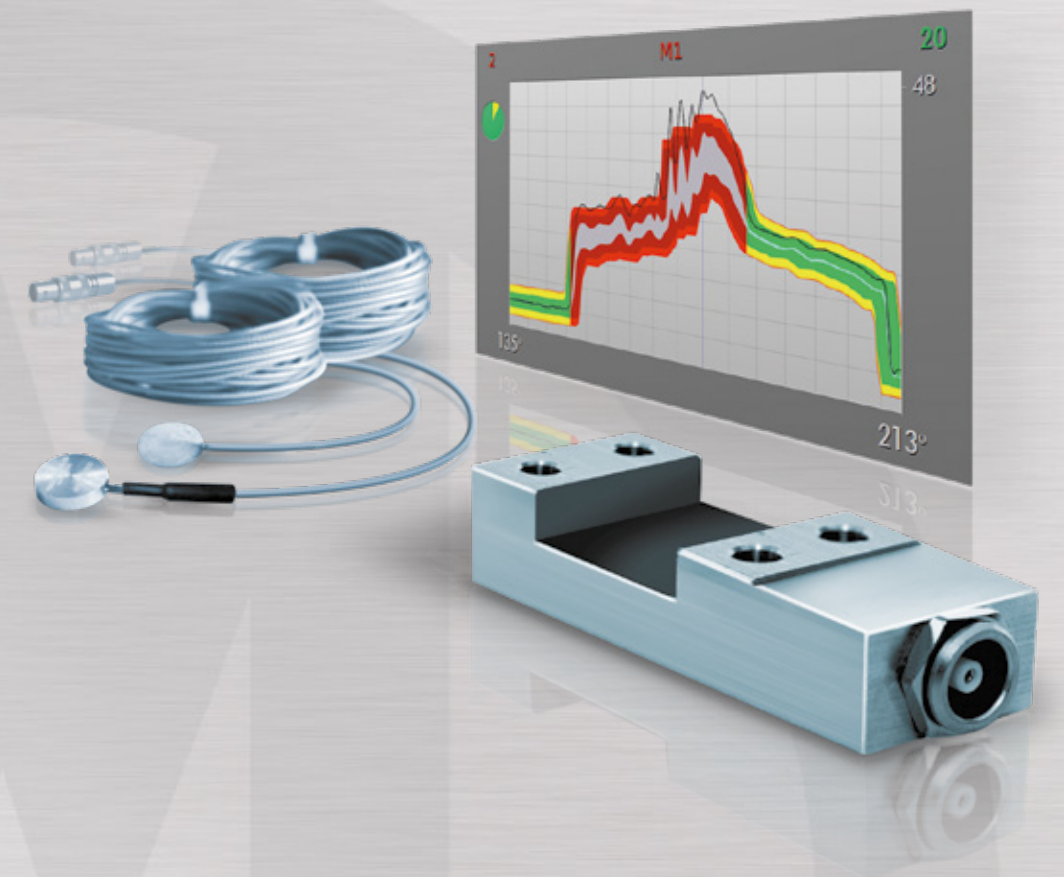


# BRANKAMP

## PROCESS MONITORING *ULTRAEMISSION - SLUG AND SCRAP DETECTION*



# MARPOSS



[www.marposs.com](http://www.marposs.com)

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

ODN6B00EN16 - Edition 05/2022 - 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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# INTELLIGENT PROCESS MONITORING FOR STAMPING APPLICATIONS



# ULTRAEMISSION - SLUG AND SCRAP DETECTION



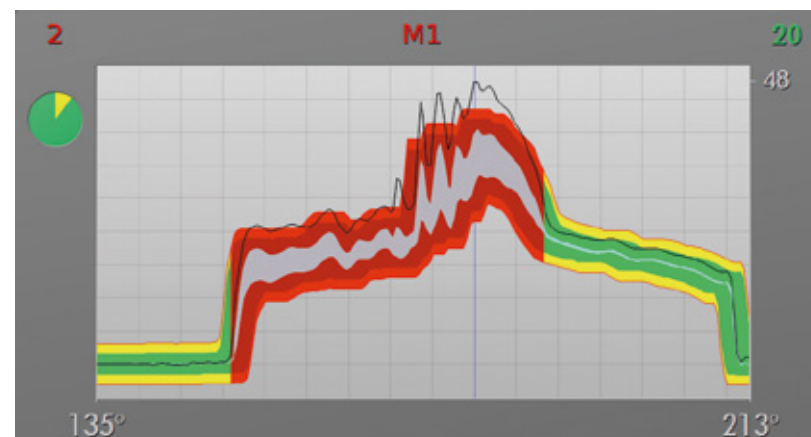
## Your benefits

- **Avoidance of customer complaints** due to slugs.
- **Cost-effective securing** of the surface quality through "In-Process-Quality-Control" directly in the tool.
- **Protection of tool damage**, no standstill due to slugbusters.
- **High productivity without decreased quality**. Even with High-Performance-Machines and thin metal sheets, surface quality is respectively ensured.
- Simple setting of the monitoring limits with the **Teach-In method**.
- **Easy-to-use** through smart UltraEmission signal processing.

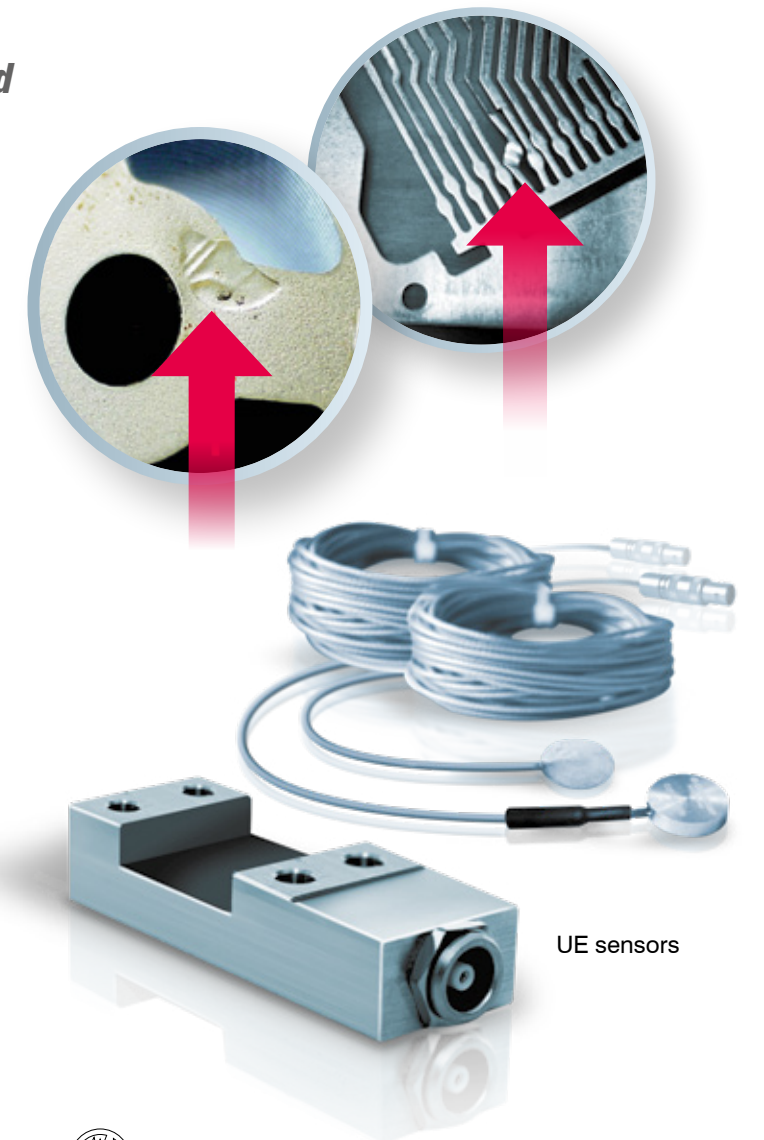
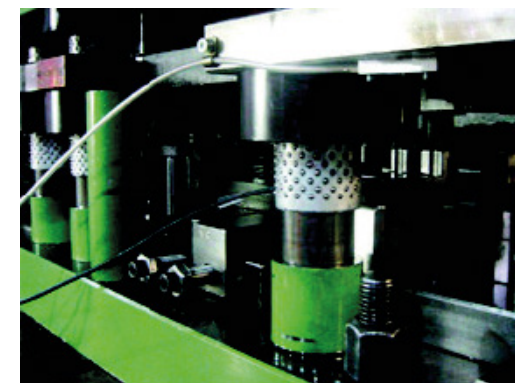
## UltraEmission – Secure Detection of Slugs and Small Parts of Scrap.

During the stamping process pulled slug can slip between the tool and the strip. This can cause marks on the the surface of the part and turns it into an expensive piece of scrap. Random checks fail because only a few parts have surface marks.

For this Marposs Brankamp designed the UltraEmission monitoring. Now, slugs can also be detected at all High-Performance-Stamping-Dies with spring-loaded strippers. Brankamp UltraEmission is an initial progress in acoustic monitoring. Also small scrap parts can attain between the metal sheet and the stripper, will be detected by the powerful UE sensor. The envelope curve monitoring accomplishes the secure evaluation. The surface of the produced parts will be monitored at every stroke.



## Typical stamping failures detected with UE sensors...



## Detecting slugs

UltraEmission (UE) detects small punching scrap and chips in the tool. Due to strong springs on the stripper plate, soft, hard, thick, or very thin material the UE sensor can detect punching scrap reliably. The inconvenient adjustment of the adjusting screws for distance sensors is no longer necessary.

UE sensors