Kjellberg®
FINSTERWALDE

Engineering
Cutting
Welding


VISIBLY DIFFERENT

# SERIES

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

PLASMA CUTTING 0.5 - 120 mm

kjellberg.de

100 YEARS KJELLBERG MADE IN GERMANY

# Q-Series

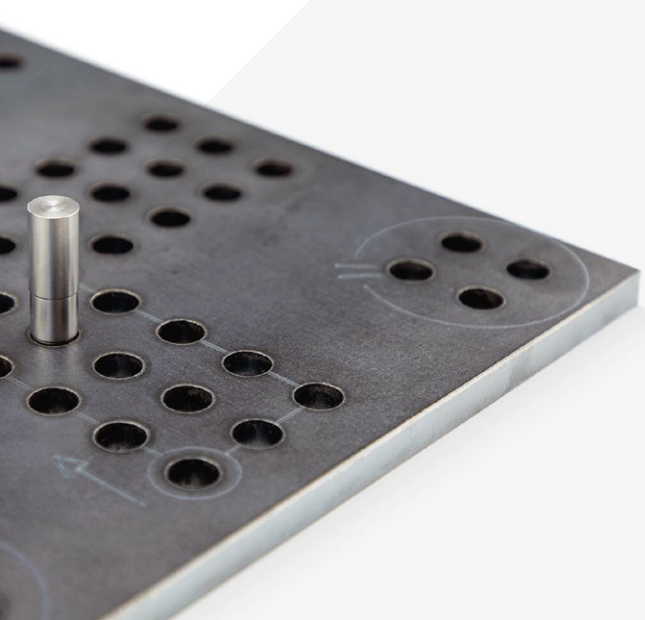
## NEXT **GENERATION** **PLASMA** CUTTING

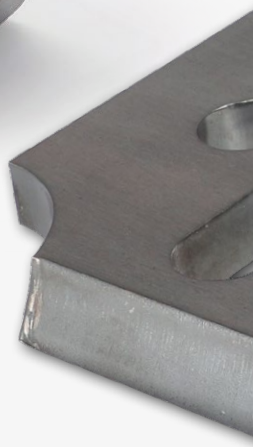

**The innovative Q-Series made by Kjellberg Finsterwalde combines precise plasma cutting at an extraordinary level with the requirements of digitalised production.**

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 metre. Latest inverter technology also reduces the $CO_2$ footprint and thus contributes to climate protection.

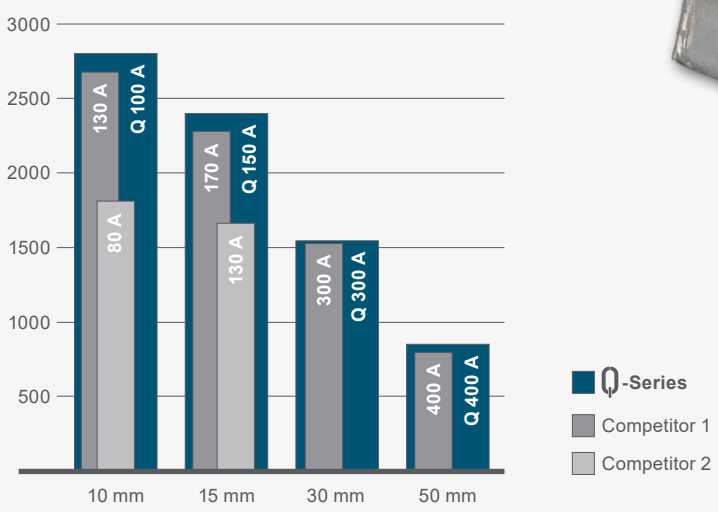

## Quality & Technology

- ✓ Plasma cutting up to 120 mm
- ✓ 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 mm/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/aluminium with nitrogen

## Digitalisation & 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 analysed, monitored and controlled in order to increase the effectiveness of production and optimise 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<br>Q 1500 plus | Q 3000<br>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 | 0.5 - 40 mm | | 0.5 - 60 mm | | 0.5 - 70 mm | |
| Maximum | 60 mm | | 80 mm | | 90 mm | 120 mm |
| Piercing[2] | 30 mm | | 50 mm | | 50 mm | |
| **Stainless steel** | | | | | | |
| Maximum | 40 mm | 60 mm | 60 mm | 80 mm | 60 mm | 120 mm |
| Piercing[2] | 25 mm | 30 mm | 30 mm | 50 mm | 30 mm | 50 mm |
| **Aluminium** | | | | | | |
| Maximum | 40 mm | 60 mm | 60 mm | 80 mm | 60 mm | 120 mm |
| Piercing[2] | 25 mm | 40 mm | 40 mm | 50 mm | 40 mm | 60 mm |

| | |
|---|---|
| **Plasma gases** | |
| Q-Gas $O_2$ | $O_2$, $N_2$, Air |
| Q-Gas | $O_2$, $N_2$, Air, Ar, $H_2$, F5 (95 % $N_2$ / 5 % $H_2$) |
| **Swirl gases** | |
| Q-Gas $O_2$ | $O_2$, $N_2$, Air |
| Q-Gas | $O_2$, $N_2$, Air, F5 (95 % $N_2$ / 5 % $H_2$) |
| **Marking gases** | Ar, $N_2$, Air |

| | | | |
|---|---|---|---|
| **Dimensions (LxWxH)** | 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<br>415 - 440 V, 50/60 Hz<br>440 - 480 V, 50/60 Hz | | |

[1] Ambient temperature 40 °C
[2] Extension of piercing capacity with ProPierce technology in combination with Q-Gas.



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## Contact

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