



## Workpiece measurement



Radio transmission



Temperature measurement



Hydraulic pressure measurement



Mechanical pressure measurement



Temperature compensation



Breakage detection



Distance/Position detection



System



Modular system



Adaptive machining



Mass production



## Multi-purpose Gauges **MG80** | **MG81**

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**BLUM**  
focus on productivity



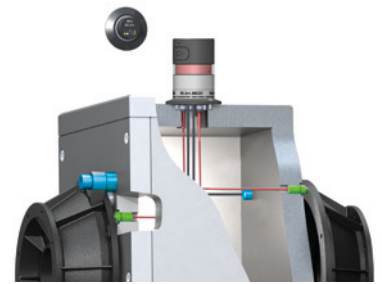
# Multi-purpose Gauges **MG80** | **MG81**

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## Systems for process monitoring during machining

The multi-purpose gauges are attached directly to the clamping devices and can be operated with sensors to record various pieces of data relevant to machining. The recorded values are transmitted wirelessly to the control system and can be fed directly into the process.

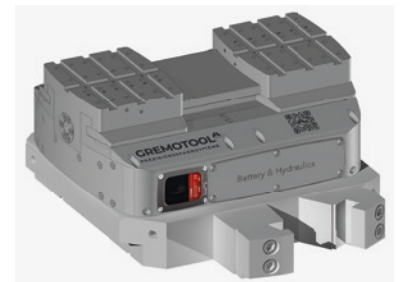
- Detection of tool breakage, workpiece temperature, clamping pressure (hydraulic/mechanical), clamping jaw position, presence of the workpiece, ...
- Multiple connection options and configuration of the customer's own and specific sensors
- Software solutions for Siemens and Fanuc control systems available



MG80 on shuttle table with up to 8 sensors

## Your benefit:

- Control of temperature influences
- Ensuring correct clamping using system and pressure sensors
- Distance sensors integrated into the clamping device enable automated production of workpieces of different dimensions
- Can be expanded as required for mass production
- Communication via BLUM standard interface RC66
- Compact, easily integrated design



MG81 integrated in centre clamp with up to 4 sensors

## System overview



## Example of use:

- Operation on production lines, management using master computer
- Each machine can identify the MG system via the pallet and establish communication

E = Receiver | S = Sender

