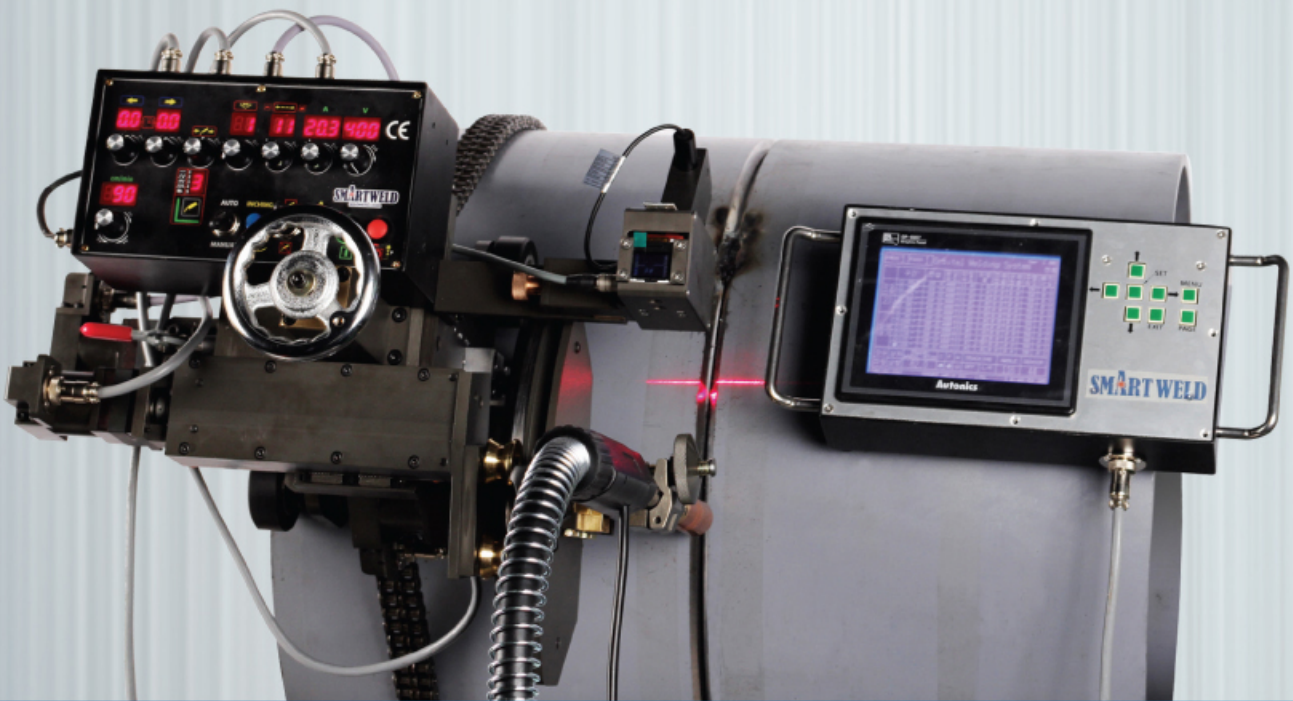
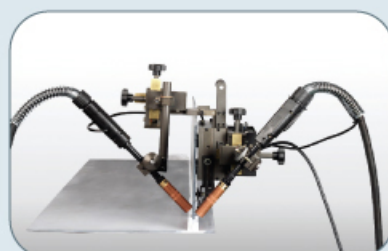
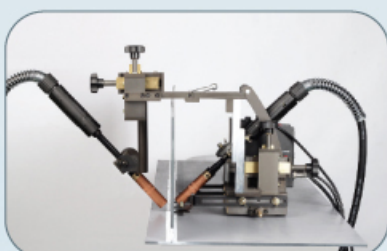


AUTOMATED WELDING SYSTEMS



Great Ideas For Welding...



PRODUCT LIST.

● PIPER WELDERS

SW-TIG PIPER	P4
Automated self propelling TIG piper	
SW-MIG PIPER	P5
Automated self propelling MIG piper	

● HORIZONTAL FILLET WELDERS

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Fillet welder, stitch & continuous	
SW-F12	P7
Fillet welder wall driving stitch & continuous	
SW-F21	P8
Dual torches, fillet welder	
SW-F22	P9
Dual torches fillet welder, wall driving stitch & continuous	
SW-F2U	P10
U-RIB Fillet welder	

● VERTICAL FILLET WELDER

SW-F1W	P11
Fillet welder with oscillation functions with a remote controller	

● OSCILLATORS

SW-WPO	P12
Weaver Pendulum Oscillator	
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● RAIL TRAVELLING MULTI - WELDERS

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Multi Butt-Fillet-Weave welder with rail include a remote controller	
SW-M12	P15
Butt-Fillet Multi Welder with aluminum rail	

● BEVELLING MACHINE

SW-PBM	P16~17
Pipe bevelling machine	

● RAILS

SW-RM1 – Rigid Al rail with 3-magnet on-off type	P18
SW-RV1 – Rigid Al rail with 3-vacuum cup and pump	
SW-RF1 – Flexible stainless steel rail with 4-magnet on-off type	

● CERTIFICATE

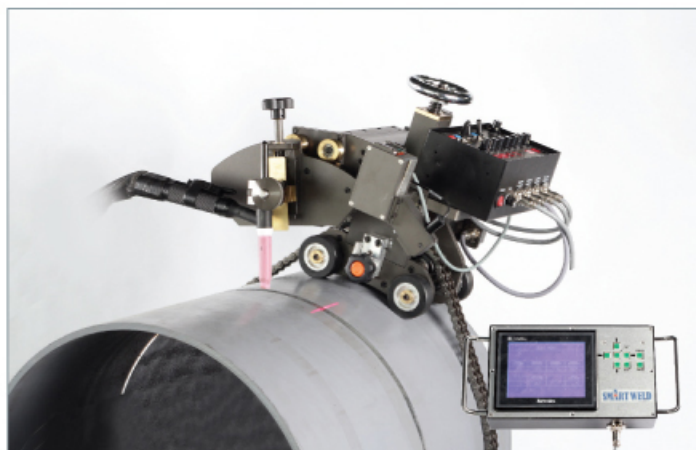
.....	P19
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To improve product quality, the specification and Model can be changed without a prior notice or a consent for all the products



SW-TIG PIPER

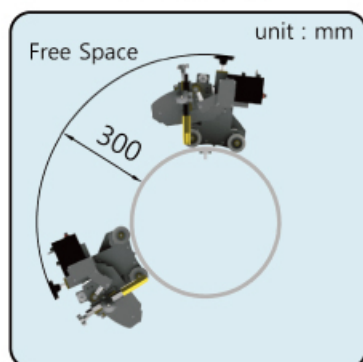
Automated self propelling TIG piper



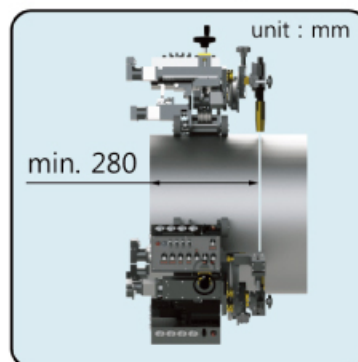
Features

- * TIG filler mounted on the welder and solid wire feeds automatically.
- * Applicable to min diameter 350mm with 280mm long .
- * Laser sensor tracks the weld line and tracking constantly.
- * Inclination sensor 5 degree each, compensates welding angle, current, voltage, speed and etc that provides quality welding.
- * The welder can be controlled at both a local panel and a remote controller.
- * The welder propells along to the chain.
- * Applicable Power Source : Inverter Type.

mounting



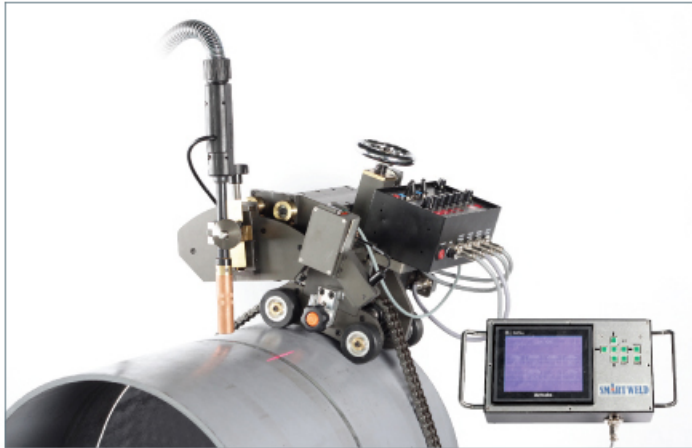
mounting



GENERAL	SIZE	300(W) x 470(L) x 330(H)
	WEIGHT	14 Kg
	INPUT VOLTAGE	DC24V
TRAVELLING UNIT	SPEED	0~860mm/min (VARIABLE))
	MECHANISM	4 Wheels Chain-Drive
	MOTOR	DC24V, 12W, 5000 RPM
	REDUCER	1:400
	CLUTCH	MANUAL MOVING CLUTCH
TORCH UNIT	TORCH TILTING ANGLE	±30°
	TILTING REDUCER	1:1000
	TILTING SPEED	0 ~ 5 rpm
	TORCH ADJUST	UP-DOWN 0 ~ 60mm
WEAVING UNIT	METHOD	LINEAR WEAVING
	WIDTH	0 ~ 100mm
	REDUCER	1:10
	SPEED	0 ~ 15 mm/s
	MOTOR	DC24V, 12W, 5000RPM
LASER SENSOR	TRACKING RANGE	±10mm
GAS	Ar 100%	

SW-MIG PIPER

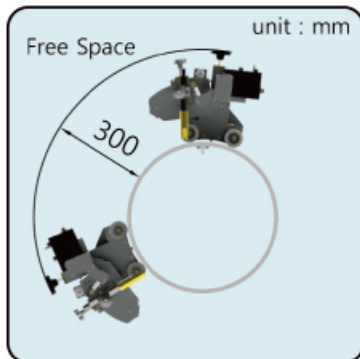
Automated self propelling MIG piper



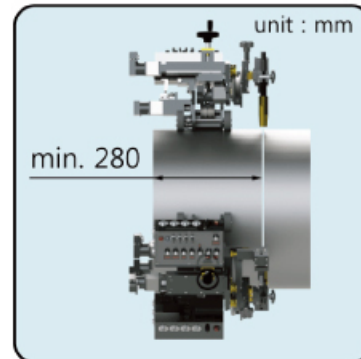
Features

- * Flux core wire feeds from a separated wire feeder.
- * Applicable to min diameter 350mm with 280mm long.
- * Laser sensor tracks the weld line and tracking constantly.
- * Inclination sensor 5 degree each, compensates welding angle, current, voltage, speed and etc that provides quality welding.
- * The welder can be controlled at both a local panel and a remote controller.
- * The welder propells along to the chain.
- * Applicable Power Source : SCR, Inverter Type.

mounting



mounting



GENERAL	SIZE	300(W) x 470(L) x 330(H)
	WEIGHT	14 Kg
	INPUT VOLTAGE	DC24V
TRAVELLING UNIT	SPEED	0~860mm/min (VARIABLE))
	MECHANISM	4 Wheels Chain-Drive
	MOTOR	DC24V, 12W, 5000 RPM
	REDUCER	1:400
	CLUTCH	MANUAL MOVING CLUTCH
TORCH UNIT	TORCH TILTING ANGLE	±30°
	TILTING REDUCER	1:1000
	TILTING SPEED	0 ~ 5 rpm
	TORCH ADJUST	UP-DOWN 0 ~ 60mm
WEAVING UNIT	METHOD	LINEAR WEAVING
	WIDTH	0 ~ 100mm
	REDUCER	1:10
	SPEED	0 ~ 15 mm/s
	MOTOR	DC24V, 12W, 5000RPM
LASER SENSOR	TRACKING RANGE	±10mm
MIXED GAS	Ar 80% CO ₂ 20%	

PIPE
WELDERS

HORIZONTAL FILLET
WELDERS

VERTICAL
FILLET WELDER

OSCILLATORS

RAIL TRAVELLING MULTI
WELDERS

BEVELLING MACHINE

RAIL



SW-F11

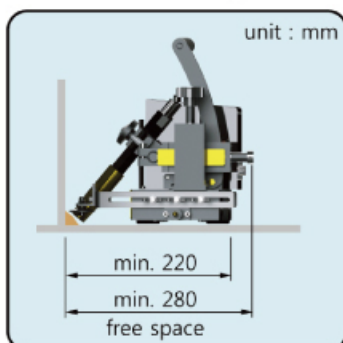
Fillet welder, stitch & continuous



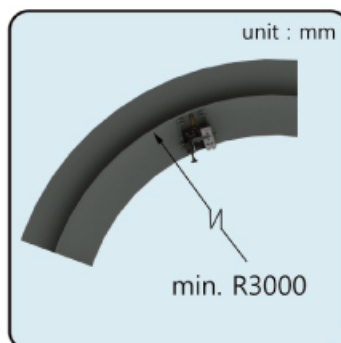
Features

- * Single torch welder for bottom driving, Stitch and continuous drives on the bottom of the work piece.
- * The torch can fit both straight and manual torch.
- * X-Y slider can widely set the torch.
- * Max climb up to 30° incline, max pulling 20kg.
- * Crater fill time for weld start and stop can be controlled from 0~3 seconds.

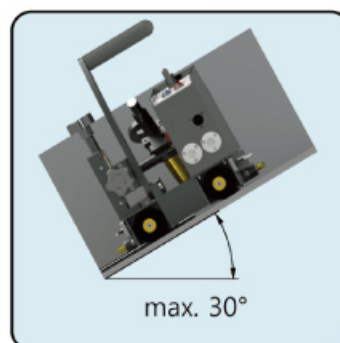
Mounting



Curved round



Incline angle



GENERAL	SIZE	262(W)X270(L)X298(H)
	WEIGHT	6.3 Kg
	INPUT VOLTAGE	AC 100~ 240V, 50-60Hz, 1Phase
TRAVELLING UNIT	MECHANISM	4 Wheels-Chain-Drive
	MOTOR	DC 24V, 12W, 5000rpm
	SPEED	0~860mm/min
	REDUCER	1:400
XY SLIDE UNIT	X SLIDE STROKE	0~50mm
	Y SLIDE STROKE	0~50mm

SW-F12

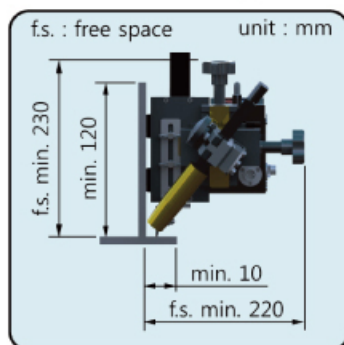
Fillet welder wall driving stitch & continuous



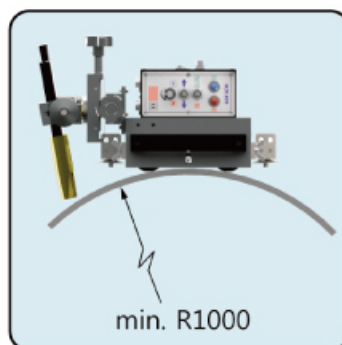
Features

- × Wall driving for Fillet welder.
- × X-Y slider provides setting widely can set of the torch.
- × Torch can fit both Straight and manual torch.
- × Max climb up to 30° incline, max pulling 20kg.
- × Crater fill time for weld start and stop can be controlled from 0~3 seconds.

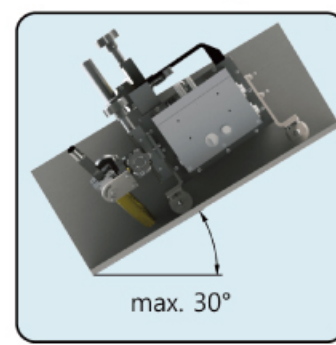
Mounting



Curved round



Incline angle

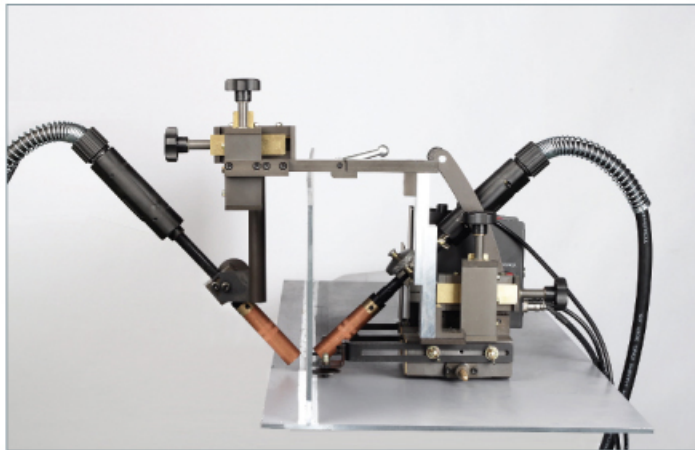


GENERAL	SIZE	378(W)X215(L)X228(H)
	WEIGHT	6.3 Kg
	INPUT VOLTAGE	AC 100~ 240V, 50-60Hz, 1Phase
TRAVELLING UNIT	MECHANISM	4 Wheels-Chain-Drive
	MOTOR	DC 24V, 12W, 5000rpm
	SPEED	0~1720mm/min
	REDUCER	1:400
XY SLIDE UNIT	X SLIDE STROKE	0~50mm
	Y SLIDE STROKE	0~50mm



SW-F21

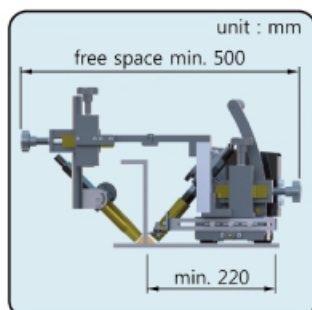
Dual torches, fillet welder



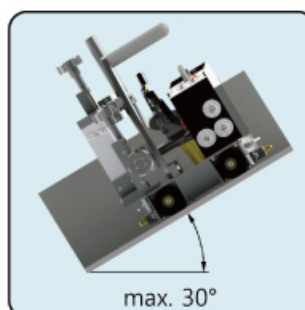
Features

- * Dual torch welder both side stitch and continuous welding for horizontal down weld that saves cost of welding hours, the welder drives on bottom of the work piece by powerful magnets.
- * Torch can fit both Straight and manual torch.
- * X-Y slider can widely set the torch.
- * Max climb up to 30 ° incline, max pulling 20kg.
- * Crater fill time for weld start and stop can be controlled from 0~3 seconds.

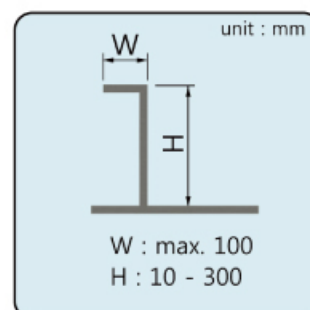
Mounting



Incline angle



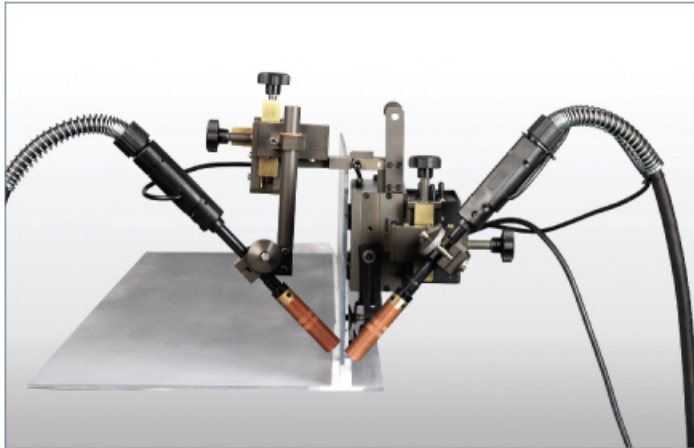
RIB dimension



GENERAL	SIZE	290(W)X440(L)X330(H)
	WEIGHT	8.9 Kg
	INPUT VOLTAGE	AC 100~240V, 50-60Hz, 1Phase
TRAVELLING UNIT	MECHANISM	4 Wheels-Chain-Drive
	MOTOR	DC 24V, 12W, 5000rpm
	SPEED	0~860mm/min
	REDUCER	1:400
XY SLIDE UNIT	X SLIDE STROKE	0~50mm
	Y SLIDE STROKE	0~50mm
EXTENDED TORCH	TORCH ADJUSTABLE ANGLE	45°±10°
	X SLIDE STROKE	0~50mm
	Y SLIDE STROKE	0~50mm
	Y CLAMP SLIDE STROKE	0~80mm

SW-F22

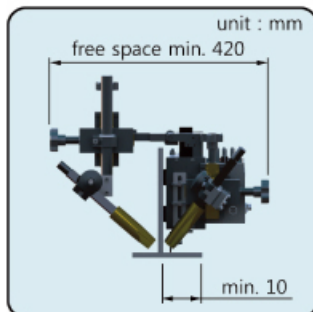
Dual torches fillet welder, wall driving stitch & continuous



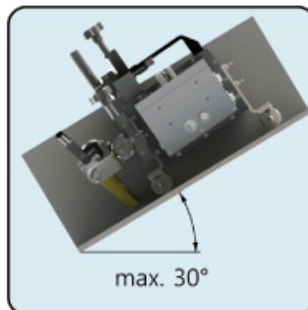
Features

- * Dual torch fillet welder, wall driving stitch and continuous that saves cost of welding hours and drives on the bottom of the work piece.
- * X-Y slider provides setting widely of the torch.
- * Torch can fit both Straight and manual torch.
- * Max climb up to 30° incline, max pulling 20kg.
- * Crater fill time for weld start and stop can be controlled from 0~3 seconds.

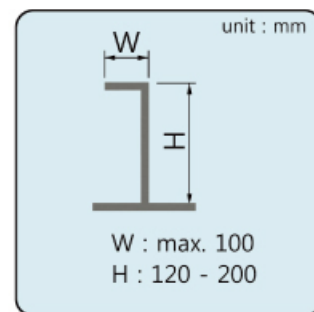
Mounting



Incline angle



RIB dimension

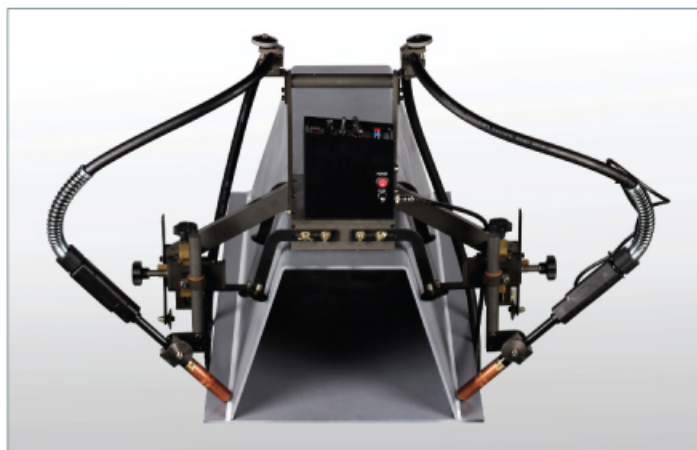


GENERAL	SIZE	378(W)X360(L)X330(H)
	WEIGHT	8.2 Kg
	INPUT VOLTAGE	AC 100~240V, 50-60Hz, 1Phase
TRAVELLING UNIT	MECHANISM	4 Wheels-Chain-Drive
	MOTOR	DC 24V, 12W, 5000rpm
	SPEED	0~860mm/min
	REDUCER	1:400
XY SLIDE UNIT	X SLIDE STROKE	0~50mm
	Y SLIDE STROKE	0~50mm
EXTENDED TORCH	TORCH ADJUSTABLE ANGLE	45°±10°
	X SLIDE STROKE	0~50mm
	Y SLIDE STROKE	0~50mm



SW-F2U

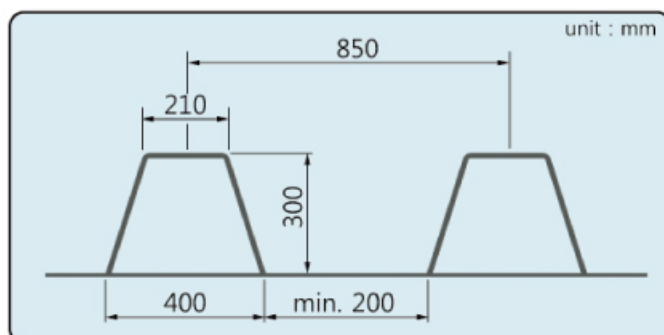
U-RIB Fillet welder



Features

- * Fillet welder for U-RIB profile.
- * The arm height adjustable arc to The guide arms adjustable, to meet work piece height.
- * By means of torch clamp tension the welder drives along to the weld line, get a quality welding.
- * Torch can fit both Straight and manual torch.
- * Other dimensions acceptable.

RIB dimension



GENERAL	SIZE	750(W)X270(L)X650(H)
	WEIGHT	12.5 Kg
	INPUT VOLTAGE	AC 100~ 240V, 50-60Hz, 1Phase
TRAVELLING UNIT	MECHANISM	4 Wheels-Chain-Driver Motor
	MOTOR	DC 24V, 12W, 5000rpm
	SPEED	0~860mm/min
	REDUCER	1:400
XY SLIDE UNIT	X SLIDE STROKE	0~50mm
	Y SLIDE STROKE	0~50mm

SW-F1W

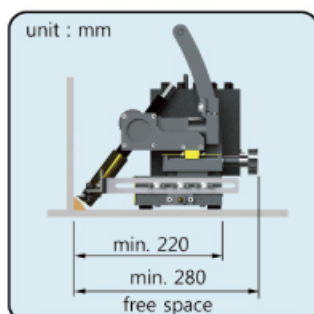
Fillet welder with oscillation functions with a remote controller



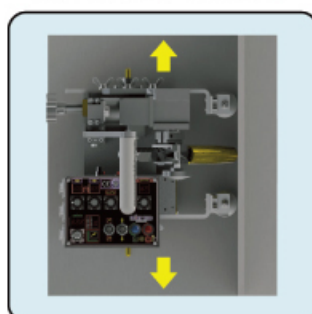
Features

- * Vertical-up fillet welder controlling both side at a local panel and a remote controller.
- * Powerful magnets and guide roller wheel clamps directly to the work piece.
- * Digital programmable control of weave parameters that includes tractor speed, weaver speed and weave width. this also has independent settings for left / right dwell.
- * Wireless remote control, available to control as a long distance up to 50meter.

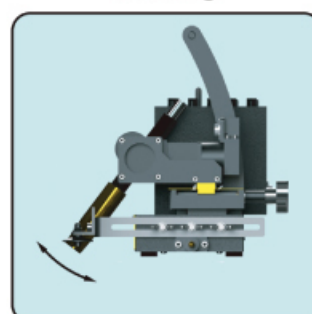
Mounting



Vertical up welding



Weaving

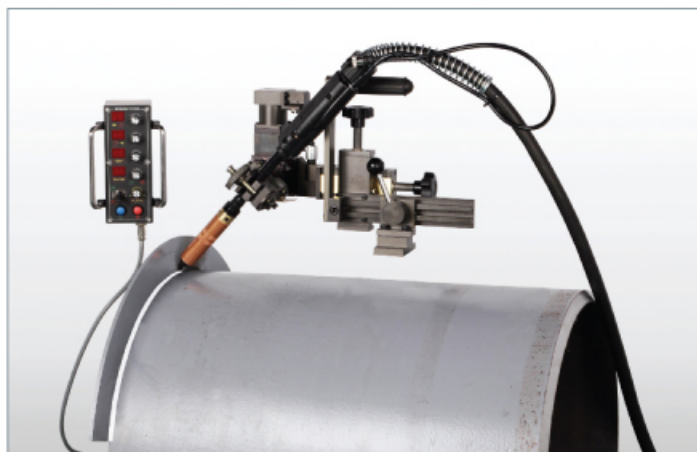


GENERAL	SIZE	290W)X270(L)X298(H)
	WEIGHT	7.7 Kg
	INPUT VOLTAGE	AC 100~240V, 50-60Hz, 1Phase
TRAVELLING UNIT	MECHANISM	4 Wheels-Chain-Drive
	MOTOR	DC 24V, 12W, 5000rpm
	SPEED	0~860mm/min
	REDUCER	1:400
XY SLIDE UNIT	X SLIDE STROKE	0~50mm
WEAVING UNIT	MOTOR	DC 24V, 12W, 5000rpm
	REDUCER	1:1000
	SPEED	0~5rpm
	WIDTH	±16°
	LEFT/RIGHT STOP	0~9.9sec . dwell
	MODE	→



SW-WPO

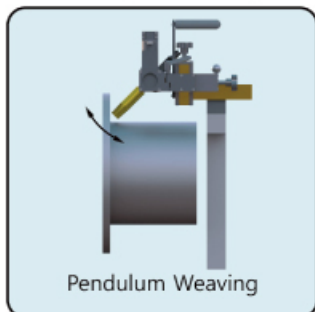
Weaver Pendulum Oscillator



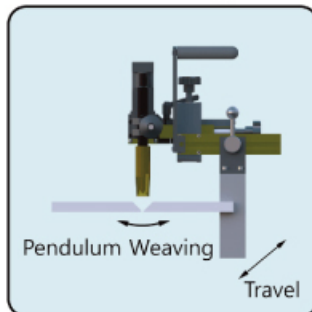
Features

- * Butt and fillet welder suitable for a cylindrical work piece like flange welding, also column/boom and rotator needed to fix the machine.
- * Weaving shape is a pendulum oscillating.
- * The torch stops at an original position if unexpected thing happens.
- * Light weight, smaller size and portable.

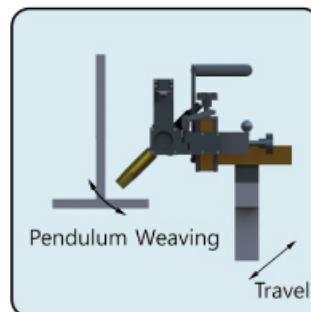
Flange welding



Butt welding



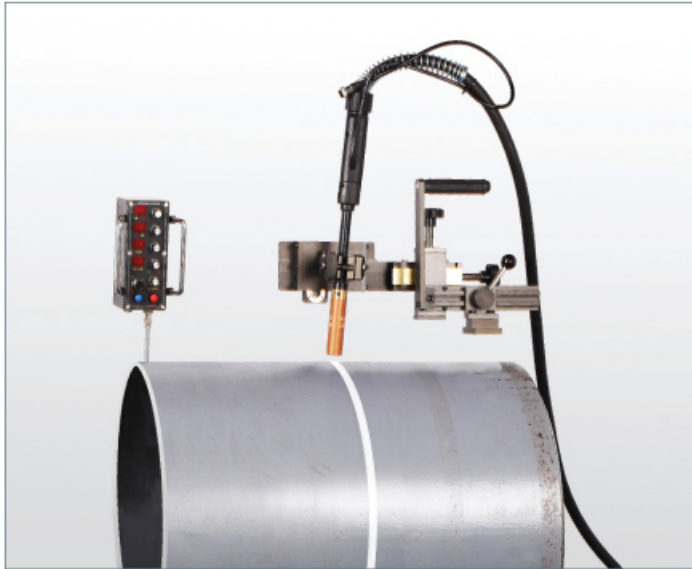
I-bar welding



GENERAL	SIZE	160(W)X304(L)X250(H)
	WEIGHT	3.4 Kg /1.5 Kg(Remote Controller)
	INPUT VOLTAGE	AC 100~240V, 50-60Hz, 1Phase
SLIDE UNIT	X SLIDE STROKE	0~50mm
	Y SLIDE STROKE	0~50mm
	RAPID SLIDE STROKE	0~150mm
WEAVING UNIT	MOTOR	DC 24V, 12W, 5000rpm
	REDUCER	1:1000
	SPEED	0~5rpm
	WIDTH	Max. 15°
	LEFT/RIGHT STOP	0~9.9sec

SW-WLO

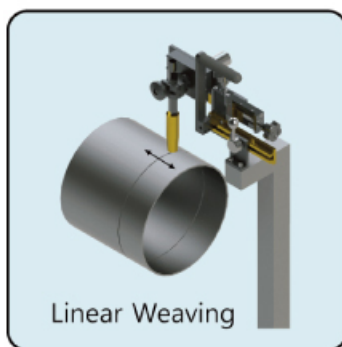
Weaver Linear Oscillator



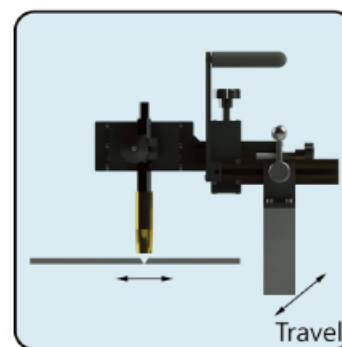
Features

- * Butt welder for a cylindrical like pipe to pipe, also column/boom and rotator needed to fix the machine.
- * Weaving shape is a linear oscillating.
- * The torch stops at an original position if unexpected thing happens.
- * Light weight, smaller size and potable.

Application



Butt welding



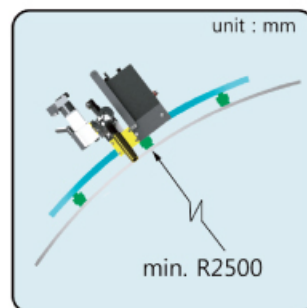
GENERAL	SIZE	160(W)X383(L)X253(H)
	WEIGHT	3.8 Kg /1.5 Kg(Remote Controller)
	INPUT VOLTAGE	AC 100~240V, 50-60Hz, 1Phase
SLIDE UNIT	X SLIDE STROKE	0~50mm
	Y SLIDE STROKE	0~50mm
	RAPID SLIDE STROKE	0~150mm
WEAVING UNIT	MOTOR	DC 24V, 12W, 5000rpm
	REDUCER	1:100
	SPEED	0~40mm/sec
	WIDTH	0~60mm
	LEFT/RIGHT STOP	0~9.9sec

Multi Butt-Fillet-Weave welder with rail include a remote controller



- ✦ Multi welder such as butt/fillet and down-overhead-horizontal-vertical up positions with weaving functions.
- ✦ Digital programmable control of weave parameters that includes tractor speed, weaver speed and weave width. this also provides independent settings for left / right dwell.
- ✦ Wireless remote control, available to control as a long distance up to 50meter.
- ✦ Applicable rails, each 1.5meter standard long.
 - Aluminum rigid rail with 3-magnet on-off type.
 - Aluminum rigid rail with 3-vacuum cup for non metallic materials.
 - Flexible stainless steel rail with 4-magnet on-off type.

Flexible Rail



GENERAL	SIZE	330(W)X284(L)X240(H)
	WEIGHT	7.0 Kg
	INPUT VOLTAGE	AC 100~240V, 50-60Hz, 1Phase
TRAVELLING UNIT	MECHANISM	Rack-Pinion, Geared Motor
	MOTOR	DC 24V, 12W, 5000rpm
	SPEED	0~750mm/min
	REDUCER	1:400
	GEAR CLUTCH	Manual Moving Clutch
SLIDE UNIT	X SLIDE STROKE	0~50mm
	Y SLIDE STROKE	0~50mm
	RAPID SLIDE STROKE	0~150mm
WEAVING UNIT	MOTOR	DC 24V, 12W, 5000rpm
	REDUCER	1:1000
	SPEED	0~5rpm
	WIDTH	Max. 15°
	LEFT/RIGHT STOP	0~9.9sec
	MODE	
RAIL	RAIL TYPE	RIGID MAGNET & VACUUM, FLEXIBLE
	LENGTH	1.5m
	WEIGHT	8.0 Ka/8.5Ka/8.5Ka

SW-M12

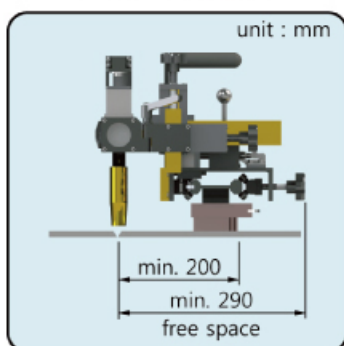
Butt-Fillet Multi Welder with aluminum rail



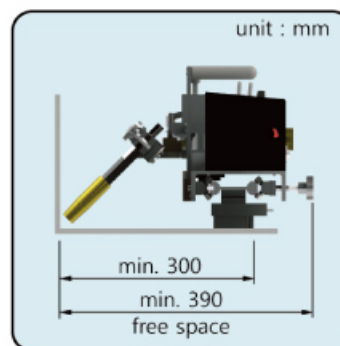
Features

- * Multi welder, such as butt/fillet with stitch-continuous weld and down-overhead-horizontal position without weaving function.
- * Digital programmable control includes tractor speed, also independent settings for left/right dwell.
- * Torch can fit both Straight and manual torch.
- * Applicable rails, each 1.5meter standard long.
 - Aluminum rigid rail with 3-magnet on-off type.
 - Aluminum rigid rail with 3-vacuum cup for non metallic materials.

Butt welding



Fillet welding

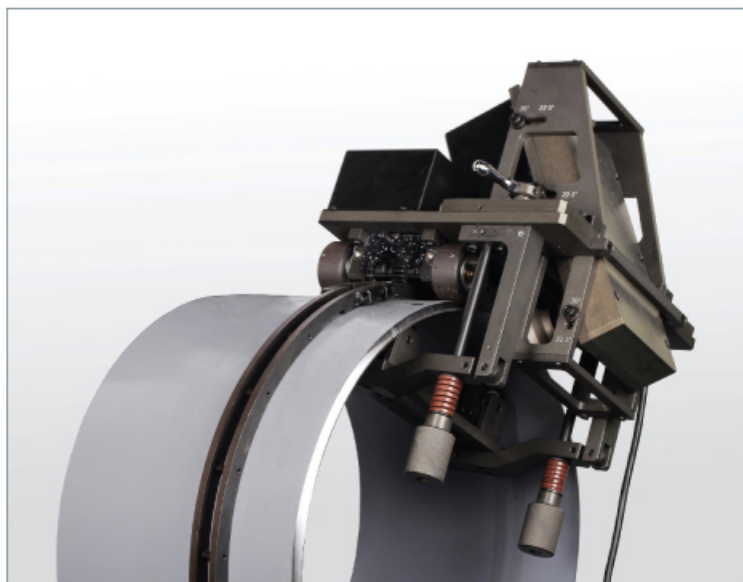


GENERAL	SIZE	330(W)X284(L)X240(H)
	WEIGHT	6.0 Kg
	INPUT VOLTAGE	AC 100~240V, 50-60Hz, 1Phase
TRAVELLING UNIT	MECHANISM	Rack-Pinion, Geared Motor
	MOTOR	DC 24V, 12W, 5000rpm
	SPEED	0~750mm/min
	REDUCER	1:400
	GEAR CLUTCH	Manual moving Clutch
SLIDE UNIT	X SLIDE STROKE	0~50mm
	Y SLIDE STROKE	0~50mm
	RAPID SLIDE STROKE	0~150mm
RAIL	RAIL TYPE	RIGID MAGNET & VACUUM, FLEXIBLE
	LENGTH	1.5m
	WEIGHT	8.0 Kg/8.5Kg/8.5Kg



SW-PBM

Pipe bevelling machine



Features

- * Applicable for min, 350mm diameter with min, 200mm long.
- * Cutting speed and rpm can be adjustable based on the materials.
- * One cutter can be used for both bevelling angles of 22.5° and 30°
- * Cutting speed is stable and can get a neat surface.
- * Guide ring type rail adapted

GENERAL	SIZE	314 × 374 × 476	
	WEIGHT	22.5 Kg	
	INPUT VOLTAGE	AC 240V	AC 110V, OPTION
TRAVELLING	MECHANISM	Geared Motor	
	MOTOR	DC 24V, 40W, 4,500rpm	
CUTTER	SPINDLE MOTER	700W, 8,000rpm	
	CUTTING SPEED	800~1,800rpm	
APPLICABLE PIPE	MAX. OUTSIDE DIAMETER	350mm	
	MIN. LENGTH	250mm	
	MAX. PIPE THICKNESS	30mm	
	BEVELING ANGLE	22.5°, 30°	

SW-PBM

Pipe bevelling machine



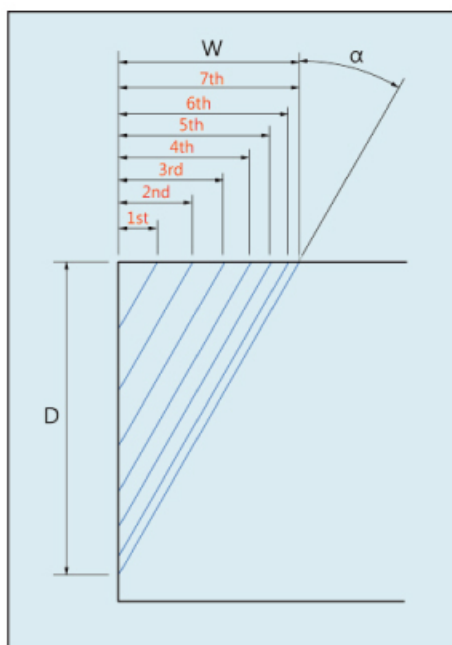
GUIDE RING SIZE



PIPE		GUIDE RING			
ND	OD	GAP	OD	W	W . T
350A	355.6	34	390	32	2.8 kg
400A	406.4	34	440	32	3.2 kg
500A	508.0	34	542	32	3.9 kg
600A	609.6	34	644	32	4.6 kg
700A	711.2	34	745	32	5.4 kg
800A	812.8	34	847	32	6.1 kg
1000A	1016.0	34	1050	32	7.6 kg
1200A	1219.2	34	1253	32	9.0 kg
1500A	1524.0	34	1558	32	11.2 kg
1800A	1829.0	34	1863	32	13.4 kg
2000A	2032.0	34	2066	32	14.9 kg

Other standard pipes acceptable

BEVELLING TABLE



MATERIAL	CARBON STEEL				STAINLESS STEEL			
	22.5°		30°		22.5°		30°	
WD NO	W	D	W	D	W	D	W	D
1st	3.5	8.3	4.5	7.8	3	7.2	4	6.9
2nd	6	14.5	7.5	13	5.5	13.3	7	12.1
3rd	8	19.3	10	17.3	7	16.9	9	15.6
4th	9.5	22.9	12	20.8	8	19.3	10.5	18.2
5th	10.5	25.3	13.5	23.4	9	21.7	11.5	19.9
6th	11.5	27.8	15	26	10	24.1	12.5	21.6
7th	12.3	29.7	16	27.7				

PIPE
WELDERS

HORIZONTAL FILLET
WELDERS

VERTICAL
FILLET WELDER

OSCILLATORS

RAIL TRAVELLING MULTI
WELDERS

BEVELLING MACHINE

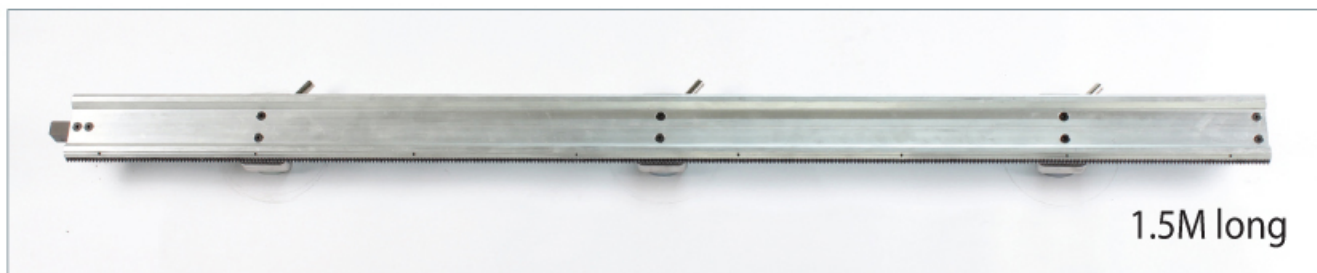
RAIL



RAILS

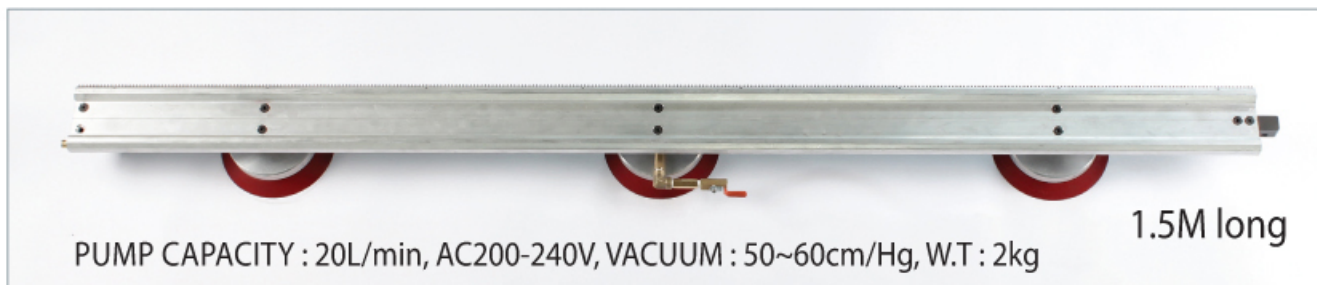
SW-RM1

Rigid Al rail with 3-magnet on-off type



SW-RV1

Rigid Al rail with 3-vacuum cup and pump



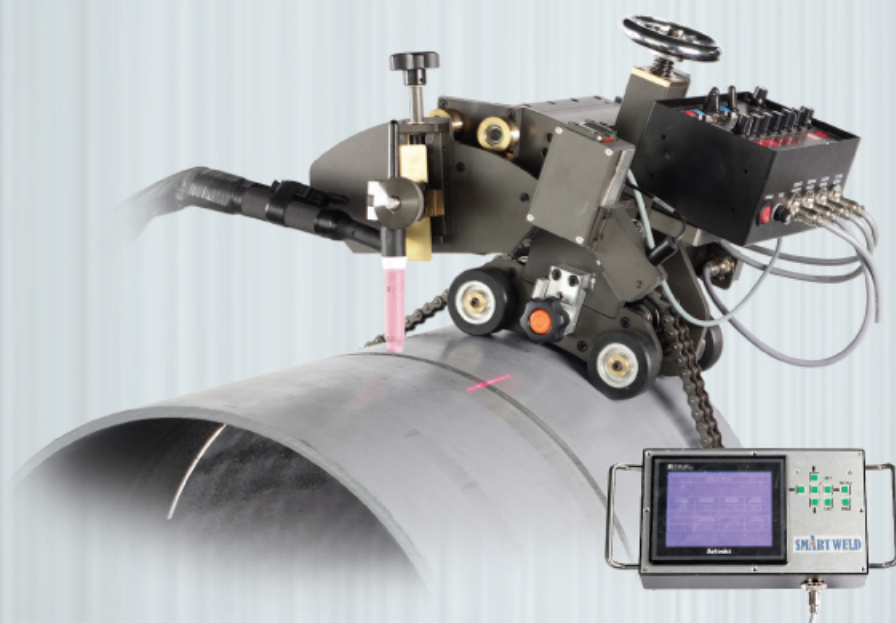
SW-RF1

Flexible stainless steel rail with 4-magnet on-off type



Note : all rails can be connected as wanted long

[illegible]



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