



Expandable with oscillation system FOU 30



Driving vehicle FDV 22 MF

Battery powered, magnetic driving vehicle with optional oscillation unit

Standard equipment

Compact and lightweight design
Control unit integrated in driving vehicle
Battery powered - no mains cable necessary
Permanent magnet for powerful traction in all welding positions
Guide wheels automatically track the torch in the filled joint
Universal torch holder for hand- and machine torch
Battery charger (230 V) and rechargeable battery (14,4 V / 2 Ah)
Limit-switch function in both directions
Integrated travel-measuring system
Control line to power source (Tuchel 9pin) l=10 m

Recommended areas of use

For mechanized MIG/MAG welding of longitudinal seams in horizontal and vertical position

Accessories

Oscillation unit FOU 30/ML6
Battery charger FDV MF
Rechargeable battery 14,4 V / 2 Ah

Functions of the control unit:

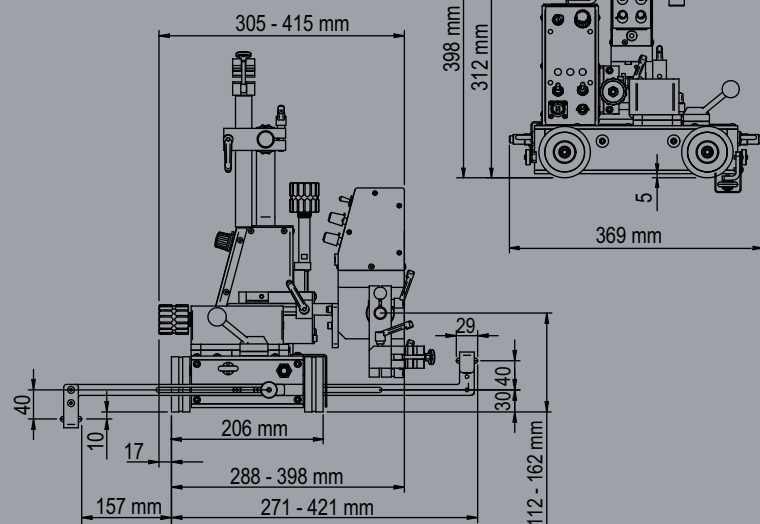
Driving vehicle:

Switch: On / Off
Switch: Start left / Stop / Start right
Speed knob
Digital travel speed display
Switch: Welding On / Off
Start / stop powersource (2-step mode)
Programming buttons for path, segment welding, endcrater fill

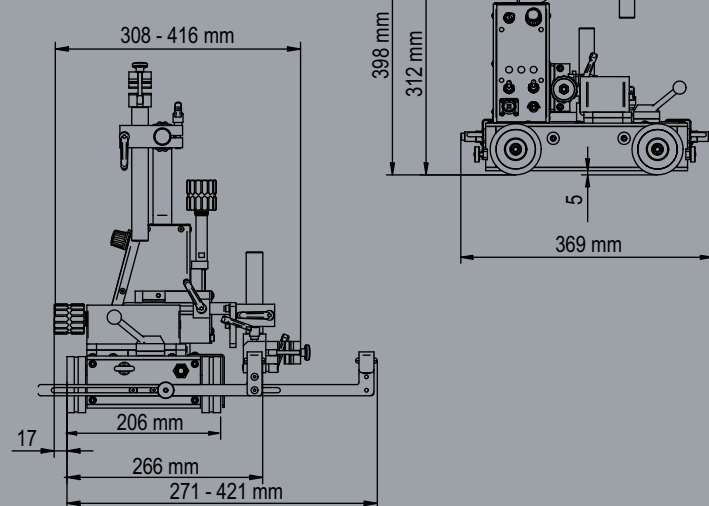
Oscillation (optional):

Oscillation Start / Stop / Auto
Dwell left
Dwell right
Oscillation speed
Oscillation width (amplitude)

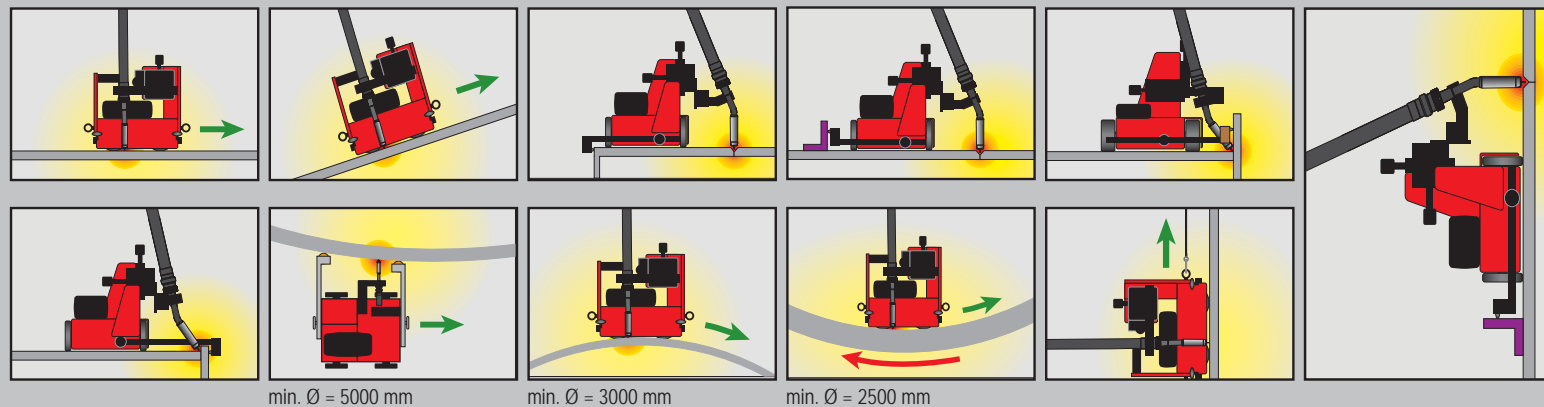
Dimensions FDV 22 MF with OSC:



Dimensions FDV 22 MF without OSC:



Capabilities



Technical data	FDV 22/MF
Max. load	22 kg
Pulling force (horizontal / vertical)	220 N / 100 N
Position of weld	PA, PB, PC, PF, PG
Minimum thickness of material	5 mm
Horizontal travel speed (85 N load)	0-140 cm/min (+/- 2%)
Vertical travel speed (85 N load)	0-125 cm/min (+/- 4%)
Adjustable torch regulation (horizontal / vertical)	28 mm / 28 mm
Torch body diameters	16-22 mm
Power supply battery charger	230 V / 50-60 Hz
Power supply driving vehicle (battery)	14,4 V DC
Battery charging time	45 min
min. battery capacity without OSC (*)	2 h
min. battery capacity incl. OSC (*)	1 h
max. thermic stress of wheels	150 °C
Net weight (incl. battery)	14,5 kg

Technical data	Oscillation 30/ML6
Max. load	6 kg
Oscillation path (R=150 mm)	1 - 30 mm
Speed / frequency (R=150 mm, path=10 mm)	12 - 110 strokes /min
Dwell time	0 - 3 sec.

(*) above operation times are for full load, vertical up and max speed conditions
In normal conditions these carriages have set up times and less extreme running parameters which will improve battery efficiency.



FRONIUS INTERNATIONAL GMBH
Buxbaumstraße 2, P.O.Box 264, A 4602 Wels
Tel: +43/7242/241-0, Fax: +43/7242/241-3940
E-Mail: sales@fronius.com

www.fronius.com