



Plasma Cutting Systems

TFGM Plasma 1010 • 2010 • 3015

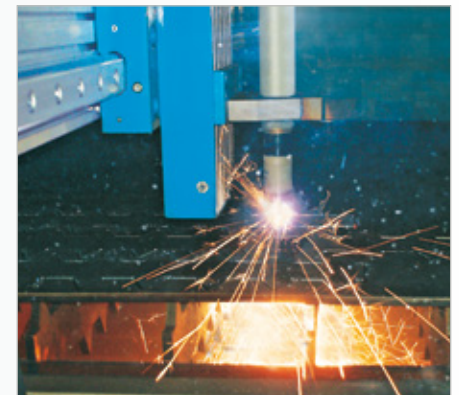
Unbeatable low price for thin sheet steel machining

Hypertherm Powermax 1650

- user-friendly CNC control
- cutting table with vacuum connector
- hinged splatter guard around the cutting area
- space-saving design



TFGM Plasma

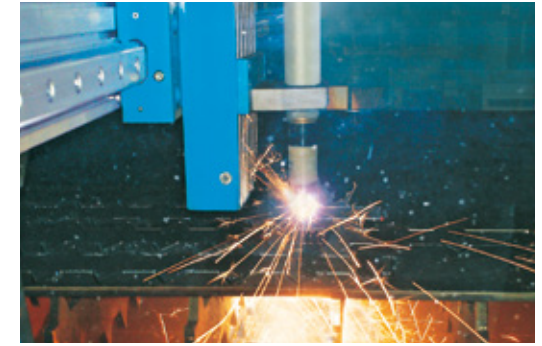


www.knuth-usa.com



Low-cost compact Plasma Cutter System, including cutting table, premium plasma source, collection tank and ready for the connection of a smoke exhaust

- high-resolution step motors with planetary gears for exact positioning and high repeatability
- robust gear drive for travel speeds up to 472" /min
- cost-effective air plasma cutter for structural steel, stainless steel, aluminum, etc.
- linear guides on all axes
- X axis with drives on both sides
- Opticut-CNC 4.4 Software Package
- includes Hypertherm Powermax 1650
 - quick and low-cost with advanced technology
- ready for connection to an exhaust system (not included)
- bridge height: 5.5"



TFGM Plasma 3015 shown



Specifications TFGM Plasma	1010	2010	3015
Working Area	41 x 41 "	81 x 41 "	120 x 41 "
bridge height	5.5 "	5.5 "	5.5 "
rapid feed	472 "/min	472 "/min	472 "/min
max. feed	354 "/min	354 "/min	354 "/min
max. cutting capacity (edge start) St. 37	1 "	1 "	1 "
production capacity (plunge cuts)	0.5 "	0.5 "	0.5 "
air requirement	300 l/min	300 l/min	300 l/min
min. pressure	116 psi	116 psi	116 psi
connections - exhaust			
Z axis / basin	150 / 150 Ø/mm	150 / 150 Ø/mm	150 / 150 Ø/mm
connected load (machine, without plasma source)	5.4 Hp	5.4 Hp	5.4 Hp
dimensions	83 x 64 "	122 x 94.5 "	161 x 94.5 "
weight	1110 lbs	1770 lbs	3420 lbs
Part No.	141 780	141 782	141 784

Standard Equipment

- CAM System Opticut CNC, 173.2" cable for connecting to customer provided PC (prerequisites: Windows 98 / XP, USB port)
- plasma source Powermax 1650
- machine torch
- ground wire
- basic set of nozzles
- work table with vacuum connection
- partially enclosed workspace
- operating manual and programming instructions

Plasma Source

Powermax 1650

Plasma Units for cutting and gouging of metal

PLASMA SOURCE

Specifications Hypertherm	Powermax 1650
power	40 Hp
line voltage	200 - 600 V
cutting current	30 - 100 A
cutting capacity	
production/dividing	0.7"
speed (at 12 mm)	57" /min

Standard Equipment

- machine torch
- ground wire
- basic set of nozzles



Machine torch



CAM - System

Opticut CNC

The Opticut Control Software allows selection of 4 stepper motor axes via the USB port directly from a laptop. An advanced graphic user interface provides quick access to many tasks, like milling, drilling, foil cutting, engraving, scanning, plotting and digitalizing. The machine area is represented by the CAD-like user interface of the Opticut Software. From this area, all elements can be displayed, like drawing data, workpiece, zero point, park position, or measuring position. Minimum hardware and software requirements for Opticut are listed below:

- Operating system: Windows 98/ME/2000/XP
- Microsoft. Net Framework V1.1 and Microsoft Internet Explorer 5.01
- Microsoft Managed DirectX 9 or higher for Joystick
- Pentium 400MHZ Processor or higher (or equivalent equipment)
- CD-ROM drive
- RAM: 64 MB
- Hard drive: 40 MB free disk space
- Controller SMC4D

Opticut CNC 4.4 Features

- automatic homing
- zeroing
- park position
- spindle with automatic start/stop
- control for automatic cooling spray (optional)
- control for height scanning (optional)
- incremental machining for deep immersion depths
- automatic tool radius compensation, inward and outward
- selective machining sequence
- tool management
- cutting time determination
- Import of HPGL.PLT, DIN 66025, .DXF, .EPS and .AI files