PROMOTECH®

smart tools for heavy tasks

FM 37982

BEETLE BATTERY | PROGRAMMABLE DUAL TORCH WELDING TRACTOR

BEETLE Battery is a programmable cordless tractor designed for precise and efficient longitudinal welding of steel bars on the top of metal sections, such as crane beams, girders, I-beams, T-beams, C-profiles or other workpieces.

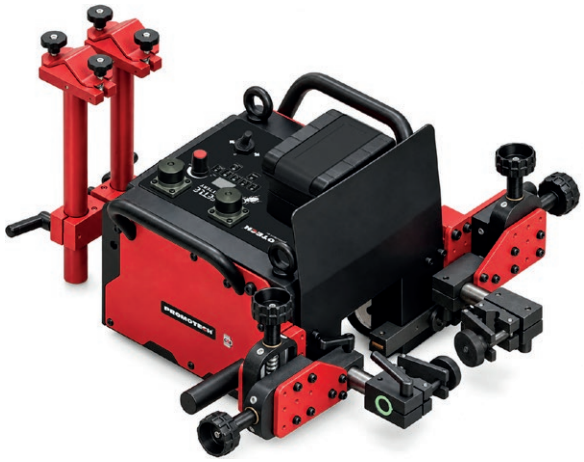
Its primary application is the welding of crane runways and other steel components with a rectangular cross-section, where both the width and height are within the range of 30 to 80 mm, to a crane girder or the horizontal surface of another, larger workpiece.

The BEETLE Battery moves on wheels and its path is guided by roller arms, which remain in direct contact with a steel bar located inside the tractor.

A unique feature of the BEETLE battery is the separate control of the left and right torches, which – together with the ability to choose between continuous and intermittent welding – provides a choice of 10 operating modes.

CAS CORDLESS ALLIANCE SYSTEM

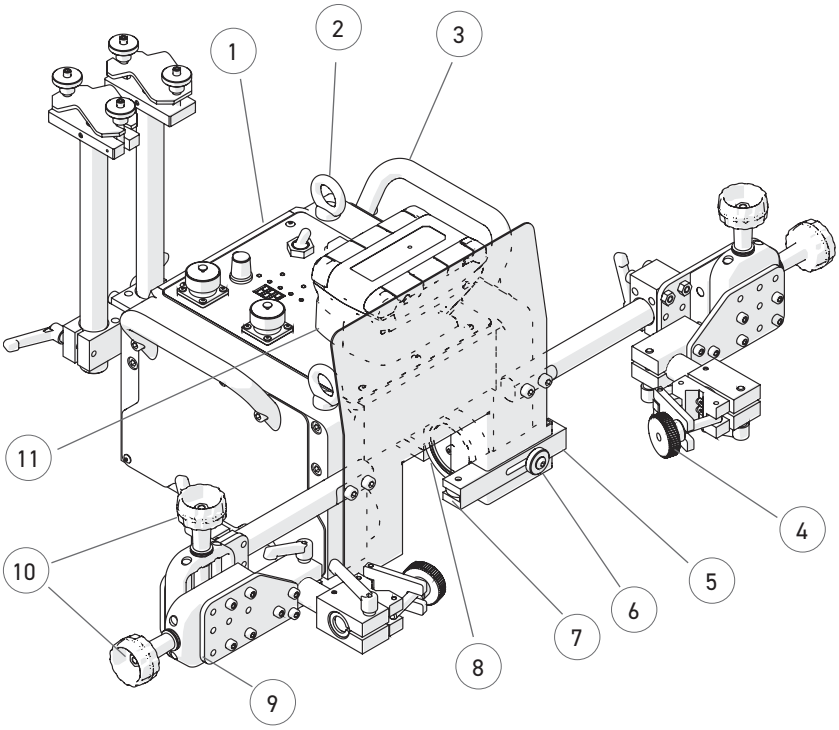
BOOST YOUR MOBILITY WITH BATTERY POWER!
No need for power cables



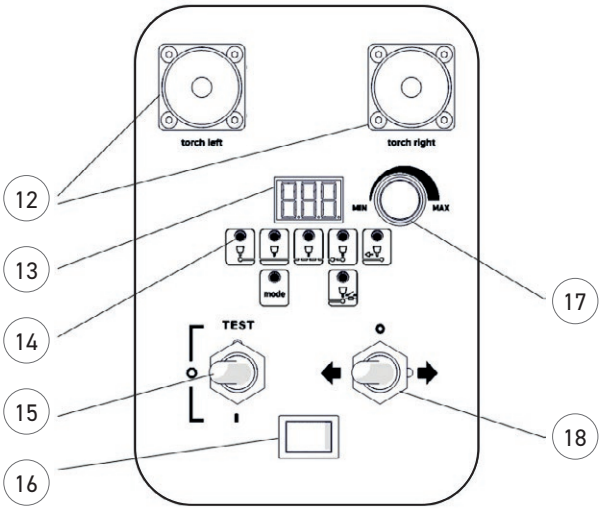
Features and benefits:

- Battery-powered, programmable tractor for longitudinal welding using a left, right or both left and right torches
- Continuous and stitch welding with programmable path
- 10 operating modes, including separate torch control allowing for alternating welding on the left and right sides of the beam
- The LiHD (High Density Lithium Ion) CAS battery, supported by intelligent battery management, ensures maximum power availability for an extended period
- The closed-loop speed control system stabilizes travel speed, enabling uniform heat input to produce consistently high-quality welds
- Multi-functional LED display showing travel speed, units, welding settings and diagnostic messages
- 4-wheel drive system with magnetic traction for stable movement of the tractor
- Self-guiding roller arms eliminate the need for a track
- Compact, lightweight design with durable cast aluminium housing
- Operates at speeds from 5 to 130 cm/min
- No need for mains power and one less cable to carry around

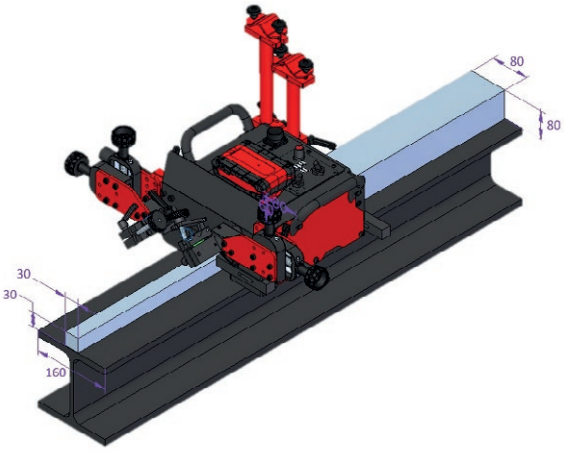
Continuous welding | Stitch welding | Welding path programming | Dual torch welding | Dual Arc Ignition | Horizontal speed 5–130 cm/min (2-51 in/min) | PRE-POST | Backweld



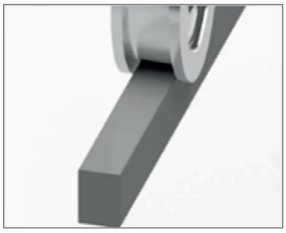
1. Control panel
2. Safety lug
3. Carrying handle
4. Knob to secure the torch
5. Guide arm
6. Screw securing the guide arm
7. Roller arm
8. Wheel
9. Cross slide
10. Knobs to adjust torch position
11. Battery socket

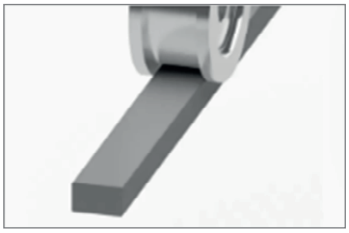


12. Arc ignition socket
13. Display
14. LEDs
15. Arc ignition switch
16. Power switch
17. Speed knob
18. Direction switch



Square or flat steel bars for crane rails

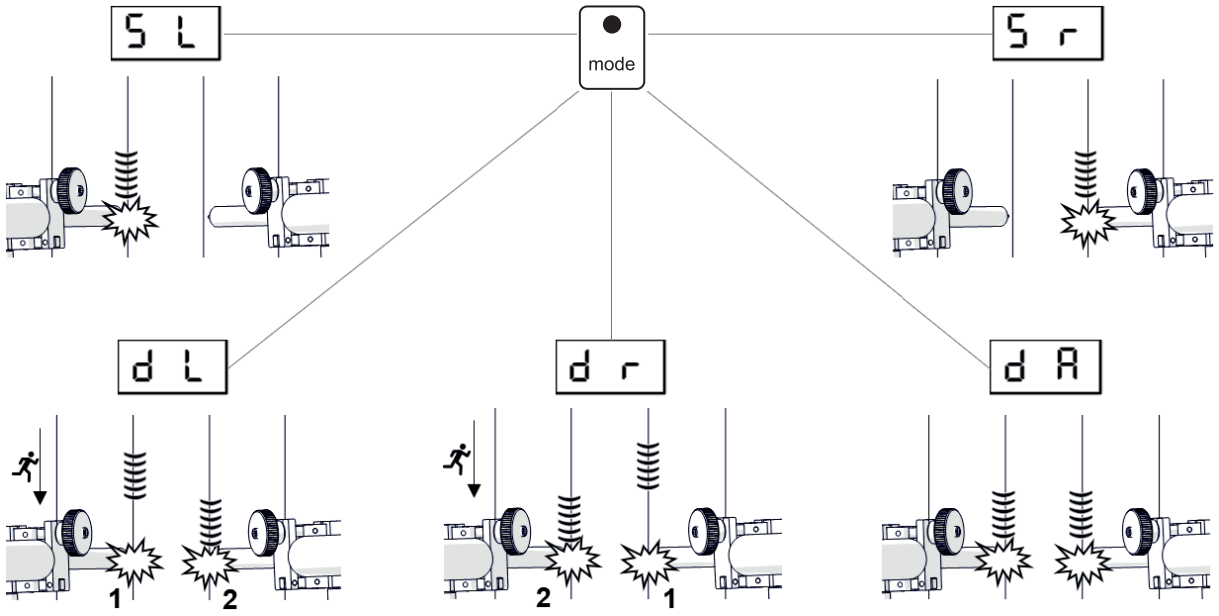


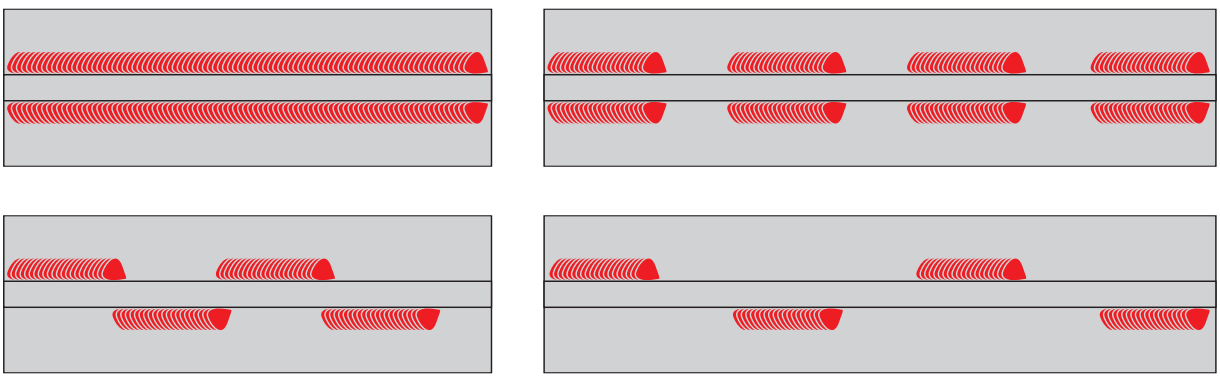


Ten operating modes

BEETLE Battery offers 5 main torch operating modes, with the additional option of selecting between continuous and intermittent welding. This gives a total of 10 operating modes.

	Operation mode	Torch activity	Skip between welds
mode	S L	LEFT torch only	= 0
			> 0
	S r	RIGHT torch only	= 0
			> 0
	d L	LEFT torch and RIGHT torch in turn (and LEFT torch starts first)	= 0
			> 0
	d r	RIGHT torch and LEFT torch in turn (and RIGHT torch starts first)	= 0
			> 0
	d A	LEFT torch and RIGHT torch at the same time	= 0
			> 0

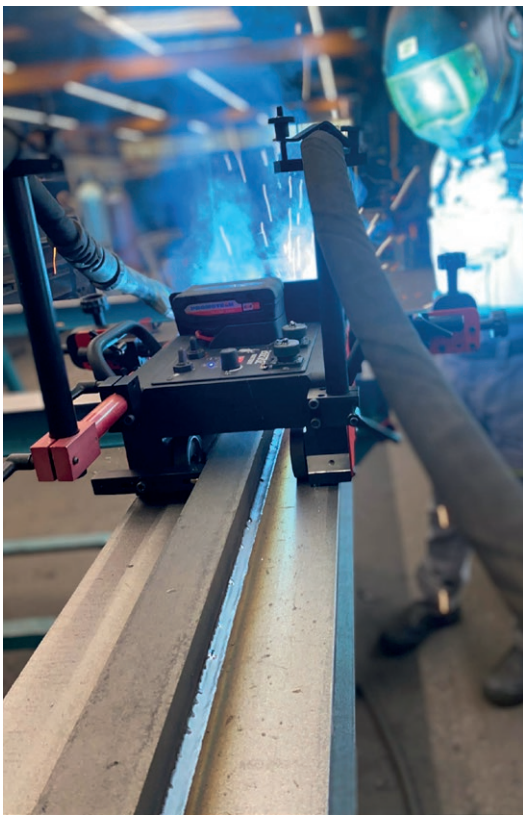


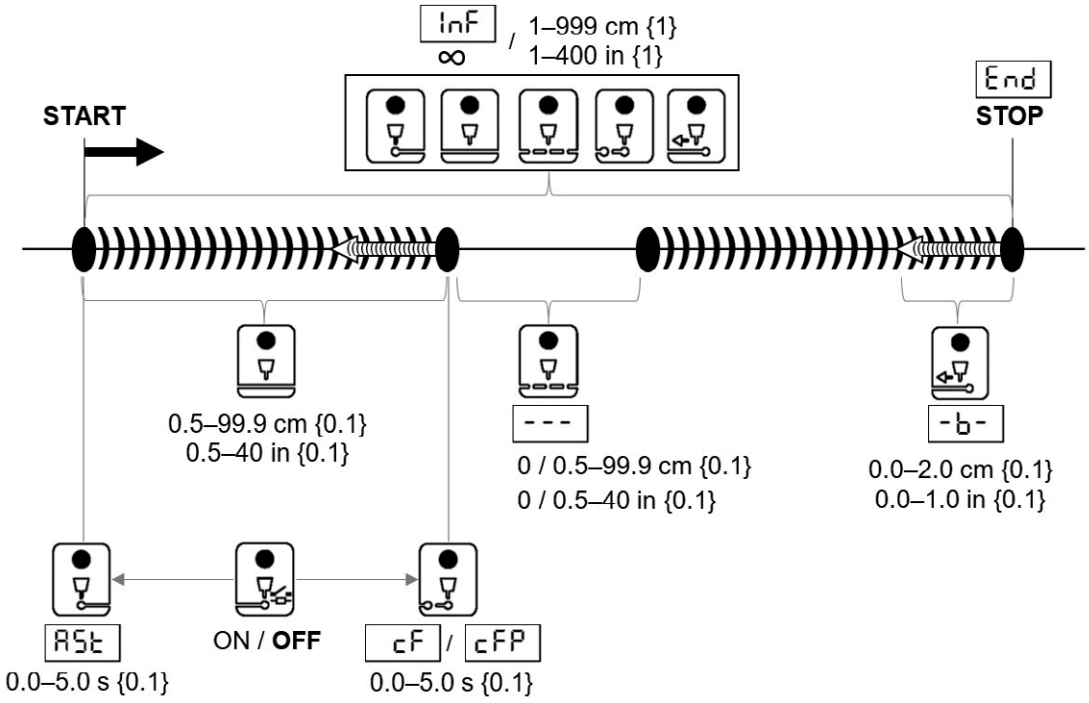


Programmable variables diagram

Simple and ergonomic programming of welding patterns and stitch welding by specifying parameters such as weld length, skip length, backweld and crater filling at the beginning and the end of the welds.

	Crater fill time Arc stabilization time	0–5.0 sec [step: 0.1] Crater filling time at the beginning of the weld
	Weld length	0.5–99.9 cm [step: 0.1] 0.5–40" [step: 0.1]
	Skip length	0.5–99.9 cm [step: 0.1] 0.5–40" [step: 0.1]
	Crater fill	0–5.0 sec [step: 0.1] Crater filling time at the end of the weld
	Off (default)	Current curve set on Welding Source
	On	Full current from Welding Source
	Backweld	0–2 cm [step: 0.1] 0–1" [step: 0.1]
All LEDs on	Total length	1–999 cm [step: 1] 1–400" [step: 1] INF





Standard accessories

CAS Battery 4.0 Ah
AKM-0738-10-00-01-0

Ultra short rod torch holder
with clamp 16–22 mm
UCW-0757-09-00-00-0 (2 pcs included)

Single circuit (2-wire) arc ignition
cable 6.5 m
KBL-0830-0931-00-0 (2 pcs included)

Cable anchor for BEETLE Battery
and MANTIS Battery
UCW-0466-55-03-00-0
(2 pcs included)

Optional accessories for variety of applications

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

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

Quick-release long rod torch holder
with clip 16–22 mm
UCW-0817-0695-00-0

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

Fall arrester device
URZ-000001

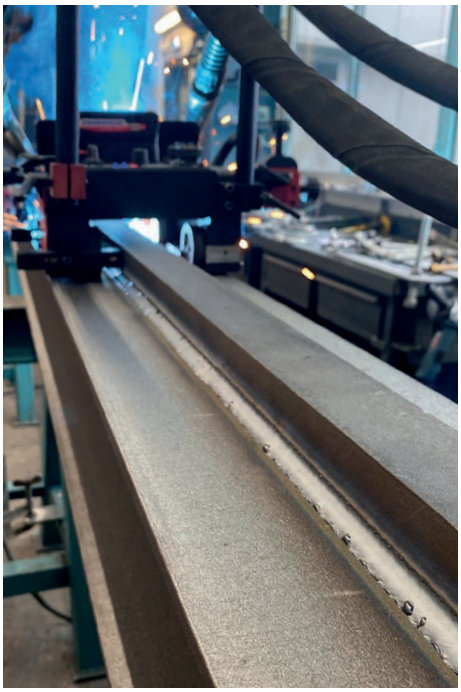
Short rod torch holder
with clamp 16–22 mm
UCW-0754-07-00-00-0

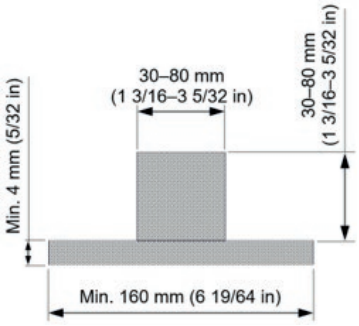
Rod 300 mm
WSP-0523-16-00-00-0

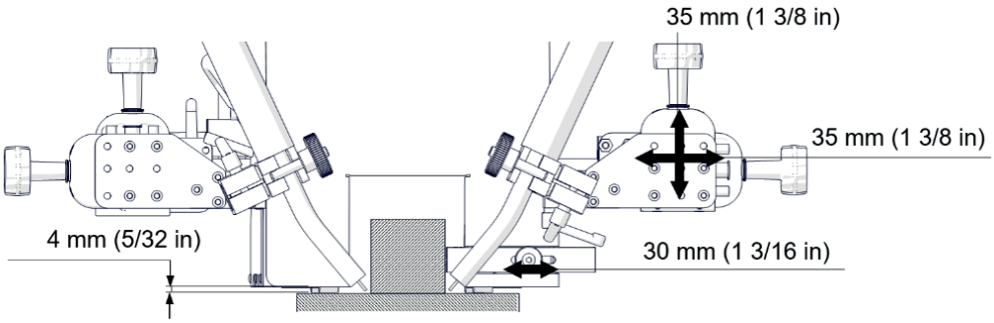
450 mm long rod
WLK-0824-0973-00-0

Double clamping block with levers
KST-0525-11-00-00-0

BEETLE BATTERY - TECHNICAL SPECIFICATION	
Voltage	18 V DC
Power	18 W
Welding position (according to EN ISO 6947 and AWS/ASME)	PA/1F/1G PB/2F
Torch type	MIG/MAG
Torch diameter	16–22 mm
Maximum allowed cable weight	8 kg (17.6 lbs)
Minimum workpiece thickness	4 mm (5/32")
Ground clearance	4 mm (5/32 in)
Dimensions of the bar between drive wheels	from 30 mm up to 80 mm (both W and H)
Minimum width of the running surface	160 mm (6 19/64")
Horizontal pulling force	150 N
Cross slide adjustment range	0–35 mm (0–1 3/8") up-down, left-right
Guide arm adjustment range	0 - 30 mm (1 3/16 ")
Horizontal speed	5–130 cm/min (2–51 in/min)
Weight (w/o battery)	17.3 kg
Product Code	WOZ-0830-10-18-01-0



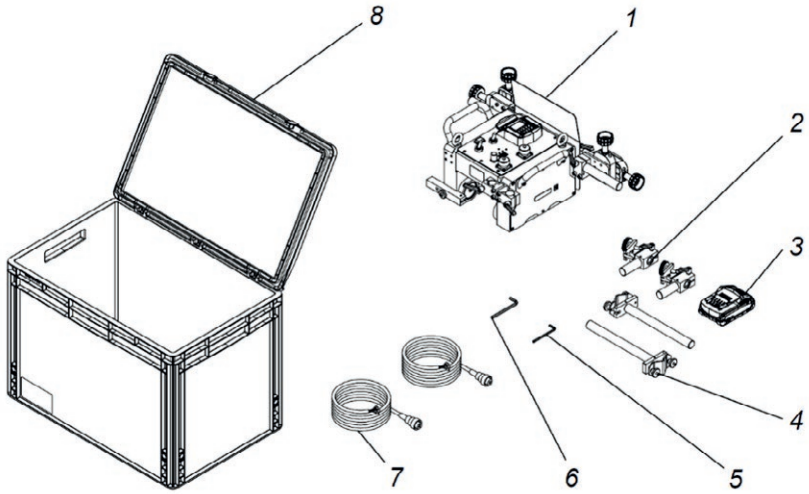




Minimum width of the running surface is 160 mm

BEETLE Battery shipping set

1. Welding tractor
2. Torch holders
3. CAS Battery 4.0 Ah
4. Cable anchors
5. 4 mm hex wrench
6. 5 mm hex wrench
7. Arc ignition cables
8. Plastic box
9. Operator's manual



More information at www.promotech.eu

All information is subject to change without notice. 26.10

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