

## ■ LIZARD | PROGRAMMABLE WELDING CARRIAGE

LIZARD is a portable, programmable welding carriage designed to produce consistently high-quality welds. Friction drive and control loop feedback mechanism provides speed stabilization in all positions.

The unit enables weld bead geometry that is exact to the required specifications, substantially reducing costly over welding and decreasing filler metal usage.

LIZARD can be programmed in continuous or stitch welding modes. Welder friendly two function buttons enable programming of selected welding patterns and parameters such as weld length, distance between welds, reverse fill, crater fill time and others.

LIZARD travels at full speed between stitches, which saves valuable welding time.



### ■ Applications:

- Trailer manufacturing
- Truck tanks
- Oil tanks
- Water storage tanks
- Transformers
- Shipyards
- Any application demanding stitch or a long, continuous fillet weld



A very important optional feature of LIZARD is oscillation attachment to produce weave welds. The unit can identify its connection automatically and configure suitable operating modes.

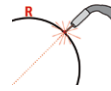
Torch oscillator increases significantly functionality of Lizard welding carriage by allowing it to operate in most out-of-position welding jobs.



Programming device up to 40 welding programs



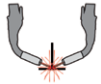
Dual Arc Ignition



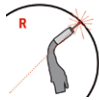
Min. path convex radius 1500 mm (5 ft)



Angular oscillation



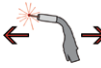
Dual torch welding



Min. path concave radius 1500 mm (5 ft)



Continuous welding



Horizontal speed 0-120 cm/min (0-47.2 in/min)



Weight 14 kg (31 lbs)

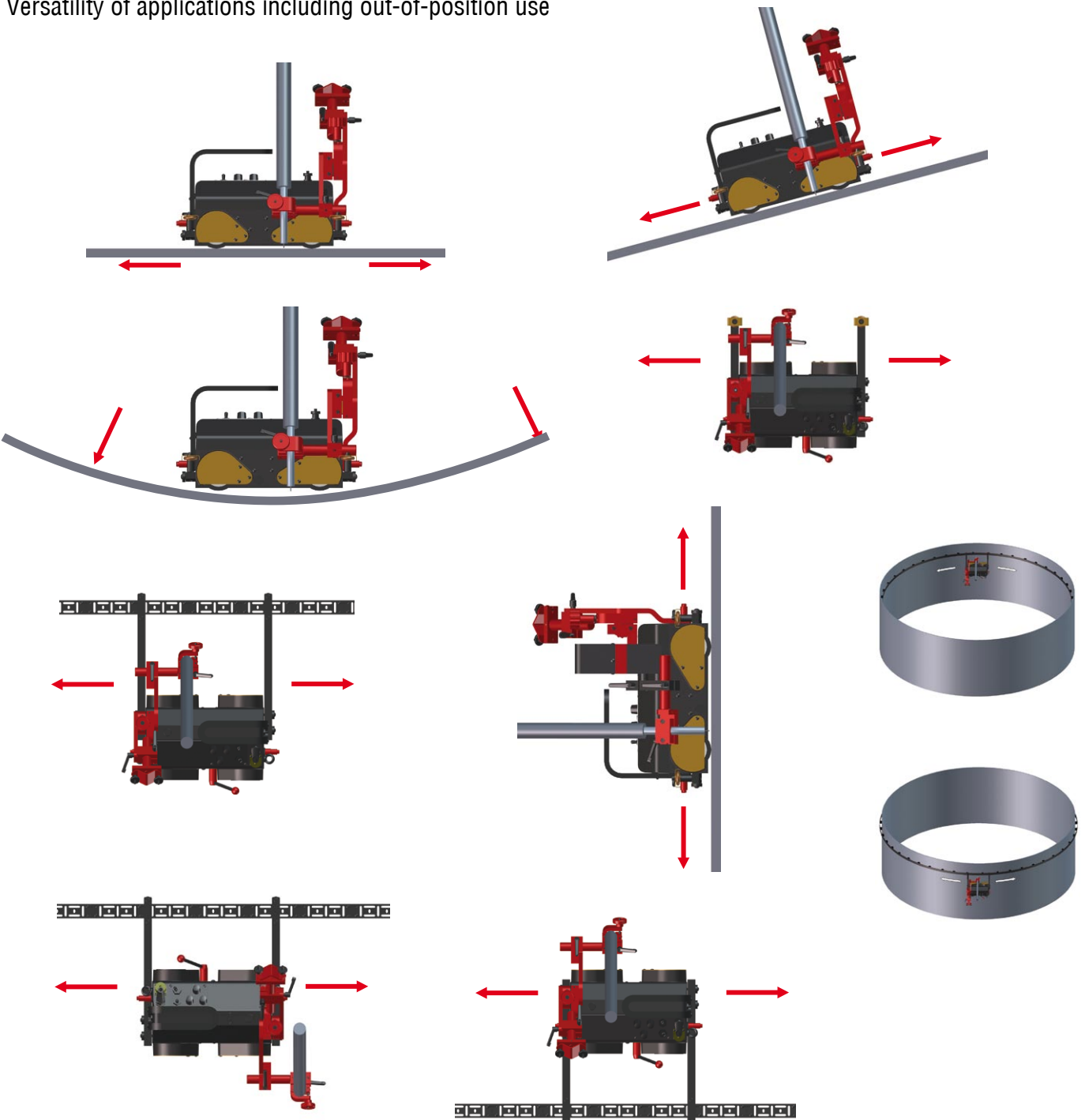


Stitch welding



Vertical speed 0-110 cm/min (0-43.3 in/min)

### Versatility of applications including out-of-position use

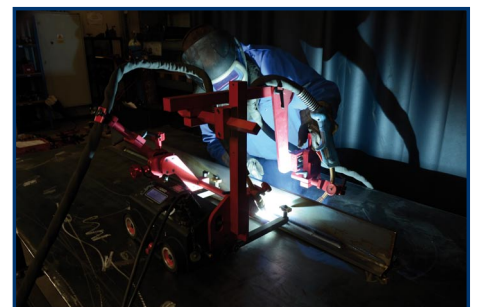
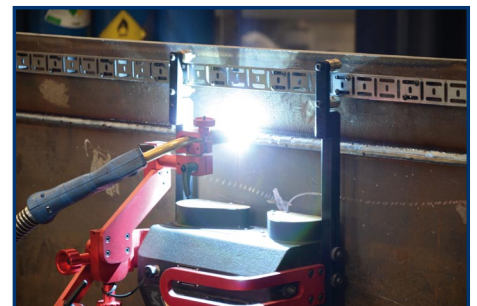
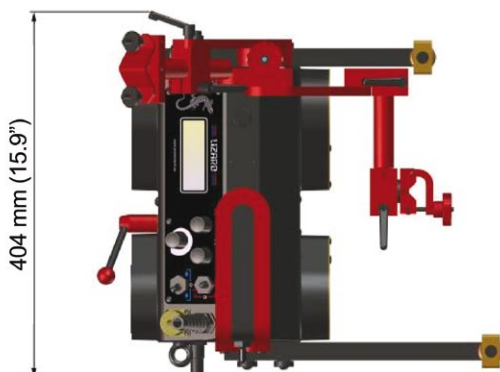
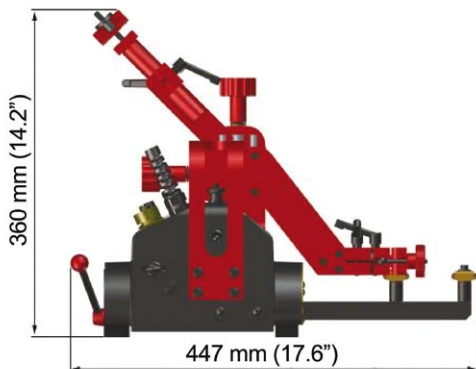




## Primary features and benefits:

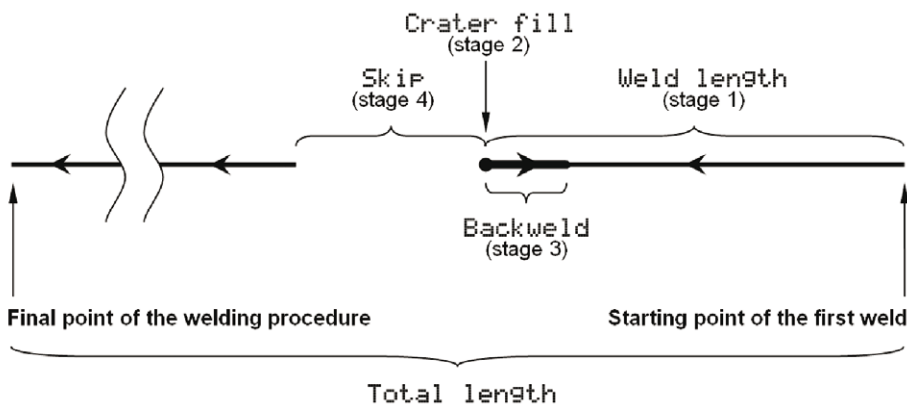
- Compact, lightweight design with durable aluminum cast housing
- Convenient Power Supply 115-230V 50/60Hz
- Positive magnetic traction permits out of position use
- Magnet on/off lever permits easy set up and adjustment on work piece
- Maintenance free 4-wheel drive with worm gear reduction
- Heat resistant silicone wheels
- Quick clamping Torch Holder mechanism for different types of MIG/MAG torches with diameters of 16-22mm (5/8" – 7/8"); optionally up to 35mm (1-3/8")
- Precise torch adjustment with screw drive cross slide
- Multifunctional LCD display and 2 function buttons for welding pattern programming
- Up to 40 complete programs may be stored in non-volatile memory
- Closed loop speed control system stabilizes travel speed to reduce weld defects and costly repair work
- Consistent heat input reduces distortion
- Reduced wasted filler metal – eliminates over welding
- Automatic ARC ON/OFF system initiates welding and travel, simultaneously
- Capable of carrying and controlling 2 torches (without oscillation)
- Self-guiding roller arms eliminate the need for track
- Multi-surface guiding

## Dimensions:



## LIZARD – TECHNICAL SPECIFICATIONS

Voltage		~ 115–230 V, 50–60 Hz
Power		25 W
Welding positions	horizontal	PA (flat), PB (horizontal vertical), PC (horizontal)
	vertical	PF (vertical)
Minimum path convex radius		1500 mm (5 ft)
Minimum path concave radius		1500 mm (5 ft)
Torch diameter		16–22 mm (0.63–0.87"); up to 35mm (OPTION)
Programming device		Definition and storage of up to 40 welding programs
Programmable variables		Carriage speed, weld length, skip, crater fill, backweld, total length
Additional settings available with oscillator (OPTION)		Osc. amplitude, Osc. Speed, Osc. Delay 1, Osc. Delay 2
Minimum welding material thickness		5 mm (0.20")
Ground clearance		5 mm (0.20")
Pulling force	horizontal work	220 N
	vertical work	150 N
Torch adjustment range		35 mm (1.38", up-down, left-right)
Horizontal speed		0–120 cm/min (0–47.2 in/min)
Vertical speed		0–110 cm/min (0–43.3 in/min)
Automatic stop		End switches at both sides
Menu language		English, French, German, Polish, Portuguese, Russian, Spanish, Turkish
Weight		14 kg (31 lbs)



Programmable variables diagram

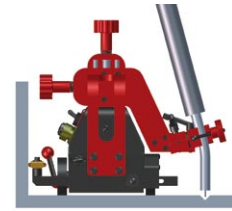
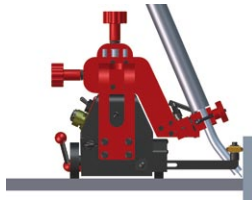
1. Operator's panel with control knobs and switches
2. Magnetic adhesion release lever
3. Power supply coupling
4. Weld contact / Arc ignition socket
5. Main Power Switch (0/I)
6. Cable anchor
7. Cross slide assembly
8. Quick clamp torch holder
9. Adjustable guide arm
10. Limit switch



## Standard accessories



PRW-0476-04-00-00-0  
Guide arm assembly with brass roller wheel



Power cord 3m (9,7 ft)



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



UCW-0476-20-00-00-0 Torch Holder  
Short Rod Clamp Assembly

## Optional Pendulum Oscillator

The oscillator features precise control of weave width, weave speed and dwell times.

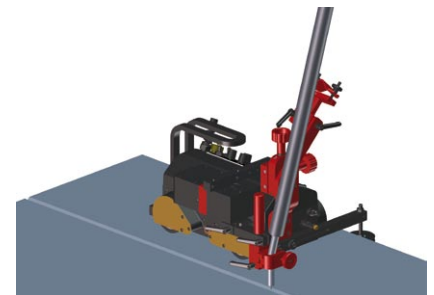
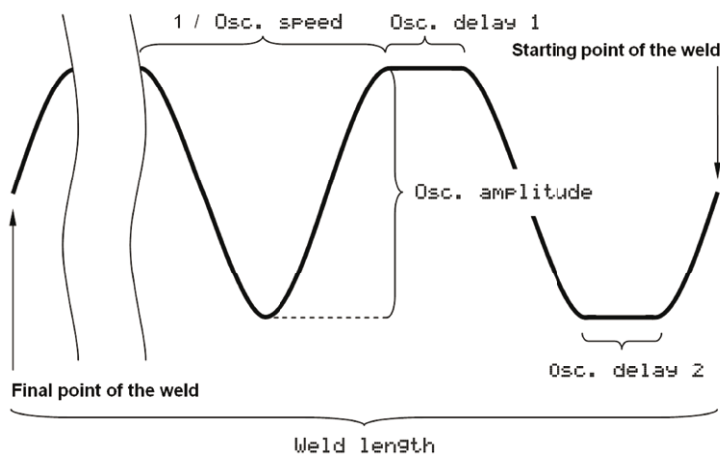


ZSP-0477-10-00-00-0  
Oscillator

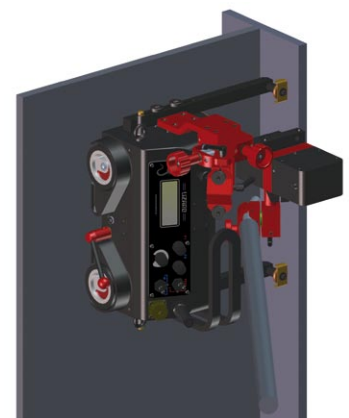


UCW-0476-06-00-00-0  
Torch Holder Lower Rod Clamp Assembly

### Oscillator settings diagram



Butt joint welding with oscillator



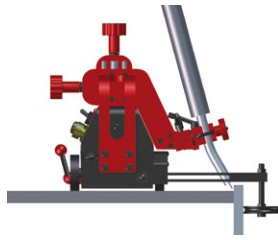
Fillet Welding with oscillator

Oscillation type	Pendulum (maximum 11°)
Oscillation amplitude at r=150 mm (5.9")	1–30 mm (1–100%)
Oscillation speed at oscillation amplitude of 10 mm (0.4")	7–164 cycles/min (1–100%)
Delay time range	0–5 s
Maximum torque	5 Nm (3.7 lb.ft)
Power	12 W
Weight	2 kg (4 lbs)

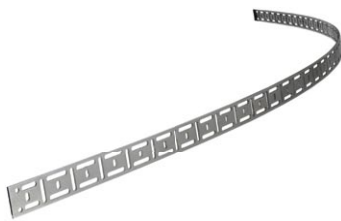
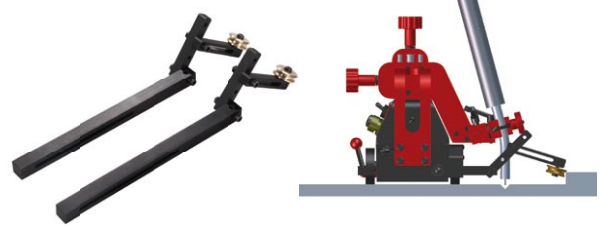
## Optional accessories for multi-surface guiding and variety of applications



PRW-0476-21-00-00-0  
Edge Following Guide Arms



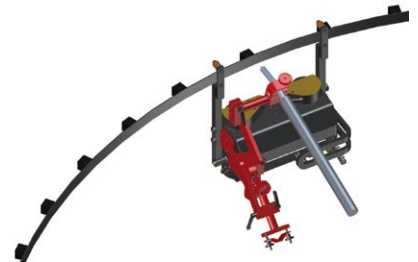
PRW-0476-22-00-00-0  
Adjustable Guide Arms



PRW-0466-50-01-01-0  
Flexible track 185cm(6ft) 1 pc



PRW-0476-50-01-00-0  
Track following Guide Arms



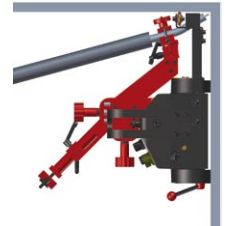
BLO-0466-50-01-10-0  
Magnet block 1pc



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



PRW-0476-52-00-00-0  
Magnet guide arms



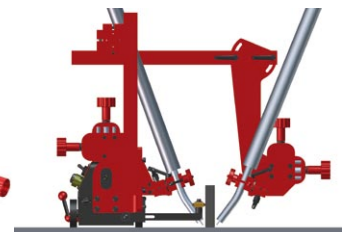
PRD-0466-43-00-00-0  
Torch Extension Arm



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



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



More information at [www.promotech.eu](http://www.promotech.eu)



**American Welding Society**  
Supporting Company Member

Mitglied im **DVS**  
DVS – Deutscher Verband für Schweißen  
und verwandte Verfahren e.V.



PROMOTECH Sp. z o.o.  
ul. Elewatorska 23/1, 15-620 BIAŁYSTOK, POLAND  
tel. (+48 85) 678 34 05, fax (+48 85) 662 78 77  
marketing@promotech.eu www.promotech.eu

Your local dealer:

