

RETRO SYSTEMS

SENSOR™ Torch Height Control Software & RSVS-150 Lifter

SENSOR™ plasma torch height control software is tightly integrated into Hypertherm® CNC controls. Together they deliver a full featured precision plasma torch height control system specifically designed to work with Hypertherm plasma systems. **SENSOR** will significantly increase the productivity and profitability of your shape cutting operation.

The machine operator selects Material Type, Process Current, Plasma/Shield Gas and Material Thickness from the CUT CHART SCREEN. 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 PARAMETERS:

- Pierce height
- Transfer height
- Pierce time
- Cutting height
- Cutting voltage
- Retract height after cut

PLASMA CUT CHART SCREEN:

Plasma 1 Cut Chart - Rev A

PowerMax1650 - Process Selection

Material Type: Mild Steel

Process Current: 60A

Plasma / Shield: Air / Air

Material Thickness: 10GA

1/4"
3/8"
1/2"
5/8"
3/4"

Cutoff Setting: 80 psi

Cut Speed: 211 ipm

Kerf: 0.07 in

Net Arc Current: 60 amps

Net Arc Voltage: 134 volts

Cut Height: 0.1 in

Pierce Height: 150 % 0.15 in

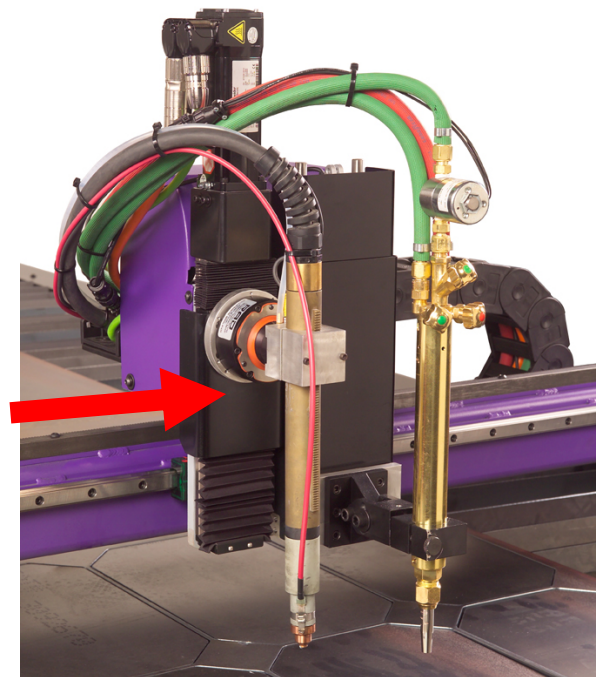
Pierce Time: 0.1 sec

Creep Time: 0 sec

11:20:45 AM

Cancel Help OK

Save Process Reset Process Save Cut Charts Load Cut Charts Change Consumables



RSVS-150 plasma torch lifter

Selection of Material Type, Process Current, Plasma/Shield and Material Thickness automatically sets and maintains all torch height control parameters during the cutting cycle.

RSVS-150 Lifter Features:

- Sets Initial Pierce Height and maintains torch to plate height during cut via voltage regulation
- Height Sensing using Ohmic or Position Error Stall Detection
- Ball Screw Drive with Dual Linear Guides
- 600 Watt AC Servo Motor
- 600 IPM (15.2m/min) positioning speed
- 6" (150mm) stroke travel for torch positioning
- 50-210 VDC Arc Voltage Range in 1 volt increments
- RAD Pneumatic plasma torch collision mount – optional
- Lifter dimensions (without RAD plasma mount): H 19" (480mm); W 3.5" (89mm); D 2.0" (50mm)
- Lifter dimensions (with RAD plasma mount): H 19" (480mm); W 3.5" (89mm); D 5.0" (127mm)

Typical Applications:

- Light and Medium Duty Conventional plasma cutting