

robust and reliable equipment

FineFocus 450, 600, 800, 1600

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The robust plasma cutting units of the FineFocus series offer highest reliability and good cut quality even under extreme conditions. At the same time they achieve high efficiency due to the low gas consumption. The user is presented with a product of highest quality in an attractive price-performance-ratio.

Electrically conductive materials with a thickness of 3 mm to 160 mm can be cut reliably.

The plasma cutting units can be adapted to CNC-controlled guiding systems and robots quickly and easily. With FineFocus it is possible to use also compressed air as plasma gas.

Advantages at a glance

- ✓ Clean cut surfaces and therefore low rework costs
- ✓ Use of the swirl gas technology for dry and underwater plasma cutting
- ✓ Angular deviations ranging between 2 and 4 according to the standard DIN EN ISO 9013 and high cutting speeds on mild steel due to the FineFocusPLUS technology
- ✓ High efficiency and low running costs due to the integrated or external closed-circuit cooling and therefore lower gas consumption
- ✓ Long lifetime of consumables
- ✓ Microprocessor-controlled system for smooth and controlled process cycle

FineFocus 800

The FineFocus 800 is the most powerful power source of the FineFocus series and offers very good results when cutting medium-sized and thick materials. The plasma cutting unit can be used for straight, contour and bevel cutting up to 50° dry and under water.

Two versions are available:

■ FineFocus „Single“

Equipped with one plasma torch connection. With the machine torch materials up to 80 mm can be cut.

■ FineFocus „Twin“

Allows the connection of two plasma torches which can be operated alternately; one of them can be a manual torch.

Fields of Application

- Steel and hall construction
- Tank and plant construction
- Metal and mechanical engineering
- Shipbuilding
- Job-shop
- Disassembling
- Offshore constructions
- Wind power stations

Technical data

Power source	FineFocus 450	FineFocus 600	FineFocus 800	FineFocus 800 UWP ¹	FineFocus 1600
Mains voltage ²	3~, 400 V, 50 Hz				
Fuse, slow	50 A	100 A	125 A	160 A	2x160 A
Connected load	34 kVA	60 kVA	83 kVA	100 kVA	2x100 kVA
Cutting current (100% d.c)	40 - 100 A (75% d.c.)	40 - 200 A	80 - 300 A	80 - 300 A	160 - 600 A
Dimension (L x W x H)	1025 x 711 x 970 mm	980 x 644 x 1320 mm	1370 x 870 x 1505 mm	1370 x 870 x 1505 mm	2 x 1370 x 870 x 1505 mm
Mass	251 kg	370 kg	566 kg	564 kg	2x 564 kg
Plasma gases	O ₂ , N ₂	O ₂ , Ar, H ₂ , N ₂	O ₂ , Ar, H ₂ , N ₂	O ₂ , Ar, H ₂ , F5*	O ₂ , Ar, H ₂ , F5*
Swirl gases	Air, N ₂	Air, N ₂	Air, N ₂	Air, N ₂	Air, N ₂

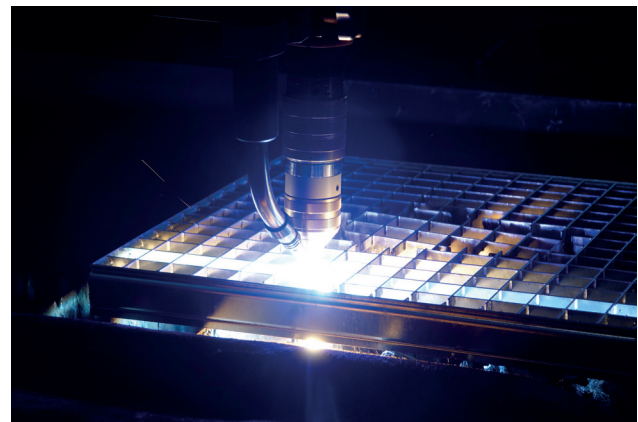
¹ Underwater plasma ² Other voltage and frequencies on request.

* Forming gas F5 (95 % N / 5 % H)

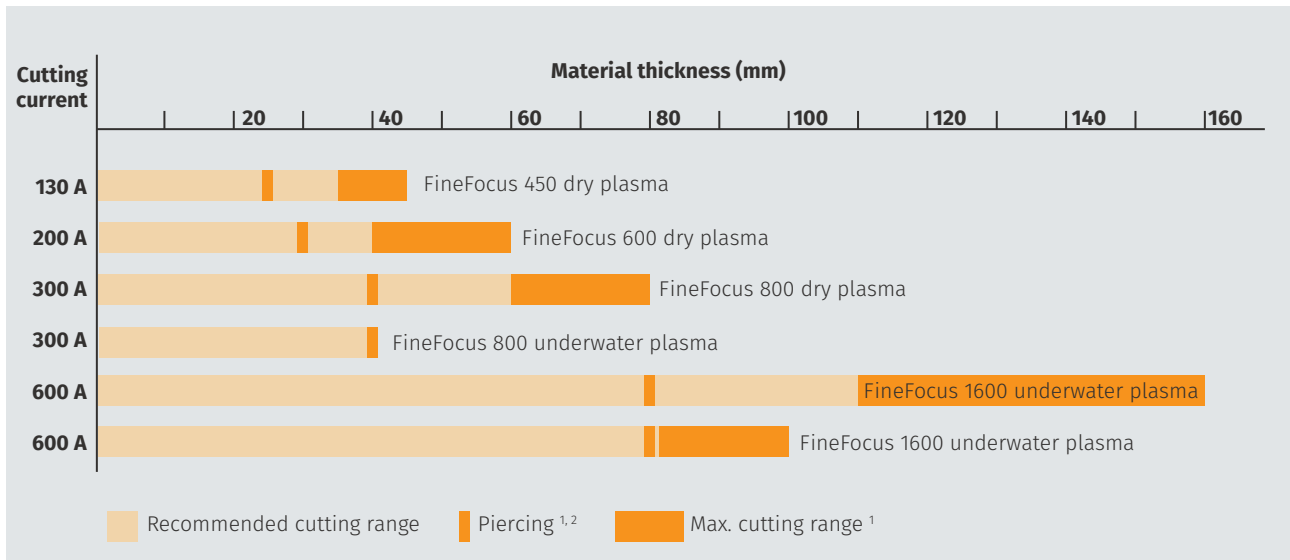
FineFocus 1600

The maximum cutting performance of 600 A is achieved by connecting two FineFocus 800 in parallel thus forming a FineFocus 1600 with external water cooling. The FineFocus 1600 is preferably used for the automated cutting of stainless steel and aluminium up to 160 mm in combination with CNC-controlled guiding systems. It is possible to connect up to three different types of plasma torches.

HotWire Technology



The FineFocus 800 can be modified quickly and easily for applying the HotWire technology. Electrically conductive, non-conductive, combined and interrupted materials e.g. gratings, armoured concrete or wired glass can be cut with this technology.



¹ These data are depending on the materials to be cut and their compositions. ³ Observe piercing capability!

FineFocus 450

Mat. thickness (mm)	Un- and low-alloyed steels		Alloyed steel		Aluminium	
	Cutting current (A)	Speed (mm/min)	Cutting current (A)	Speed (mm/min)	Cutting current (A)	Speed (mm/min)
6	130	2800	130	1900	130	8000
10	130	1900	130	1900	130	5000
15	130	850	130	750	130	3000
20	130	750	130	500	130	1800
25	130	450	130	450	130	1200
30	130	350	130	430	130	850
40	130	200	120	200	120	500

FineFocus 800

Mat. thickness (mm)	Un- and low-alloyed steels		Alloyed steel		Aluminium	
	Cutting current (A)	Speed (mm/min)	Cutting current (A)	Speed (mm/min)	Cutting current (A)	Speed (mm/min)
6	200	7500	200	3800	200	9000
10	200	5000	200	3000	200	8000
15	200	4500	200	240	200	7000
20	250	3800	250	2200	250	4500
25	250	2300	250	1600	250	3700
30	300	1500	250	1000	150	2200
40	300	1100	250	700	250	1400
50	300	600	300	450	250	1200
60	300	350	300	250	250	800
70	300	200	300	150	250	250
80	300	100	300	100	250	150

FineFocus 600

Mat. thickness (mm)	Un- and low-alloyed steels		Alloyed steel		Aluminium	
	Cutting current (A)	Speed (mm/min)	Cutting current (A)	Speed (mm/min)	Cutting current (A)	Speed (mm/min)
6	60	3600	200	3800	60	2500
8	120	3100	200	3200	100	4600
10	120	2500	200	2400	100	3800
15	200	2600	200	1900	200	4200
20	200	2300	200	800	200	3800
30	200	1000	200	600	200	1200
40	200	650	200	350	200	950
50	200	300	200	250	200	750
60	200	250	200	150	200	500

FineFocus 1600

Alloyed steel					
PB-S151 (csak Ar/H ₂)			PB-S100 WU		
Mat. thickness (mm)	Cutting current (A)	Speed (mm/min)	Mat. thickness (mm)	Cutting current (A)	Speed (mm/min)
60	600	500	60	500	400
80	600	250	80	600	170
100	600	200	100	600	180
120	600	150	120	600	195
150	600	100	150	600	100

¹ The listed cutting speeds depend on material characteristics, gas parameters, the guiding system as well as the consumables. According to the quality parameters of the respective cutting task, the user can change the cutting speed.