INTELLIGENT PROCESS MONITORING

FOR THE SHEET METAL FORMING

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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 EMAS and has obtained the SE-Award.
INTELLIGENT PROCESS MONITORING FOR THE SHEET METAL FORMING

**X3S**

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
- FactoryNet®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 FactoryNet®4.0

**Monitoring**
- Multi-sensor evaluation (force, UltraEmission, AcousticEmission, distance etc.)
- Quattrotronic: 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

**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)

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.