

CNC plasma cutting machine MultiTherm• S 5000, second-hand

Year of manufacturing - 2008

Working area: 3500 mm x 14000 mm

Global Control

Advanced technology - high reliability- easy use

- multi-tasking
- modern fully network compatible PC-based control unit
- clear and intuitive operator interface with Windows
- context dependant keyboard layout and user interface
- easy understandable pictograms
- easily learnt
- multi-lingual user interface (can be switched online)
- robust components according to standard industry level
- optimised processes

Extract of the function list:

- restart cut after "mains off"
- automatic fault display
- service/maintenance diagnostics
- macro data base with approx. 100 variable macros (extendable)
- graphic editing of the part programs
- graphic display of the part program with display of the current torch position and automatic zoom function
- dynamic zoom
- plate alignment compensation
- automatic rotation of the part-program after manual establishment of the actual plate position (not applicable for 2 plates side by side)
- nesting:
 - dxf-grafics
 - nc programs (option)
- DIN/EIA input format
- unlimited reversing
- programmable kerf compensation
- jump in program with/without movement (hole piercing point, line number)
- consumables and technology data base, display of:
 - consumables incl. part number
 - hole piercing cycles
 - cutting time
 - joblist

Technical data:

- operating system Windows XP Professional
- processor Pentium M 1,5 GHz or higher
- 20 GB hard disc part program memory
- TFT colour touch screen 15"
- USB port

- virtual keyboard (touch screen) for input
- integrated network card
- joystick for easy machine positioning
- dynamic handwheel
- bus system - digital data transfer
- uninterruptible power supply
- 20 reference points

network cable, 50 m

automatic setting of voltage from process data base, 1 pc.

automatic setting of current from process data base, 1 pc.

laser diode, 1 pc.

- for generating a precise light spot visible on the material surface
- mounted and aligned at the set offset on the transverse Drive carriage

drive up to max. 20 m/min AC, 3 pcs

- for higher positioning speeds
- AC servo motors
- drives with rack and pinion transmission
- high dynamic response for high productivity
- maintenance free

track for double-sided longitudinal Drive system for precise guidance and carrying of the machine carriage, 16 m

- sturdy track segments from precisely machined railway rails
- assembly parts for side and height adjustment

torch lifter OmniLift 200 S for motorised height adjustment of cutting and marking tools, pc.

- dust-tight casing
- maintenance-free
- lift 200mm
- speed 132 mm/s

ARC internat, 1 pc.

- arc voltage dependant height sensing
- torch voltage programmable set value from the CNC control (applicable)
- high cut quality through precise adjustment of the stand-off of the torch from the material

Initial height sensing with collision protection and anti-glare shield for dry plasma torch, 1 pc.

- device for automatic setting of the initial height of a plasma torch for vertical cutting in combination with a torch lifter
- mechanical holder, fast and precise replacement of the torch
- initial height sensing through nozzle contact (electrical triggering) or tactile (mechanical triggering)
- integrated collision protection with magnetically positioned torch holder
- with anti-glare shield to protect the operators from direct UV radiation when plasma cutting

- easy torch removal with no tools

HiFocus PLUS 280i compact finejet plasma cutting device for CNC-controlled precision cutting

- with consumable saving hole piercing device and consumable saving XL-Live-Time System
- with improved swirl gas technology for oxygen operation
- max. 15 m torch hose package
- set of consumables (starter kit)

HiFocus PLUS additional parts distance

- plasma gas adjustment units and ignition unit on the machine

HiFocus distance connection hose- and cable package, short

- between power source and ignition/gas console
- correction of length for different positioning of the power source may be necessary
- max. length —20 m

HiFocus PLUS automatic gas console

- 1 for gas O₂
- operating unit with automatic gas console
- adjustment of all gases by plasma gas valve unit
- display for the gas parameters and plasma operating conditions
- adjustment of the parameters by plasma gas control unit
- interface preparation for programmable transfer of the cutting data from the CNC control

Energy supply via facilities drag chain (plasma), 16 m

- depending on the plasma equipment single sided or in opposition running energy drag chain as long as necessary for the travel range of the machine; with machine power cable suitable for use in energy drag chain
- connection arm including connection pieces
- one chain is intended for the plasma hose-pack

OmniWin Standard is the programming software for the field of application in which technology does not yet require special consideration.

OmniWin Standard visually supports the multiple torch mode. For machines with automatic torch positioning, plans are generated which guarantee an automatic sequence of operations.

OmniWin Standard consists of the following modules:

- DXF/DWG import
- extensive drawing functions
- snap function for end point, tangent, quadrant etc.
- automatic fault correction of imported part drawings
- automatic deletion of double lines
- trimming of projecting contours
- automatic closing of open contours
- variable macros

fume extraction table system Pema

- the environment friendly fume extraction table system with equal pressure distribution

- sectional extraction chambers spaced at 500 mm
- high extraction capacity due to uniform pressure distribution in the area of the intake chamber
- work piece support frames to hold cutting bars, plate support grids etc.
- extraction duct with controlled flaps
- slag collectors
- compressed air service unit
- for max. material thickness 200 mm

extraction module 31/2120, 6 pcs.

- width— 3,100 mm
- length— 2,120 mm
- height— 700 mm

cutting bars for parts 31/2120/130, 6 sets

- for bars spaced at -130 mm
- max. material thickness — 200 mm

fine dust filter DFPRO 8 Cyclopeel, 1 pc.

- filter area 141,2 m²
- max. volume stream 5000 m³/h
- nominal output 11 kW
- dust buckets 50 l each

remote control, 1 pc.

- with 40 m connection cable
- for switching the filter on from the machine panel

fume extraction table interlock, 1 pc.

heat exchanger, 1 pc