



WELD HEADS

FCH 3-21 / 3-38 / 6-76 / 9-114

/ TIG Orbital welding without filler wire



/ 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 thicknesses up to 3,5 mm (0.14 in) made of stainless steel, titanium, austenite nickel-chromium-based superalloys, aluminum and other materials in application areas: microelectronics, biochemical industry, food industry, instrumentation, aerospace and aeronautics, etc.

FEATURES

- / FCH weld head with hose pack 8 m
- / High duty cycles due to top performance watercooling
- / Integrated servomotor
- / Automatic drive to opening position
- / Free defineable starting 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

INTEGRATED BUTTONS



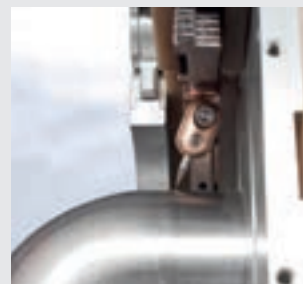
- 1** / LED indicator for 360° limit switch position
- 2** / Start/Stop welding
- 3** / Torch rotation
- 4** / Immediate welding stop
/ Gas- and cooling test



/ Spring loaded clamping system



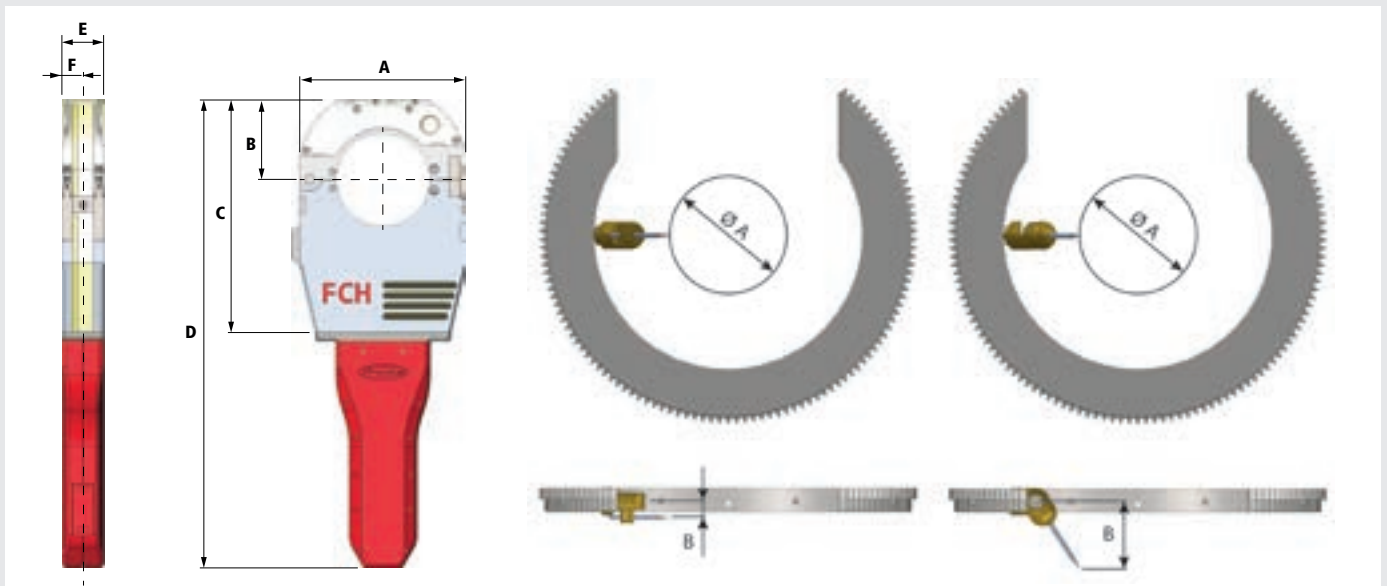
/ Perfect welds due to closed chamber



/ Stepless adjustable electrode holder



/ Transport case with trolley



	FCH 3-21	FCH 3-38	FCH 6-76	FCH 9-114		Offset electrode holder		Stepless adjustable electrode holder	
Tube outer-Ø	3-21 mm (0.12-0.83 in)	3-38 mm (0.12-1.10 in)	6-76 mm (0.24-2.99 in)	9-114 mm (0.35-4.49 in)	Weldhead	maximum Ø A	lateral offset B	maximum Ø A	lateral offset B
A	70 mm (2.76 in)	102 mm (4.02 in)	160 mm (6.30 in)	200 mm (7.87 in)	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
B	36,5 mm (1.44 in)	51 mm (2.08 in)	77 mm (3.03 in)	97 mm (3.82 in)	FCH 9-114	88,9 mm (3.50 in)	5-7 mm (0.20-0.28 in)	88,9 mm (3.50 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 position									
electrode-Ø		1,6 / 2,4 mm (0,06 / 0,09 in)							
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)					

/ Watch the Video on our YouTube channel.



/ Perfect Welding / Solar Energy / Perfect Charging

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