



Plasma power source Q 3000



Human machine interface Q-Desk

Power Source

- Precise plasma cutting of all electrically conductive materials from 0.5 to 80 mm material thickness, dry and underwater cutting
- Recommended cutting range from 0.5 to 60 mm
- Maximum piercing thickness 50 mm
- Marking, notching and punching also of coated metallic materials
- Flexible use on 2D and 3D CNC guiding systems, i.e. CNC cutting machines, robots and pipe cutting machines
- Inverter power source with digitally controlled, fully electronic process flow
- Integrated cooling system with semi-automated filling and emptying

Connectivity

- Power source, gas control unit and torch connection unit communicate directly via CAN bus
- Process, diagnosis and forecast data of the components, e. g. remaining lifetime of electrical components, electric power and gas consumption, are available in the central control unit
- Two separate user interfaces:
 - Real-time bus system – communication via operating interface of the guiding system (EtherCAT)
 - Ethernet (LAN) – communication via any device or Q-Desk
- Remote access to the machine via secure VPN connection
- eService: process and failure analysis, profitability analysis
- Integrated process database, operating and maintenance manuals

Q-Desk

- Human machine interface which provides machine, process and consumption data visualised in diagrams
- Specially developed browser-based operating interface

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 contour cut

 contour cut
SPEED

silent CUT



Plasma torch Q-Torch



Plasma gas control units
Q-Gas und Q-Gas O₂

Technologies

- Q-Hole: hole cutting redefined regarding quality and speed
- Q-Mark: marking with excellent results without visible penetration
- Contour Cut: precise cutting of small contours, narrow webs, small radii and other geometries
- Contour Cut Speed: best cutting performance with highest cutting speed and good quality
- Silent Cut: cutting mild steel with reduced noise level

Plasma Torch Q-Torch

- High-performance plasma torch with quick-change head
- Quick-connect bayonet coupling, 120° opening angle
- Automatic torch shaft identification
- Effective torch cooling
- Short construction

Gas Control Units

- Fully automatic control, processor-controlled
 - Plasma all-gas console Q-Gas for cutting all metals
 - Plasma gas console Q-Gas O₂ for cutting mild steel
- Universally usable for all Q power sources
- Tailormade gas mixtures for all applications and technologies
- Excellent cutting and marking results
- Stable gas parameters for highest reproducibility
- Extended scope of action of up to 30 m

Technical Data

	Q 3000
Mains voltage*	3 x 400 V, 50 Hz
Max. connected load	72 kVA
Mains fuse, slow	125 A
Protection class	IP 21S
Open-circuit voltage	400 V
Cutting current (100 % duty cycle)	20 – 300 A
Marking current (100 % duty cycle)	5 – 50 A
Cutting range	
Recommended	0.5 – 60 mm
Maximum	80 mm
Piercing	50 mm
Plasma gases	O ₂ , N ₂ , Ar, H ₂ , F5 (95% N ₂ /5% H ₂), Air
Swirl gases	O ₂ , N ₂ , F5 (95% N ₂ /5% H ₂), Air
Marking gases	Ar, N ₂ , Air
Dimensions	1,100 x 690 x 1,430 mm
Weight	297 kg

*Voltage versions:

380 to 400 V, 50/60 Hz

415 to 440 V, 50/60 Hz

440 to 480 V, 50/60 Hz

Note. All listed cutting and piercing thicknesses depend on the material as well as the cutting technology and the guiding system.