

WEL-HANDY MULTI NEXT Main Specification

Model Name	WEL-HANDY MULTI NEXT	WEL-HANDY MULTI NEXT TACK	WEL-HANDY MULTI NEXT WEAVING
Driving System	4 Wheel Driving		
Traction	Horizontal Fillet 16kg (Standard Magnet / Strong Magnet) / Inferior Fillet 16kg (Including Body Weight)		
Gap (Floor ~ Bottom)	5.5 mm		
Magnet Up and Down mechanism	Magnet Release/ LIGHT Action Lever at Body Side		
Magnet Type	Permanent Magnet (Standard 20 kg, Strong 50 kg)	Permanent Magnet (Strong 50 kg)	
Travel Speed	50~1500 mm/min		
Tracking Method	Vertical Tracking by Guide Roller / Edge Tracking by Guide Roller		
Applicable Posture	Horizontal Fillet & Inferior Fillet by Strong Magnet	Horizontal Fillet & Inferior Fillet	
Start Interlocking Welding		○	
Automatic Stop by Limit Switch		○	
Arc Test		○	
Arc Stabilization Time (sec)	—	0~10.0	
Crater Current Correspondence	—	○	
Tack	—	○	
Weaving	Weaving Speed (mm/min)	—	400~1500
	Weaving Width (mm)	—	0.0~100.0
	Stop Time on Left, Middle, Right	—	0.0~10.0
Body Weight (kg)	8.5 (8.7kg for Strong Magnet type)	8.8	10.8
External Dimensions W x D x H (mm)	280×280×250		310×280×250
Input Power Supply	Single-phase AC100~240V 50Hz/60Hz		

Challenge for 100% Welding Automation! Drive Welding carriage for NEXT stage !

WEL-HANDY MULTI

NEXT

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CUTTING, POSITIONING & WELDING EQUIPMENT
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Overview

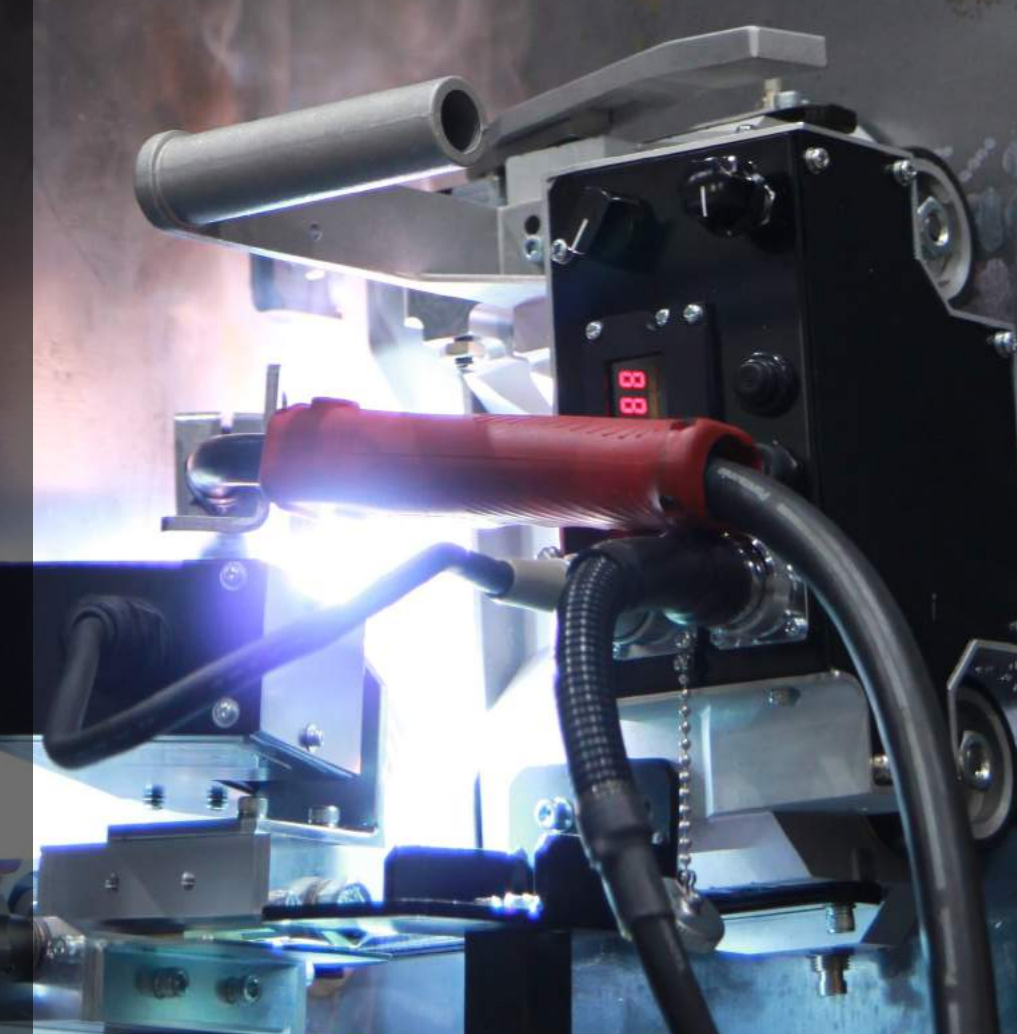
WEL-HANDY MULTI NEXT is a high performance type of welding carriage that is equipped with a powerful driving engine and is available with diversifying application of welding carriage. Due to the newly developed gearbox the durability of the series' best driving system has been secured.

Stable running becomes available by the adsorption power of permanent magnet and the 4 wheels driving system. The strong magnet type is equipped with the industry leading power of 50kg ones, and it supports any kind of welding posture.

In addition to the standard specification special models are available for special welding application, such as tack and weaving. Moreover, by combining between the various options, such as guide rollers and twin torch modules, customization according to the requirements of the site becomes possible.

TACK and WEAVING as the high function types, are both equipped with high function Digital Numerical Control, and the various parameters available can be changed even during welding construction.

WEL-HANDY MULTI Series are celebrating its 16th anniversary, thanks to our customers support. We'll keep improving WEL-HANDY MULTI Series to always fill the needs of our customers with the highest technologies.



Features

● **New Powerful Driving System**

Newly developed gear box has the highest permissible torque. Various option can be installed by improved durability performance.

● **New Light Action Lever for up/down**

Newly developed patented technology, Magnet Slide type lever vertical mechanism allows you to detach the magnet with a small effort.

● **Industry Leading Adsorption Power**

A permanent magnet with an adsorption power of 25kg is installed as a standard type. The 4-wheels rubber roller provides reliable and stable traction. The carriage/weaving specification is equipped with a class-best level 50kg magnet as standard, which allows equipment to perform also upward welding.

● **Start Point Adjustment Function with Easy Start Positioning**

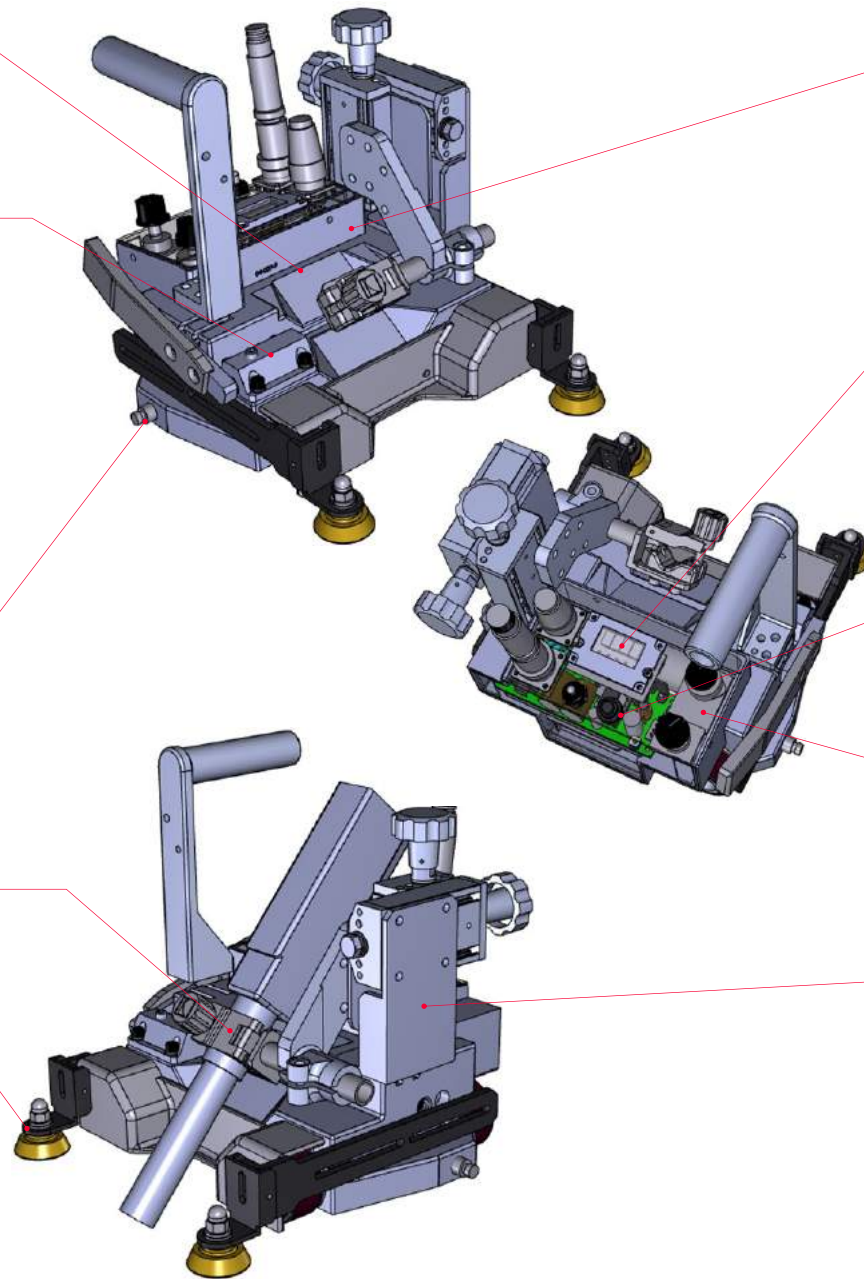
Our patented technology of "Low Speed Positioning Function" is available. Pushing the limit switch with equipment stopped, the carriage will run at a very slow speed, allowing you to adjust to the welding start position without need for lifting the carriage.

● **New Straight Torch/Curved Torch common used Clamp**

The torch clamp is compatible with Straight and Curved Torches, with a wide range of torch diameter.

● **Guide Roller used for Multiple Purpose**

Since the guide roller has a wide range of movability in the vertical direction, and can be set on either front or rear of the machine body, equipment can be used for a wide variety of purposes depending on the idea, from vertical plate tracing to edge tracing.



● **New High Durability Case made of Aluminum Die-Casting**

A new case stuck specially designed for Usability and Scalability. For installation of bolts and others, slide nut system excellent in thread holes durability is adopted.

● **Control Device with Excellent Stability and Scalability**

Control unit is equipped with "L-system" which has proven track record with WEL-HANDY MULTI II. The L-system is an original system of KOIKE that connects PCBs, and has a high scalability. By adding or combining PC boards, various functions are available, such as tack welding, weaving welding, and tandem welding.

● **Operation Panel Design Easy to Use**

Control panel is slightly tilted to make the digital display easier to be seen, and the switch are smartly positioned so it can be operated even when using leather gloves.

● **Auto Stop Function for Overload Detection**

If overload occurs in the driving system due to interference of some obstacles, etc., welding and running will be stopped at same time, avoiding damages to the machine.

● **New Easy Slide Unit with Optional Layout**

By adopting rail slide mechanism, newly developed slide unit, makes it easy to install various equipment and options. Furthermore, the structure of dial part was reconsidered, allowing the carrying out of the dial operation even more uniformly than before.

< **WEL-HANDY MULTI NEXT TACK** >

Tack welding is available by alternating between welding runs and dry runs. Carriage moves at its maximum speed during dry run, which contributes to the shortening of welding time, and also supports specification of crater process at end of welding bead.



< **WEL-HANDY MULTI NEXT WEAVING** >

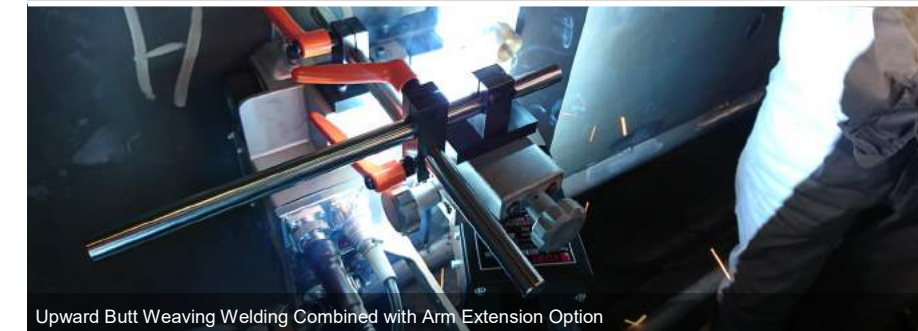
By mounting the weaving unit, a large weld bead can be achieved by swing the torch left and right. The powerful magnet installed allows machine to perform upward welding while climbing the wall.



Versatility on Multiple Worksites

Welding carriages contribute to labor saving at the manufacturing site of steel structures with long welding lengths. WEL-HANDY MULTI series is used for various purposes besides fillet welding.

Here we introduce some application examples by combination of options.



Upward Butt Weaving Welding Combined with Arm Extension Option

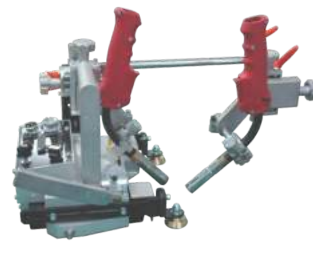
Customization Options

WEL-HANDY MULTI Series is designed to be used for multi-purpose as its name implies. A wealth of options are prepared, so please feel free to contact us.

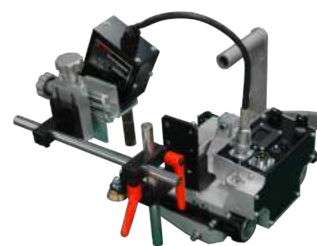
For other options and customization, please contact our distributor in your country or KOIKE sales.



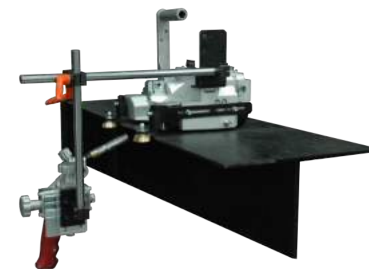
Stock No. 61006604
Twin Torch Module



Stock No. 61006604
Compact Twin Torch Module



Stock No. 61006608
Butt Weaving Module



Stock No. 61006609
Torch Extension Arm Module



Corner Welding by Edge Imitation Guide Roller and Torch Extension



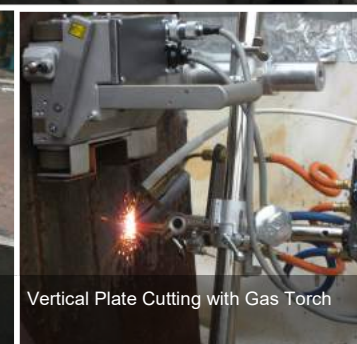
Tank Welding with Built-In Angle Sensor interlocking with Turning Roll



Two Torch Welding by Twin Torch Option



Curved Corner Welding by Torch Extension Arm and Weaving Unit



Vertical Plate Cutting with Gas Torch



Tank Welding with Built-in Angle Sensor interlocking with Turning Roll