

*Super*  
**HORNET**





## SUPER HORNET

- Available in 5 ft, 6 ft, 8 ft, 10 ft 12 ft widths
- Lengths of over 60 ft can be supplied

### TYPICAL END USER TYPE:

- Machine manufacturer / Laser shop / Job shop

### TYPICAL PRICE RANGE:

- \$130,000 plus

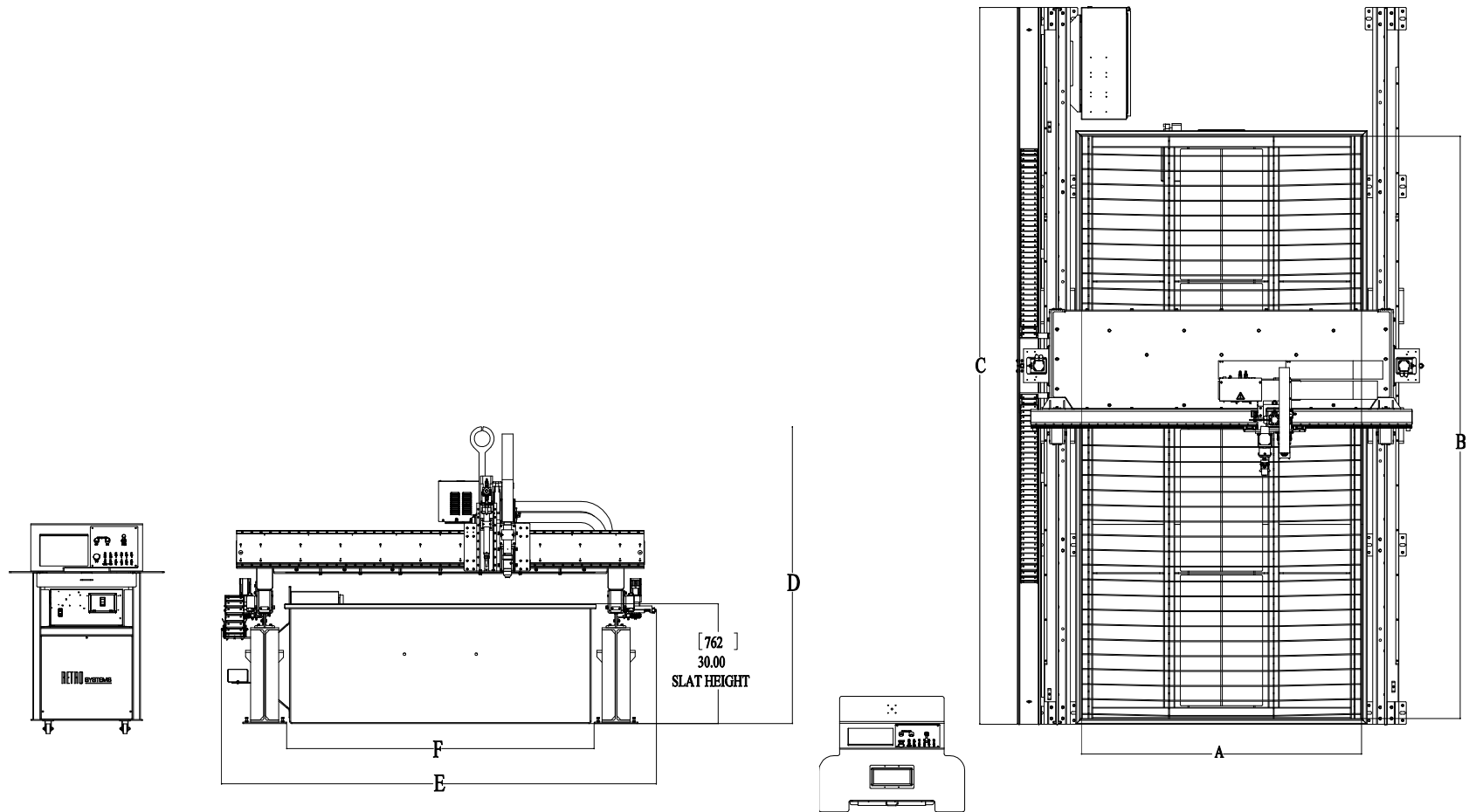
### FEATURES:

- **(4) Axis SERCOS** Fiber Optic Drive Control Interface
- **Hypertherm** CNC Control with **Phoenix** CNC software - Remote Pedestal or Machine Mounted
- Structural "I" Beam Rail Support System
- Dual Linear Ways on Cross Axis
- Triple Machined and Flame Hardened Tee Rail for main rail axis
- SENSOR-5 Plasma Torch Height Control Software
- RSVS-5 Plasma Torch Lifter with RAD Plasma Collision Mount
- AC Digital Drive Amplifiers and 1,200 Watt Servo Motors
- Planetary gear heads (5 arc minute)
- 1,000 IPM contouring & 1,200 traverse speed
- Flexible Cable Carriers for All Cables and Hoses

### OPTIONS:

- (1) or (2) Plasma systems (Conventional or High Definition)
- (1) or (2) motorized Oxy-fuel torch stations
- Basic or Heavy Duty Hi/Low Pre-Heat Oxy-fuel Gas Manifold
- Zoned & Ducted Center-Draft air exhaust table & Dust Collection Systems
- Water Tables with Adjustable Water Level
- Wireless Remote Transmitter
- Light Stick
- MTC Nesting Software





**MACHINE SPECIFICATIONS**

Positioning accuracy +/- .005" (.127 mm) \*

Repeatability +/- .001" (.025 mm) \*

\* Measured in a 60" x 60" area (1.5 m x 1.5 m)

	<b>5ft</b>	<b>6ft</b>	<b>8ft</b>	<b>10ft</b>	<b>12ft</b>
Effective Cutting Width – (A)**	60" (1.5 m)	72" (1.8 m)	96" (2.4 m)	120" (3.0 m)	144" (3.6 m)
Effective Cutting Length – minimum (B) ***	156" (3.9 m)	–	–	–	–
Overall Machine Length – minimum (C)	192" (4.8 m)	–	–	–	–
Overall Machine Height – (D)	75" (1.9 m)	–	–	–	–
Overall Machine Width – (E) ****	97" (2.4 m)	109" (2.7 m)	142" (3.6 m)	166" (4.2 m)	191" (4.8 m)
Width Between Rails – (F)	65" (1.6 m)	77" (1.9 m)	107" (2.7 m)	131" (3.3 m)	155" (3.9 m)
Remote CNC Console Dimensions	52.56" H x 39.00" W x 30.88 D, 40.56" Desk Height, (1.3 m x 990 mm x 784 mm, 1.0 m)				

Rail Height 27.5" (698 mm)

\*\* The number of tools on the master carriage affects actual effective cutting width. Verify your application with factory before ordering.

\*\*\* Machines are available in 10, 12, 20, 24, 32, 36, 40 and 44 ft. effective cutting lengths. Consult factory for lengths over 44 ft.

\*\*\*\* Add 34" if the machine has a Machine Mounted CNC Controller

Maximum Contouring Speed	1,000 IPM (25.4 m/min)
Maximum Traverse Speed	1,200 IPM (30.4 m/min)
Maximum Number of Tool Carriages	(2) Total - (1) Master & (1) Slave Carriage
Maximum Number Plasma Stations	(2)
Maximum Number Oxy-fuel Stations	(2)
Recommended Air Plasma Systems	Hypertherm® Powermax1000, 1250 or 1650
Recommended Oxygen Plasma Systems	Hypertherm® HSD130™, HT2000™
Recommended High Definition Plasma Systems	Hypertherm® HPR130™, HPR260™, HPR400XD™
Maximum Plasma Production Capacity	2" (50mm)
Maximum Oxy-fuel Production Capacity	3" (75mm)
Input power – Machine Servo Drive Amplifiers	480 VAC 3 Phase, 20A dedicated circuit
Input power – CNC Control	115 VAC 1 Phase, 20A dedicated circuit
Input power – Plasma	Refer to Plasma Manufacturer's Manual





Structural "I"  
Beam Rail  
Support System

Remote Pedestal  
CNC Control  
Console



Front View of SUPER HORNET



Remote Pedestal  
MicroEDGE



Machine Mounted  
MicroEDGE





Remote CNC Console





### Programmable Wireless Remote Control

- Plasma START/STOP
- Plasma Torch #1 UP/DOWN
- Oxy Torch #1 UP/DOWN
- All Torches UP/DOWN
- Machine JOG (all directions)
- FORWARD / BACK UP on Path
- MODE Change (CUTTING / MOVE)





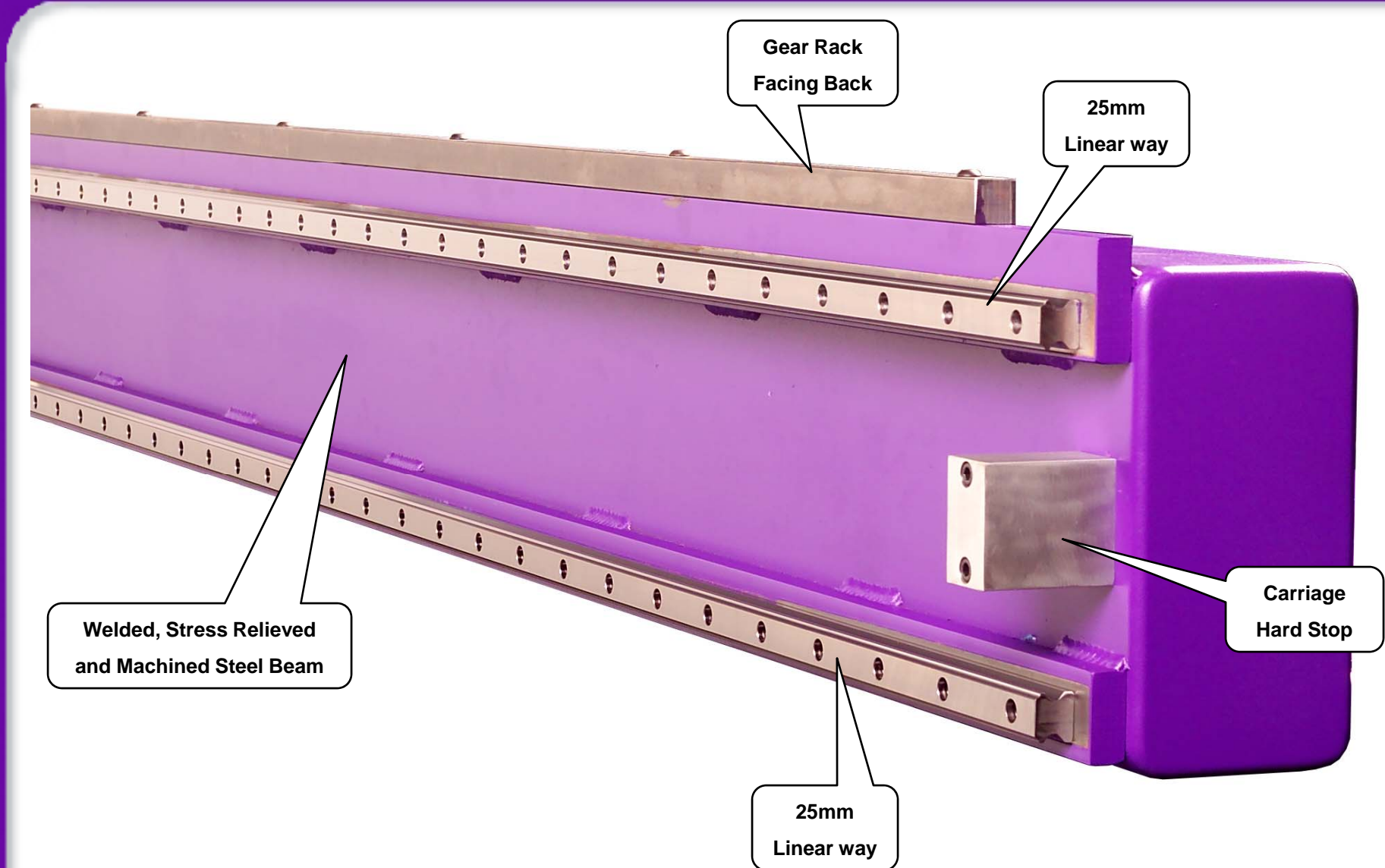
Structural "I"  
Beam





**Structural Beam  
Rail Support  
7" x 24"**





Welded, Stress Relieved and Machined Steel Beam

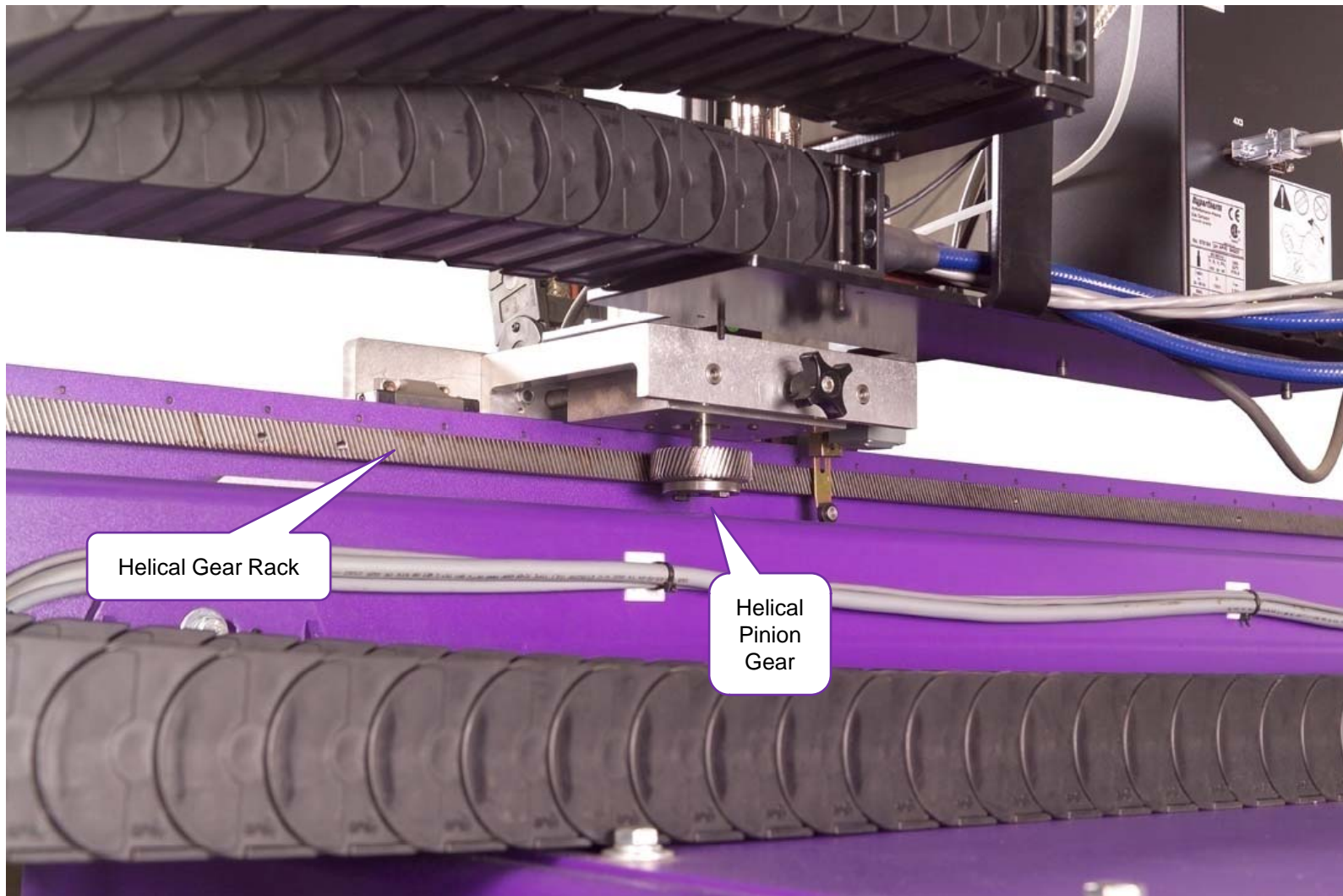
Gear Rack Facing Back

25mm Linear way

25mm Linear way

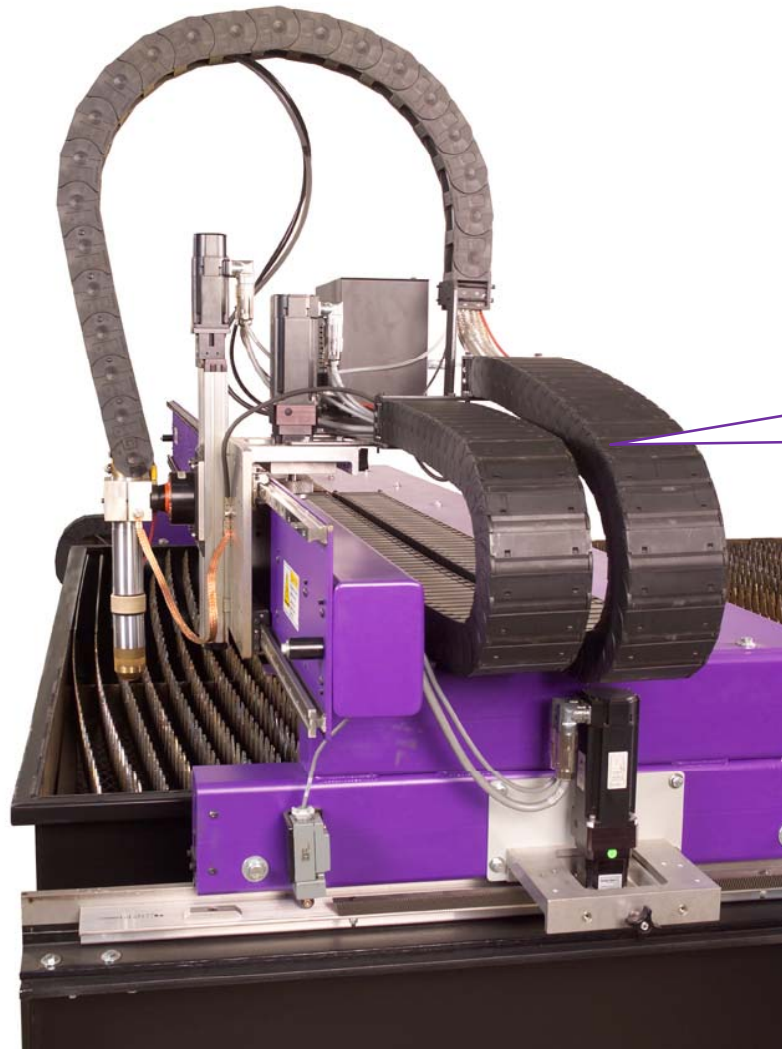
Carriage Hard Stop





Back Side of Cross Axis Beam, Helical Gear Rack, Helical Pinion Gear and Motor Mount

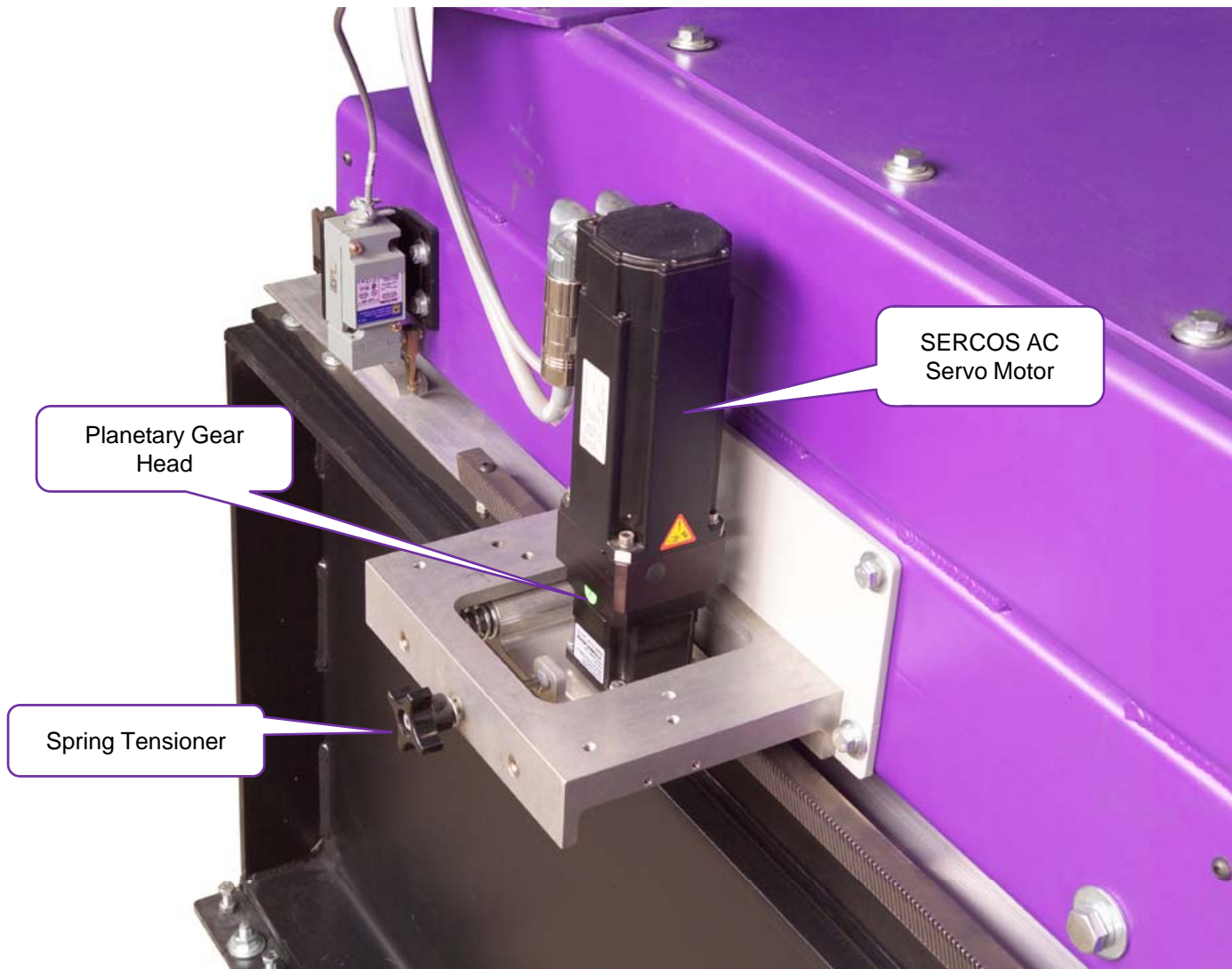


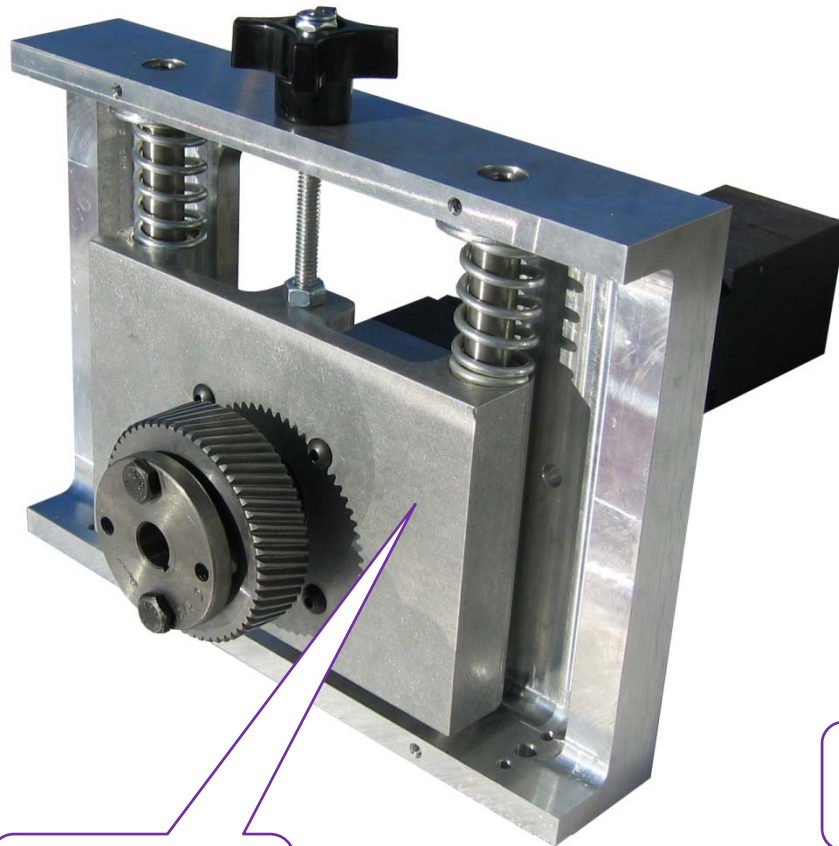


Dual Cross  
Axis Enclosed  
Cable Carriers

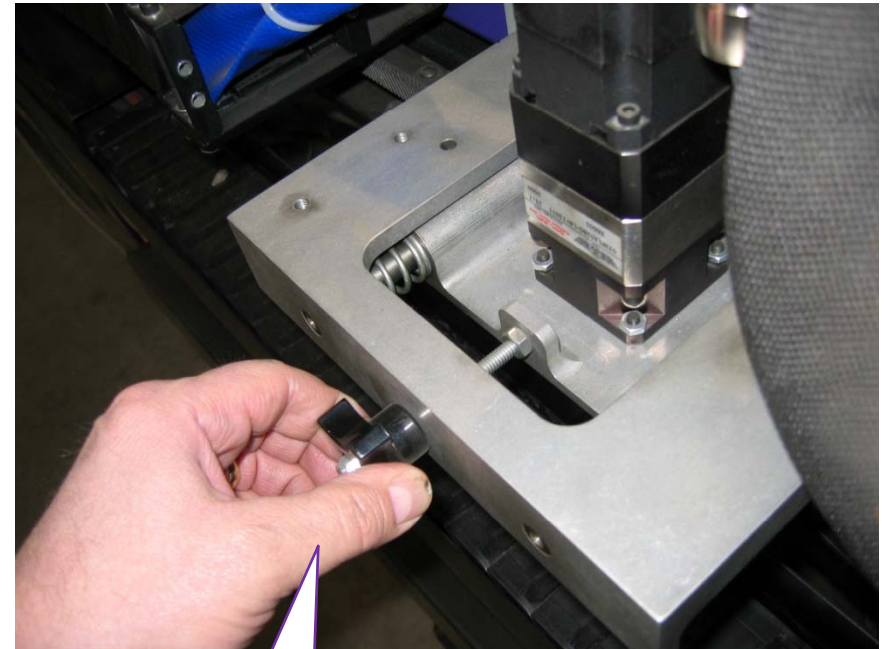
Cross Axis Beam and End Truck



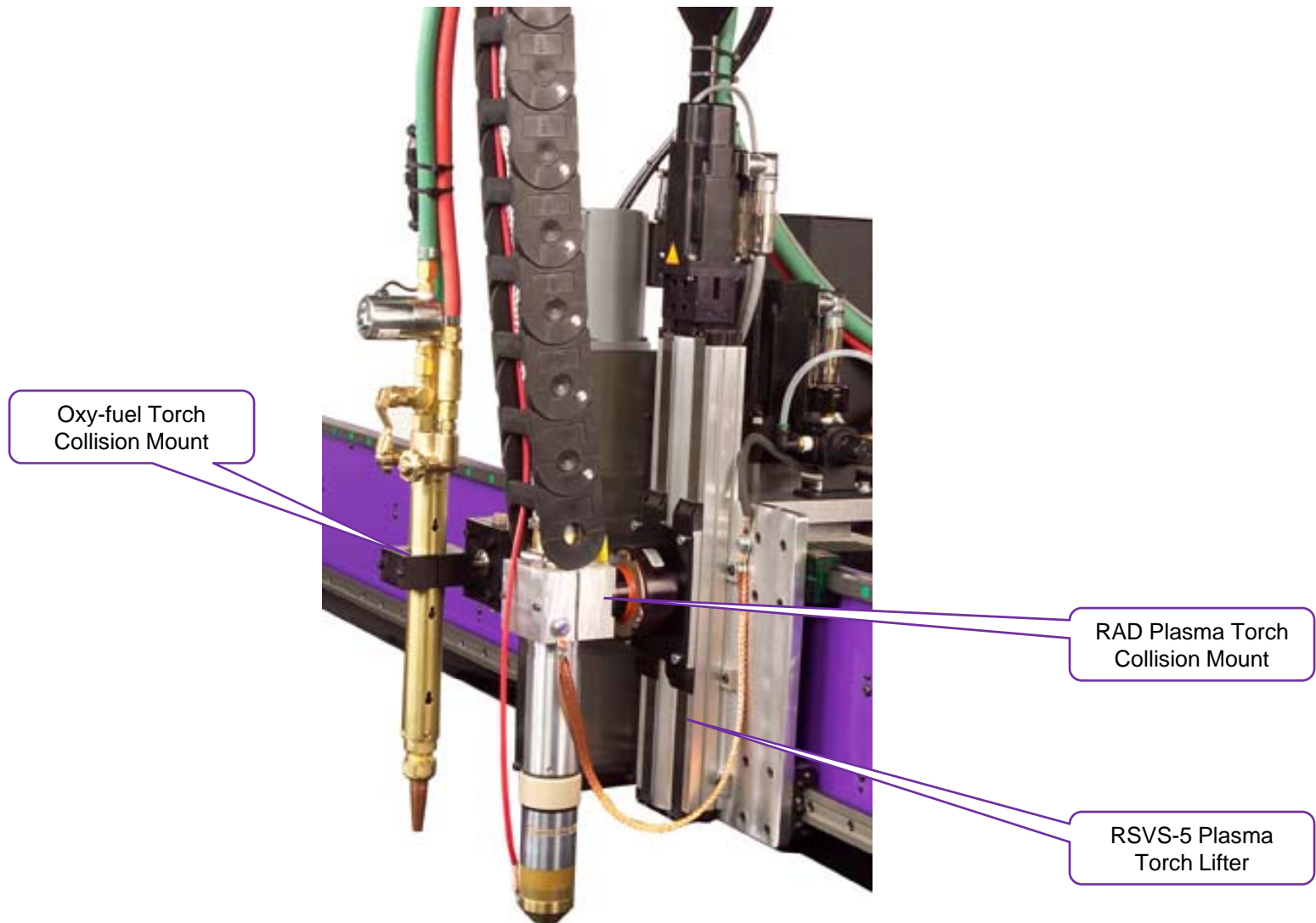




Factory Pre-Set  
Spring Loaded  
Servo Motor  
Mount



Adjusting Knob is backed off  
completely to set tension



Master carriage with (1) oxy-fuel torch and (1) HPR plasma torch





Plasma Collision Mount



Micro Air RP8-2

Frequency Drive for Collector Motor

Solenoid Cluster for Air Table Zones

Zoned Air Table and Collector



Thank you

