



# Viper

**Hypertherm**<sup>®</sup>  
True Hole Capable Machine

## Heavy Duty Precision Plasma & Flame Cutting

Viper machines are heavy duty workhorses and can be specified for virtually any application. Available in cutting widths from 1.5m to 6.5m and with virtually any cut length, up to 8 plasma or oxy-fuel cutting torches can be fitted for the highest production capability. Viper machines are constructed from precision fabricated & machined components and are fitted with powerful digital AC brushless drives, machine tool grade linear bearings and direct drive rack and pinion transmissions for precision contouring performance. These machines are suitable for precision cutting in the most demanding of applications.



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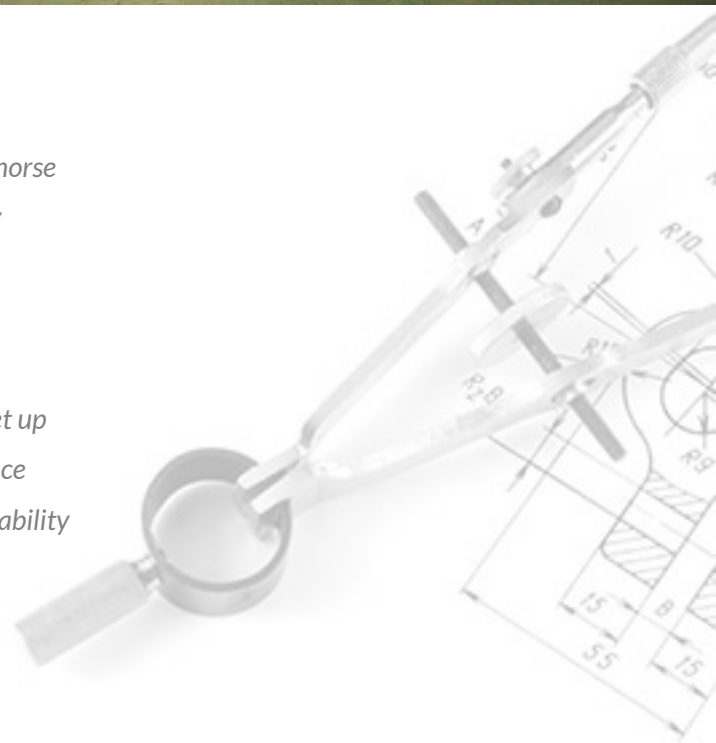


# Viper



## Design Features

- ✔ Heavy duty fabricated & machined construction ...*Tough workhorse*
- ✔ Multiple plasma & flame torch options ...*Maximum productivity*
- ✔ Low profile floor mounted rails ...*High stability & accessibility*
- ✔ Sizes available to suit any application ...*Flexible*
- ✔ Overhead cable chain handling ...*Ease of access*
- ✔ Laser pen pointer for plate positioning and alignment ...*Easy set up*
- ✔ Powerful digital AC brushless drives ...*High dynamic performance*
- ✔ Direct drive rack and pinion transmissions ...*Accuracy & repeatability*
- ✔ Ball screw digital torch height control ...*Best cut quality*
- ✔ Unique perimeter safety system ...*Safe working area*
- ✔ Hypertherm True Hole capable ...*The best plasma cut holes*



## Viper Applications

- |                            |                                   |                           |
|----------------------------|-----------------------------------|---------------------------|
| ✔ Steel service centres    | ✔ Skip & waste handling equipment | ✔ Large fabrication       |
| ✔ Machinery manufacture    | ✔ Wind farm tower manufacture     | ✔ Agricultural machinery  |
| ✔ Ship building            | ✔ Offshore infrastructure         | ✔ Fork truck manufacture  |
| ✔ Yellow goods manufacture | ✔ Mining equipment manufacture    | ✔ HGV trailer manufacture |



# Engineered For Heavy Duty Applications By Experts

## EDGE Pro CNC

The EDGE Pro CNC incorporates all the latest technology for optimised machine performance and ease of use. The fibre-optic digital on-machine network ensures the very best contouring performance for accurate parts. The intuitive user interface via the 15" colour touch screen and on-screen wizards allow even inexperienced operators to achieve great results. Closely integrated with the HPR XD plasma systems, the EDGE Pro exploits plasma's full potential.



## HyPerformance HPR XD Plasma

HyPerformance Plasma cuts fine feature parts with superior quality and consistency, virtually eliminating the cost of secondary operations. Available in four sizes, the HPR XD plasma cutting systems cover all applications. Cutting mild steel, stainless steel and aluminium from gauge to 50mm and beyond, the HPR XD units produce high quality, consistent results over the life of the consumables. HyPerformance plasma delivers unprecedented cutting speed & quality.



Viper machines are heavy duty workhorses and can be specified for virtually any application. They are constructed from precision fabricated & machined components and are suitable for precision cutting in the most demanding of applications.



The precision gearboxes fitted to Viper machines are mounted on twin linear bearings for smooth and precise power transmission.



As standard, Viper machines are fitted with the unique Esprit perimeter safety system to protect workers. All Esprit machines are fully CE marked.



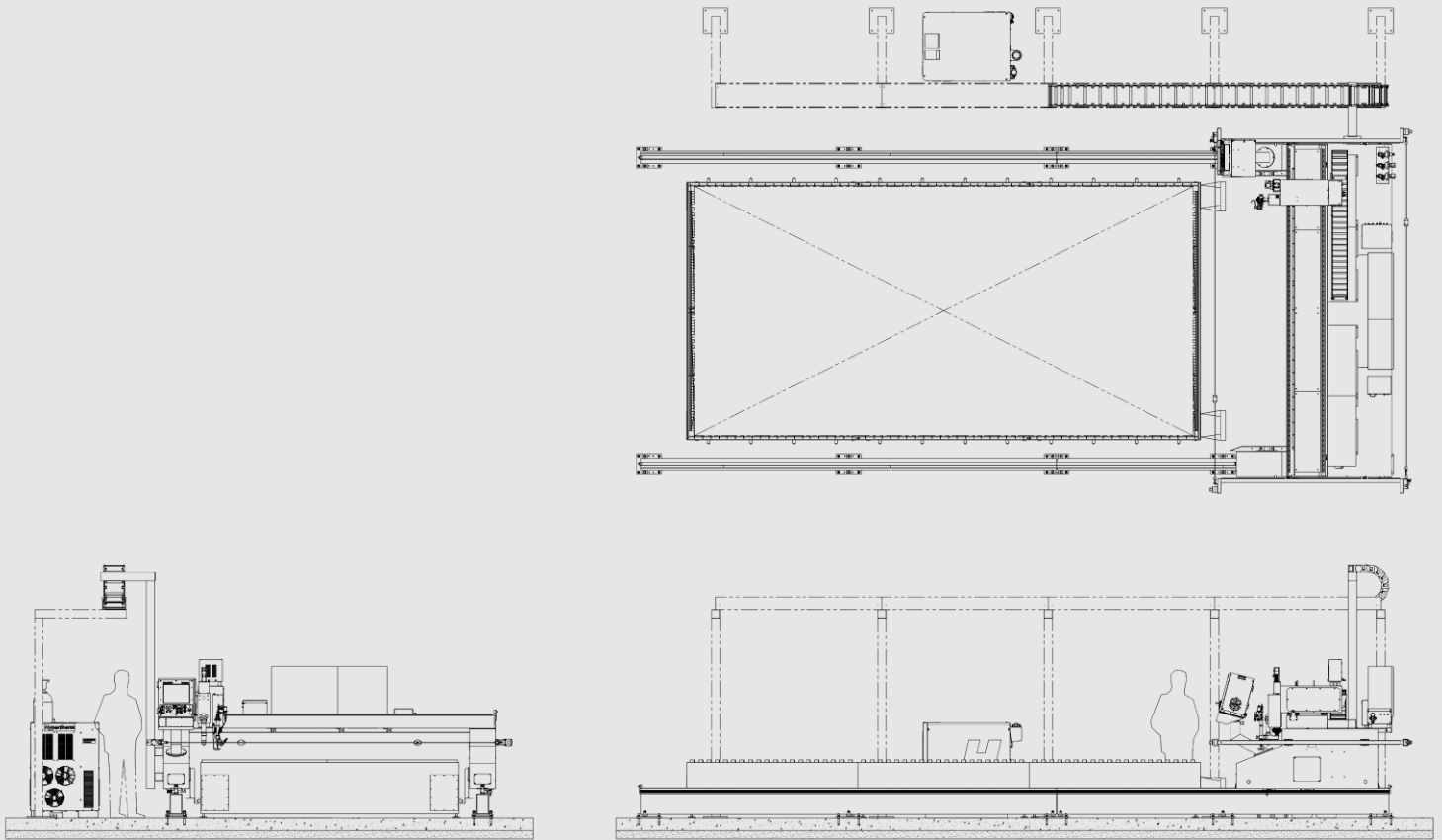
Larger Viper machines have an even heavier construction. Specialised cutting tables ensure a clean working environment even on very large machines.



Plate marking for part numbers, bending lines or marking out for assembly is available on the Viper; Arc marking or Pin-matrix marking are available.

## Viper Machine Options

- ✓ HPR130XD - 16 mm dross free mild steel cutting
- ✓ HPR260XD - 32 mm dross free mild steel cutting
- ✓ HPR400XD - 38 mm dross free mild steel cutting
- ✓ HPR800XD - 160 mm stainless steel cutting
- ✓ Full range of Hypertherm plasma
- ✓ Oxy-fuel flame cutting - 300 mm
- ✓ Bed sizes 3 x 1.5 m to 50 x 6.5 m
- ✓ Up to 8 cutting torches
- ✓ High speed pin matrix marking
- ✓ Procut CAD/CAM software



## DESIGN SPECIFICATIONS

Nominal Cut Width	As per machine denomination (e.g. Viper 1500 = 1,500 mm)
Nominal Cut Length	Variable in 1,000 mm increments
Rail Length	Nominal Cut Length + 3,000 mm
Overall Width	Nominal Cut Width + 1,393 mm
Overall Length	Nominal Cut Length + 3,413 mm
Overall Height	3,008 mm (with Overhead X Axis Cable Chain) 1,908 mm (with Floor Mounted X Axis Cable Chain)
Maximum Traversing Speed	20 m/min

## POWER REQUIREMENTS

Input Voltage ( $U_1$ )	415 V / 3 Ph / 50 Hz / Earth / Neutral
Input Current ( $I_1$ )	6 - 9 A
Input Power ( $U_1 \times I_1 \times \sqrt{3}$ )	4.3 - 6.5 kVA
Recommended Fuse Size	16 A
Recommended Cable Size	2.5 mm <sup>2</sup> 5 core SY Control Flexible Cable



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