

STEELBEAST®

MINI SPIDER

CORDLESS WELDING TRACTOR



The **MINI SPIDER** is a compact, battery-powered welding tractor engineered for producing continuous, high-quality fillet welds with MIG/MAG torches. Powered by a CAS LiHD (High Density Lithium-Ion) battery, it delivers the performance needed for demanding applications, all without the restriction of power cables.

A 4-wheel drive system combined with a permanent magnetic base ensures strong traction and smooth, consistent travel. Precise speed control and stabilisation allow the operator to perfectly match weld bead geometry to the required specification, minimising over-welding and significantly reducing filler metal usage.

For added flexibility, the torch mounting assembly can be easily switched to either side of the tractor, allowing uninterrupted welding along the entire length of the workpiece.

Features and benefits:

Compact, lightweight design: ideal for welding in narrow or confined spaces

18 V DC battery power: uses the same battery as our other cordless tractors for complete compatibility

Cable-free operation: no mains power required, improving mobility and reducing setup time

Intelligent battery management: ensures reliable, long-lasting performance in demanding conditions

Digital LED display: enables quick travel speed presets & provides diagnostic messages for easy monitoring

Easy battery access: check charge levels at a glance

Adjustable guide rollers: built-in and height-adjustable for stable and precise tracking

Reversible torch mounting: allows torch placement on either side for flexible operation

Edge-to-edge welding: perfect for continuous fillet welds, such as stiffener welding in bridge structures

Consistent heat input: minimises distortion and ensures uniform weld quality

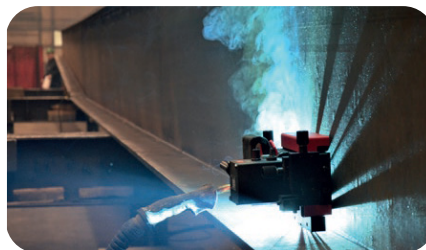
Advanced battery control system

Detection and supervised parameters:

- too low and too high voltage
- 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



Continuous
welding



Horizontal speed
0–110 cm/min



Torch placement
on either side



Welding in
narrow spaces



Weight
6.6 kg

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FOR
MORE INFO
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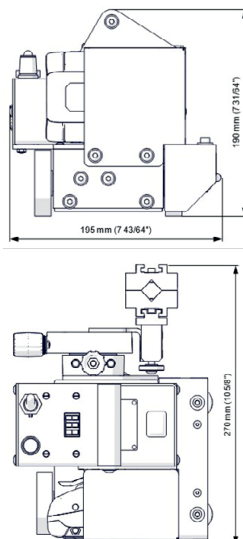


MINI SPIDER BATTERY Technical Specification

Voltage	18 V DC, 4.0 Ah
Power	25 W
Welding position (according to EN ISO 6947 & AWS/ASME)	PB / 2F PA / 1F
Torch diameter	16–22 mm (0.63–0.87")
Min. workpiece thickness	4 mm (0.16")
Ground clearance	4 mm (0.16")
Horizontal pulling force	150 N
Horizontal speed *	0–110 cm/min (0–43.3 in/min)
Cross slide adjustment range	0–21 mm (0–0.83") up down, left-right
Weight (w/o battery)	6.6 kg (14.6 lbs)

* With battery fully charged

Dimensions:



Horizontal control panel with clear display and easy adjustment knobs.

Side-mounted battery for better balance and easy access to charge level.

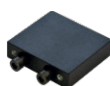


Undercut shielding designed for smooth multi-pass welding and minimised collision risk.

Standard accessories:



Torch holder
ZCS-0270-42-00-00-0



Bracket for opposite
torch placement
DYS-0759-08-00-00-0



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

Optional accessories:



Universal cross slide
ZSP-0759-07-00-00-0



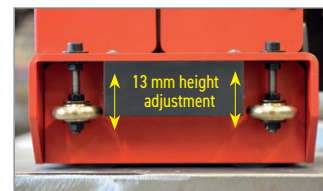
Enlarged cross slide bracket
WSP-0759-12-01-00-0



Auxiliary magnet blocks
ZSP-0759-10-00-00-0



Cable anchor
PDT-0526-21-00-00-0



Height-adjustable guide
rollers in a range of 13 mm

Standard configuration allows torch mounting on either side: left or right, with no additional accessories required.



Cross-slide with torch
holder on the left



Universal cross slide with torch
holder and bracket included in the
standard delivery set.



Cross-slide with torch
holder on the right



Battery
Charger
LDW-0738-04-00-30-0

Optional cross slide is required if the operator wants the tractor ready to hold a torch on both sides.



Torch to be held
on one side



Optional universal
cross-slide



Torch to be held
on both sides

Standard shipping set:

Tractor
Plastic box
Bracket
3 mm hex wrench
4 mm hex wrench
5 mm hex wrench
Battery 4.0 Ah (2 pcs)
Operator's manual

JEI Solutions