

Thompson

Friction welding:
PR Series

KUKA

Thompson Friction Welding
- a business unit of KUKA Systems U.K. Limited



Thompson Friction Welding machines Built by KUKA, in the UK

Thompson's PR direct drive series is specially designed to friction weld piston rods and cylinders for both OEM and Tier 1 manufacturers. This new generation of machines not only offer a number of innovations which streamline production and boost accuracy, but also include more environment-friendly parts:

- Easy to use two jaw chuck
- High accuracy hydraulic control
- Innovative machine design, hidden tie bars
- Enhanced heavy duty flash removal structure
- Improved flash/chip control with automatic head mounted flash guard



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Machine design features >

> **Two jaw chuck**

Self centring, easy-to-load chuck

> **Hidden tie bars**

Open architecture means easy load/unload and integration of automation

> **Roller rail slideways**

Roller rail slideways and linear bearings provide smooth, low friction head movement

> **Automatic lubrication system**

Oil lubrication system on roller rails, clamp slides and head

> **Heavy duty flash removal**

Flexible, two axis servo flash removal, with option of dual tool system

> **Non marking tooling**

Self centring, clamping device with tooling that does not damage the chromed rod

> **Enhanced chip control**

Head mounted flash guard, clamp covers, chip conveyors and crushers to avoid contamination

> **Flexible backstop options**

Easy-to-use manual or quick changeover programmable motorised solution

> **Intuitive informative software**

User-friendly software for full control over the weld cycle
Optional in-cycle TIR measurement with in-depth reporting

> **Fully featured hydraulics**

Offers optimum machine welding range and full flexibility/control throughout the process



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