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PTL-250

Plasma Torch Lifter & SENSOR Software

DESCRIPTION:

The PTL-250 plasma torch lifter is controlled by the Hypertherm SENSOR™ plasma torch height control software that is integrated into Hypertherm® CNC controls. Together the AC servo driven ball screw lifter and the SENSOR software deliver a full featured precision plasma torch height control system specifically designed to work with Hypertherm plasma systems.

Off-line programming software such as Hypertherm ProNest creates CAM files that control torch height control process parameters with embedded code.

The machine operator may also manually select Material Type, Process Current, Plasma/Shield Gas and Material Thickness from the CUT CHART screen to dynamically set process parameters. The CNC control retrieves cutting parameters from factory Look-Up Tables stored within the CNC control. All plasma process parameters are set and automatically maintained during the cutting cycle.

SENSOR SOFTWARE FEATURES:

- Initial Height Sensing using:
 - Ohmic Sensing
 - Position Error Stall Detection
- Software sets:
 - I.H.S. - Yes/No
 - I.H.S. start height
 - Transfer height
 - Pierce height
 - Pierce delay
 - Cut height delay
 - Puddle jump height
 - Creep time
 - Cut height
 - AVC delay
 - Arc voltage
 - Retract height after cut

PTL-250 PLASMA LIFTER FEATURES:

- Maintains torch to plate height via voltage regulation
- Ball screw drive with linear guide
- AC Servo Motor 600 watt (.8 HP)
- 1,000 IPM positioning speed
- 160 mG acceleration rate
- 10" lifter stroke
- Torch magnetic collision mount included

TYPICAL APPLICATIONS:

- Precision plasma cutting



PTL-250 lifter