



FCH

Orbital weld heads

Closed weld heads for mechanized TIG
Orbital welding of thin-walled tube -
connections with outer-diameters from
3 - 114 mm (0.12 - 4.49 in) and wall thick-
nesses up to 3,5 mm (0.14 in)

Features

- FCH weld head with hose pack 8 m
- High duty cycles due to top performance water-cooling
- Integrated servomotor
- Automatic drive to opening position
- Automatic drive stop when overloaded
- Compact design for use in areas with limited access
- Protection chamber for gas-covering to avoid coloration
- Clamping system for easy and fast fixing and centering
- Quick change system for collets
- High usability due to integrated control buttons
- Transport case with trolley-system

Accessories

- Collets set for different tube diameters
- Customized collets
- Offset electrode holder (FCH 6-76 / 9-114 only)
- Stepless adjustable electrode holder (FCH 6-76 / 9-114 only)
- Extension hose pack FCH/FOH 10 m (393.70 in)
- Orbital system controller FPA 3020/3030/4030



Adjustable electrode angle for tube-elbow applications



Built-in control buttons

Technical data

	Offset electrode holder		Adjustable electrode holder	
	maximum ØA	lateral offset B	maximum ØA	lateral offset B
FCH 6-76	50,8 mm (2.00 in)	5 - 7 mm (0.20-0.28 in)	50,8 mm (2.00 in)	variable depending on the interaction of electrode length, angle and measure
FCH 9-114	88,9 mm (3.50 in)	5 - 7 mm (0.20-0.28 in)	88,9 mm (3.50 in)	

	Technical data weld head			
	FCH 3 - 21	FCH 3 - 38	FCH 6 - 76	FCH 6 - 76
Tube-outer Ø	3-21 mm (0.12-0.83 in)	3-38 mm (0.12-1.49 in)	6-76 mm (0.24-2.99 in)	9-114 mm (0.35-4.49 in)
A	70 mm (2.76 in)	102 mm (4.02 in)	160 mm (6.30 in)	200 mm (7.87 in)
B	36,5 mm (1.44 in)	51 mm (2.08 in)	77 mm (3.03 in)	97 mm (3.82 in)
C	143 mm (5.63 in)	174 mm (6.85 in)	224 mm (8.82 in)	264 mm (10.39 in)
D	358 mm (14.09 in)	389 mm (15.31 in)	453 mm (17.83 in)	493 mm (19.40 in)
E	35 mm (1.38 in)	35 mm (1.38 in)	40 mm (1.57 in)	40 mm (1.57 in)
F	17,5 mm (0.69 in)	17,5 mm (0.69 in)	20 mm (0.79 in)	20 mm (0.79 in)
Electrode Ø	1,6 / 2,4 mm (0,06 / 0,09 in)			
Max. temperature of upper clamping shell	100° C (212° F)	100° C (212° F)	100° C (212° F)	120° C (248° F)
Max. current	100 A	150 A	200 A	200 A
Net weight incl. hose pack	5,89 kg (12.99 lbs)	6,45 kg (14.22 lbs)	11,93 kg (26.30 lbs)	13,66 kg (30.12 lbs)

