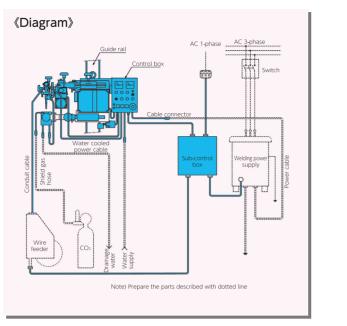
# Components





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Specific	ation				
Configuration	Specification				
	Drive system	Guide rail (rack-and-pinion)			
		0 - 25cm/min, continuously variable, for the			
	Travelling speed	welding operation			
		55cm/min, for the rapid travelling			
	Torch adjustment	Right and left adjustment ±20mm			
		Forward and backward adjustment 20mm			
		Up and down 15mm			
		Right and left angle adjustment ±3 degrees			
		Forward and backward angle adjustment 20			
		degrees against plate surface			
Travelling carriage	Cu shoe adjustment	±20mm to right and left			
	Oscillator	Oscillation	Linear Oscillation in plate thickness		
		pattern	direction		
		Oscillation			
		amplitude	5 - 30 mm		
		Oscillation	50 times/min		
		frequency	(without stopping at both ends)		
		Duralling time	0 - 3sec. Variable at both end		
		Dwelling time	of the oscillating		
	Dimensions and mass	430W × 300D × 300Hmm, about 21kg			
Guide rail	Туре	Side rack type aluminum protrusion rail			
Guide fait	Dimensions and mass	1.5m × 2 pied	ces, 14kg		
	Pressure to sliding	max.186N			
Copper shoe	direction	IIIax. Toolv			
	Dimensions	54W × 20D × 66Lmm			
Torch	Туре	Dedicated water-cooled type curved torch			
TOTCH	Туре	Rate current 450A			
Control box	Dimensions and mass	200W × 20D × 265Hmm, about 8.5kg			
Sub-control box	Dimensions and mass	260W × 260D × 200Hmm, about 9kg			
Conduit cable	Dimensions	Inside diameter Φ3.56mm × 3m			

### Options(Separately sold)

Specification				
24,32,36,50mm (width)	(Standard specification 28mm)			
0.5, 1.0, 2.0m	(Standard specification 1.5m)			
(Sub-control box - Wire feeder) 30,40,50m	(Standard specification 20m)			
(Sub-control box - Control box) 30,40,50m	(Standard specification 20m)			
	24,32,36,50mm (width) 0.5, 1.0, 2.0m (Sub-control box - Wire feeder) 30,40,50m			

### **Conditions on Usage**

Items	Specification		
Service environment	Temperature : 0-40℃		
Service environment	Humidity: 20 - 90% without dew condensation		
Power source	400V, 1phase		
Mechanism and cooling system	Simple dust control, indirect cooling		



Welding generates fume and gas. Inhaling them can be Welding generates fume and gas. Inhaling them can be harmful to health. Precautions such as sufficient ventilation and using respiratory protective equipment should be taken. Arc light is harmful to eyes and skin. Light-shielding protective equipment (glasses) should be used. Touching an electrified part may cause fatal electrical impact. So don't touch that part.

If wire except a tip of a welding torch contacts with a current-carrying part such as a welding work and a wire feeder while welding, an electrical spark will occur, and that may cause fire and burn. So attention should be paid to that.

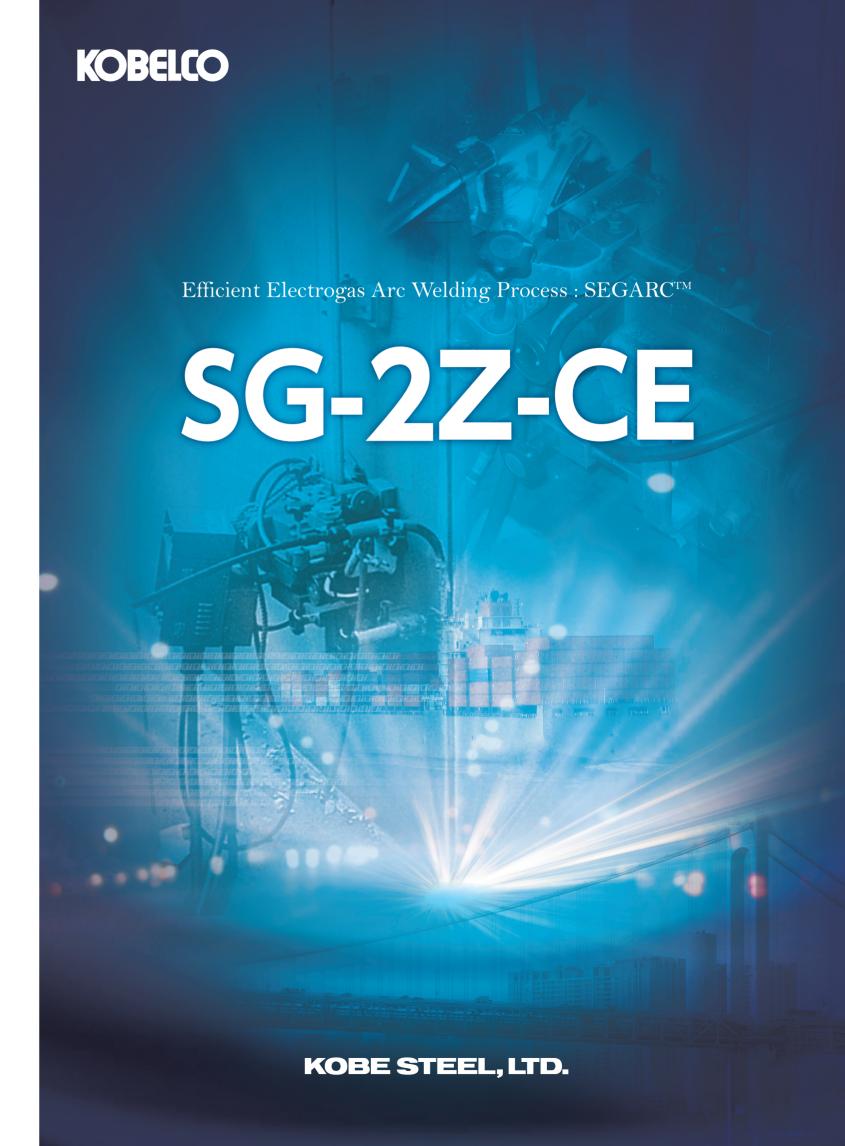
#### Note

- The property data given herein, such as weld material, deposit metal and weld metal, are just for explanations of typical property and performance of the production. Those data except clear notifications as provisions of standards doesn't provide assurance.

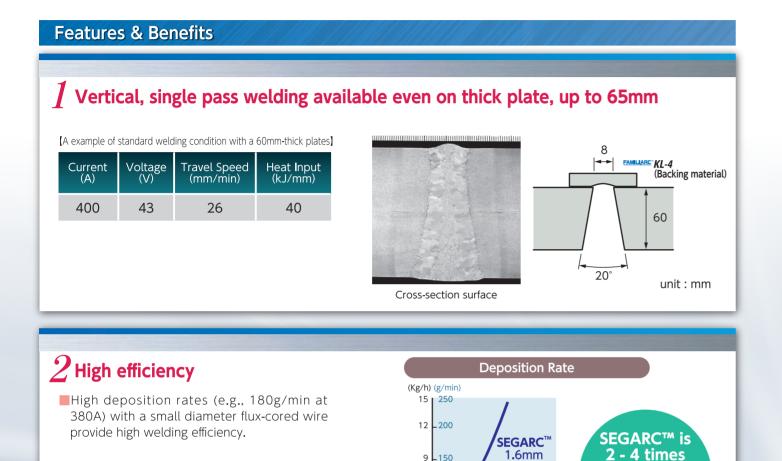
  2. Performances in actual welded structures are influenced by design-
- ing of structures, chemical components of a steel plate, construction techniques, welding conditions, abilities of an operator and so
- We are not responsible for damage from using technical informa-tion given herein in an improper way.

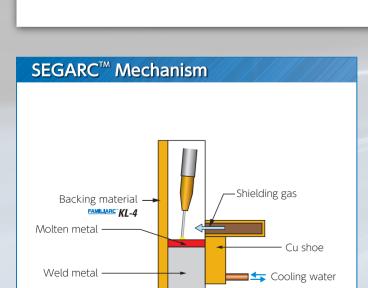


TEL:+31-45-547-1111 FAX:+31-45-547-1100



SEGARC<sup>™</sup>-unique& ultimate automatic vertical welding process & equipments KOBELCO designed and put into practical use first in the world. Plenty of supply records to fabricators of ships, oil tankages, and bridges for over 40years.

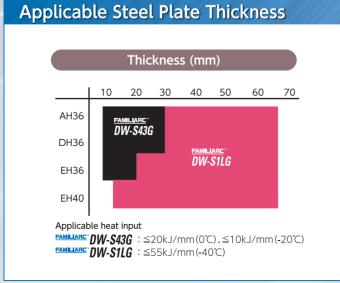




Deposition Rate(g/min)

SEGARC<sup>TM</sup>

SMAW



200 400 600 Welding current (A) more efficient

than

semi-automatic

welding.

### **Features & Benefits** 3 Easy handling and wide range Welding position of SEGARC Applicable welding position of SEGARC of application Applicable not only to vertical but slant joints SEGARC™ is widely applicable to variable fields (e.g., shipyard, bridge, machinery, storage tank, steel structure and so on). Applicable to joint plates which have thickness difference If the thickness difference of joint plates is under 3mm, there is no necessary to make taper. Application of SEGARC on thickness difference of joint plates Easy to operate Travelling speed while welding operation is adjusted automatically to keep wire extension constant. thickness difference of joint plates is under 3mm No necessary to make tape Application of SEGARC<sup>™</sup> Process Fields Application Side shells, bulkheads Shipyard and hoppers of bulk carriers Bridge Box girder webs, I-plate girder webs Press frames Machinery Grain silos, oil tanks Storage Tank Water conduits, large diameter pipes, Steel Structure structural members of seawater desalination plants Example of Set in root Bead appearance of face side of root side

# Line-up of Welding Materials for SEGARC™

Trade designation	Type of steel	0.2% Offset Strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact value (J)	Approvals by ship classification societies
FAMILIARC™ DW-S43G	Mild steel, 490MPa HT steel	470	600	29	60(-20℃)	NK, ABS, LR, BV, DNV, GL, CCS, CR, KR
TRUSTARC™ DW-S60G	550-610MPa HT steel	520	650	26	65(-20℃)	NK, ABS, LR, BV, DNV, GL
FAMILIARC™ DW-S1LG	Mild steel, 490MPa HT steel for low temperature service	500	615	26	100 (-60°C)	NK, ABS, LR, BV, DNV, GL

•Flux cored wires mentioned above are designed for 100%CO2 (C1) shielding gas.
• FAMILIARC\* KL-4 or Water cooled copper backing must be used as backing material.