

## SCORPIO BATTERY

### CORDLESS PROGRAMMABLE WELDING TRACTOR



The SCORPIO BATTERY is an innovative, battery-operated welding tractor that is programmable for creating both fillet and butt welds in stitch and continuous modes. Its advanced programming capabilities enable users to define the welding path by inputting parameters such as weld length, skip length, and crater filling at both the start and end of the welds. Powered by the CAS LiHD (High Density Lithium Ion) battery, it delivers ample energy to tackle even the most demanding applications without the need for cables.

With features for controlling travel speed and stabilisation, the SCORPIO BATTERY ensures that the geometry of the weld bead aligns precisely with the required specifications, minimising excessive welding and significantly reducing filler metal usage. Additionally, it can perform weave welds when equipped with an optional pendulum oscillator, which provides accurate control over weave width, speed, and dwell times on both sides.

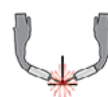
- Effortless and user-friendly programming of welding patterns and stitch welding parameters.
- Versatile LED display that shows travel speed, measurement units, welding configurations, and diagnostic alerts.
- Closed-loop speed control mechanism maintains consistent travel speed, ensuring uniform heat input for high-quality welds.
- Convenient 18 V DC battery supply compatible with the 4.0 Ah battery used in the MINI SPIDER BATTERY, GECKO BATTERY, and DRAGON BATTERY tractors.
- High Density Lithium Ion battery (LiHD) provides optimal power availability for prolonged use.
- Advanced battery management system for enhanced longevity.
- Four-wheel drive system with magnetic traction for reliable tractor mobility.



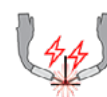
Continuous welding



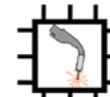
Stitch Welding



Dual torch welding



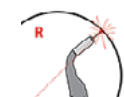
Dual Arc Ignition



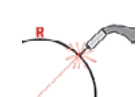
Weld path programming



Horizontal speed  
5-130 cm/min  
1-51 inch/min



Min. path  
concave radius  
1250 mm (49 7/32")



Min. path  
convex radius 1000  
mm (39 3/8")



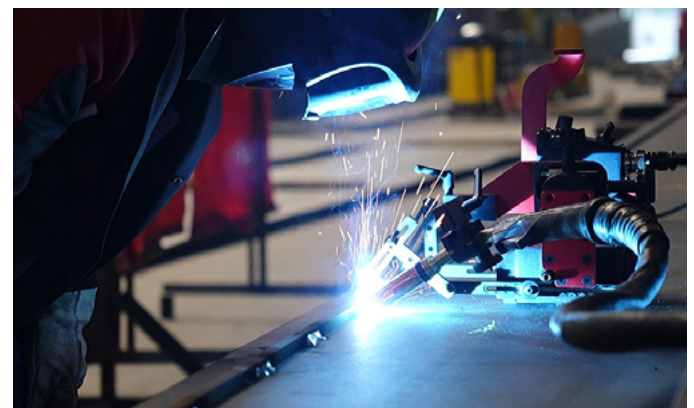
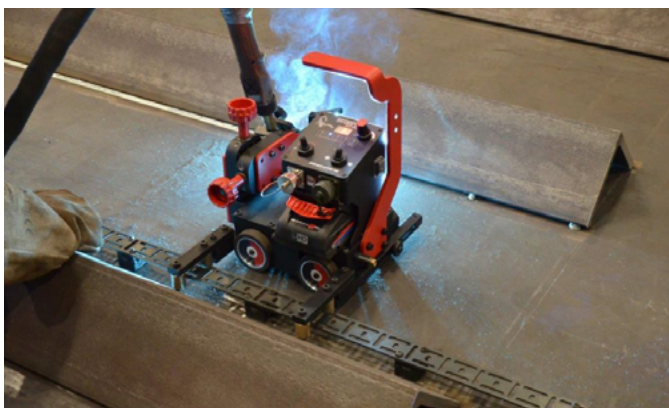
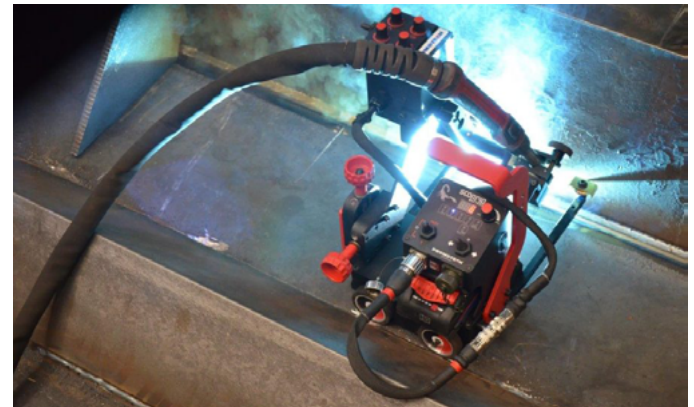
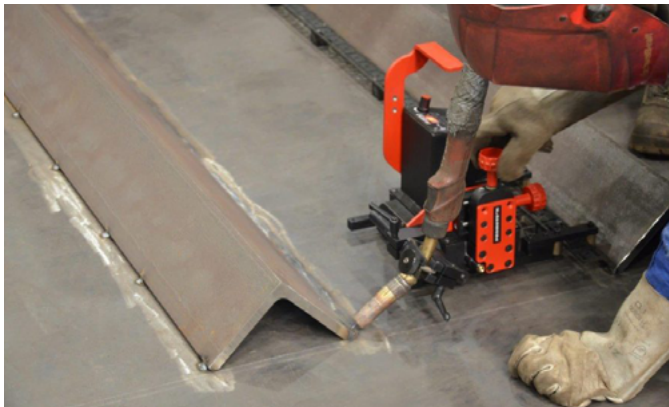
Weight  
7 KG (15.4 lbs)

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## TECHNICAL SPECIFICATIONS

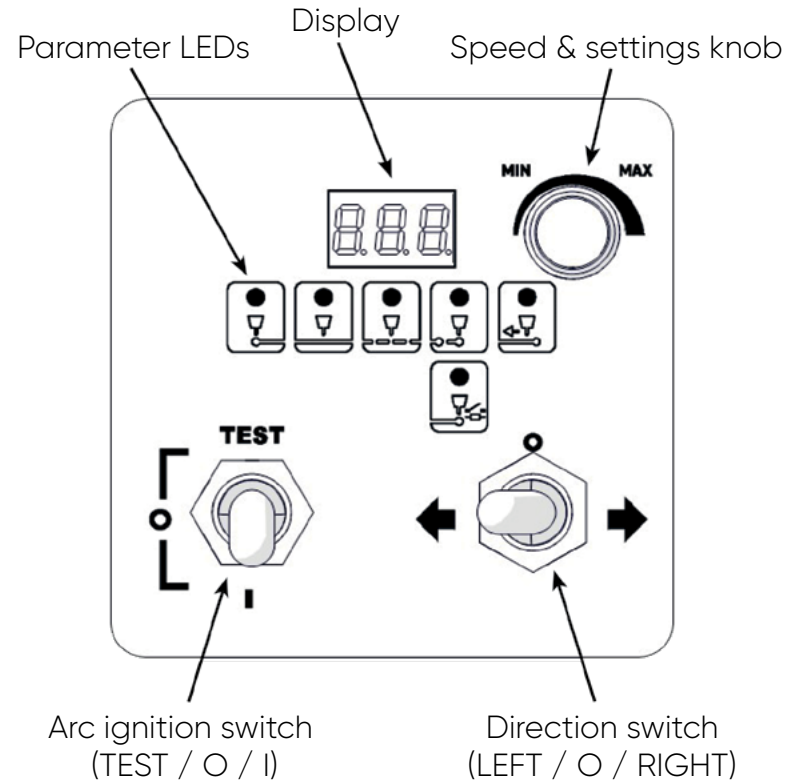
Voltage	18 V DC, 4 Ah
Power	18 W
Welding position (according to EN ISO 6947 and AWS/ASME)	PA/1F/1G PB/2F PC/2G
Minimum path curve radius - Outer	1000 mm (39 3/8")
Minimum path curve radius - Inner	1250 mm (49 7/32")
Torch type	MIG/MAG
Torch diameter	16–22 mm (5/8"–55/64") up to 35 mm (1.38") option
Minimum workpiece thickness	4 mm (5/32")
Ground clearance	4 mm (5/32")
Horizontal pulling force	150 N
Horizontal speed (with a fully charged battery)	5–130 cm/min (1–51 in/min)
Weight (without the battery)	7 kg (15.4 lbs)
Maximum torch reach	70 mm (2 3/4")
Product code	WOZ-0757-10-00-00-0



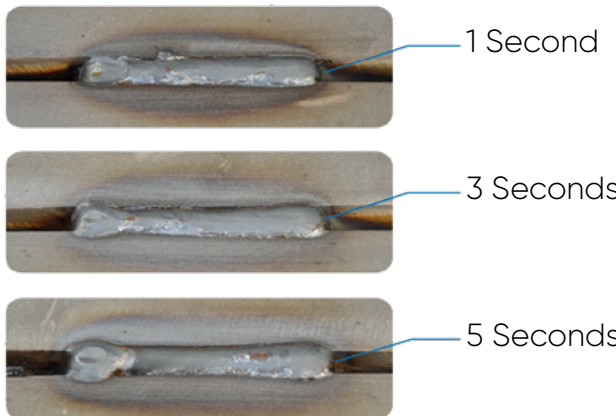
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## PROGRAMMABLE VARIABLES DIAGRAM

The Scorpio allows for simple and ergonomic programming of welding patterns and stitch welds by enabling users to specify key parameters like weld length, skip length, and crater filling at the start and end of each weld.



### Crater filling times

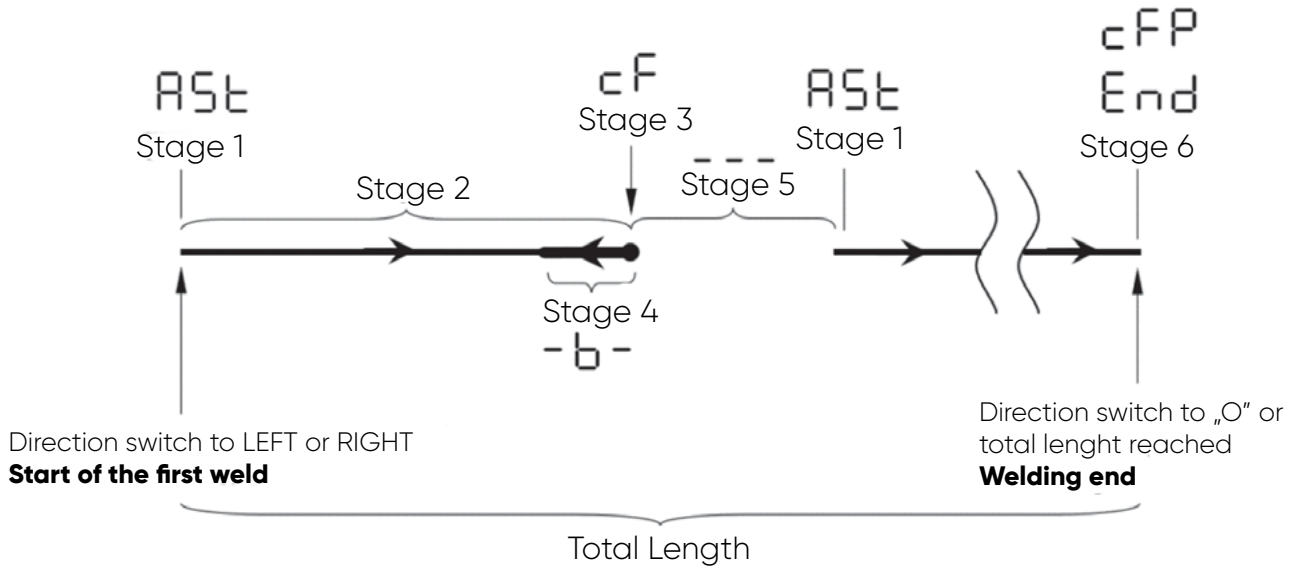


### Back weld 5 mm



	Crater fill time Arc stabilisation time	<b>ASE</b>	0–5.0 sec [step: 0.1] Crater filling time at the beginning of the weld
	Weld length		0.5–999 cm [step: 0.1] 0.5–40" [step: 0.1]
	Skip length	<b>---</b>	0.5–999 cm [step: 0.1] 0.5–40" [step: 0.1]
	Crater fill	<b>cF</b> <b>cFP</b>	0–5.0 sec [step: 0.1] Crater filling time at the end of the weld
	Off (default) On	<b>oFF</b> <b>oN</b>	Current curve set on welding source Full current from welding Source
	Reverse filling length	<b>-b-</b>	0–2 cm [step: 0.1] 0–1" [step: 0.1]
	Skip length	Total length	1–999 cm [step: 1] 1–400" [step: 1] INF





Stage 1	Arc stabilisation and crater filling at the beginning of the weld.
Stage 2	The tractor moves at the preset speed and creates a weld of the specified length.
Stage 3	Crater filling at the end of the weld.
Stage 4	Back weld (Reverse filling length).
Stage 5	Tractor skips between welds. Next steps 1, 2, 3, 4, and 5 are repeated until total length is reached.
Stage 6	Final crater filling (the end of welding procedure).

# STEELBEAST® ACCESSORIES

## Standard accessories:



Battery 4.0 Ah  
AKM-0738-10-00-01-0  
(2 pcs included)



Dual arc ignition cable of 6.5 m (21 ft)  
KBL-0466-17-00-00-0



Standard guide arms (set of 2 pcs)  
ZST-0752-17-00-00-0



Ultra-short rod torch holder with  
clamp 16-22 mm  
UCW-0757-09-00-00-0

## Optional accessories for a variety of applicatons:



Torch clamp 16-22 mm  
ZRZ-0752-07-01-00-0



Torch clip 16-22 mm  
ZCS-0476-06-01-00-0



Torch clamp 22-35 mm  
ZRZ-0466-19-00-00-0



Short Rod Clamp  
WLK-0476-20-01-00-0



Short rod torch holder  
with clip 16-22 mm  
UCW-0476-27-00-00-0



Long Rod Clamp  
WLK-0466-04-10-00-0



Short rod torch holder  
with clamp 16-22 mm  
UCW-0754-07-00-00-0



Long rod torch holder  
with clip 16-22 mm  
UCW-0466-22-00-00-0



Long rod torch holder  
with clamp 16-22 mm  
UCW-0752-07-00-00-0



Torch Extension Arm  
PRD-0757-10-00-00-0



Torch Holder Lower  
Rod Clamp Assembly  
UCW-0476-06-00-00-0

Extended cross-slide  
0-76 mm (0-3") either  
up-down or left-right  
ZSP-0466-46-00-00-1



Battery Charger  
LDW-0738-10-00-30-0 (EU)  
LDW-0738-04-00-30-0 (UK)



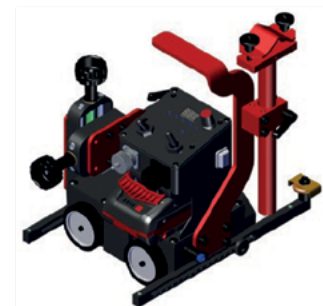
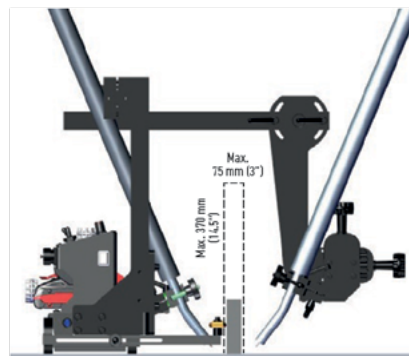
Stainless steel driving wheel  
KOL-0466-72-00-00-0



Cable anchor  
PDT-0776-04-00-00-0



Dual Torch Mount  
PDT-0466-40-00-00-0



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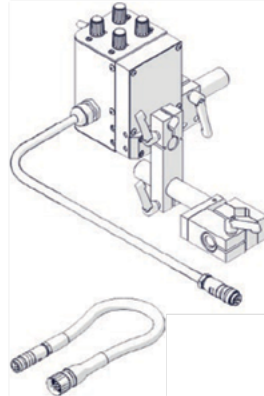


## PENDULUM OSCILLATION (OPTION)

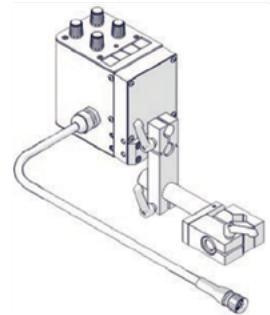
**SCORPIO BATTERY** is ready for use with the **OSC-8** and **OSC-8 PRO** external pendulum oscillators and has built-in socket to power these oscillators. This eliminates the need for a separate oscillator power supply.



Weave welder OSC-8  
OSC-0497-10-00-00-0

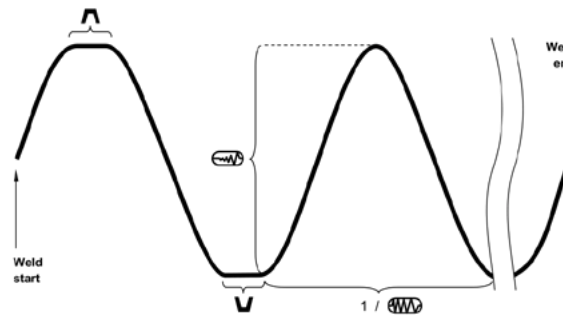


Weave welder OSC-8 PRO  
OSC-0799-10-00-00-0

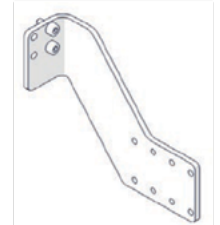


**The following oscillation parameters can be set and adjusted with both pendulum weave welders:**

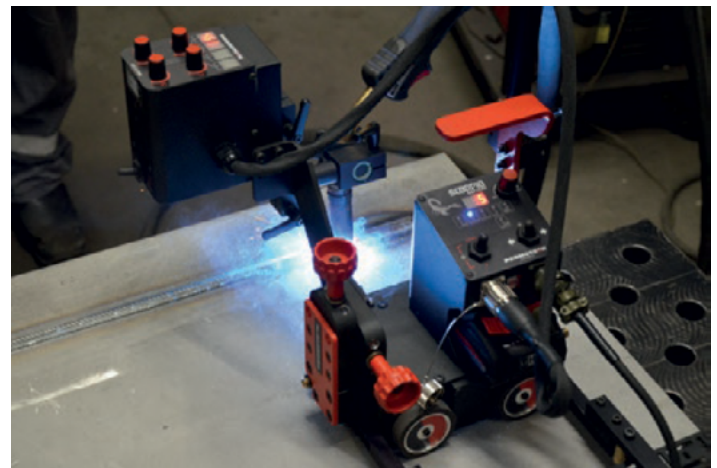
- oscillation width
- oscillation speed
- dwell time on both ends



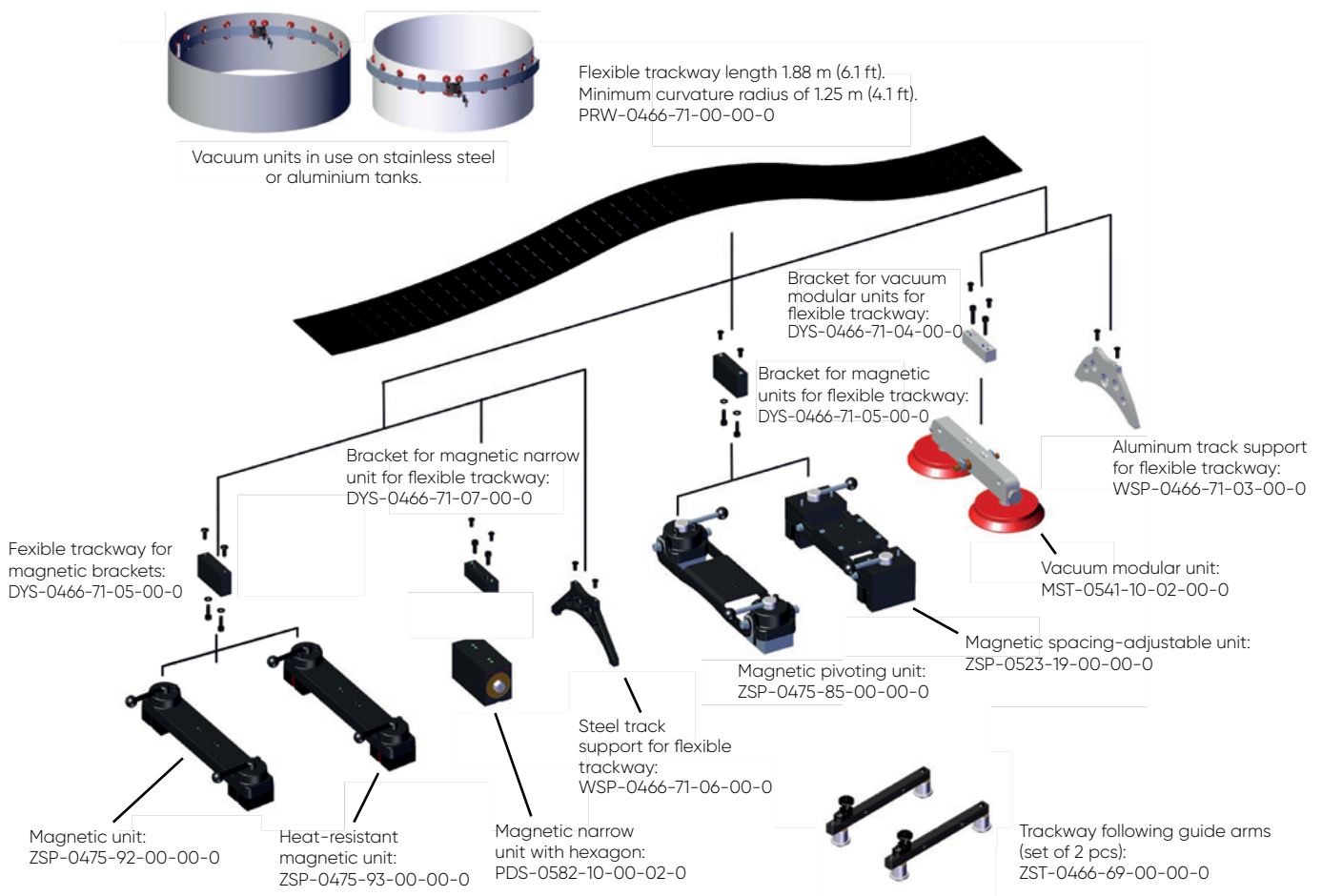
Oscillator support:  
(including two  
M6 x 14 screws):



WSP-0757-11-01-00-0

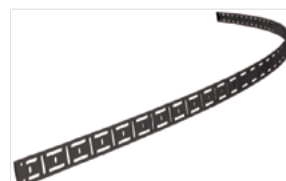


TECHNICAL SPECIFICATION	OSC-8	OSC-8 PRO
Voltage	14–24 V DC	18–24V DC
Power	50 W	50 W
Torch Type	MIG/MAG	MIG/MAG
Pendulum	16–22 mm (5/8–7/8")	16–22 mm (5/8–7/8")
Oscillation type	Pendulum	Pendulum
Oscillation width at r=150 mm (6")	1–30 mm (1–100%)1/32–1-3/16" (1–100%)	1–30 mm (3%–99%)1/32–1-3/16" (3–99%)
Oscillation speed at oscillation width of 10 mm (3/8") and zero dwell time on ends	12–115 cycles/min (1–100%)	12–300 cycles/min
Oscillation dwell time on ends	0–3 s	0–3 s
Maximum torque	8 N•m (5.7 lb•ft)	8 N•m (5.7 lb•ft)
Required ambient temperature	0–50°C (32–122°F)	0–50°C (32–122°F)
Weight	2 kg (4.4 lbs)	2.1 kg (4.6 lbs)
Product code:	OSC-0497-10-00-00-0	OSC-0799-10-00-00-0



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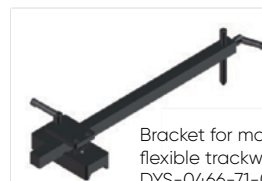




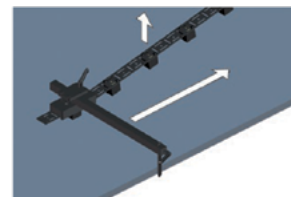
Flexible track length 185cm (6ft) 1pc  
Minimum curvature radius of 1.0 m  
(3.3 ft): PRW-0466-50-01-01-0



Magnetic block for flexible track box of  
10 pcs: BLO-0466-68-00-00-0



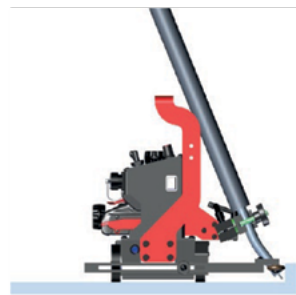
Bracket for magnetic narrow unit for  
flexible trackway:  
DYS-0466-71-07-00-0



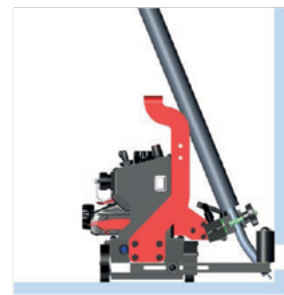
Depending on sort of fixing units in use with flexible trackway, the Scorpio Battery welding tractor is suitable for applications with carbon steel, stainless steel, and aluminium.



Low guide arms (set of 2 pcs):  
PRW-0752-12-00-00-0



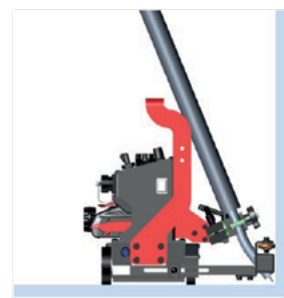
High guide arms (set of 2 pcs):  
PRW-0752-13-00-00-0



Adjustable guide arms  
(set of 2 pcs):  
PRW-0752-10-00-00-0



Magnet guide arms  
(set of 2 pcs):  
PRW-0752-11-00-00-0



Track following guide arms  
(set of 2 pcs):  
PRW-0752-14-00-00-0

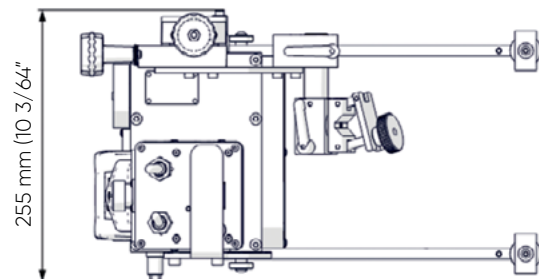
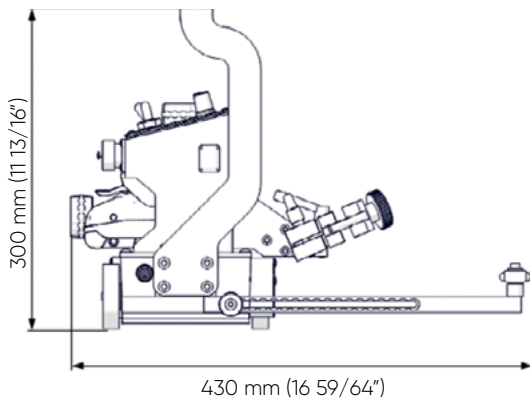




SCORPIO BATTERY		TECHNICAL SPECIFICATIONS
Voltage		18 V DC, 4 Ah
Power		18 W
Welding position (according to EN ISO 6947 and AWS/ASME)		PA/1F/1G PB/2F PC/2G
Minimum path curve radius:		Outer 1000 mm (39 3/8") Inner 1250 mm (49 7/32")
Torch type		MIG/MAG
Torch diameter		16–22 mm (5/8"–55/64") up to 35 mm (1.38") option
Minimum workpiece thickness		4 mm (5/32")
Ground clearance		4 mm (5/32")
Horizontal pulling force		150 N
Horizontal speed (with a fully charged battery)		5–130 cm/min (1–51 in/min)
Weight (without the battery)		7 kg (15.4 lbs)
Maximum torch reach		70 mm (2 3/4")
Product code		WOZ-0757-10-00-00-0

\* With battery fully charged

## DIMENSIONS



## New control system of battery pack Detection and supervised parameters:

- Too low and too high voltage.
- Over discharge protection.
- Too low and too high temperature.
- Failure of the temperature sensor.
- Internal battery failure.

## Benefits:

- Over discharge protection.
- Extended battery life.
- High level of safety for both tractor and operator.

## Standard shipping set:

- Tractor
- Plastic box
- Battery 4.0 Ah (2 pcs included)
- Torch holder
- Arc ignition cable
- 4 mm hex wrench
- 3 mm hex wrench
- Operator's manual



## FIND OUT MORE



Min. path convex  
radius 1000 mm



Min. path concave  
radius 1250 mm

