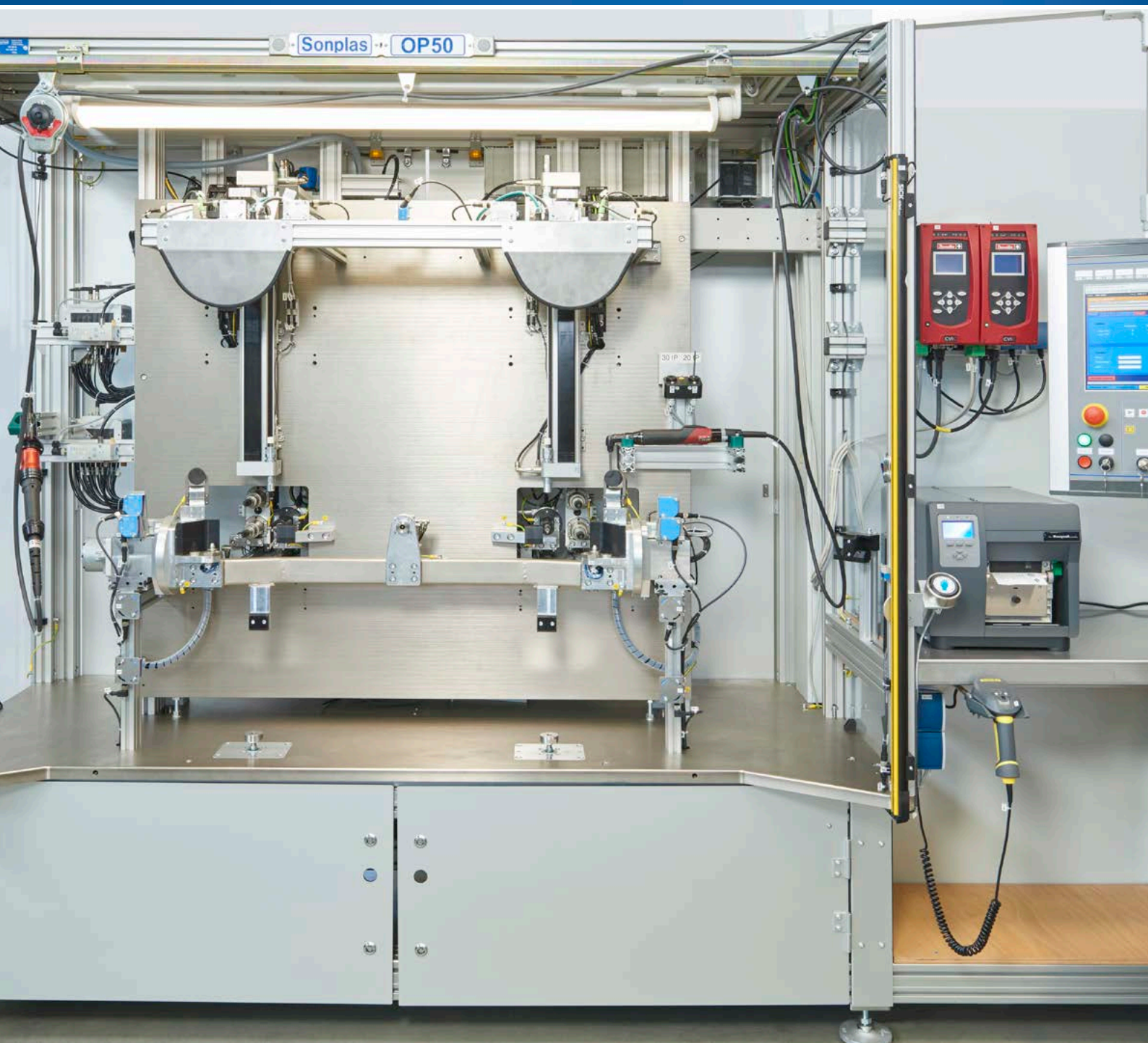


Safety systems and gearbox for automotive industrie assembly Machine ÜRSS





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The machine is divided in pre- and main assembly. The pre-assembly is used for assembly and test of the drive unit. It consists of four handwork places with manual loading and automatic test. The main assembly is also built as a handwork place with manual loading and automatic test. Several mounting parts are assembled using a controlled screwing device. The correct assembly of the mounting part is checked with different sensors. During the automatic test the following characteristic values are checked: Resistance of the pyrotechnical device – Rollbar height in retracted and extended position – Curve while moving out the rollbar – Max. force while moving out the rollbar. A unique identifiable label is printed with the label printer existing in the machine.



Main assembly Bentley



Pre assembly



Highlights

Comfortable, custom-built machine interface (Windows 10)
– Touchscreen – Server for type settings and analysis of the saved data/results – Contact-free laser-triangulation-position measuring system – Graphical display of characteristic curves – Integrated force and torque sensors – Data acquisition with analog input modules (16 bit A/D resolution)



Technical data

Position measuring system: Range: 500 mm – Linearity: +/- 0,08 % (of Range) – Resolution: 30 µm – Meas. frequency: 2,5 kHz
Force measuring: Force sensor: DMS sensors (precision class 0.5) – Move out force: 1 kN (OP50) – Press in force: 2 kN (OP10.2)
– Press in force: 1 kN (OP20) – Torque sensor: 20 Nm – Power supply: 400V, 50 Hz – Compressed air supply: at least 5,5 bar