

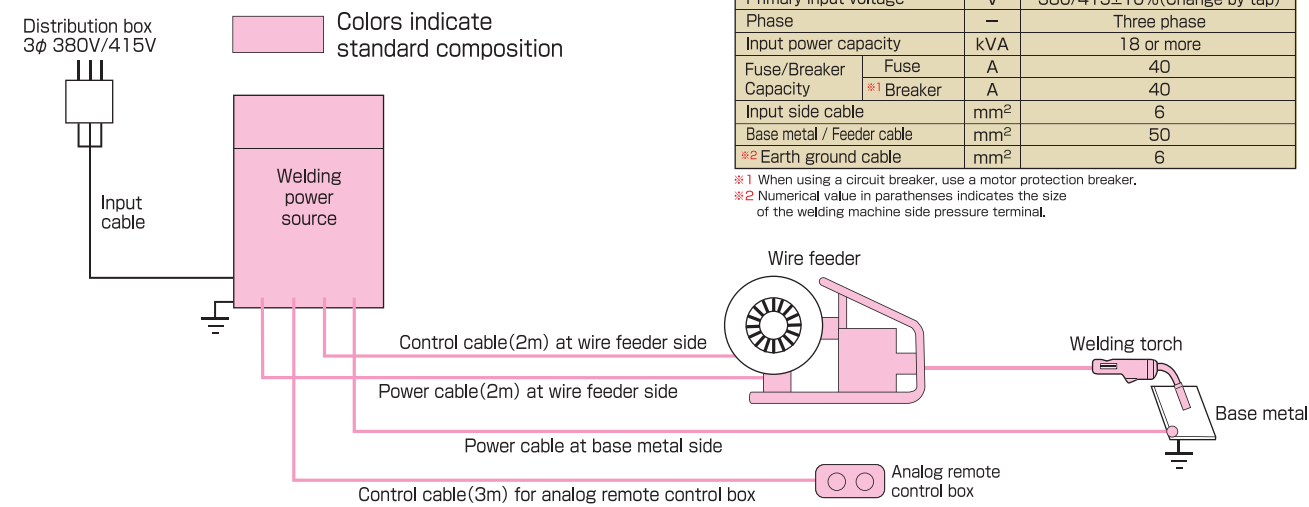
CPVSS-400

Making your welding more efficient, providing solutions for welding in outdoor environments and realizing stable self-shielded welding

- Prominent wind-proof capability
- Equipped with welding condition management function
- Deeper penetration control
- Enhanced arc stability



● Connection Diagram



■ Input power capacity and cable specifications

	Unit	CPVSS-400
Primary input voltage	V	380/415±10%(Change by tap)
Phase	-	Three phase
Input power capacity	kVA	18 or more
Fuse/Breaker	Fuse	A 40
Capacity	*1 Breaker	A 40
Input side cable	mm ²	6
Base metal / Feeder cable	mm ²	50
*2 Earth ground cable	mm ²	6

*1 When using a circuit breaker, use a motor protection breaker.
 *2 Numerical value in parentheses indicates the size of the welding machine side pressure terminal.

■ Specifications

Welding power source	Unit form	CPVSS-400	
Rated Frequency	-	Common to both 50 and 60Hz	
Rated input voltage	V	380 ±10%	415 ±10%
Phase	-	Three phase	
Rated input voltage	kVA	16.8	17.4
Rated duty cycle	%	60	
Rated output current	A	Self-shielded : 400	DC stick : 300
Rated load voltage	V	Self-shielded : 34	DC stick : 32
Output current range	A	Self-shielded : 30~400	DC stick : 30~300
Output voltage range	V	Self-shielded : 12~34	
Maximum no-load voltage	V	72	78
Outside dimension (W×D×H)	mm	345×632×580 (Excluding eyebolts)	
Mass	kg	54	
Base metal side power cable	Unit form	BKPT-5002	
Cable size	mm ²	50	
Wire feeder unit	Unit form	CMN-6401	
*Wire diameter	mm	(1.6), (1.7), 2.0	
Wire used	-	Self-shielded flux cored wire	
Wire feed speed	m/min	18 (Maximum)	
Outside dimension (W×D×H)	mm	209×500×365 (Excluding wire reel and projections)	
Mass	kg	8	
Welding torch	Unit form	WTN3510-SD WTN3510-MD	
Rated welding current	A	350	
Suitable wire diameter	mm	(1.6), (1.7), 2.0	
Rated duty cycle	%	60	
Cooling system	-	Air cooling	
Cable length	m	3.0	4.5

* When using a wire with the diameter indicated in the parenthesis, an optional part is necessary.

■ Standard composition

Welding power source	CPVSS-400
Power cable at base metal side	BKPT-5002
Wire feeder unit	CMN-6401
Welding torch	WTN3510-SD
Control cable(2m) at wire feeder side	BKCPJ-0402

■ Standard accessories

Welding power source	CPVSS-400
Analog remote control box	1 (P30152Z00)



■ Optional accessories

	5m	10m	15m	20m
Power cable (50mm ²) (Base metal/Wire feeder)	BKPT-5007	BKPT-5012	BKPT-5017	BKPT-5022
Control cable (2m) at wire feeder side	BKCPJ-0405	BKCPJ-0410	BKCPJ-0415	BKCPJ-0420
Control cable for analog remote control box(6pins)	BKCPJ-0605	BKCPJ-0610	BKCPJ-0615	BKCPJ-0620

In accordance with DAIHEN's policy of making continuous improvements, designs and/or specifications are subject to change without notice and without any obligation on the part of manufacturer.

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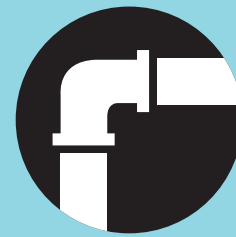
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Ideal for replacing SMAW



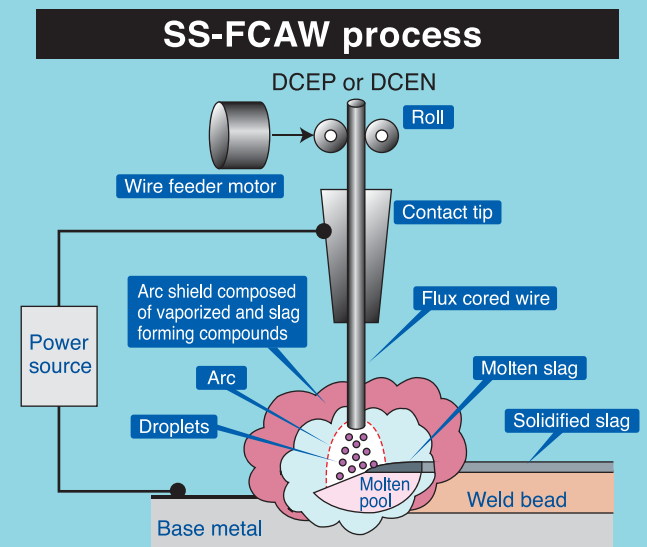
Civil engineering and bridge industry
Steelpipe piles, concrete piles, etc.



Pipelines, heavy industry
Joining pipes, etc.




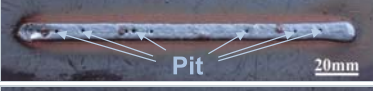

Automobile industries
Galvanized steel plate, etc.



High quality

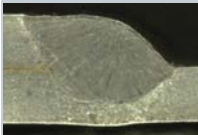
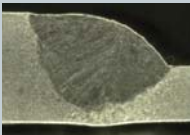
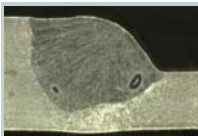
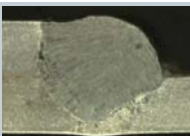
Prominent wind-proof capability

Making comparisons among process headwinds, Using CPVSS-400 can decrease pit formation in welding bead more than using GMAW and reduce spatter generation more than using SMAW.

Welding conditions	Welding process	Bead appearance
<ul style="list-style-type: none"> Wind speed : 5m/s [SMAW] Welding current : 120A Welding speed : 20cm/min Stick diameter : φ3.2mm, E4303 [GMAW and SS-FCAW] Welding current : 200A Welding speed : 40cm/min Wire diameter : φ1.6mm (SS-FCAW), φ1.2mm (GMAW) 		
	SMAW	
	GMAW	
	SS-FCAW (by CPVSS)	

Deeper penetration control

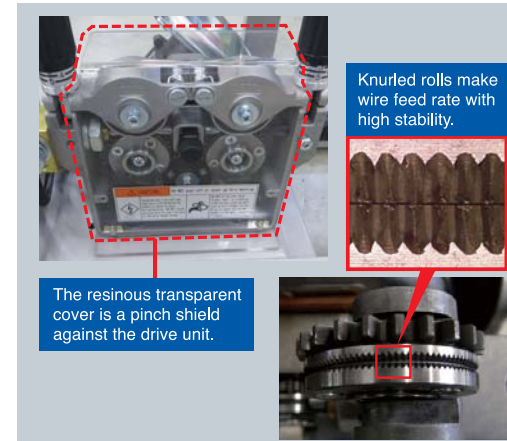
CPVSS-400 makes a deeper penetration than conventional welding machines. Unique waveform control realizes deeper penetration, and prevents defects in welding bead.

Welding conditions	Conventional SS-FCAW machine	CPVSS-400
<ul style="list-style-type: none"> Base metal : SPCC Thickness : 2.3mm Joint type : Lap joint. 		
250A 20V		
Penetration depth	1.44 mm	1.78 mm
280A 21V		
Penetration depth	1.63 mm	1.84 mm

Convenient system

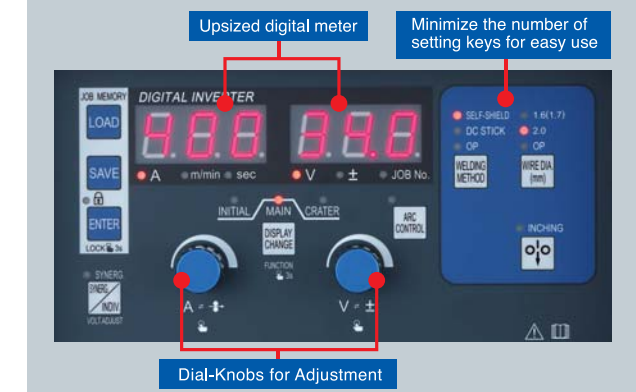
High reliability and safety

Wire feeder device to ensure the high reliability and safety





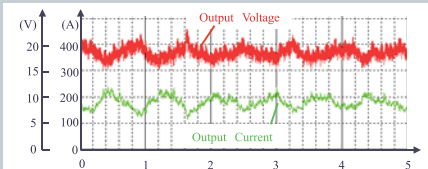
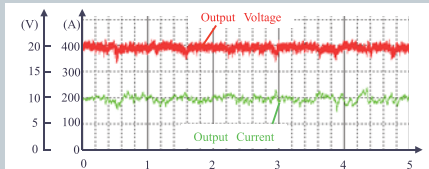
Excellent visibility in the dark

- Change welding conditions freely using the knobs on the left and right
- Reproduce a wide range of welding conditions with the condition memory function (save up to 30)



Enhanced arc stability

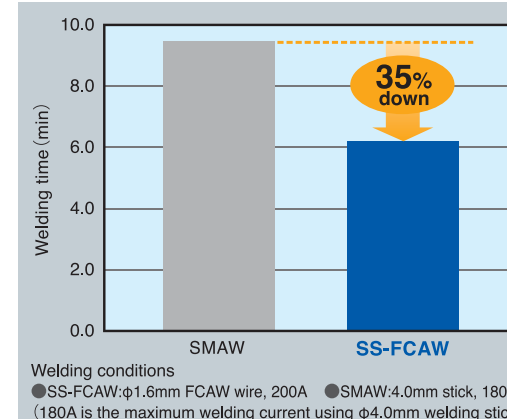
OTC's welding control realizes enhanced arc stability. That stabilizes output current and voltage, and realizes uniform bead width and smooth weld toe.

Welding conditions	Conventional SS-FCAW machine	CPVSS-400
<ul style="list-style-type: none"> Base metal : SPCC Thickness : 4.5mm 		
Bead appearance		
Waveform		

Efficient machine

High welding efficiency

Save 35% of welding time by adapting SS-FCAW to replace SMAW!



Long-life contact tip

This tip is more durable than equivalent products of competitors.

