

CARRIAGE FDV 22 MF

/ Battery powered welding carriage with magnetic base and optional torch oscillation



/ The FDV 22 MF welding carriage is versatile useable for mechanized longitudinal (MIG/MAG) welding operations. A strong permanent magnet on the base of the carriage gives highest traction and allows travelling on vertical and oblique surfaces without using a track system.

STANDARD EQUIPMENT

- / Compact and lightweight design
- / Battery powered no mains cable necessary
- / Strong permanent magnet for highest traction and vertical travelling without a track
- / Onboard control unit
- / Guide wheels automatically track the torch in the filled joint
- / Universal torch holder for manual- and machine torches
- / Integrated path–measuring system
- / Limit switch function in both directions
- / Battery charger (230 V) and battery (14.4 V/3 Ah)
- / Connection cable to power source (Tuchel) 10 m

ACCESSORIES

- / Torch oscillation FOU 30/ML6
- / Battery charger FDV MF
- / Rechargeable battery 14.4 V/3 Ah
- / Brushes
- / Additional magnet
- / Stainless steel wheels

EBBB

/ Onboard control unit



/ Torch oscillation (option)

FUNCTIONS

Carriage

- / Main switch: on/off
- / Start left/stop/start right
- / Travel speed knob
- / Digital indication of travel speed
- / Welding on/off
- / Start/stop power source (2-step mode)
- / Programming buttons for travel path, segment welding and endcrater fill

TORCH OSCILLATION (OPTION)

- / Oscillation on /off/auto
- / Dwell time left/right
- / Oscillation speed
- / Oscillation width (amplitude)

APPLICATION EXAMPLES



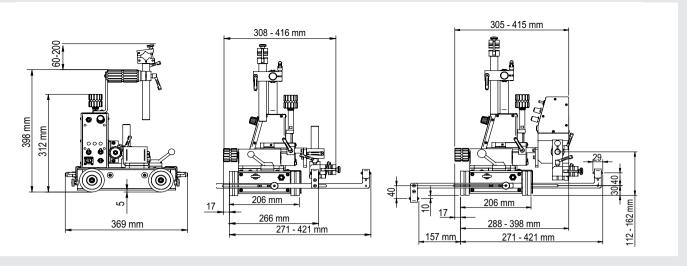












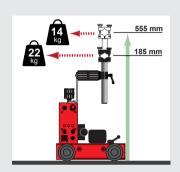
TECHNICAL DATA

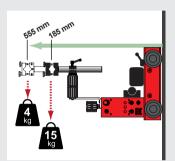
FDV 22 MF*	
Max. load	22 kg (48.5 lb)
Pulling force horizontal/vertical (on hosepack holder)	220 N/150 N (49.5 lbf/33.7 lbf)
Welding position	PA, PB, PC, PF, PG
Minimum material thickness	5 mm (0.2 in)
$Horizontal\ travel\ speed\ (load=85\ N/19.1\ lbf)$	0–140 cm/min (+/- 2 %) (0-55.1 in/min)
Vertical travel speed (load = 85 N/19.1 lbf)	0–125 cm/min (+/- 4 %) (0-49.2 in/min)
Adjustable torch regulation (horizontal/vertical)	28 mm/28 mm (1.1/1.1 in)
Torch body diameter	16-22 mm (0.6-0.9 in)
Power supply battery charger	230 V/50-60 Hz
Power supply carriage (battery)	14.4 V DC
Battery charging time	45 min
Min. battery capacity without OSC	2 h
Min. battery capacity with OSC	1 h
Weight (incl. Battery)	14,5 kg (32 lb)

* Not suitable for using on pre-heated work pieces!

FOU 30	
Max. load	6 kg (13.2 lb)
Oscillation path (R=150 mm/5.9 in)	1–30 mm (0.04-1.2 in)
Speed/frequency (R=150 mm/5.9 in, path=10 mm/0.4 in)	12-110 Hübe/min
Dwell time	0–3 sec.

MAX. TENSION LOAD ON HOSEPACK HOLDER





/ Battery Charging Systems / Welding Technology / Solar Electronics

WE HAVE THREE DIVISIONS AND ONE PASSION: SHIFTING THE LIMITS.

/ Whether Battery Charging Systems, Welding Technology or Solar Electronics - our goal is clearly defined: to be the technology and quality leader. With around 3,000 employees worldwide, we shift the limits of what's possible - our more than 850 active patents are testimony to this. While others progress step by step, we innovate in leaps and bounds. Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

v02 2012 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 sales.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