

臥式感應加熱設備

Horizontal Induction Heating System



NC控制器及操作設定平台
NC Control Unit



伺服傳動裝置
Servo Driver System



加熱淬火站及淬火液循環槽，設置線上回火裝製
Quenching and Tempering Station



螺桿淬火實例，滾珠螺桿熱處理
Ball screw Heat Treatment



軸棒型螺桿熱處理
Shaft, Ballscrew Hardening

產品說明：

1. 臥式感應加熱設備，適用於各式工件加工製程，如滾珠螺桿、圓棒材等工件。適用工件尺寸：直徑 16~150mm、長度 800~7000mm 之棒材工件
2. 工作台：配備NC控制器或人機介面可依客戶指定品牌。使用滾輪及伺服傳動並使用抑制變形裝置達到熱處理之高精度及高穩定性。
3. 包括高周波主機，工作台，內循環水冷卻系統，淬火液冷卻系統四部份。
4. 工作站使用油氣壓及伺服驅動系統，達到高精度自動化。
5. 內循環冷卻系統方面須配合熱處理工件需求，以密閉循環方式達到精確穩定的冷卻系統，設計水箱容量(125~1000L)。熱交換器(200000~800000)BTU，PUMP(3~10HP)，全機SUS配管，達到水源管路不塞的目地。
6. 淬火液冷卻系統：配合工件淬火液冷卻需求設計循環水槽容量(500~2000L)，熱交換器(200000~600000 BTU)，PUMP(3~10HP)等，並有濾氧化鐵粉，濾油，恆溫溫度控制等自動功能。

Product Description:

1. The horizontal induction heating equipment is suitable for various parts, such as ballscrews and round bars, etc. Applicable bar sizes are 16-150 mm. in diameter and 800-7,000 mm. in length.
2. TABLE: Equipped with NC control or touch-sensing screen. Control brands may be specified. Employs roller and servo drive combined with the use of deformation control to achieve high accuracy and high stability heat treatment.
3. The machine consists of a high frequency power unit, table, internal circulated water cooling system and a quench cooling system.
4. The work station employs a hydraulic/ pneumatic system and servo drive system to achieve high accuracy and automated operation.
5. The internal circulated cooling system should meet the requirements of the workpiece. An enclosed circulation system will achieve accurate and stable cooling performance. Water tank capacity is 125~1,000 L. Heat exchanger 200,000 ~ 800,000 BTU. Pump (3-10HP). All pipes are manufactured from SUS material for rusting-free and no jamming in circuit.
6. The quench cooling system is designed to meet the requirement of workpiece. The circulated coolant tank capacity is 500~2,000L. Heat exchanger 200,000 ~ 600,000 BTU. Pump (3-10HP). The cooling system can filtrate oxidized iron powder and oil and features constant temperature control.