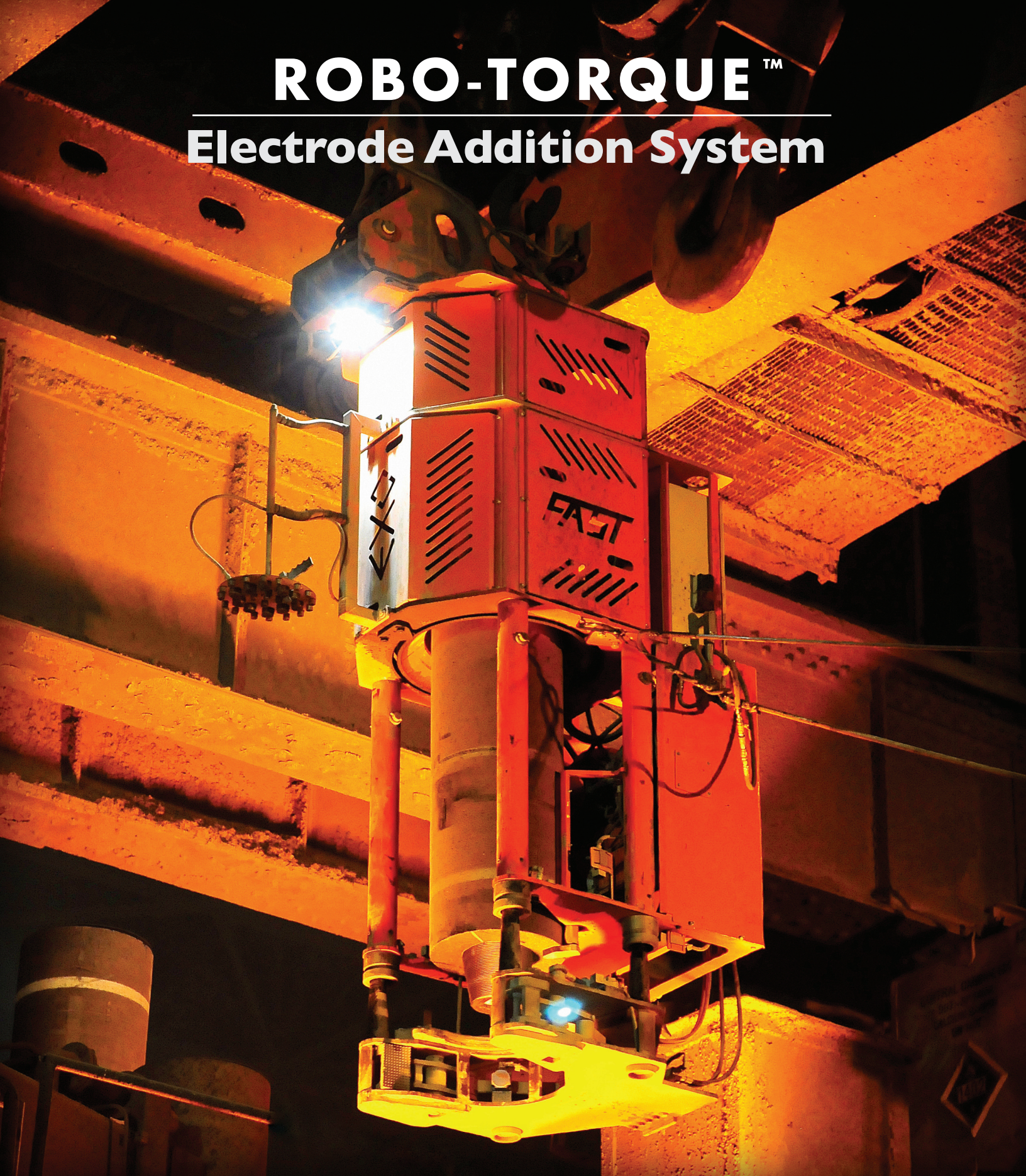
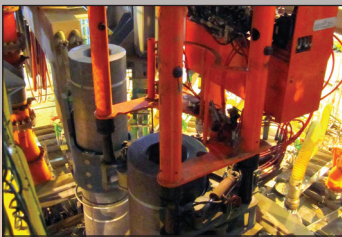


ROBO-TORQUE™

Electrode Addition System





ROBO-TORQUE™

Electrode Addition System

The most innovative, safe, and complete “On Furnace” electrode torque solution for EAF/LRF Operators.



APPROACH



REMOVE CAP



TORQUE



SLIP



ROBO-TORQUE™ INNOVATIONS

- PLC & Radio Control for remote controlled additions from the factory floor.
- Proximity & Limit Switches for precise alignment and position of the machine.
- PLC provides full automatic addition sequence with the push of a single button.
- PLC provides diagnostics and alarms for all electrode torque sequences.
- Air Compressor and Cap Removal System ensure clean electrode sockets.
- Hydraulic Accumulators insure hydraulic pressure in case of power loss.
- Three Point Clamping distributes the holding force evenly within the socket.
- Three Point Clamping compensates for electrode diameter tolerances.
- Open “V Shaped” Base allows crane operator to position the machine rapidly.

ROBO-TORQUE™ BENEFITS

- Reduced accident exposure since no strenuous manual tasks are required.
- Fast (2-3 minute) electrode addition sequences for improved productivity.
- Hydraulic torque for consistent and reliable joints to electrode supplier specs.
- Precise electrode joints for reduced butt loss and breakage from bad joints.
- Electrode columns remain on the furnace for reduced graphite oxidation.
- Electrode columns remain on the furnace for reduced thermal cycling.
- Reduction in operating delays for electrode additions means increased production.



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