

HardLine® CIHM-D

Drum type



A product within the HardLine family

The HardLine CIHM-D from EFD Induction is a drum-type system for reliable and cost-effective hardening and tempering of crankshafts. Designed specifically as a manually loaded system, each HardLine CIHM-D is packed with features to help ensure maximum output at minimal cost. Key benefits include:

Unrivalled quality, minimal distortion

Each HardLine CIHM-D comes with the powerful RTM-100 real-time process monitoring system as standard. The HardLine CIHM-D also features 'Active Power Variation' which dynamically adjusts the power in accordance with the crankshaft's angle of rotation during heating. This minimizes distortion by limiting heat seepage.

Aggressive cost control

Become more cost-effective by exploiting the HardLine CIHM-D's high throughput, minimal energy and water consumption, and durable long-life coils.

Smart capital investment

A HardLine CIHM-D can handle crankshafts of any pattern up to 1,500mm long, with or without radii or split pins. It is possible to add a second drum if required, effectively doubling throughput.

* The system shown is for illustrative purposes only.



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PRODUCT FEATURES

Complete control

The EFD Induction HardLine CIHM-D crankshaft hardening solution features Sinumerik 840D CNC or Simatic s7-300 PLC systems, as well as RTM100 integrated process control software.

Versatile

The HardLine CIHM-D hardens crankshafts of any pattern up to a maximum length of 1,500mm. The drum contains four hardening positions. An extra drum may be added if needed. The HardLine CIHM-D requires only one operator, even when operating with two drums.

Modular

The HardLine CIHM-D is specially designed and built for low to medium production volumes of larger crankshafts. Particular emphasis is placed on easy, straightforward operation, with clear man-machine interfaces and manual loading.

Proven solution, worldwide support

The HardLine CIHM-D is a solution from EFD Induction, one of the world's largest and best-known induction heating companies. Our equipment is widely used by many of the world's top manufacturers, and is backed by a global after-sales support program.

TECHNICAL DATA

HardLine CIHM-D

Throughput	Up to 12 parts per hour, depending on workpiece
Power source	Sinac P range
Max. part length (mm)	1,500
CNC control system	Siemens Sinumerik 840D
PLC control system	Siemens Simatic s7-300
Quench media	Polymer spray, dip
Tank	Stainless steel
Loading	Manual

Subject to modification

