Kjellberg
CUTTING

VISIBLY DIFFERENT

Q SERIES

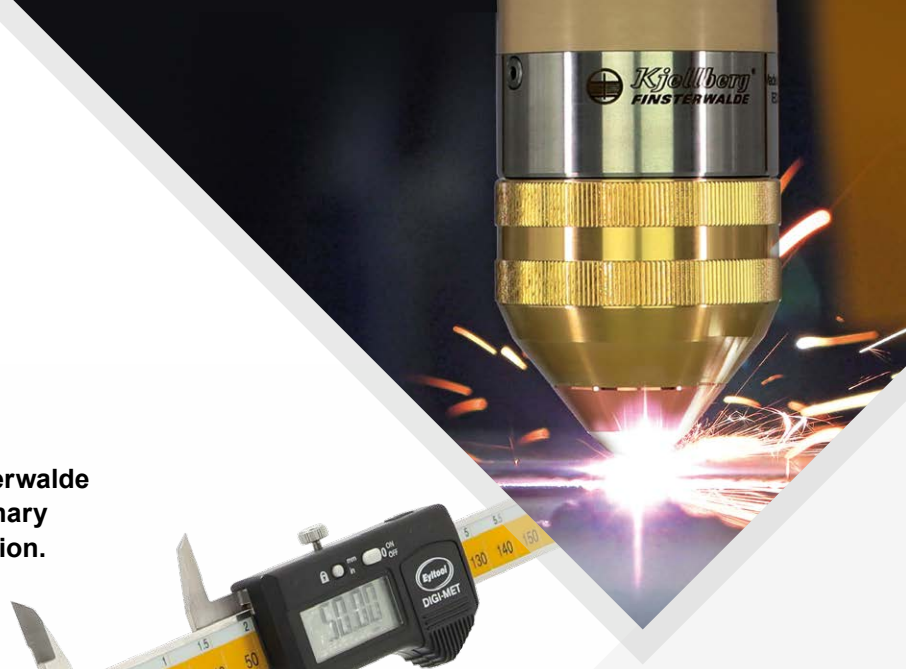
Q 1500 (plus) | Q 3000 (plus) | Q 4500

PLASMA CUTTING 0.018 - 4 3/4 INCHES

100 YEARS
KJELLBERG
MADE IN GERMANY

Q-Series

NEXT **GENERATION PLASMA** CUTTING

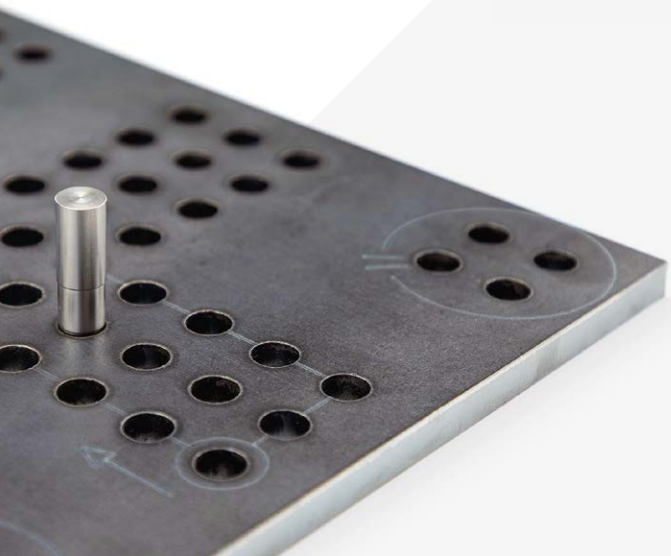


The innovative Q-Series made by Kjellberg Finsterwalde combines precise plasma cutting at an extraordinary level with the requirements of digitalized production.

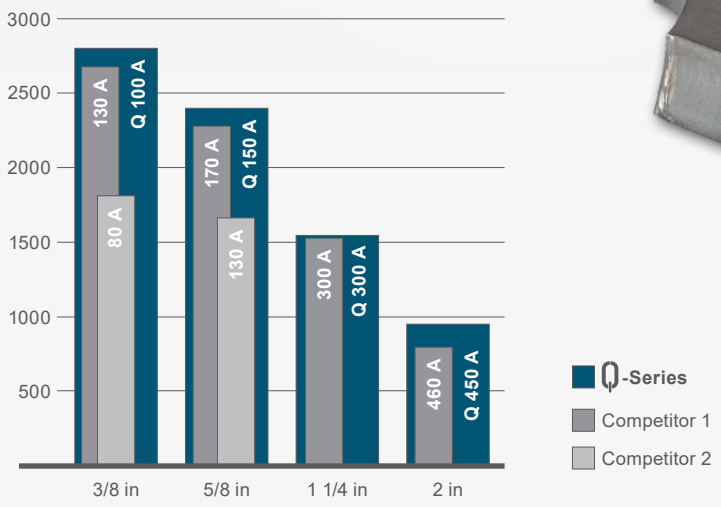
The Q-Series offers performance and productivity and above all stands for consistent and reliable cutting quality. High cutting speeds ensure greater efficiency and lower costs per cutting meter. Latest inverter technology also reduces the CO_2 footprint and thus contributes to climate protection.

Quality & Technology

- ✓ Plasma cutting up to 4 3/4 inches
- ✓ Marking, notching, graining
- ✓ Bevel and underwater plasma cutting
- ✓ Exact inner and outer contours
- ✓ Precise holes with a ratio of 0.75:1



Cutting speed in inch/min
Mild steel



Q-TORCH

PUSH YOUR LIMIT

For more Performance

In order to be able to react flexibly to future requirements, the cutting performance of the plasma cutting systems Q 1500 plus and Q 3000 plus can be increased by easy to mount **upgrade kits**.

Plug and play of additional inverter modules extends the cutting current range to 300 A or 450 A.

One for All

All components can be used universally for the entire Q-Series. By using fully automatic plasma flow control, high-quality and reproducible results are achieved during cutting and marking.

Automatic plasma flow control Q-Gas
for cutting all metals

Option:
Automatic plasma flow control Q-Gas O_2
for cutting mild steel with oxygen and stainless steel/aluminum with nitrogen

Digitalization & eService

Q-Series plasma cutting systems meet Industry 4.0 standards. With the browser-based user interface **Q-Desk** developed by Kjellberg, real-time process data and information can be analyzed, monitored and controlled in order to increase the effectiveness of production and optimize the use of resources.

The data can be made available on all commercially devices (smartphone, tablet) and can also be transferred and further processed via **MQTT protocol**.

The integrated **Kjellberg eService** ensures reliability in production through remote diagnostics, remote monitoring and regular updates.

Q-DESK

EtherCAT Technology Group

Technical data	Q 1500 Q 1500 plus	Q 3000 Q 3000 plus	Q 4500
Cutting current at 100 % d.c.[1]	20 - 150 A	20 - 300 A	20 - 450 A
Marking current at 100 % d.c.[1]	5 - 60 A		

Cutting ranges	Q-Gas O_2	Q-Gas	Q-Gas O_2	Q-Gas	Q-Gas O_2	Q-Gas
Mild steel						
Recommended	0.018 - 1 1/2 in		0.018 - 2 1/4 in		0.018 - 2 1/2 in	
Maximum	2 1/4 in		3 in		4 3/4 in	
Piercing[2]	1 1/4 in		2 in		2 in	
Stainless steel						
Maximum	1 1/2 in	2 1/4 in	2 1/4 in	3 in	2 1/4 in	4 3/4 in
Piercing[2]	1 in	1 1/4 in	1 1/4 in	2 in	1 1/4 in	2 in
Aluminum						
Maximum	1 1/2 in	2 1/4 in	2 1/4 in	3 in	2 1/4 in	4 3/4 in
Piercing[2]	1 in	1 1/2 in	1 1/2 in	2 in	1 1/2 in	2 1/4 in

Plasma gases	
Q-Gas O_2	O_2, N_2, Air
Q-Gas	O_2, N_2, Air, Ar, H_2, F5[3]
Swirl gases	
Q-Gas O_2	O_2, N_2, Air
Q-Gas	O_2, N_2, Air, F5[3]
Marking gases	Ar, N_2, Air

Dimensions (LxWxH)			45.28 x 27.36 x 57.48 in 1150 x 695 x 1460 mm
Mass	239 / 280 kg	297 / 317 kg	354 kg
Fuse, slow	63 A	125 A	180 A
Max. Connected load	35 kVA	72 kVA	109 kVA
Protection class	IP 21S		
Mains voltages	380 - 400 V, 50/60 Hz 415 - 440 V, 50/60 Hz 440 - 480 V, 50/60 Hz		

[1] Ambient temperature 40 °C
[2] Extension of piercing capacity with ProPierce technology in combination with Q-Gas.
[3] Forming gas F5 (95 % N_2 / 5 % H_2)

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