

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

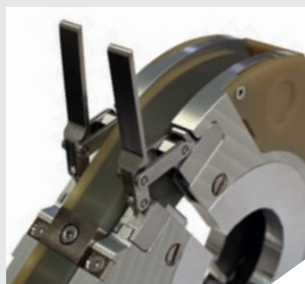
ACCESSORIES

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

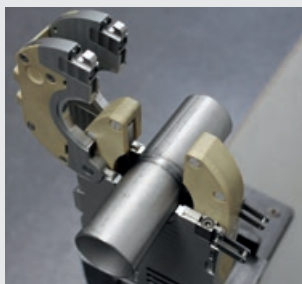
INTEGRATED BUTTONS



- 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



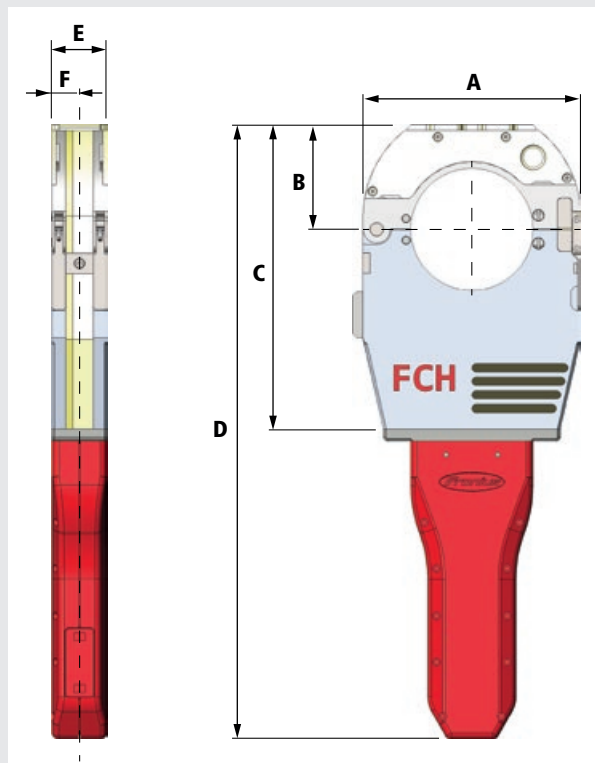
/ Perfect welds due to closed chamber



/ Stepless adjustable electrode holder



/ Transport case with trolley



TECHNICAL DATA

	FCH 3-21	FCH 3-38	FCH 6-76	FCH 9-114
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)
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 position				
electrode-Ø	1,6 / 2,4 mm (0,06 / 0,09 in)			
Net weight	5,89 kg	6,45 kg	11,93 kg	13,66 kg
incl. hose pack	(12.99 lbs)	(14.22 lbs)	(26.30 lbs)	(30.12 lbs)

/ Perfect Welding / Solar Energy / Perfect Charging

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v05 May 2015 EN

Fronius Canada Ltd.
2875 Argentia Road, Units 4,5 & 6
Mississauga, ON L5N 8G6
Canada
Telephone +1 905 288-2100
Fax +1 905 288-2101
sales.canada@fronius.com
www.fronius.ca

Fronius USA LLC
6797 Fronius Drive
Portage, IN 46368
USA
Telephone +1 877 FRONIUS
sales.usa@fronius.com
www.fronius-usa.com

Fronius UK Limited
Maidstone Road, Kingston
Milton Keynes, MK10 0BD
United Kingdom
Telephone +44 1908 512 300
Fax +44 1908 512 329
info-uk@fronius.com
www.fronius.co.uk

Fronius International GmbH
Froniusplatz 1
4600 Wels
Austria
Telephone +43 7242 241-0
Fax +43 7242 241-953940
sales@fronius.com
www.fronius.com