



SHIFTING THE LIMITS

FLEXTRACK 45 WELDING CARRIAGE

/ MIG-MAG / CMT

/ ONE SYSTEM FOR UNIVERSAL APPLICATIONS



/ The compact carriage offers a wide range of application possibilities. Depending on the requirements 3 different rail types are available. In industries where varying types of surfaces are common (e.g. shipbuilding, tank construction), the FlexTrack 45 suits perfectly for universal operations.

- / ONE CARRIAGE FOR ALL APPLICATIONS**
- / FAST AND EASY SETUP OF RAILS AND CARRIAGE**
- / HIGHEST REPRODUCIBILITY**
- / DESIGNED FOR ROUGH APPLICATION AREA**
- / CONSTANT WELDING SPEED**
- / HIGH QUALITY COMPONENTS**
- / ROBUST ALUMINIUM HOUSING**
- / BEST WELDING RESULTS DUE TO FRONIUS WELDING TECHNOLOGY**



FLEXTRACK 45 – ONE CARRIAGE FOR ALL APPLICATIONS

/ The high-quality carriage in combination with Fronius welding technology offers the perfect solution for mechanized welding applications. Due to precise and constant movement excellent welding results can be produced. The highly modular system can be mounted onto any rail configuration. Only the driving angle has to be adjusted – no time consuming adaption required.

TORCH HOLDERS

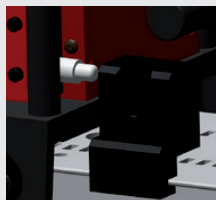
/ Easy and precise torch adjusting.

CLUTCH ON/OFF

/ Allows manual fast positioning of the Flex-Track without unmounting the carriage.

GUIDING WHEELS

/ Quick adjustable for easy mounting on different rail configurations.



LIMIT SWITCHES

/ For both directions the carriage has integrated limit switches for automatic return/stop.

CARRYING HANDLES

/ Two handles for comfortable carrying and mounting.



TORCHES

/ 5 different types of torches are compatible:

- Multilock
- Robacta
- Robacta Drive
- CMT Drive
- Hand torches



RAILS

/ 3 different types of rails are available:

- Flexible
- Straight
- Ring

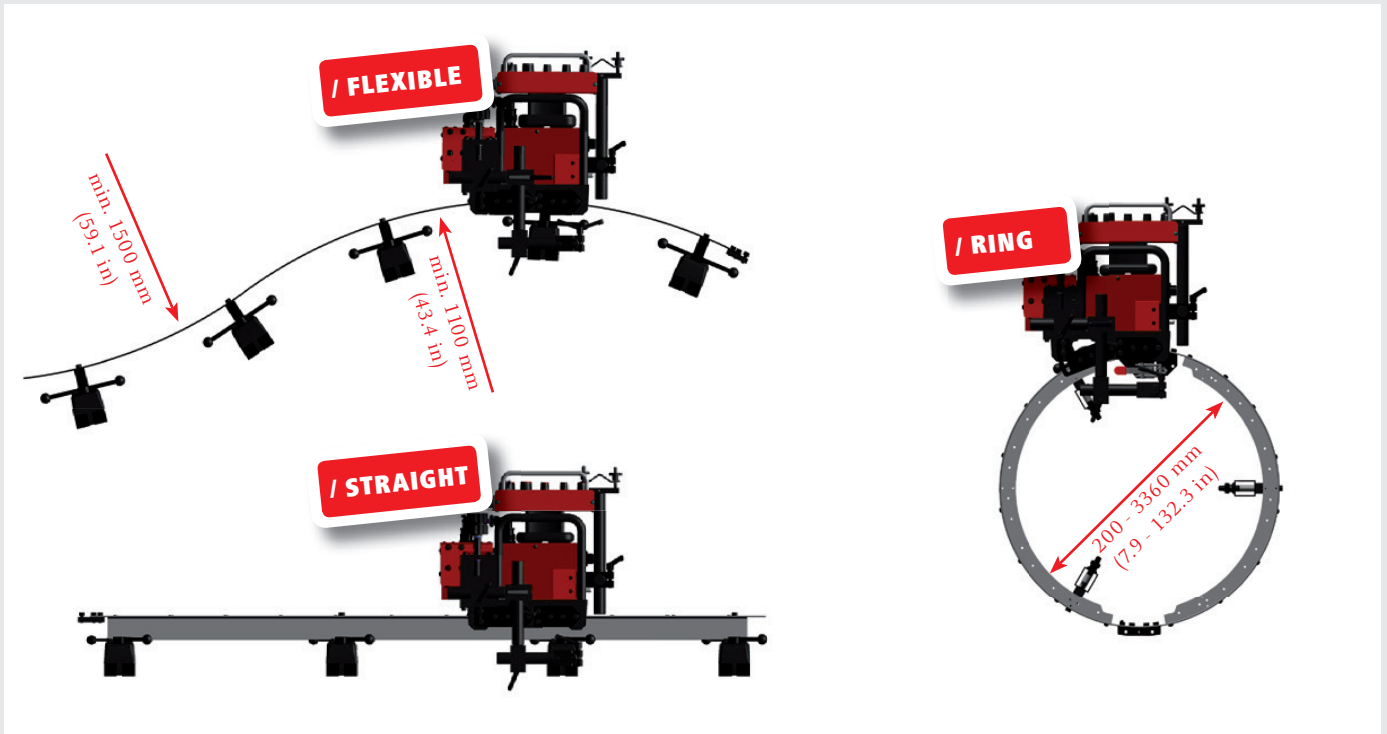
BRIDGES

/ Magnetic bridge with fixing lever
/ Vacuum bridge
/ Screw feet bridge

REMOTE CONTROL

/ With magnetic holder, which allows mounting to anything that is magnetic.





/ 3 different rail setups are available – the carriage fits any setup perfectly. Only the guiding wheels have to be adjusted correctly. The mounting/unmounting process is quick and easy.

OSCILLATION (LINEAR MOTION)

/ Mountable on both sides (left/right).
 4 different OSC modes: no weave, trapezoid, rectangular, triangular.



E-CABINET

/ Remote control and carriage are connected to the e-cabinet.

MAINS VOLTAGE

/ 230 V, 50 - 60 Hz
 / 115 V, 50 - 60 Hz

REMOTE CONTROL – FUNCTIONS

/ The FlexTrack 45 is operated exclusively via remote control for maximum ease of use. The robust aluminium housing combined with two protection handles can compensate accidentally falls. The magnetic holder allows mounting the remote control to anything that is magnetic including the carriage itself.

Each parameter can be changed supported by a numeric display – accidentally parameter change is minimized by using click-wheel-buttons.



ENDCRATER FILLING

/ Allows perfect welding seam endings.

OSC DWELL TIME

/ Regulation for oscillation dwell time left/center/right.

OSC AMPLITUDE

/ Regulation for oscillation amplitude.

OSC MODES

/ 4 modes:
- No weave
- Trapezoid
- Rectangular
- Triangular

WELDING MODES

/ 3 modes:
- No arc
- Arc
- Test

CONNECTOR FOR REMOTE CONTROL CABLE

/ High quality metal socket.

NUMERIC DISPLAY (METRIC/ IMPERIAL)

/ Display of parameter values and error codes.

DIRECTION CHANGE/ STOP

/ Changes direction or stops when limit switch is activated.

OSC SPEED

/ Regulation for oscillation speed.

OSC OFFSET

/ Regulation for oscillation offset.

TRAVEL DIRECTION

/ Selection for travel direction.

MAGNETIC HOLDER

/ Mounts the remote control to anything that is magnetic.

TRAVEL SPEED

/ Regulation for travel speed.



RAILS AND BRIDGES

/ The high quality spring steel rails can be used on flat, curved or round objects. There are 3 different bridges for fixing the rails to the objects. Rails and bridges can be configured for various diameters from 200 - 3360 mm (7.9 - 132.3 in). The FlexTrack fits any rail configuration perfectly.

/ FLEXIBLE RAILS

/ Can be mounted on curved or flat surfaces – min. inside radius 1500 mm (59.1 in) / min. outside radius 1100 mm (43.3 in).



/ Can be also mounted on tubes as ring rails for inside* and outside welding. Different segment lengths (1130/1695/1884 mm 44.5/66.7/74.2 in) provide a wide diameter range.



* Inside diameter on request!

SEGMENT TYPE	LENGTH
I	1130 mm (44.5 in)
II	1695 mm (66.7 in)
III	1884 mm (74.2 in)

DIAMETER	SEGMENTS	BRIDGES
1560 - 1740 mm (61.4 - 68.5 in)	3x type I 1x type II	18
1740 - 1920 mm (68.5 - 75.6 in)	3x type III 1x type I	18
1920 - 2100 mm (75.6 - 82.7 in)	3x type III 1x type II	20
2100 - 2280 mm (82.7 - 89.8 in)	3x type III 2x type I	21
2280 - 2460 mm (89.8 - 95.9 in)	5x type II	25
2460 - 2640 mm (95.9 - 103.9 in)	3x type III 2x type II	25
2640 - 2820 mm (103.9 - 111 in)	5x type II 1x type I	25
2820 - 3000 mm (111 - 118.1 in)	6x type II	28
3000 - 3180 mm (118.1 - 125.2 in)	3x type III 3x type II	30
3180 - 3360 mm (125.2 - 132.3 in)	6 x type III	30

/ RIGID RAILS

/ Straight rigid rail with aluminium profile for vertical and horizontal applications.



/ Ring rails with rigid aluminium profiles. The rails are connected with hinge and catch for fast and easy setup.



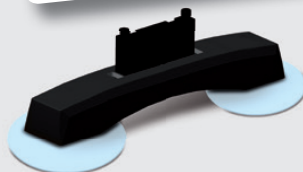
DIAMETER	SEGMENTS	BRIDGES
200 - 300 mm (7.9 - 11.8 in)	2	3
300 - 480 mm (11.8 - 18.9 in)	2	4
480 - 660 mm (18.9 - 26 in)	2	6
660 - 840 mm (26 - 33.1 in)	2	8
840 - 1020 mm (33.1 - 40.2 in)	3	9
1020 - 1200 mm (40.2 - 47.2 in)	3	12
1200 - 1380 mm (47.2 - 54.3 in)	3	15
1380 - 1560 mm (54.3 - 61.4 in)	4	16

/ MAGNETIC BRIDGE



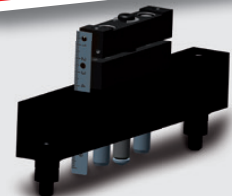
/ For work pieces that are magnetic. Heat resistant up to 180 °C (356 °F). Adjustable magnetic force.

/ VACUUM BRIDGE



/ Mostly used for non-magnetic work pieces. Heat resistant up to 250 °C (482 °F). A vacuum pump is required.

/ SCREW FEET BRIDGE



/ Recommended for rigid ring rails up to 840 mm (33.1 in) diameter.

All bridges come with adjustment units with a metrical scale and distance block.

TECHNICAL DATA

FLEXTRACK 45

CARRIAGE

Welding position	PA, PB, PC, PF, PG
Material thickness	min. 4 mm (0.16 in)
Horizontal travel speed	5 - 150 cm/min (2 - 59.1 in/min)
Vertical travel speed	5 - 135 cm/min (2 - 53.1 in/min)
Endcrater fill time	0 - 5 seconds
Max. load capacity horizontally/vertically	30/45 kg (66.1/99.2 lb)
Weight (without torch holder)	12,5 kg (27.6 lb)

E-CABINET

Mains voltage 50 - 60 Hz	115/230 V
Power supply	24 V DC
Weight (without cables)	5,3 kg (11.7 lb)

REMOTE CONTROL

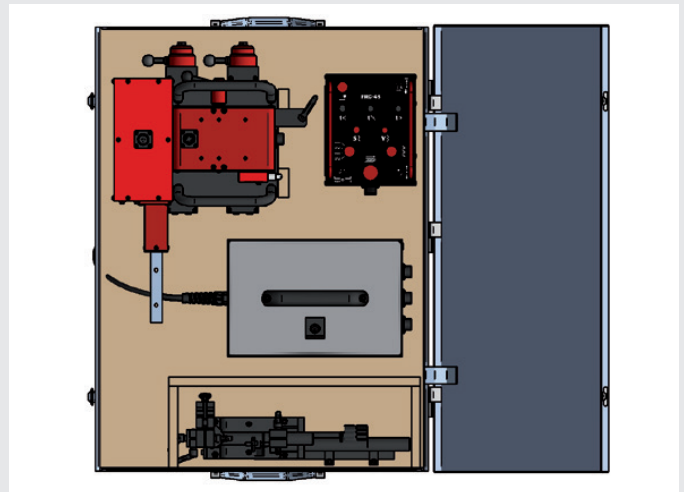
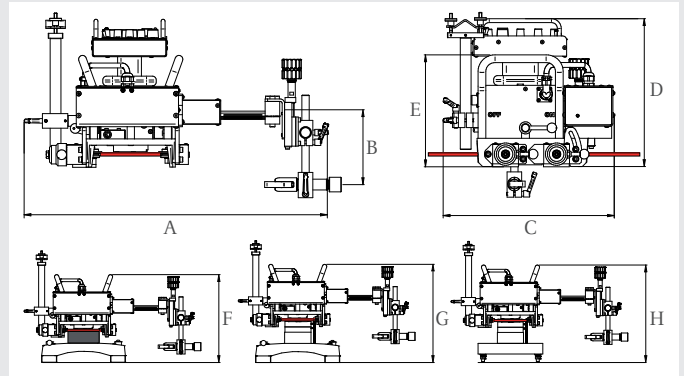
Cable length	10 m (393.7 in)
Weight (without cable)	1,5 kg (3.3 lb)

OSCILLATION

Oscillation speed	5 - 400 cm/min (2 - 157.5 in/min)
Amplitude	2 - 30 mm (0.079 - 1.2 in)
Offset	0 - 50 mm (0 - 2 in)
Dwell time	0 - 3 seconds
Weight (without torch holder)	2 kg (4.4 lb)

DIMENSIONS (WITH OSC/WITHOUT OSC)

A (with OSC)	543 - 623 mm (21.4 - 24.5 in)
(without OSC)	480 - 560 mm (18.9 - 22 in)
B (with OSC)	97 - 201 mm (3.8 - 7.9 in)
(without OSC)	119 - 223 mm (4.7 - 8.8 in)
C (with OSC)	352 mm (13.9 in)
(without OSC)	334 mm (13.1 in)
D	304 mm (12 in)
E	230 mm (9.1 in)
F (overall height rigid straight rail setup)	318 mm (12.5 in)
G (overall height with magnetic bridge)	317 - 415 mm (12.4 - 16.3 in)
H (overall height with screw feet bridge)	317 - 415 mm (12.4 - 16.3 in)



/ Custom fitting metal transport box for the entire system including a toolkit (rails separately).

/ 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



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