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## TRANSFORMER INTEGRATED MANUAL GUN

### OBARA CORPORATION

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1346 JAMIKE LANE, ERLANGER, KY 41018 U.S.A.  
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### OBARA CORPORATION USA HERCULES WELDING PRODUCTS DIVISION

11478 TIMKEN AVE., WARREN, MICHIGAN 48089 U.S.A.  
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<http://www.obarausa.com>

### OBARA INDIA PVT LTD.

W-17, F-2 BLOCK, MIDC PIMPRI, PUNE-411 018  
TEL : +91-20-3068-8551 FAX : +91-20-3068-8550

### OBARA (MALAYSIA) SDN. BHD.

NO.15 JALAN BUKIT BADUNG 26/4 HICOM SECTOR A,  
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### OBARA MEXICO, S. DE R. L. DE C. V.

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### OBARA NANJING

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### OBARA FRANCE

Rue Raoul Follereau, Chemin des alliés  
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TEL : +33-327-23-7616 FAX : +33-327-23-7617  
<http://www.obara.fr>

### OBARA RUSSIA

191186 RUSSIA, ST-PETERSBURG,  
MOIKA RIVER EMBANKMENT, 36  
TEL : +7-812-331-6979

### OBARA KOREA CORP.

933-7 Gumuncheon-ri, Hyangnam-eup,  
Hwaseon-si, Gyeonggi-do, Korea  
TEL : +82-31-350-7060 FAX : +82-31-350-7099  
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PO Box 5062 29-31 Star Crescent Hallm, Vic. 3803 Australia  
TEL : +7-812-3316979 FAX : +7-812-3316979  
<http://www.obara-aust.com.au>

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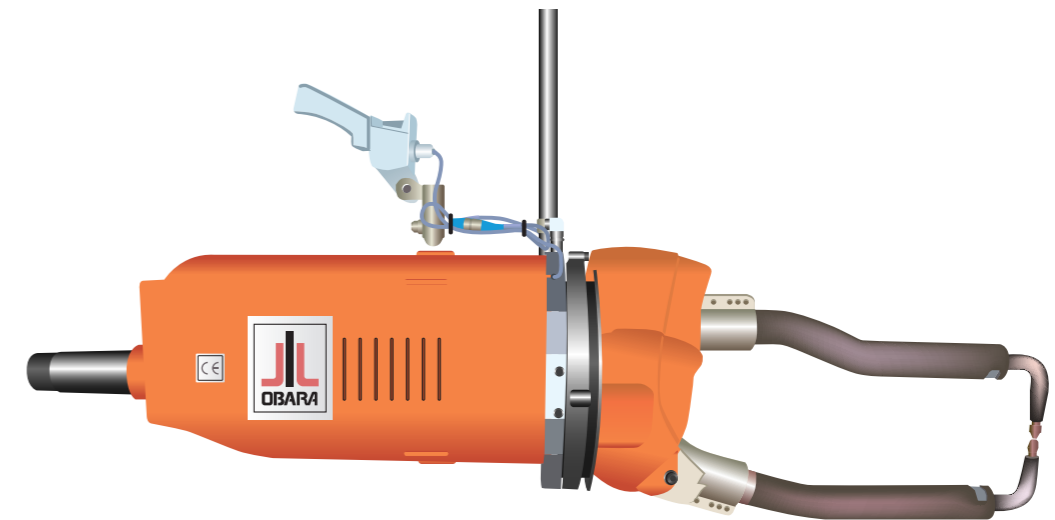
UNIT 1, TOMLINSON INDUSTRIAL ESTATE,  
ALFRETON ROAD, DERBY, DE21 4ED, UK  
TEL : +44-133-229-7868 FAX : +44-133-234-1600  
<http://www.obara.uk>

### OBARA CORPORATION, Czech branch, organizační složka

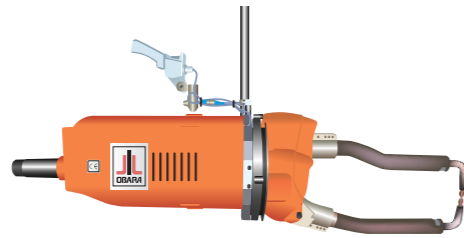
Časlávská 46, 537 01 Chrudim IV Identif. number : 27124134  
Tax identity : CZ27124134  
TEL : +42-046-931-8202 FAX : +42-046-931-8223  
<http://www.obara.cz>

### OBARA THAILAND

90/1 Moo5 Wellfrow Industrial Estate Soi6  
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TEL : +66-38-571-928 FAX : +66-38-571-890



**JL OBARA KOREA**  
TRANSFORMER MANUAL GUN



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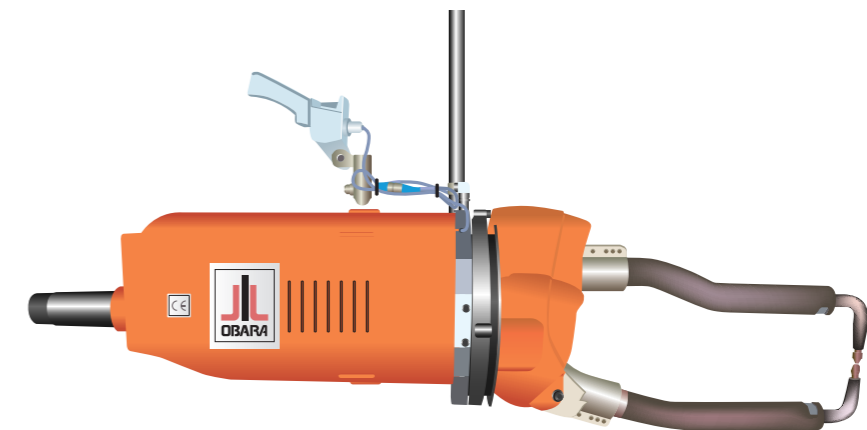
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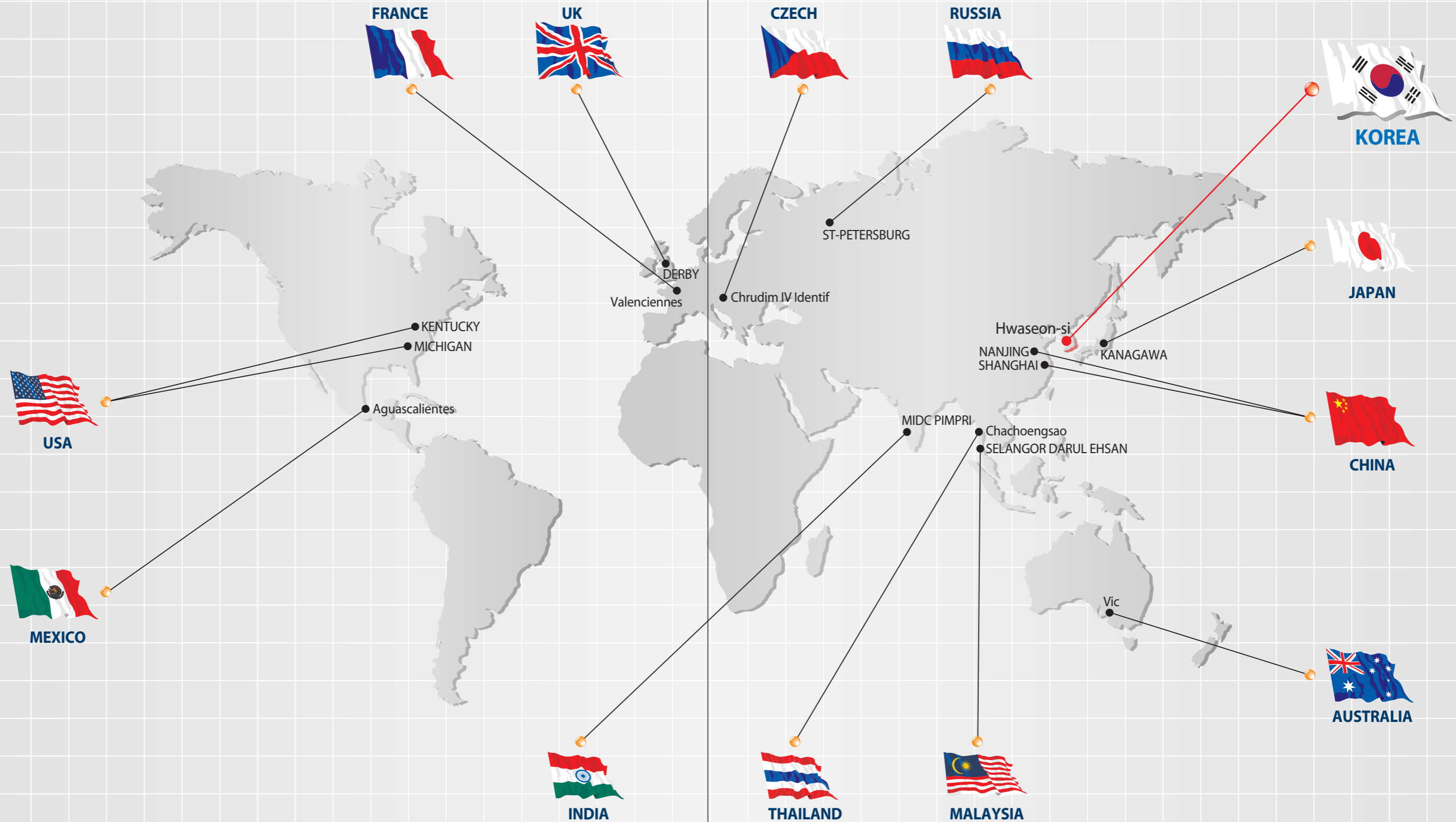
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## TRANSFORMER INTEGRATED MANUAL GUN



**JL OBARA KOREA**  
TRANSFORMER MANUAL GUN

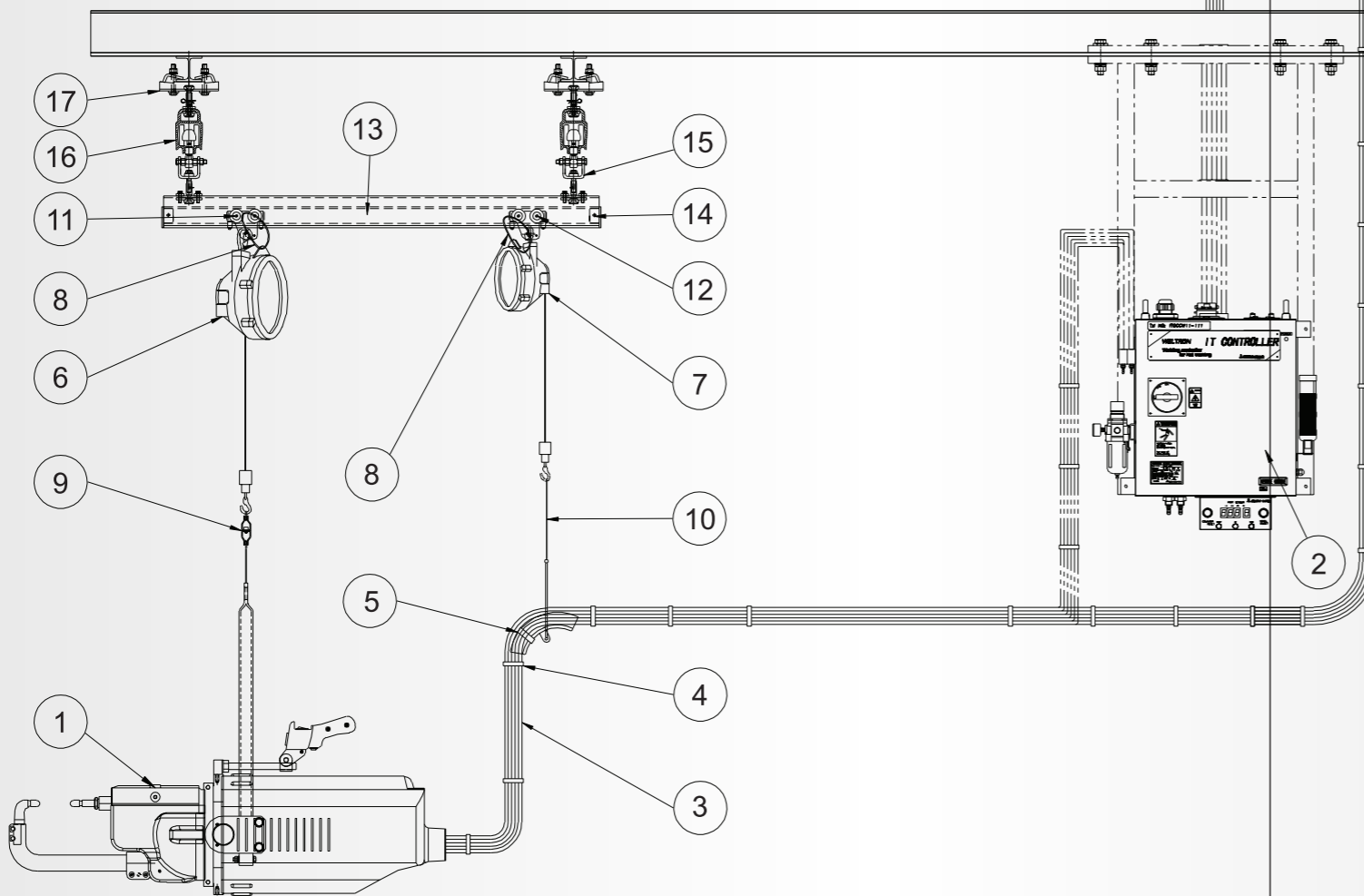
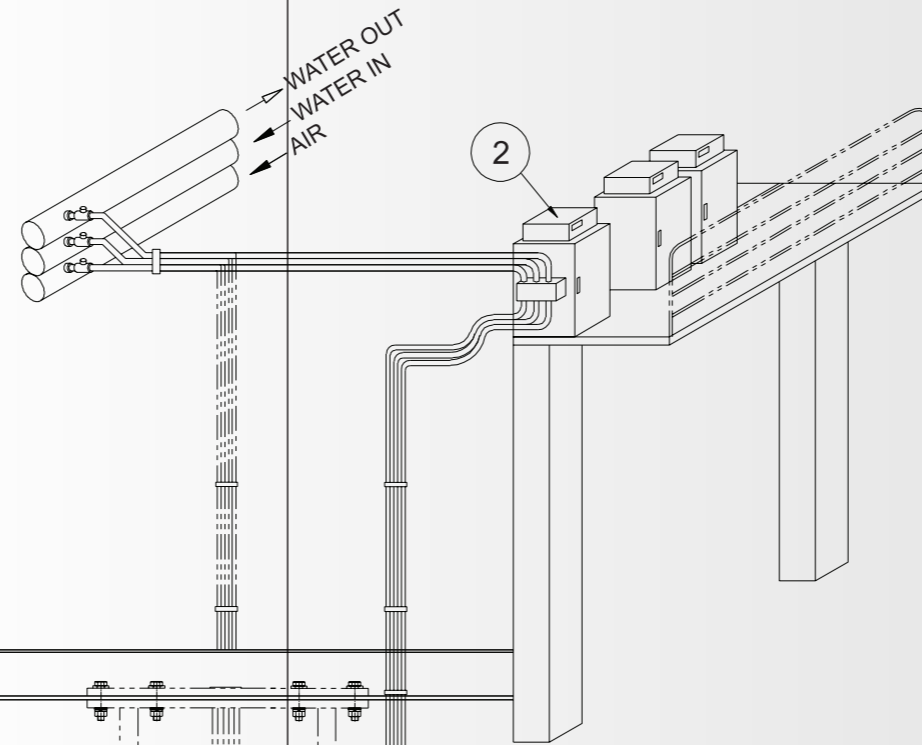
# Best Choice With The Best Partner



# GUN INSTALLATION LAYOUT

## FEATURE

1. It is possible to welding from 1/3~1/4 A-Class power capacity.
2. It is available to select Holder and Electronic part as working necessity.
3. It is designed for vertical and horizontal movement also balancing so it is easy to handle.  
The Gun use bail support hanger basically so it is possible to rotate 360 degree.
4. Follow by working position can use the vertical and horizontal stopper.
5. The Gun covered by cover so it safe to the operator.
6. Handle and hand switch locate enough consider working place so depended on working position, operator can use the various switch.
7. The Gun has various depth 250mm~850mm(X-TYPE).
8. Alarm, Safety, Weld/No Weld switch, so it is easy to operate.
9. Exclusive controller has a ELB(30mA) it is basic equipment to protect from danger of 400v.
10. Exclusive controller has rich extendability with inter lock and inter check functions.



No.	NAME	No.	NAME
1	GUN Series	10	Extention Wire
2	Controller	11	Gun Trolley
3	Secondary Cable Ass'y	12	Cable Trolley
4	Rubber Band	13	Bridge Rail
5	Cable Band	14	End Stop
6	Spring Balancer	15	Bridge Rail Trolley
7	Spring Balancer	16	Runway Rail
8	Safety Wire	17	Hanger Kit
9	Swivel Hook		

## Basic Specification

Allowable E. C. C	4000A, 5400A, 5700A(MFDC)	
Primary power supply	380V~400V(50Hz, 60Hz)	
Hanger	With 360° rotary bail (With longitudinal adjuster and stopper)	
Switches	WELD ON/OFF switch ALARM RESET switch WELD CONDITION SELECT switch RETRACT STROKE switch	
Cooling water circuit		
Secondary Cable	AC 25sq × 3	MFDC 25sq × 2 + 14sq × 1
Turn ratio	n=40, 50, 53, 56, 63	n=55
Controller	ITGC Series	

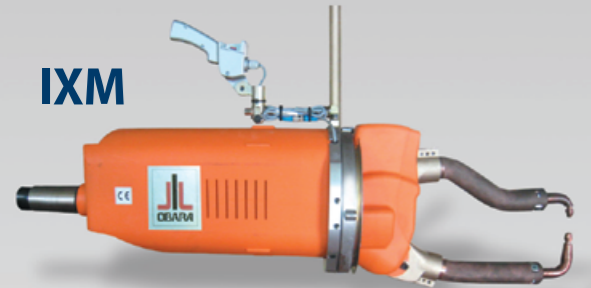
# TRANSFORMER INTEGRATED MANUAL GUN



**IXS**



**ICS**



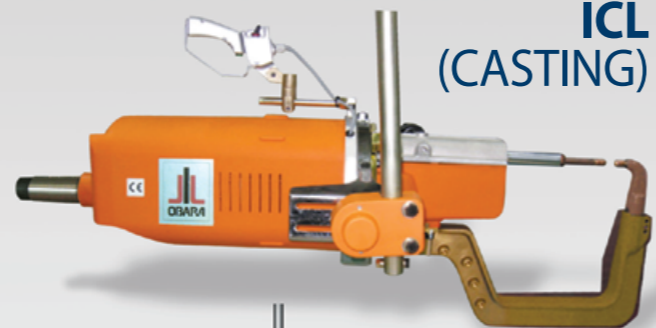
**IXM**



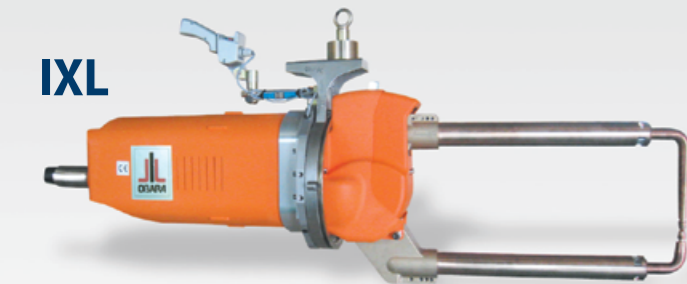
**ICM**



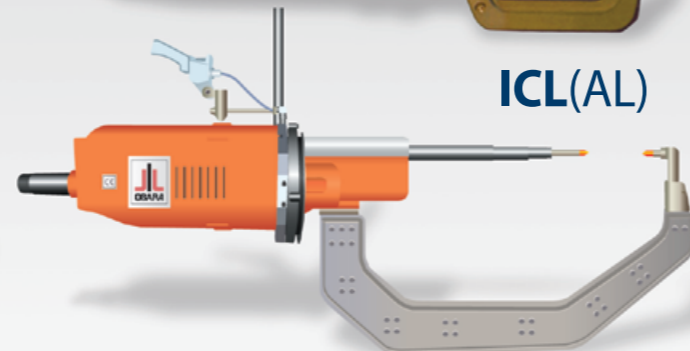
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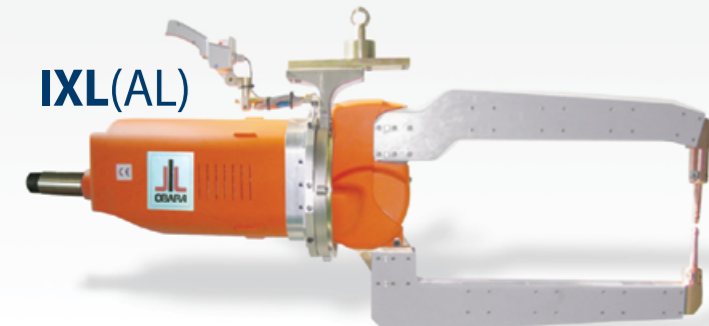
**ICL  
(CASTING)**



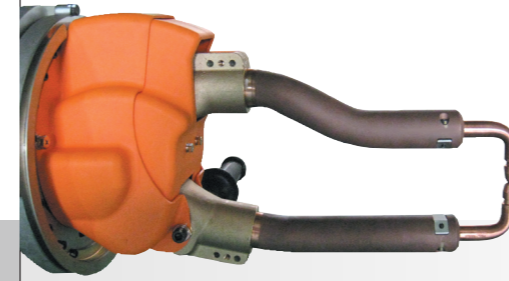
**IXL**



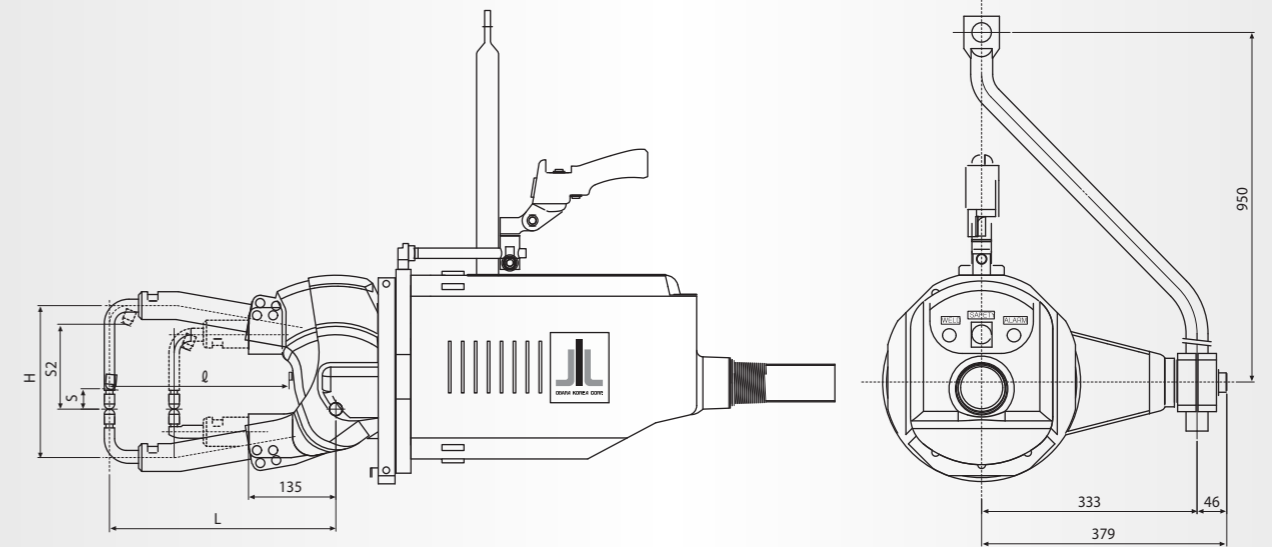
**ICL (AL)**



**IXL (AL)**



**IXS**

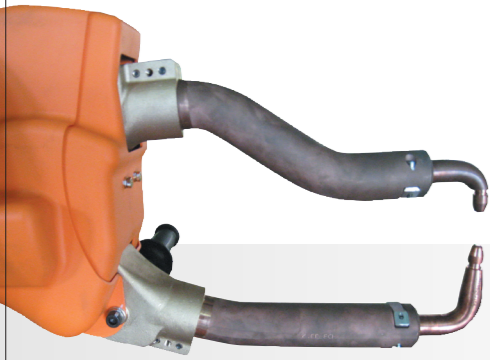


## Technical Specifications

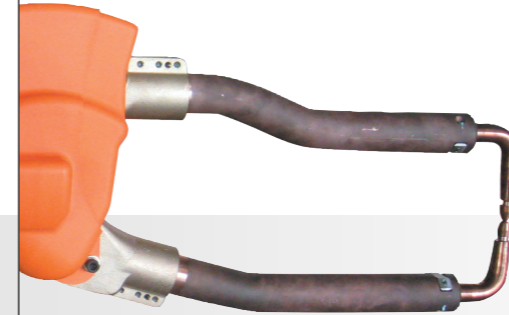
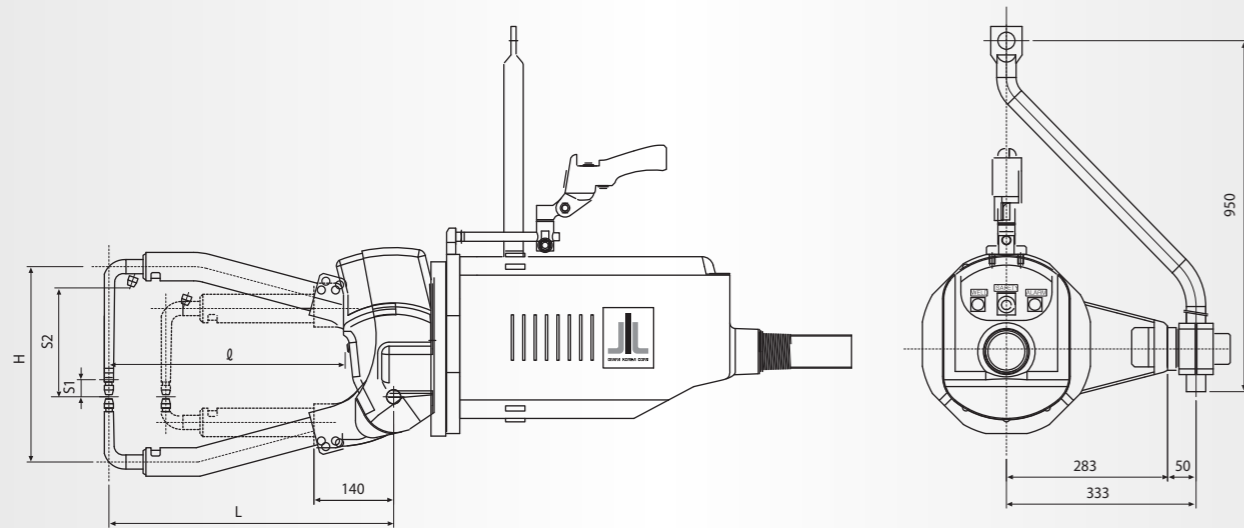
L(mm)	250			300			350											
ℓ(mm)	177			227			277											
H(mm)	50~230																	
M(A)	18,000			18,000			18,000											
W(Kg)	70	76	73	71	78	74	72	80	75									
Transformer	36KVA	53KVA	MFDC	36KVA	53KVA	MFDC	36KVA	53KVA	MFDC									
E. C. C. (A)	4,000	5,400	5,700	4,000	5,400	5,700	4,000	5,400	5,700									
Electrode stroke	Welding stroke (S1)(mm)			30														
	Retract stroke (S2)(mm)			90			110			130								
Electrode Pressure	Electrode Force (Kgf)			410 (450)			350 (400)			350 (440)			300 (340)			300 (380)		
	(N)			4,018 (4,410)			3,430 (3,920)			3,430 (4,312)			2,940 (3,332)			2,940 (3,724)		
Air pressure (Kgf/cm <sup>2</sup> )			5 (5.5)			5 (5.8)			5 (6.4)			5 (5.8)			5 (6.5)			
Cylinder Area (cm <sup>2</sup> )			162															

M : Maximum short circuit current (A)

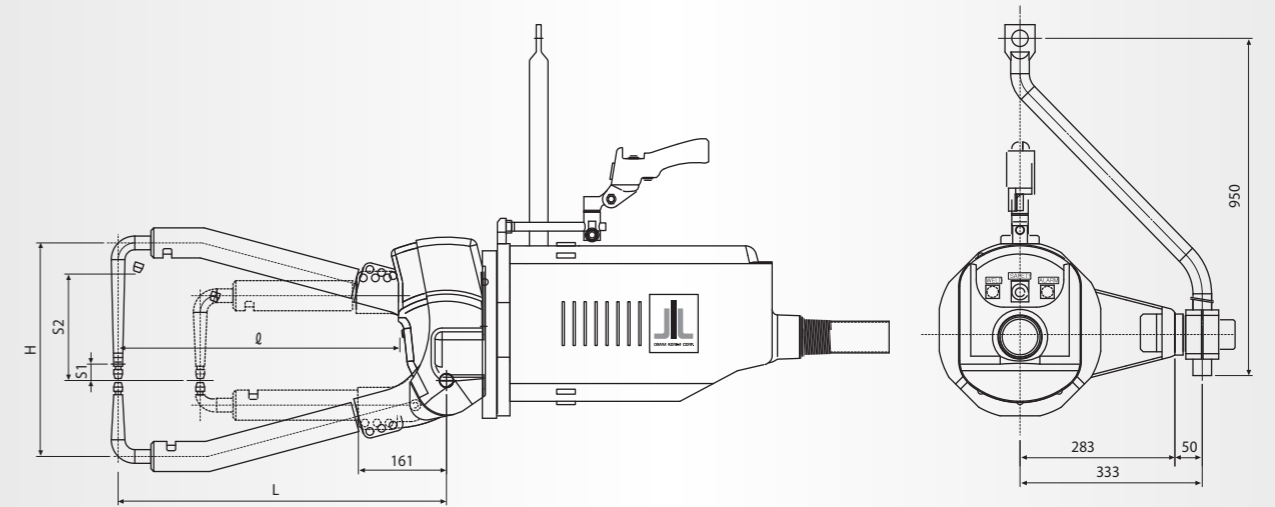
W : Weight (Kg)



# IXM



# IXP



## Technical Specifications

L(mm)	400			450			500			
φ(mm)	315			365			415			
H(mm)	60~340									
M(A)	18,000			18,000			18,000			
W(Kg)	78	92	81	79	92	82	80	93	83	
Transformer	36KVA	53KVA	MFDC	36KVA	53KVA	MFDC	36KVA	53KVA	MFDC	
E. C. C. (A)	4,000	5,400	5,700	4,000	5,400	5,700	4,000	5,400	5,700	
Electrode stroke	Welding stroke (S1)(mm)	30								
	Retract stroke (S2)(mm)	140			155			170		
Electrode Pressure	Electrode Force (Kgf)	450 (460)			400 (435)			350 (380)		
	(N)	4,410 (4,508)			3,920 (4,263)			3,430 (3,724)		
	Air pressure (Kgf/cm <sup>2</sup> )	5 (5.1)			5 (5.5)			5 (5.3)		
	Cylinder Area (cm <sup>2</sup> )	221								

M : Maximum short circuit current (A)

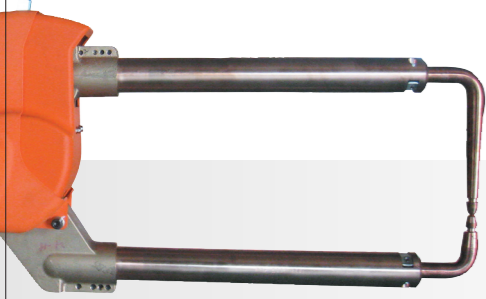
W : Weight (Kg)

## Technical Specifications

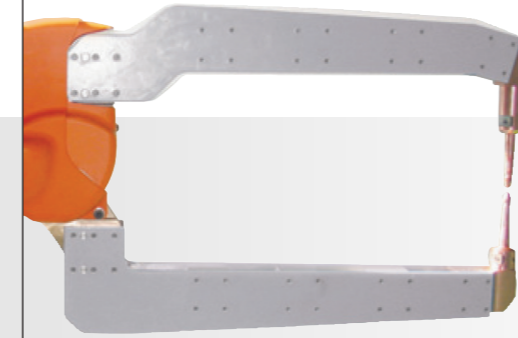
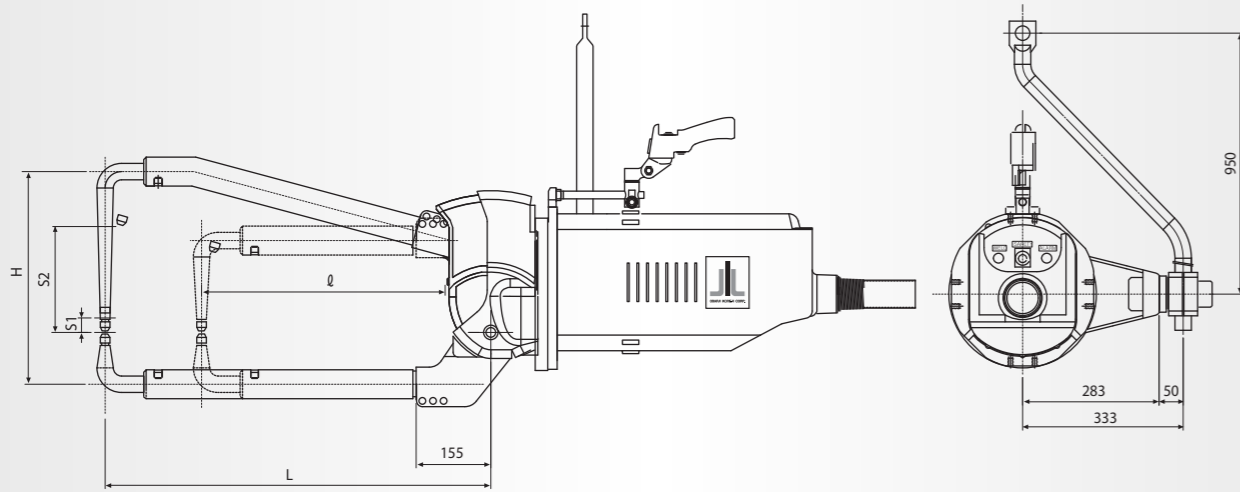
L(mm)	450			500			600			
φ(mm)	364			414			514			
H(mm)	140~350									
M(A)	18,000			18,000			18,000			
W(Kg)	80	94	87	82	96	90	85	105	94	
Transformer	36KVA	53KVA	MFDC	36KVA	53KVA	MFDC	36KVA	53KVA	MFDC	
E. C. C. (A)	4,000	5,400	5,700	4,000	5,400	5,700	4,000	5,400	5,700	
Electrode stroke	Welding stroke (S1)(mm)	30								
	Retract stroke (S2)(mm)	135			155			165		
Electrode Pressure	Electrode Force (Kgf)	400 (450)			350 (440)			300 (335)		
	(N)	3,920 (4,410)			3,430 (3,920)			2,940 (3,283)		
	Air pressure (Kgf/cm <sup>2</sup> )	5 (5.7)			5 (5.6)			5 (5.6)		
	Cylinder Area (cm <sup>2</sup> )	221								

M : Maximum short circuit current (A)

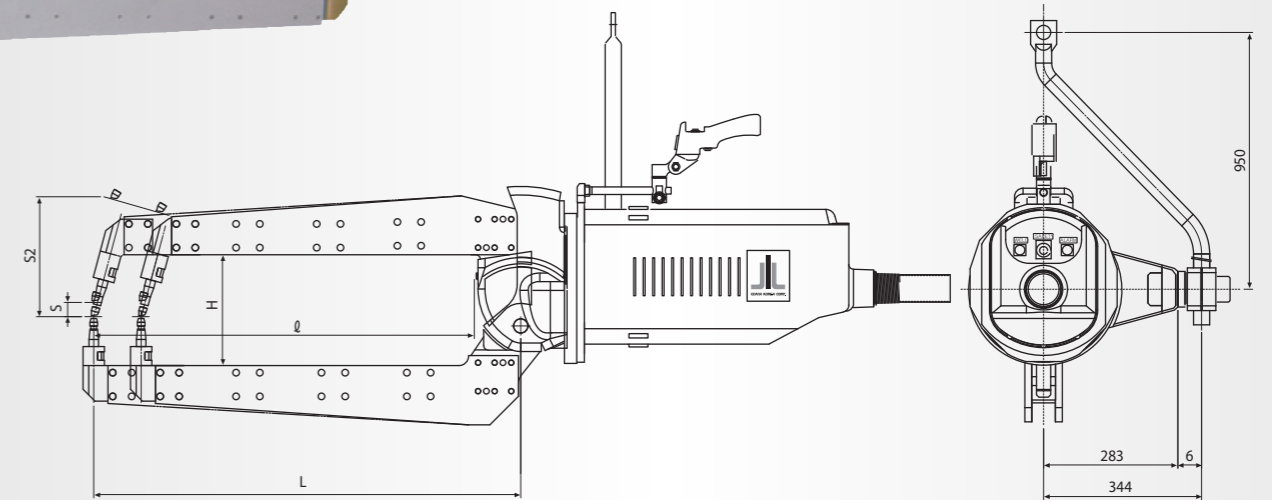
W : Weight (Kg)



# IXL



# IXL(AL)



## Technical Specifications

L(mm)		600		700		800	
φ(mm)		505		605		705	
H(mm)		150~380					
M(A)		18,000		18,000		18,000	
W(Kg)		108	103	118	108	128	113
Transformer		53KVA	MFDC	60KVA	MFDC	60KVA	MFDC
E. C. C. (A)		5,400	5,700	5,400	5,700	5,400	5,700
Electrode stroke	Welding stroke (S1)(mm)	50					
	Retract stroke (S2)(mm)	165		190		220	
Electrode Pressure	Electrode Force (Kgf)	380 (450)		320 (390)		280 (330)	
	(N)	3,724 (4,410)		3,136 (3,822)		2,744 (3,234)	
Air pressure (Kgf/cm <sup>2</sup> )		5 (6.0)		5 (6.0)		5 (6.8)	
Cylinder Area (cm <sup>2</sup> )		280					

M : Maximum short circuit current (A)

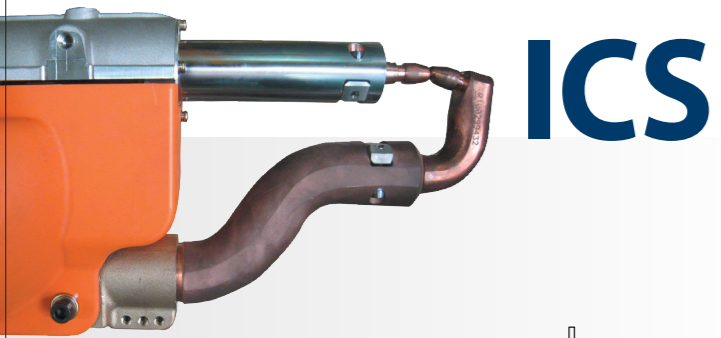
W : Weight (Kg)

## Technical Specifications

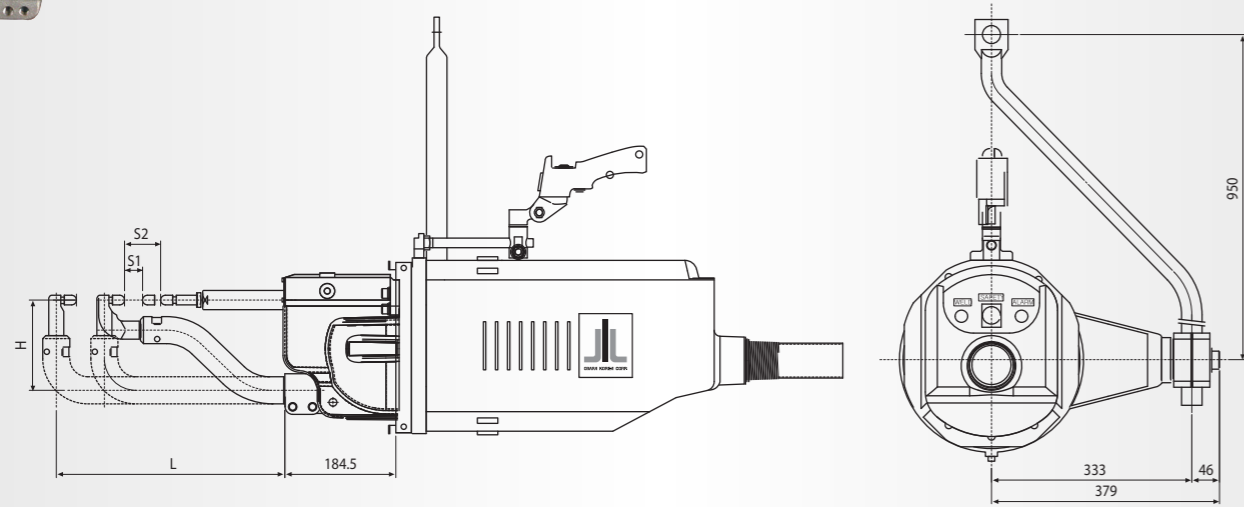
L(mm)		800		900	
φ(mm)		700		800	
H(mm)		230~400			
M(A)		18,000		18,000	
W(Kg)		120	105	125	110
Transformer		75KVA	MFDC	75KVA	MFDC
E. C. C. (A)		5,400	5,700	5,400	5,700
Electrode stroke	Welding stroke (S1)(mm)	50			
	Retract stroke (S2)(mm)	220		245	
Electrode Pressure	Electrode Force (Kgf)	340 (390)		300 (350)	
	(N)	3,332 (3,822)		3,940 (3,430)	
Air pressure (Kgf/cm <sup>2</sup> )		5 (5.7)		5 (5.7)	
Cylinder Area (cm <sup>2</sup> )		339			

M : Maximum short circuit current (A)

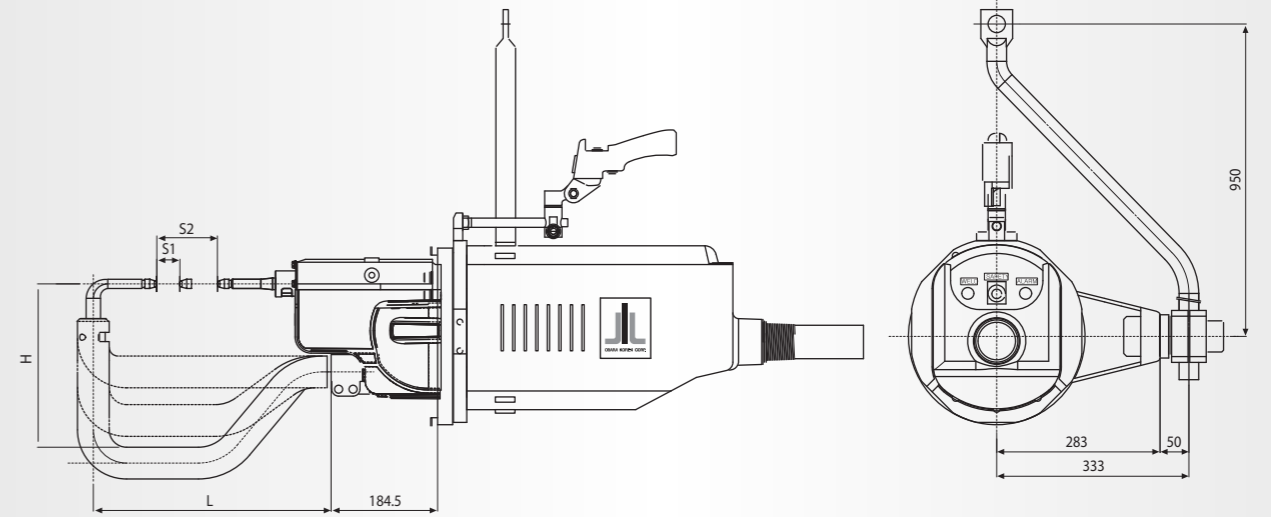
W : Weight (Kg)



# ICS



# ICM



## Technical Specifications

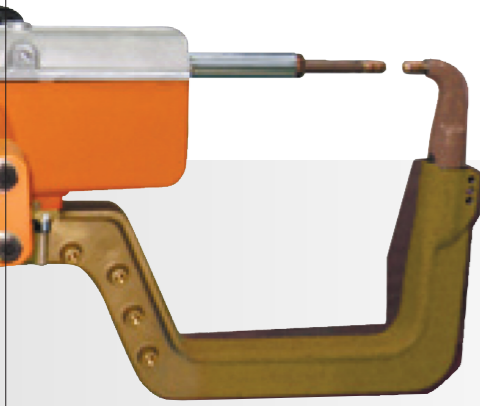
L(mm)		200	250	300
H(mm)		150		
M(A)		18,000	18,000	18,000
W(Kg)		65	66	67
Transformer		53KVA		
E. C. C. (A)		4,000		
Electrode stroke	Welding stroke (S1)(mm)	30		
	Retract stroke (S2)(mm)	105		
Electrode Pressure	Electrode Force (Kgf)	350		
	(N)	3,430		
Air pressure (Kgf/cm <sup>2</sup> )		5		
Cylinder Area (cm <sup>2</sup> )		76.1		

M : Maximum short circuit current (A)  
W : Weight (Kg)

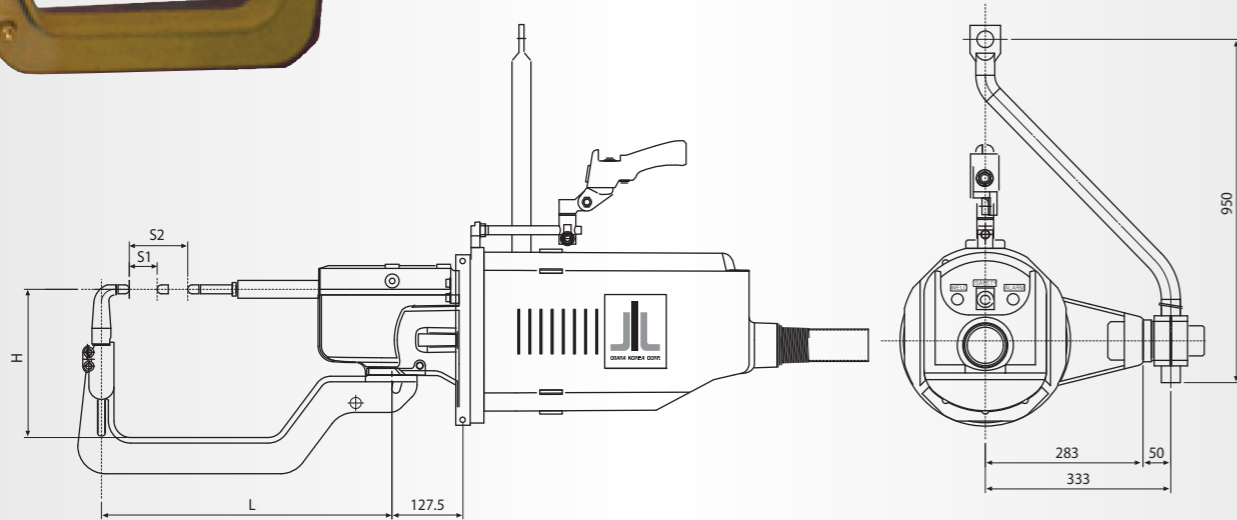
## Technical Specifications

L(mm)		250			350			400		
H(mm)		130~200								
M(A)		18,000			18,000			18,000		
W(Kg)		70	78	72	74	81	75	76	84	77
Transformer		36KVA	53KVA	MFDC	41KVA	53KVA	MFDC	41KVA	53KVA	MFDC
E. C. C. (A)		4,000	5,400	5,700	4,000	5,400	5,700	4,000	5,400	5,700
Electrode stroke	Welding stroke (S1)(mm)	30								
	Retract stroke (S2)(mm)	105								
Electrode Pressure	Electrode Force (Kgf)	350	450	350	450	350	450	350	450	
	(N)	3,430	4,410	3,430	4,410	3,430	4,410	3,430	4,410	
Air pressure (Kgf/cm <sup>2</sup> )		5	4.7	5	4.7	5	4.7	5	4.7	
Cylinder Area (cm <sup>2</sup> )		76.1	101	76.1	101	76.1	101	76.1	101	

M : Maximum short circuit current (A)  
W : Weight (Kg)



# ICL(CASTING)



## Technical Specifications

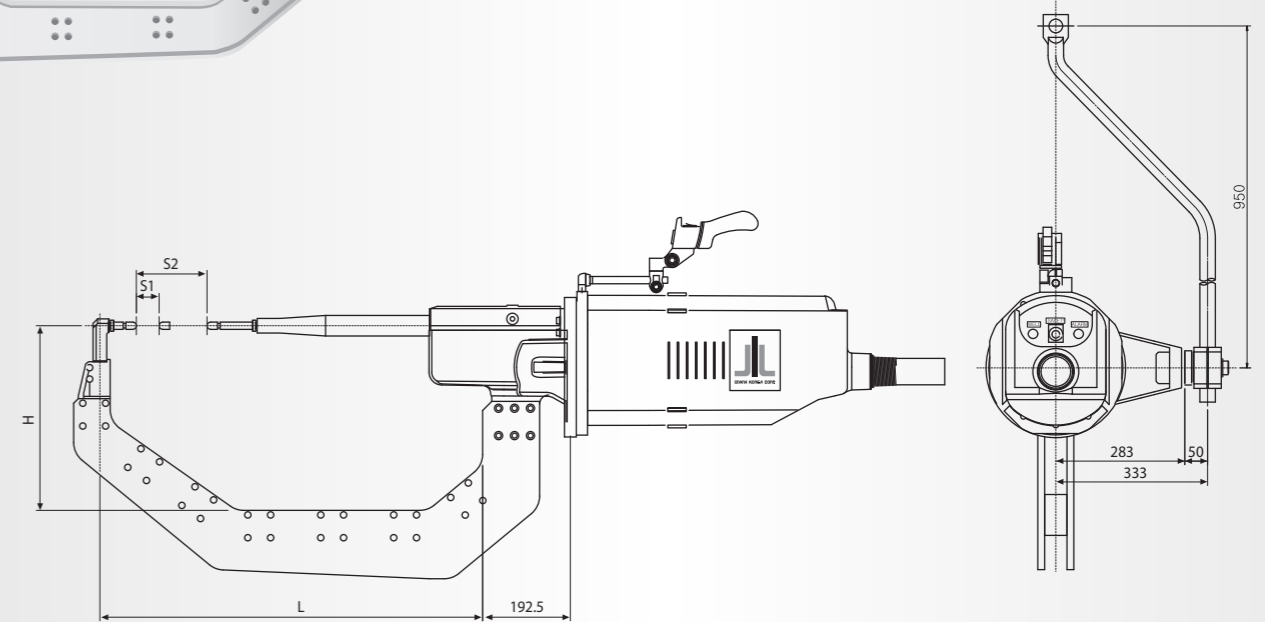
L(mm)		350			400			500		
H(mm)		200~350								
M(A)		15,000	18,000		18,000			18,000		
W(Kg)		73	81	76	75	83	78	77	85	80
Transformer		41KVA	53KVA	MFDC	41KVA	60KVA	MFDC	41KVA	60KVA	MFDC
E. C. C. (A)		4,000	5,400	5,700	4,000	5,400	5,700	4,000	5,400	5,700
Electrode stroke	Welding stroke (S1)(mm)	30								
	Retract stroke (S2)(mm)	105								
Electrode Pressure	Electrode Force (Kgf)	350	450	350	450	350	450	350	450	
	(N)	3,430	4,410	3,430	4,410	3,430	4,410	3,430	4,410	
	Air pressure (Kgf/cm <sup>2</sup> )	5	4.7	5	4.7	5	4.7	5	4.7	
Cylinder Area (cm <sup>2</sup> )		76.1	101	76.1	101	76.1	101	76.1	101	

M : Maximum short circuit current (A)

W : Weight (Kg)



# ICL(AL)



## Technical Specifications

L(mm)		800			900		
H(mm)		300~400					
M(A)		13,000	16,000	18,000	13,000	16,000	18,000
W(Kg)		98	113	103	100	115	104
Transformer		41KVA	75KVA	MFDC	41KVA	75KVA	MFDC
E. C. C. (A)		4,000	5,400	5,700	4,000	5,400	5,700
Electrode stroke	Welding stroke (S1)(mm)	50					
	Retract stroke (S2)(mm)	155					
Electrode Pressure	Electrode Force (Kgf)	300					
	(N)	2,940					
	Air pressure (Kgf/cm <sup>2</sup> )	4.1					
Cylinder Area (cm <sup>2</sup> )		76.1					

M : Maximum short circuit current (A)

W : Weight (Kg)