PSA Sensor

Unique: Distortion error Recognizable precisely up to 0.01mm

Pinch-offs, double sheet, burr, material residue result in distortion errors and consequentially in production faults or even destruction of the tool.

The PSA sensor recognizes minute errors in the ongoing forming process and ensures a maximum of production quality and comprehensive tool protection.

PSA Sensor: For controlled forming
Controlled forming at last
Good for the products, good for the tools

When punching and re-forming, shaves, pinch-offs, punching residues or different material thicknesses may cause distortion errors and therefore quality faults of the produced parts or to overloading the tool.

Even at the highest reciprocating speed, the PSA sensor recognises smallest material residue or debris up to 0.01mm.

The PSA sensor is based on the piezoelectric process, generating a complex sound and pressure signal. In compact PRESS, the signals are comfortably processed and precisely evaluated. Envelopes around the sensor signal automatically ensure a dynamic and minimal tolerance range. Violation of the envelopes may result in sorting out the punched and formed part and/or stopping the machine.

Installation of the PSA sensor is carried out in the down-holder or guide plate of the tool. The Piezo disks of the sensor, the connection cable and the plug are glued into a gap designed for this purpose. Depending on the tool and the monitoring requirement, at least one sensor, even better two PSA sensors are useful. Via LVCpro amplifier, the sensors are connected with the signal input of the compactPRESS. Each PSA sensor is delivered with installation set 1 in a blister pack.

1) Installation set consisting of: PSA sensor, cord, plug, gluing material.

PSA Sensor and compactPRESS. An ingenious measuring idea.