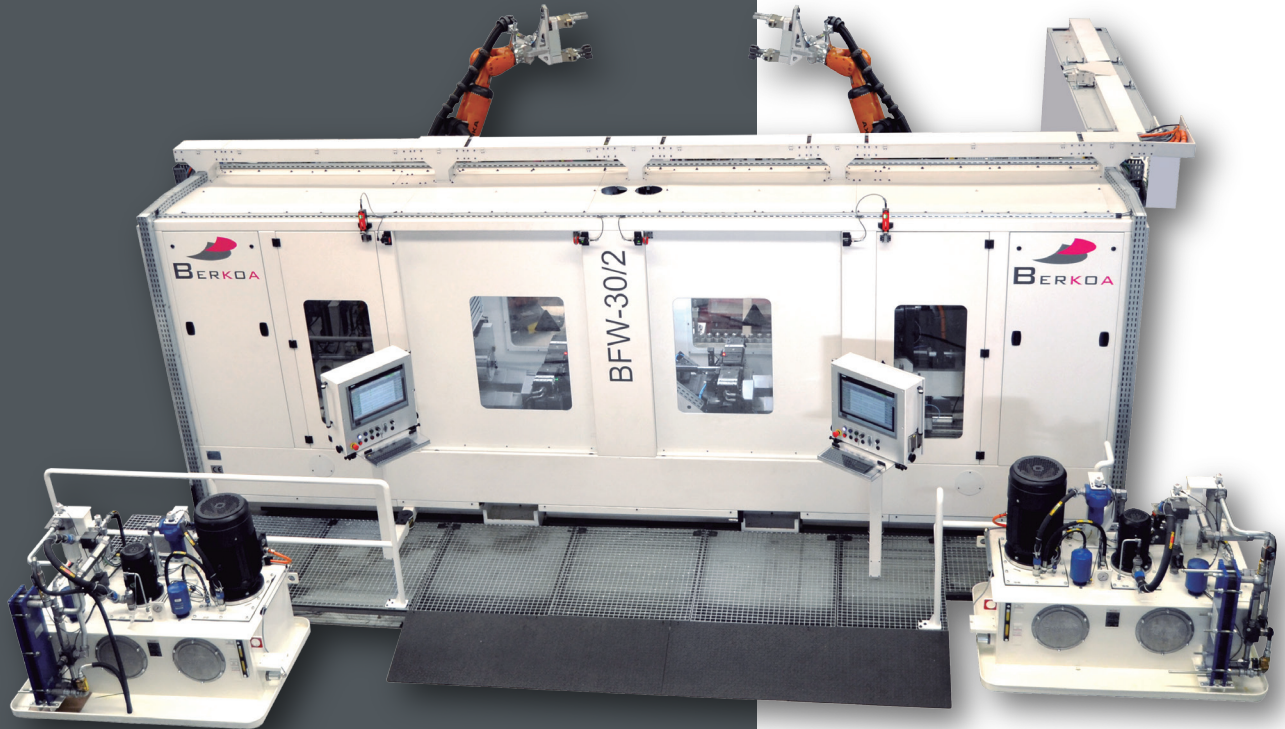


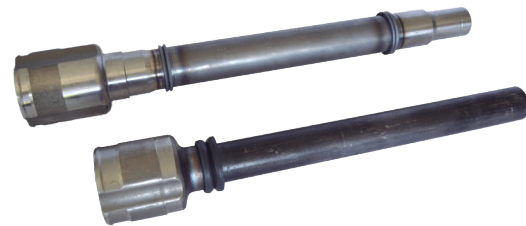
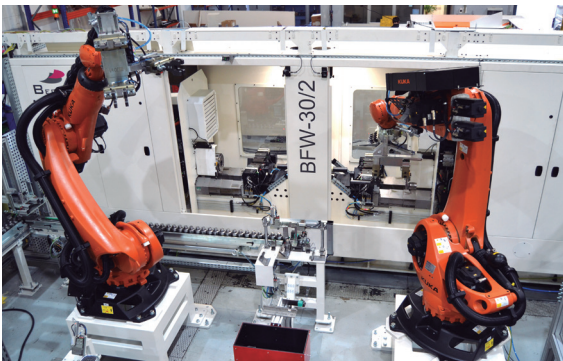
**BFW-30/2**

## Rotary Friction Welder



► Rotary friction welder

**CUSTOMIZED SPECIAL MACHINES**



### DESCRIPTION

- ▶ Two-station machine, with a thrust of 30 t at each station.
- ▶ Laser arc-measurement between welded parts.
- ▶ Traceability control.
- ▶ Robot-driven feeding and discharging of parts.
- ▶ Automatic feeding belts for parts, with length and diameter control. If a part is not up to standards, the robots discard it and move onto the next piece.
- ▶ Several outlets for welded parts:

Correct parts.

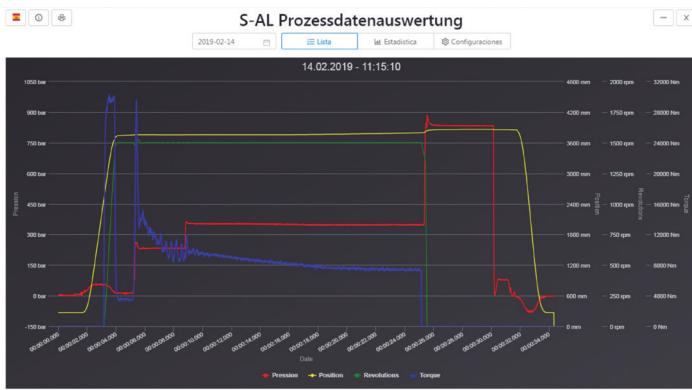
Faulty parts after welding process.

First parts in the batch and parts to be checked and measured.

# BSC (BERKOA SYSTEM CONTROL) CONTROLLER PROGRAMMER FRICTION WELDING SOFTWARE

- ▶ Parameter Command and Control System with:
  - Siemens Fail-Safe CPU 1500 generation via Profinet.
  - PLC Siemens SIMATIC STEP7 Professional / Safety (TIA Portal) Software.
  - Siemens SIMATIC WinCC Advanced (TIA Portal) Display Software.
  - Drive Siemens SINAMICS Startdrive Advanced (TIA Portal) Software.
  - Motion Control Bosch Rexroth VT-HNC Hydraulic Control.
  - Stand-alone Peripheral 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.
- ▶ The welding process can be accurately controlled by means of charts.
- ▶ Port available to share work data and results with an external device. This offer does not include an external storage for welding data.

[www.berkoa.com](http://www.berkoa.com)



Producción	Control de la concentricidad	Carro	Puertas	Husillo	Hidráulica	Diagnóstico	Ajustes	
<b>Pinza</b> abrir <input checked="" type="checkbox"/> Sensor pinza abierta <input type="checkbox"/> Sensor pinza cerrada	<b>Amarre central</b> abrir <input checked="" type="checkbox"/> Sensor amarre central abierto <input type="checkbox"/> Presión amarre central 0 bar <input type="checkbox"/> Sensor amarre central cerrado	<b>Carro</b> flotante avance <input checked="" type="checkbox"/> Sensor carro flotante a bridas <input type="checkbox"/> Sensor carro flotante a bridas		<b>Amarre husillo</b> abrir <input type="checkbox"/> Posición abierto min. 79,70 mm <input type="checkbox"/> Presión amarre del husillo 0,3 bar <input type="checkbox"/> 77,50 mm <input type="checkbox"/> Posición cerrado min. <input type="checkbox"/> Posición abierto max. 81,70 mm <input type="checkbox"/> Posición amarre husillo 80,68 mm <input type="checkbox"/> 74,50 mm <input type="checkbox"/> Posición cerrado max. <input type="checkbox"/>	<b>Freno</b> cerrar <input type="checkbox"/> Presión de freno 24,7 bar	<b>Accionamiento del husillo</b> desconectar <input type="checkbox"/> Torque 0,00 Nm <input type="checkbox"/> RPM 0 rpm <input type="checkbox"/> 242,9 ° <input type="checkbox"/> Posición	<b>Protección del husillo</b> abrir <input checked="" type="checkbox"/> Sensor protección del husillo abierta <input type="checkbox"/> Sensor protección del husillo cerrada	<b>Carro</b> retroceso <input type="checkbox"/> Sensor carro atrás <input type="checkbox"/> Posición carro +30,752 mm



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