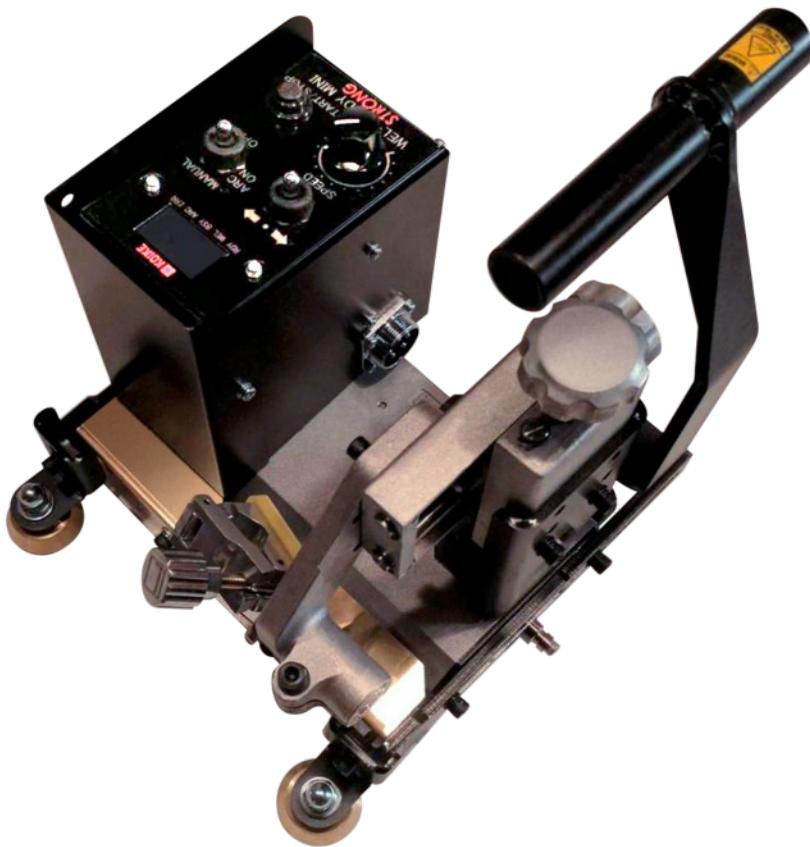


# WEL-HANDY MINI STRONG™

## Compact Welding Carriage for Continuous Welding



### Designed to perform a consistent, perfect weld.

The Wel-Handy Mini Strong is a compact welding carriage that was designed to go where most welding carriages could not. With its 10 inch footprint and impressive pulling capacity of 77 lb, it is sure to be found in some of the roughest welding terrain. The initial feature of this unit, is its ability to take a welding gun and pinpoint the exact parameters needed to perform a consistent perfect weld. Each machine with the help of even an inexperienced welder can perform basic repetitive fillet welds and butt joints by allowing the operator to focus directly on the welding process and secondary operations. By controlling the exact consistency of the weld bead, you can ensure time savings and reduce consumption of gases and filler metal commonly found in over-welding of components.

### Features & Benefits

- **Compact**  
Lightweight and easy to assemble.
- **Motor Feedback Control**  
Maintains consistent speeds throughout weld.
- **Electronic Overload Protection**  
Shuts down welder and machine simultaneously.
- **Carrying Handle**  
With integrated magnet detachment mechanism.
- **Permanent Magnet**  
77 lb (35kg) attachable/detachable magnet.
- **Limit Switches**  
Automatic stop or machine jog.
- **Guide Rollers**  
Highly adjustable on flex-mounts.
- **Digital Display**  
Clearly and visibly shows speed of the machine.
- **Designed for continuous welding**  
To reduce time and save money.
- **Multiple custom solutions available as attachments**  
Provides more abilities to the user.



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## Advanced control panel offers simplified operation

Basic left and right direction switch and volume-type speed control knob. Speed can be monitored on the digital display panel.

## Constant speed control verified by motor feedback

The advanced controller on the WEL-HANDY MINI STRONG has adopted an advanced motor feedback control with the use of a servo drive. This maintains a constant carriage traveling speed under any load.

Changes in load, either from the weight of welding equipment or a transition to a vertical position will not slow down the carriage or allow its speed to fluctuate. This guarantees the machine will provide consistent, high quality welds from the beginning to the end.

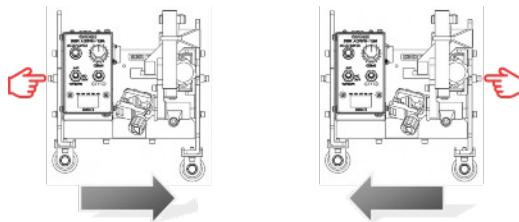
## Overload detection function

When excessive load is applied to the carriage, the machine will stop traveling and automatically turn off the welding arc which greatly reduces the chance of machine components breakage and excessive material damage commonly referred to as a run-away-arc.

The overload detection feature was designed to protect the machine's internal and external components and offer increased reliability by acting as a fail-safe for inexperienced operators.

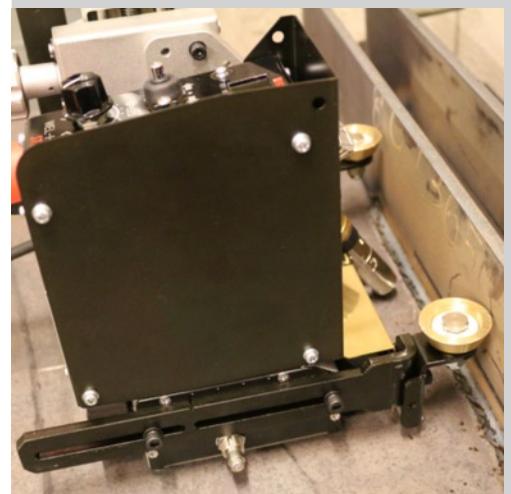
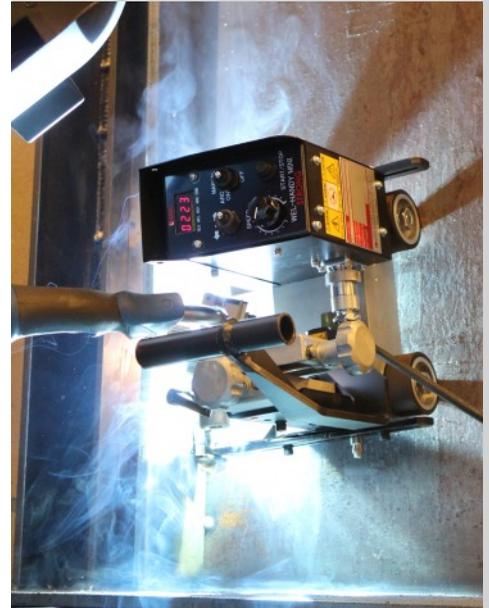
## Carriage position adjustment without lifting (patent pending)

Allows the operator the ability to position the carriage in place without the need to continuously move the machine once adhered to the plate. The machine will travel into position without firing an arc when either limit switch is being pressed. Precise start position adjustment can be achieved in a much more accurate and timely manner.



## Automatic stop by limit switch

The WEL-HANDY MINI STRONG is equipped with limit switches on either end of the machine. When a limit switch is pressed during welding the machine stops travelling and automatically turns off the welding signal. An experienced operator can use this benefit to run multiple systems at one time. This is most commonly found where many similar welds are being done within a confined environment allowing the operator to pass back and forth between machines.



## Mechanical components

### Lifting handle with magnet detachment mechanism

Magnet disengages just by pulling the lifting handle away from the workpiece. The articulated lifting device is designed to reduce the force necessary to disengage the lifting magnet while still giving a robust lift point after disengagement. An added benefit for operators running the machine on several processes throughout the day.

### Strong permanent magnet power 77 lb (35kg)

Enables the **WEL-HANDY MINI STRONG** to weld in horizontal, vertical and overhang welding positions with ease and allows the operator the comfort of remote access to confined spaces.



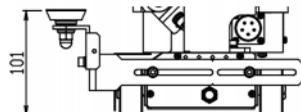
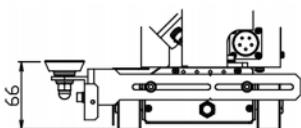
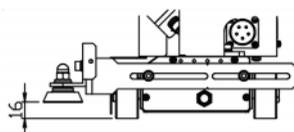
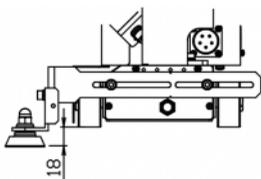
Vertical fillet welding



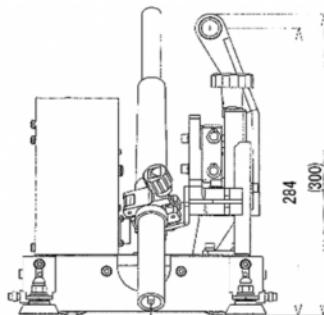
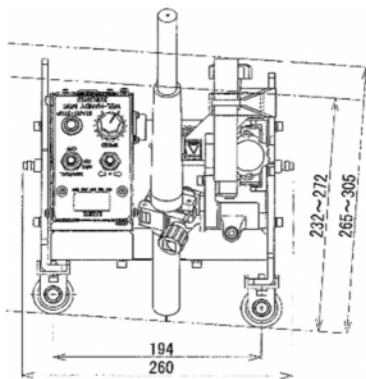
Overhang welding

### Widely adjustable guide roller positions

- Flexible guide roller height adjustment and wheel positioning.
- Guide roller can be flipped over to position on the back of the machine as well as configured to work in a hanging configuration.



SPECIFICATION		
Machine Weight		16.5 lb (7.5kg)
Traction force		35.2 lb (16kg)
Travel speed		4-39 in/min (100-1000mm/min)
Guiding system		Fillet tacking guide roller
Stand off (plate to base plate)		¼ in (5.5mm)
Magnet type		Lifting handle integrated
Torch adjustments	Torch angle	4-wheel driving rubber roller (chain transmission)
	Up/Down	1-¾ in (45mm)
	Forward/Backward	1-¾ in (45mm)
Automatic stop function		Limit switch on each end of carriage
Unwelded lengths (start & end total)		Approx. 10-¼ in (260mm)
Welding method		Continuous welding
Power & signal cable		Power and signal integrated Y-branch cable
Torch holder diameter		5/8 - 13/16 in (16~20mm)
Input power		DC24V (AC100-240V/DC24V AC Switching power supply included)



Model	Part#
Wel-Handy Mini Strong DC24V	61007281
System Components	
Machine body	
Power & Signal cable	
Allen keys (2pcs)	
Operation manual	



Koike Techno Center Products

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