



schwer + kopka

The ever increasing use of high-tensile materials on stamping machines is adding enormous strain and stress to both, machine and tooling, such that major defects are occurring rather frequently.

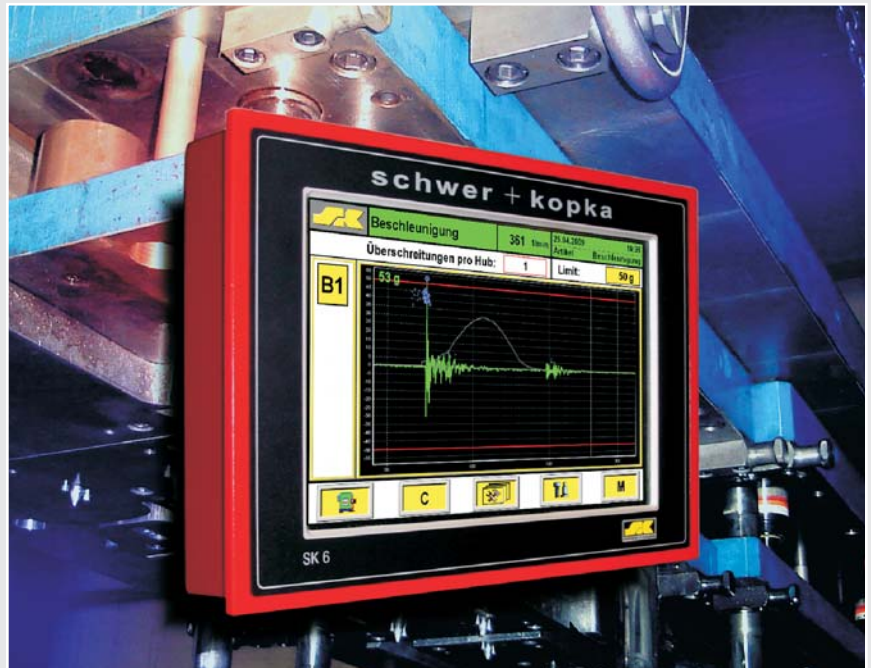
These defects reach from complete tool failures up to severe machine damages such as cracked frames, even if the presses were fitted with pierce shock dampening systems.

Our new acceleration measuring system records the actual stress on the machine components and alerts the operator, if the g-forces are reaching critical values.

An easy-to-install sensor measures high frequency signals of up to 10 kHz and registers acceleration values of up to 100 g.

The acceleration measurement can be combined with our regular force and acoustic emission sensors in the same process monitoring system.

SK-Accelerationmaster *protects machine and tooling when stamping high tensile materials*



Benefits

- avoids damage to machine and tooling
- alerts if g-values are excessive
- can even stop the machine when adjustable g-limits are exceeded
- reveals the impact of stroke rate and material strength on machine and tool
- pinpoints when tool and machine are not suited to each other
- assists in reproducing good machine and tool set-ups
- gives early warning when the process deteriorates
- secures the availability of the entire process

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SK-Accelerationmaster

protects machine and tooling when stamping high tensile materials

Technical Data Sensing

- acceleration sensor (simply installed with 1 M3 screw)
- measuring band up to 100 g
- frequency range up to 10 kHz
- sampling rate up to 20 kHz

Technical Data Monitor

PC-unit:

- AMD Geode Lx800,
- 512 MB RAM,
- Compact Flash 2GB,
- Windows XP Embedded

Interfaces/ports:

- 2 x serial
- 2 x Ethernet 10/100
- 2 x USB
- WLAN (optional)

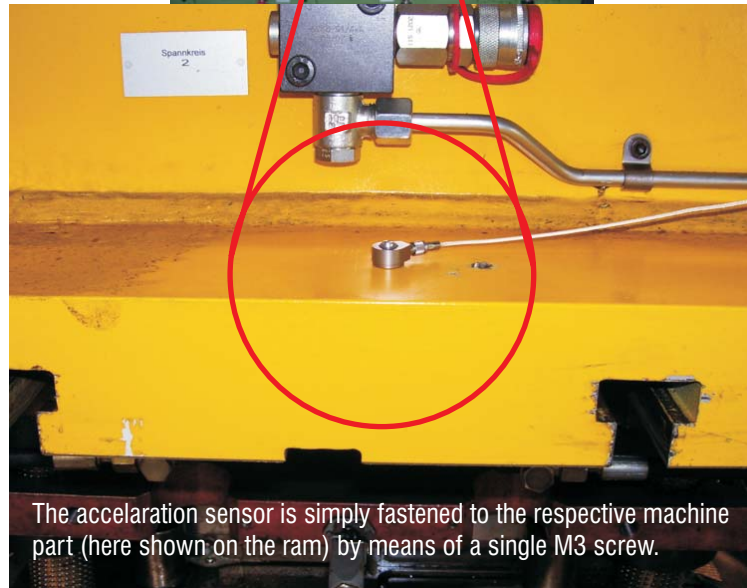
Display sizes:

- 10,4"-TFT-LCD colour display with touch screen or
- 15"-TFT-LCD colour display with touch screen

Enclosure/installation technique:

- compact enclosures made from special aluminium profiles
- CE rated
- numerous mounting options (yoke, swivel, floor pedestal, panel mount)
- power supply: 24 VDC
- data networking connection with **SK-go!**[®]

Simple sensor installation

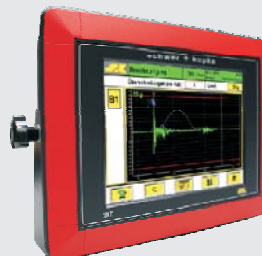


The acceleration sensor is simply fastened to the respective machine part (here shown on the ram) by means of a single M3 screw.

The acceleration measurement is available as a supplementary channel on our following process monitoring units:



SK 6 with 10,4"-Touch



SK 7 with 15"-Touch



SK 8 with 15"-Touch



Please note that some functions described here may be optional on some units even if not specifically mentioned. Modifications possible.