

**Kjellberg**  
CUTTING

PLASMA CUTTING

Q-SERIES

**VISIBLY DIFFERENT**  
PLASMA CUTTING 4.0



## **Q-Series**

# **Next Generation Plasma Cutting**

**Q 1500 (plus) & Q 3000 (plus)**  
Plasma cutting from 0.018 to 3 inches

**100**  
YEARS  
KJELLBERG  
MADE IN GERMANY

[kjellbergcutting.com](http://kjellbergcutting.com)

## Plasma Cutting 4.0



Q-Source with automatic plasma flow control  
Q-Gas for all materials

The new, pioneering Q-Series from Kjellberg Finsterwalde combines precision plasma cutting at an exceptional level with the complex requirements of digitised production.

- ✓ German engineering with more than 60 years of Kjellberg know-how
- ✓ Inverter power source with digitally controlled, fully electronic process flow
- ✓ Modular design enables subsequent upgrade of system performance
- ✓ Low cost per cutting metre due to high cutting speeds and long lifetime of consumables
- ✓ New cutting technologies for getting best cutting and marking results
- ✓ Significant reduction of carbon footprint contributes to climate protection

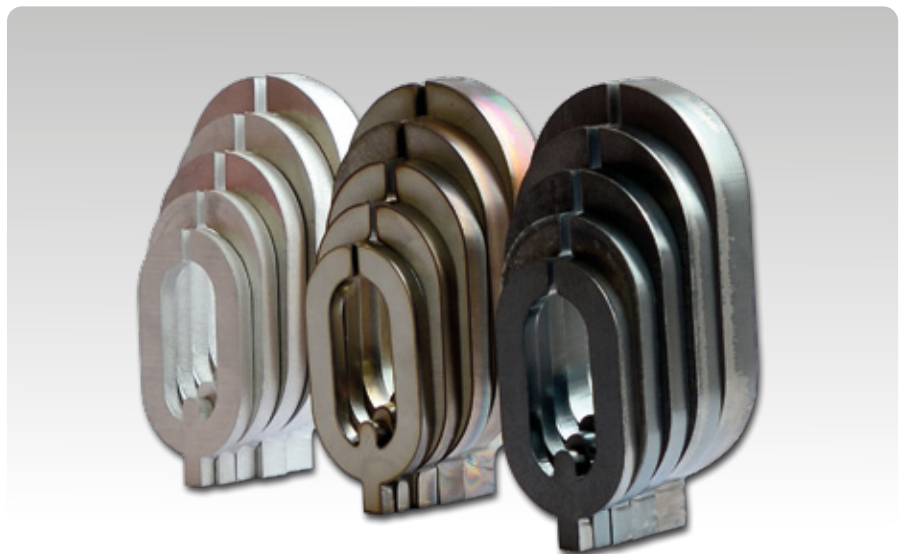
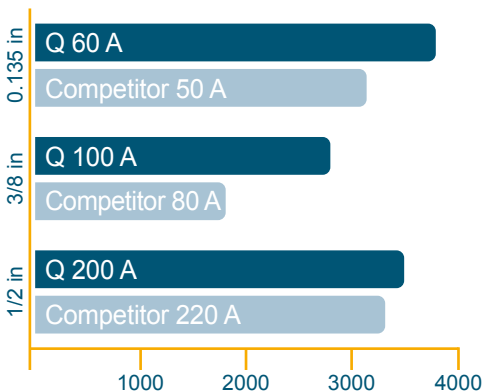
Technologies		Mild steel	Stainless steel	Aluminum
Cutting	Contours	Contour Cut Contour Cut Speed	HiFinox <sup>1</sup> N <sub>2</sub> Ar/H <sub>2</sub> Mix <sup>2</sup>	
	Holes	Q-Hole 0.75 : 1 Q-Hole 1 : 1		
	Piercing	ProPierce <sup>3</sup>		
Surfaces		Q-Mark		
		Q-Notch(+)		

<sup>1</sup>Stainless steel only with Q-Gas

<sup>2</sup>Only with Q-Gas

<sup>3</sup>Stainless steel and aluminum only with Q-Gas

Cutting speed mm/min, mild steel



## Ready for Smart Factories

The Kjellberg-developed, browser-based HMI Q-Desk provides real-time process data and information from all system components on standard devices regardless of location.

Users can transfer and process all data via MQTT protocol using the ethernet interface.

Information

Installation and operating manuals  
Component identification and status monitoring  
Machine and process parameters

Monitoring of cutting process with recording function  
Process and error analysis  
Frequently Asked Questions (FAQs) and video tutorials

Diagnosis

Prognosis

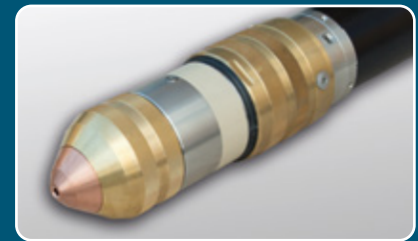
Calculated electricity and gas consumption with history  
Preview of maintenance and service  
Integration of latest development results and operating information with online update function



Q-Desk: browser-based HMI provides real-time process data and information from all system components



Automatic plasma flow control Q-Gas for cutting all materials and Q-Gas O<sub>2</sub> for cutting mild steel with O<sub>2</sub> and stainless steel and aluminum with N<sub>2</sub><sup>1</sup>



Q-Torch: Plasma machine torch with quick-change head



<sup>1</sup> See also technical data

Technical data	Q 1500 Q 1500 plus		Q 3000 Q 3000 plus	
Mains voltage <sup>1</sup>	3 x (380 - 400) V 50/60 Hz			
Fuse, slow	63 A		125 A	
Connected load	max. 35 kVA		max. 72 kVA	
Cutting current at 100 % d.c. <sup>2</sup>	20 - 150 A		20 - 300 A	
Marking current	5 - 50 A			
Cutting range	Q-Gas	Q-Gas O <sub>2</sub>	Q-Gas	Q-Gas O <sub>2</sub>
Mild steel recommended maximum piercing	0.018 - 1 1/2 in 2 1/4 in 1 1/2 in		0.018 - 2 1/4 in 3 in 2 1/4 in	
Stainless steel maximum piercing	2 1/4 in 2 in	1 1/2 in 1 in	3 in 2 1/4 in	2 1/4 in 1 1/4 in
Aluminum maximum piercing	2 1/4 in 2 in	1 1/2 in 1 in	3 in 3 in	2 1/4 in 1 1/2 in
Plasma gases	Q-Gas O <sub>2</sub> : O <sub>2</sub> , N <sub>2</sub> , Air, Q-Gas: O <sub>2</sub> , N <sub>2</sub> , Air, Ar, H <sub>2</sub> , F5 (95 % N <sub>2</sub> /5 % H <sub>2</sub> )			
Swirl gases	Q-Gas O <sub>2</sub> : O <sub>2</sub> , N <sub>2</sub> , Air, Q-Gas: O <sub>2</sub> , N <sub>2</sub> , Air, F5 (95 % N <sub>2</sub> /5 % H <sub>2</sub> )			
Marking gases	Ar, N <sub>2</sub> , Air			
Dimensions (LxWxH)	45.28 x 27.36 x 57.48 in 1150 x 695 x 1460 mm			
Mass	526.90/617.29 lb 239/280 kg		654.77/698.87 lb 297/317 kg	
Machine interface conventional bus-system	digital I/O, analog EtherCAT			
Human machine interface Q-Desk	Ethernet			

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<sup>1</sup> Other voltages and frequencies on request

<sup>2</sup> Ambient temperature 40 °C

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