

# Plasma Cutting Machines

## Plasma-Jet TrueCut 2040 H

**SKU : 144015**

The machines of the Plasma-Jet TrueCut H-series are highly specialized cutting systems for the production or individual production of complex parts. This series is designed for high loads in multi-shift operation and is equipped with the latest Hypertherm technology and high-quality components. The extensive optional equipment enables versatile, tailor-made solutions for specific customer requirements. For example with several torches, oxy-fuel cutting heads, miter cuts or pipe processing units.

- Independent table for high accuracy
- Powerful ProNest LT nesting software for optimised production
- Customised for the use of HYPERTHERM plasma sources (option)
- High productivity, designed for multi-shift operation
- Extensive options for customised solutions



### TECHNICAL SPECS

#### WORKING AREA

Cutting width	2000 mm
Cutting length	4000 mm
Table height	700 mm
Table load capacity	520 kg/m <sup>2</sup>
Rapid feed	18000 mm/min
Plasma source	Hypertherm

#### MEASURES AND WEIGHTS

Weight	4100 kg
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*Quick-coupling for cutter head*



*Dust vacuum and filter system available as optional equipment*



*EDGE® Connect is the latest CNC platform by Hypertherm featuring superior reliability, powerful integrated functionality, and is highly customizable*

## PRODUCT DETAILS

### Construction

- Stand-alone cutter table features rigid steel construction for high load capacity
- Stand-alone table eliminates thermal and mechanical influences on the plasma cutter system
- Table is prepared for dust collection system, being equipped with electro-pneumatically actuated suction flaps for an efficient fume extraction of the segment where the cutting process is momentary in action

### Transmission and drives

- Dynamic AC servo drives from Panasonic on all axes with maintenance-free, zero-backlash planetary gears
- Low-wear and low-maintenance helical gears are designed for continuous operation
- Linear guide ways from on all axes, designed for long life and smooth motion even at high speeds. The width of linear guides on X/Y axes is 20/30 mm
- The structure of the machine and the selection of components are designed to enable multi-shift operation

### Cutting head

- Z axis with ball screw transmission and servo-driven automatic torch height control
- Quick-coupling for cutter head allows quick head exchanges for reduced tooling time
- Use the existing cutting parameters stored in the control to find the optimum cut
- Optimum bed speed even for fine contours and tight radii
- Available with 5-axis cutter head, tube cutter, and many more options

### Control

- CNC controller from Hypertherm - Edge CONNECT
- The ProNest LT Software is delivered as standard.

### Please select the plasma source with the required power.

- Maxpro 200 (cutting capacity in unalloyed steel: Virtually burr-free cutting capacity 20 mm, plunge-cut capacity (production) 32 mm, severing cut\* 75 mm)
- XPR 170 (cutting capacity in unalloyed steel: Plunge cut max. 40 mm, severing cut max. 60 mm)
- XPR 300 (cutting capacity in unalloyed steel: Plunge cut max. 50mm, severing cut max. 80 mm)

**Note: All specified cutting and piercing depths are dependent on the material as well as the cutting technology and guide system**

## CONTROLS & SOFTWARE

### Hypertherm Edge Connect CNC-Unit

### Hypertherm EDGE® Connect

- EDGE® Connect, Hypertherm's newest Computer Numeric Control (CNC) platform, delivers unmatched reliability, powerful embedded capabilities, and a high level of customizability
- With Patented CutPro® Wizard, even new operators can be cutting production parts in less than five minutes
- On-screen Software Operator's Console (Soft OpCon) allows easy setup and operation of cutting station and manual motion
- Integrated communications with plasma and torch height control systems deliver automated and expert control using installed factory or custom cut charts
- Custom cut charts can be created and controlled in the part program or made available to the CutPro Wizard
- EDGE Connect runs on the Windows® 10 Enterprise operating system

### Phoenix® built-in software

- Phoenix® software is the core operational interface and is common across the entire Hypertherm family of CNC systems
- Contains built-in cut charts for automatically setting process parameters for mild steel, stainless, and aluminum to enable consistently optimized cutting performance
- The wizards and diagnostic support tools enable easy setup, use and rapid troubleshooting
- Built-in help and cutting optimization tips for improving table performance and process outcomes at the touch of a button

## STANDARD EQUIPMENT

Table prepared for filter system (automatic closure control )  
Panasonic Servomotors and drivers  
Automatic burner height control with Hypertherm THC sensor  
Cutting torch with magnetic coupling and crash sensor  
Hypertherm Edge Connect CNC-Unit  
19" touchscreen by ELO  
Ethercat-E  
Laser pointer  
ProNest LT

## OPTIONAL EQUIPMENT

- Oxy-fuel cutter head, SKU : 251915
- Additional tube support, SKU : 253401
- 1 meter extension for tube cutting, SKU : 253402
- Manual bevel device for cutting head, SKU : 253404
- XPR 170 Core Plasma source, SKU : 253407
- XPR 170 Optimix Plasma source, SKU : 253409
- XPR 170 VWI Plasma source, SKU : 253408
- XPR 300 VWI Plasma source, SKU : 253411
- XPR 300 Core Plasma source, SKU : 253410
- XPR 300 Optimix Plasma source, SKU : 253412
- Plasma-Jet H Softwareoption Common Line Cutting, SKU : 253414
- Plasma-Jet H Softwareoption Collision Avoidance, SKU : 253415
- Plasma-Jet H Softwareoption Chain and Bridge Cutting, SKU : 253416
- 5 axis bevel cutting for Hypertherm systems, SKU : 253418
- Tanaka oxy-fuel cutter head, SKU : 253592
- Square adaptor for square tube cutter unit on Plasma-Jet, SKU : 253651
- Tube cutting system 6.000 mm for Hypertherm systems TrueCut, SKU : 253419
- Tube cutting system 3.000 mm for Hypertherm systems TrueCut, SKU : 253420
- Maxpro 200 Plasma source, SKU : 253406
- Plasma-Jet filter extraction system 4.000 m3/h, SKU : 253397
- Plasma-Jet H Softwareoption ProNest, SKU : 253413
- Plasma-Jet filter extraction system 6.000 m3/h, SKU : 253398
- Starter set MaxPro200, structural steel, oxygen, SKU : 254154
- Starter set MaxPro200, structural steel, compressed air, SKU : 254155
- Starter set MaxPro200, N2 steel/aluminum, SKU : 254156
- XPR 460 Core Plasmasource, SKU : 254250
- XPR 460 Core Plus Plasmasource, SKU : 254251

- XPR 460 VWI Plasmasource, SKU : 254252
- XPR 460 Optimix Plasmasource, SKU : 254253



## KNUTH on YouTube

### Information to the point

On our YouTube channel you can find videos for nearly all machines from our program. We show the machines from current deliveries and you get an impression of the handling, the processing quality and the machining performance.

**Are you interested in a machine for which you cannot find a current video?**  
**Please feel free to contact us!**