envelope curve.

The productivity distribution provides a clear and well-founded analysis to compare shift, day and week performances.

Technical Data

Monitoring:	4 - 24 (32) analog channels 4 - 20 digital in-/outputs
Power:	24 V / DC / 52 Watt
Environment temp.:	+5 °C to + 40 °C
Interface:	2 Ethernet / TCP/IP 2 USB
Sampling:	Pseudo angle, option: angle or stroke-dependent
Dimensions:	429 x 420 x 114 mm (W x H x D)
Weight:	12 kg (incl. U-holder)