

BRANKAMP

X3S

PROCESS MONITORING

INTELLIGENT PROCESS MONITORING FOR SHEET METAL FORMING



MARPOSS



www.marposs.com

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

ODN6B02EN02 - Edition 03/2023 - Specifications are subject to modifications.
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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.



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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

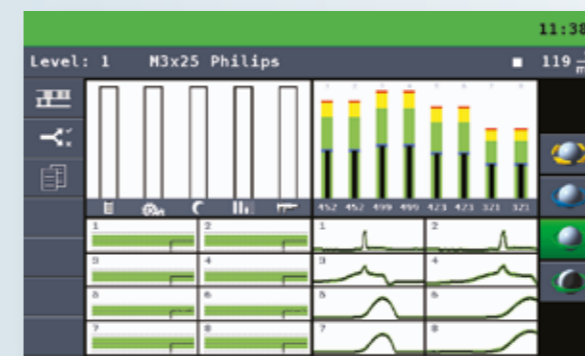
- Up to **12 monitoring channels** with automatic calculation of amplification and monitoring window
- Up to **16 digital in- and outputs**
- **9" touch display** with fast image refresh and high resolution
- Various, flexible **counter functions**: order, tool, dosage, quality counter and many more.
- **Stop & Go diagram** shows the run-time behavior of the machine in detail
- **Device protocol** records date, time and reason of process failures
- **Superlux**: Multicolored, integrated LED warning lamp
- **Data collection terminal masks** ready for C-THRU 4.0

Monitoring

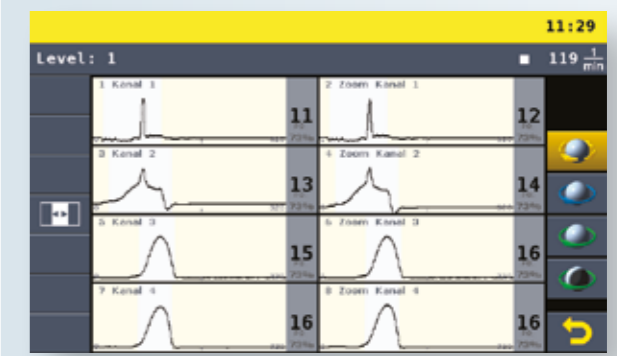
- **Multi-sensor evaluation** (force, UltraEmission, AcousticEmission, distance etc.)
- **Quattromatic**: Double, dynamic envelopes, inner envelope sorts, outer envelope stops
- **Systematic**: Precise monitoring of tool damage
- **Zoom**: Accurate monitoring of failure-critical signal sections
- **Short- 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
- **Sum and difference force** calculation and monitoring

Operation

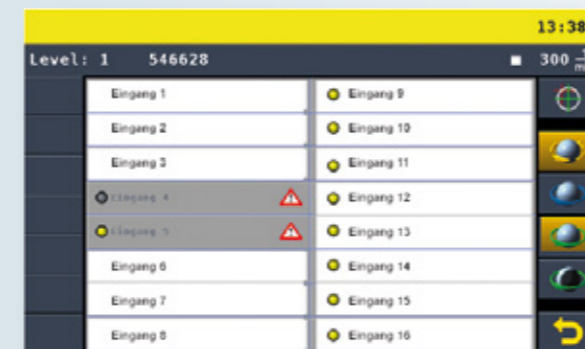
- **Cockpit mask** shows all relevant information at-a-glance
- **Optimizer** automatically calculates the optimum envelope curve
- **Adapt function** optimizes the envelope curves in the event of random process fluctuations
- **Spot Control** automatically calculates correct monitoring windows
- **Comfort interface** helps the operator by reducing unnecessary operator intervention
- **Four operating levels** control the access to permissible device settings
- **Double operation** with connection of an additional PC
- **10 point calibration** for each channel



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



The X3s performs an automatic calculation of the monitoring windows for new products.



Up to 16 binary feed, ejection, and coil end sensors are visualized and monitored in an overview mask.



Up to 16 cam outputs control lubrication or blowout pulses, feed operations, scrap shears etc. – angle- or time-related.



The X3s system is prepared for connection to the C-THRU 4.0 Software from Marposs (option).

Technical Data

- Monitoring:** 1 - 8 (12) 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
1 serial
- Sampling:** Pseudo angle, option:
angle or stroke-dependent
- Dimensions:** 300 x 260 x 206 mm
(W x H x D)
- Weight:** 6.5 kg (incl. U-holder)