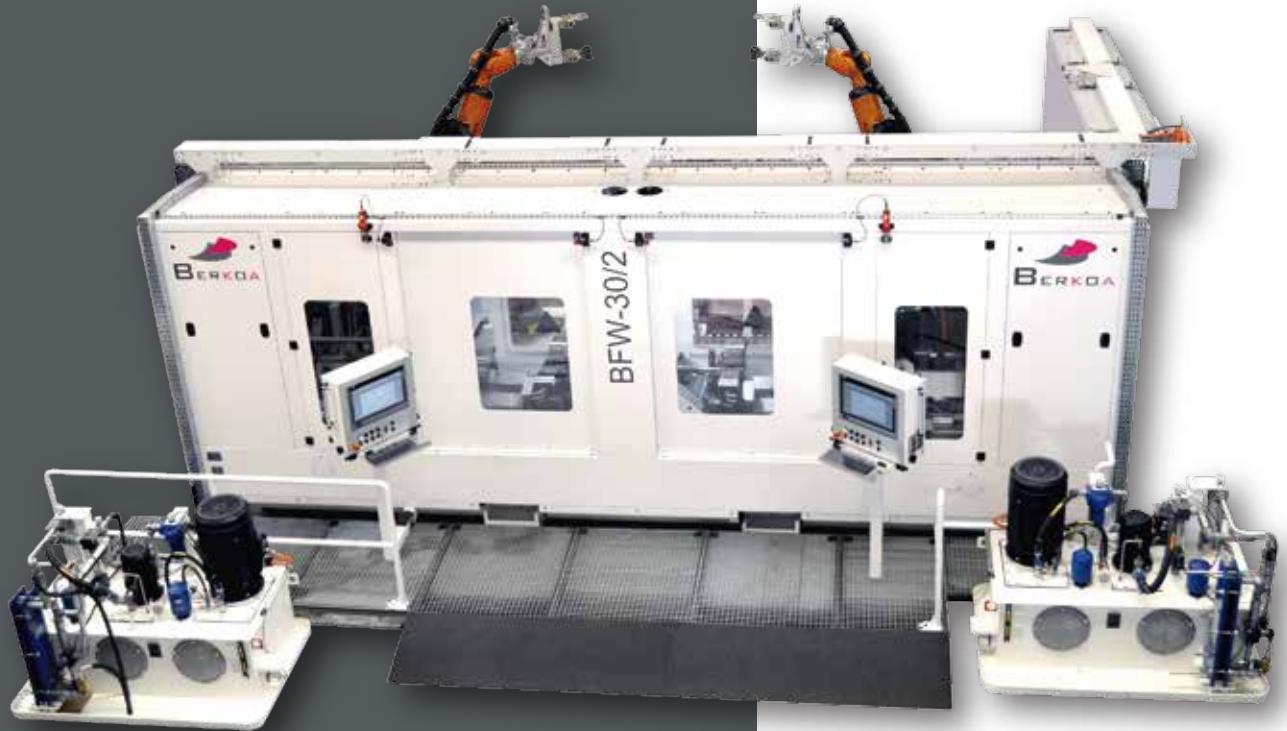


BFW-30/2

Rotary Friction Welding Machine



▶ 2 Stations Rotary Friction Welding Machine

CUSTOMIZED SPECIAL MACHINES



DESCRIPTION

- ▶ Two independent stations machine with a pushing force of 30 tn/station.
- ▶ Runout measurement between welded parts by laser equipment.
- ▶ Traceability control.
- ▶ Loading and unloading of parts by robots.
- ▶ Automatic loading belts for parts to be welded, with control of length and diameters. In case of bad piece, the robots reject it and continue with the next one.
- ▶ Several output positions for the welded pieces:
 - Correct pieces
 - Bad pieces after the welding process
 - Piece of the first batch and pieces to be measured and controlled.

SOFTWARE BSC (BERKOA SYSTEM CONTROL) FOR CONTROL AND PROGRAMATION SPECIFIC SOFTWARE FOR ROTARY FRICTION WELDING MACHINE

- ▶ Control System and Parameter's control including
Siemens Fail-Safe CPU 1500 generation via Profinet
Software PLC Siemens SIMATIC STEP7 Professional / Safety (TIA Portal)
Display Software Siemens SIMATIC WinCC Advanced (TIA Portal).
Drive Siemens SINAMICS Start drive Advanced (TIA Portal) Software.
Motion Control Bosch Rexroth VT-HNC Hydraulic Control.
Decentralized peripherals devices (IN / OUTPUTS / IO-Link) Connected Via PROFINET.
IO-Link Sensors
Data Assessment Software.
- ▶ The machine features a data-logging control system with communication modules to control and capture data from the welding process. The welding controller application contains the S7 software. The welding quality control settings are entered manually on touch screens, and they are saved on the Panel PC hard drive.
- ▶ It also allows accurate control of the welding process by means of charts.
- ▶ Available port to send work's data and obtained results to an external device. The external device for welding data is not included in the offer.

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