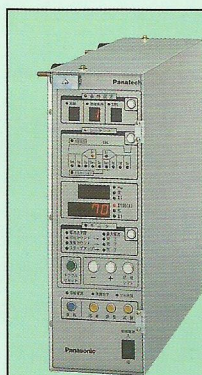
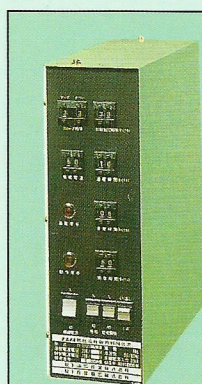


Panasonic®

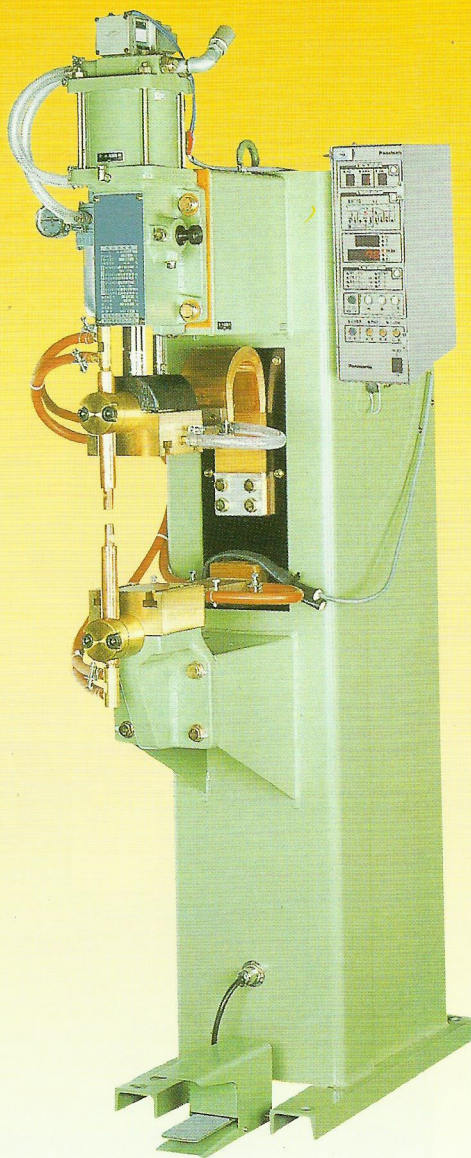
A.C. Resistance Welder & Micro-Computer Controlled Resistance Welder Timer



Micro-
Computer
Controlled
Timer
Panatech
YF-0201Z2



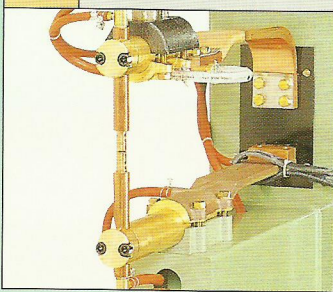
Standard
IC Controlled
Timer
YF-0701D



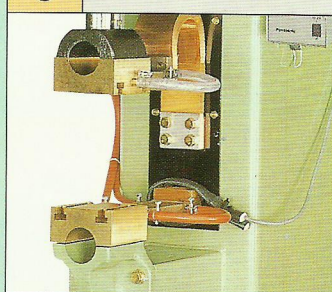
With outstanding Panasonic Micro-Computer Controlled Timers, Panasonic A.C. Resistance Welders provide excellent and precise welding controls. As a result, Panasonic welders yield exceptional welding performance.

A perfect combination for any welding job.

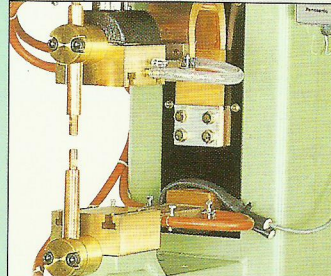
S Spot Type



J Projection Type



C Spot and Projection
Combination Type



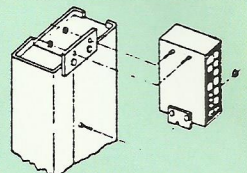
3.

4. Water-saving type
forced circulation
system

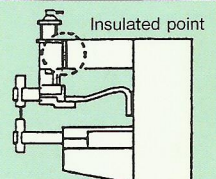
5. Press cylinder requires
no oiling.

6. Welder interlock
Two units can be easily interlocked by external wiring. Simultaneous activation is prohibited. This minimizes the facility line voltage power demand and fluctuations.

7. Easy-to-mount timer
For electric connection of timer and welding power supply, a connector is used, and for mounting timer on the machine main body, three bolts are used. (Applicable up to 70 kVA.)



8. Upper arm insulation
To prevent shortcircuit accident of the insulated part when the welding jig is mounted on the lower arm.



9. Thyristor (S.C.R.) control of output.
Welding maintenance is reduced and reliability is improved.

1. Adjustable speed head

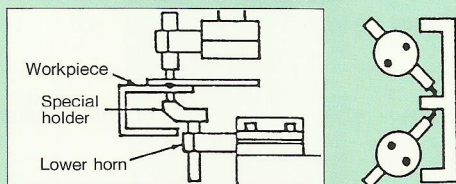
The ascending and descending speed of the press head can be freely and continuously adjusted. The shock, impact, and noise of the electrode impacting the work piece can be precisely controlled.

2. Designed for fast response and quick motion

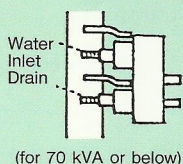
The stroke bearing in the guide unit is designed for less friction. The solenoid valve is directly coupled to the cylinder. This gives a fast response and a very high action speed.

Adjustable lower and upper horns extend and contract to conform to the work piece requirements for high flexibility.

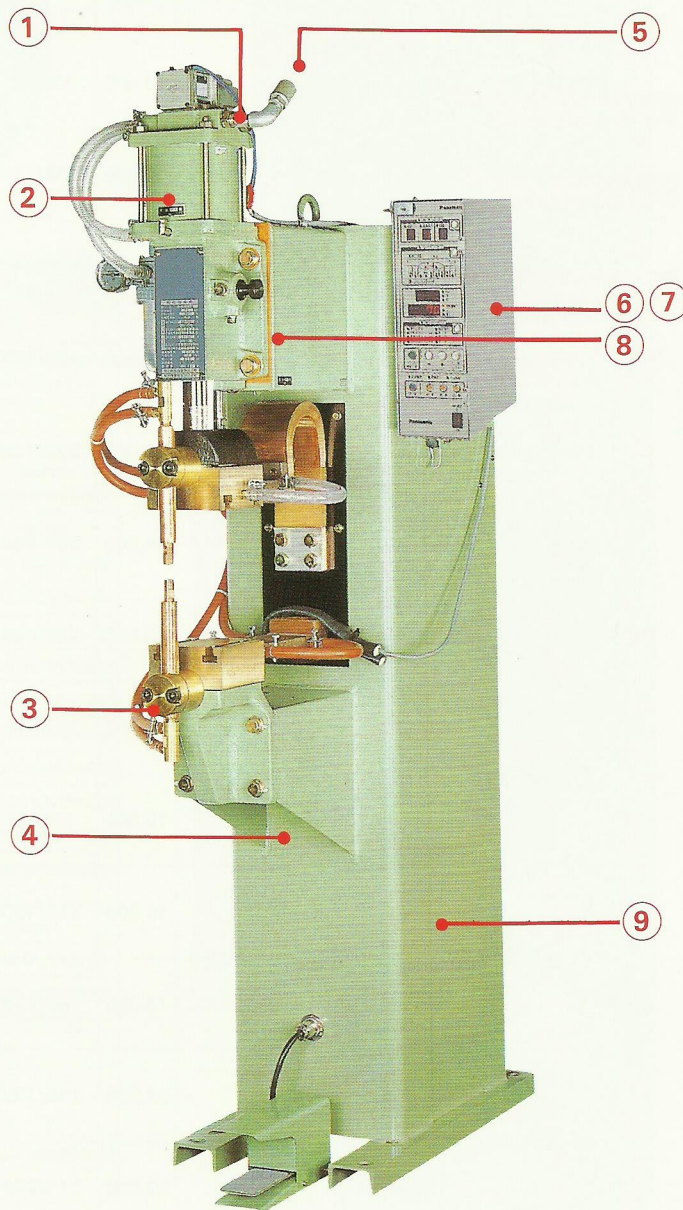
The lower horn can be moved back and forth depending on the shape of the object to be welded. (Applicable models: 150SA2, 350SA2, SM2, 350SB2, 500SB2) The horns are round on both top and bottom so that it can be rotated.



The cooling water is circulated by forced circulation system, and is not discarded. The flow rate of cooling water is notably decreased. (Example: In the case of 35kVA, it is decreased from 6 liters/min to 2 liters/min.)



With this design, exhaust air does not contain oil mist allowing for improved environmental safety and cleanliness. Maintenance is reduced by elimination of oil reservoir refilling requirements.



Wide selection range for various models, output amperages and timers.

MODELS AND RATINGS

		Nominal Power	Frequency	Welding Current (Max.)	Max. Input	Duty Cycle	Throat Dimensions	Electrode Pressure	Electrode Stroke	Cooling water	Weight	Welding Capacity (Steel plate B class)
		kVA	Hz	A	kVA	%	mm	kg	mm	Q / min	kg	
S	YR-150SA2	15	60/50	10,000	34/30	9.7/12.5	200×400	500	20·60	2	220	1.6t×1.6t
	YR-350SA2	35	60/50	13,000	67/59	13.6/17.6	200×600	500	20·60	2	255	2.3t×2.3t
	YR-350SM2	35	60/50	16,000	83/73	8.9/11.5	200×400	500	20·60	2	250	3.2t×3.2t
	YR-350SB2	35	60/50	16,000	104/90	5.7/7.5	200×600	500	20·60	2	270	3.2t×3.2t
	YR-500SB2	50	60/50	19,000	139/117	6.5/9.1	200×600	500	20·60	3	290	3.2t×3.2t
	YR-500SA2	50	60/50	19,500	143/120	6.1/8.7	200×600	1000	20·80	3	500	3.2t×3.2t
	YR-500SM2	50	60/50	22,500	165/138	4.6/6.6	200×425	1000	20·80	3	500	4.0t×4.0t
Projection	YR-500JM2	50	60/50	29,000	213/178	2.8/3.9	200×300	1000	20·80	3	500	—
	YR-800JA-2	80	60/50	34,000	297/263	3.6/4.6	200×300	1000	20·80	8	600	—
	YR-1000JA-2	100	60/50	40,000	428/384	2.7/3.4	200×300	1000	20·80	8	600	—
C	YR-350CM2	35	60/50	16,000	83/73	8.9/11.5	170×400	500	20·60	2	255	3.2t×3.2t
				19,500	101/89	6.0/7.7	170×300					—
	YR-500CA2	50	60/50	19,500	143/120	6.1/8.7	165×600	1000	20·80	3	500	4.0t×3.2t
				22,500	165/138	4.6/6.6	165×475					—
	YR-500CM2	50	60/50	22,500	165/138	4.6/6.6	165×425	1000	20·80	3	500	4.0t×3.2t
				29,000	213/178	2.8/3.9	165×300					—

Timer

Standard IC Timer

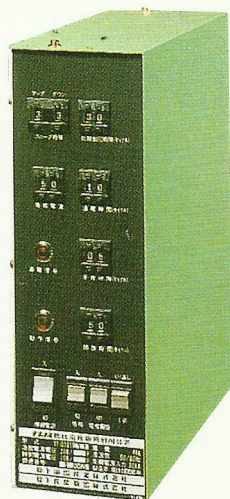
YF-0701D

Digital Switch Adjustment

Constant current output

Application

- Where constant output current is required
- For single welding condition

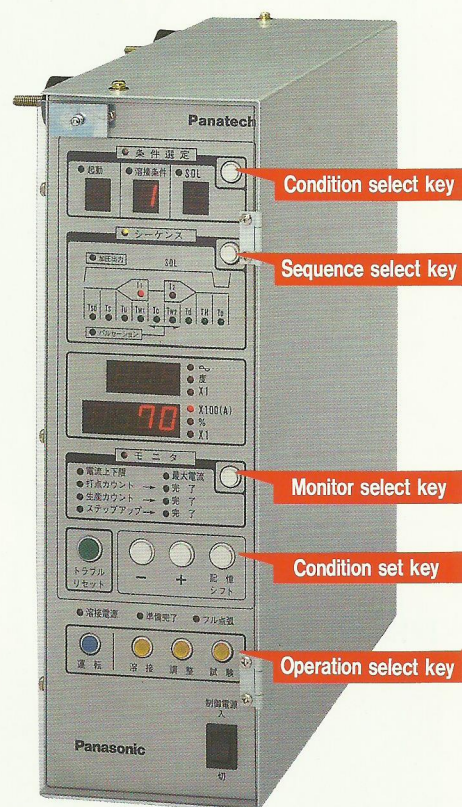


Micro-Computer Controlled Timer

Panatech

YF-0201Z2

- Large LED indication offers better view.
(1.5 times compared with our conventional type)
- All operation starts with push-buttons
- Operation indicated with buttons with lighting

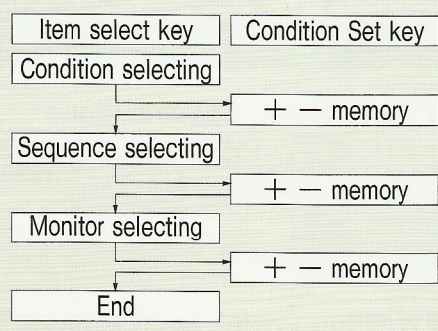


MODELS AND RATINGS

		Standard IC Timer	Multi-condition Micro-computer Controlled Timer
Model		YF-0701D	YF-0201Z2
Control	—	1 condition. 1 step current	4/15 conditions. 2 steps current (4 conditions on delivery)
SOL Signal Output	—	1 SOL	2 SOL
Compensation Method	—	Constant current (primary) Compensation for Power source voltage fluctuation	Constant current, (primary or secondary), Compensation for Power source voltage fluctuation
Frequency	Hz	50/60 changeable	50/60 Auto-change
Initial Delay Time	Cycle	—	0~99 (15 conditions individually)
Squeeze Time	Cycle	0~99	0~99 (15 conditions individually)
Weld Time(I)	Cycle	0~99	0~99 (15 conditions individually)
Up Slope Time	Cycle	0~9	0~99 (15 conditions individually)
Cooling Time(I)	Cycle	—	0~99 (15 conditions individually)
Weld Time(II)	Cycle	0~99	0~99 (15 conditions individually)
Down Slope Time	Cycle	0~9	0~99 (15 conditions individually)
Hold Time	Cycle	0~99	0~99 (15 conditions individually)
Off Time	Cycle	0~99	0~99 (15 conditions individually)
Pulsation Times	Cycle	0~9	0~20 (15 conditions individually)
Range of Current Adjustment	%,A	40~100%	1,500~50,000A (1,600A for primary constant current)
Applicable Welder	—	Thyristor type Max. Input up to 150kVA	Thyristor type Max. 5~50kVA
Compensation Accuracy	—	Within $\pm 3\%$ fluctuation with $\pm 20\%$ input voltage power fluctuation.	Within $\pm 3\%$ fluctuation with $\pm 20\%$ input voltage power fluctuation.
Hold Time Finish Signal	—	Possible with option parts	Built-in
Welding Current Passing Signal	—	Built-in	Built-in
Inter-Lock Signal	—	Built-in	Built-in
Change-over Switch	—	Welding, Test, Electrode adjustment	Welding, Test, Electrode adjustment
Dimensions (W×D×H)	mm	106×322×290	111×300×338
Weight	kg	4	5

High function timer with easy operation

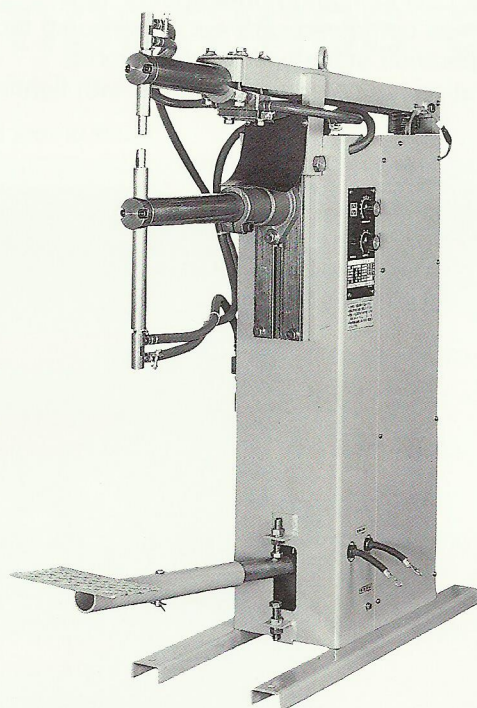
Basic setting



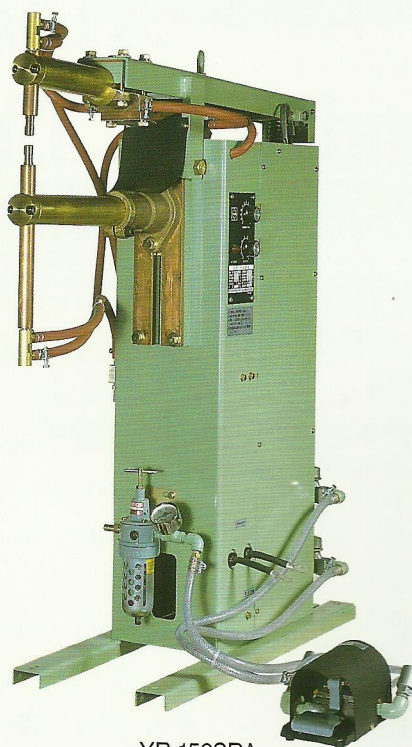
Thyristor (S.C.R.) + IC controlled Rocker Arm Type

A.C. Spot Welder

YR-150SRF, YR-150SRA



YR-150SRF



YR-150SRA

Rated Specifications

Model		Power Supply												Controller			
		Rated Input	Rated Primary Voltage	Max. Input	Duty Cycle	Welding Current	Electrode Pressure	Throat Dimension	Horn	Tip Holder	Electrode Tip	Electrode Stroke	Cooling water flow	Weight	Control Method	Adjustable Welding Time	Adjustable Current
		kVA	V	kVA	%	A	(Welding) kg	Width× Depth mm	φmm	φmm	mm	(Welding) mm	l/ min	kg		Cycle	%
YR-150SRF (YR-150SRA)	60Hz	15	1φ200	32	10	10,000*	150	150~300 × 400	50	25	16φ× 1/10	40	4	125	Synchron- ous	2~120	30~100
	50Hz			35	9	11,000*										2~100	

Compact Rocker Arm Type Spot Welder

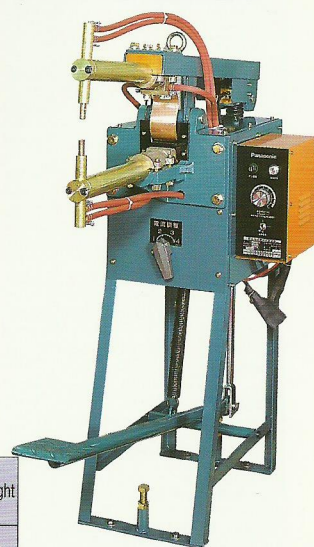
YR-080SRF-9K1 (Including Timer)

Timer Rated Specifications

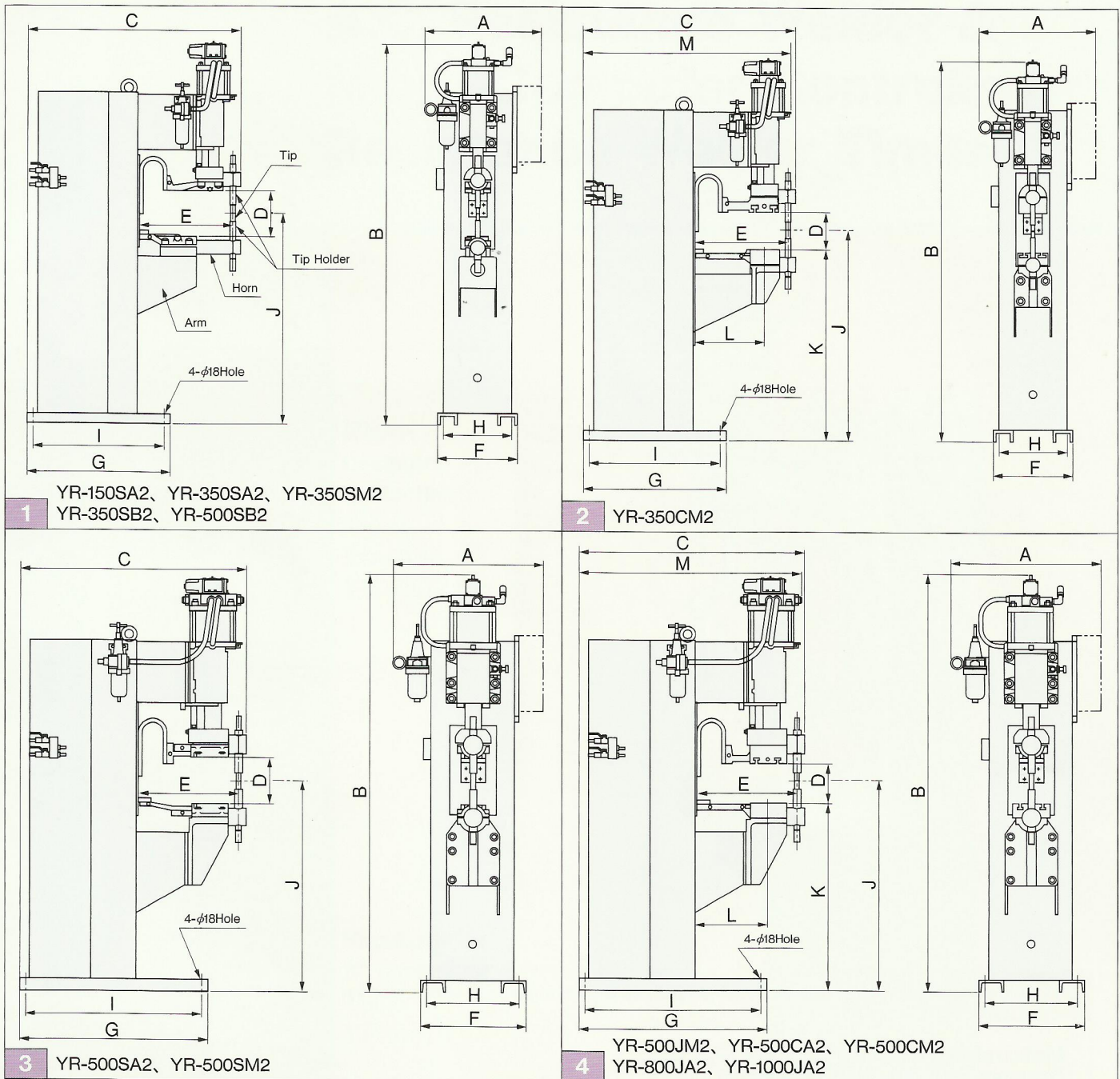
Model	Input Voltage	Frequency	Adjustable Welding Time	Current Control
	V	Hz	Cycle	
YF-0109M	200	50/60	2~120(60Hz) 2~100(50Hz)	Asynchronous

Welding Power Source Rated Specifications

Model		Rated Input	Rated Primary Voltage	Max. Input	Duty Cycle	Welding Current	Electrode Pressure	Throat Dimension	Horn	Tip Holder	Electrode Tip	Electrode Stroke	Cooling water flow	Weight
		kVA	V	kVA	%	A	(Welding) kg	Width × Depth mm	φmm	φmm	mm	(Welding) mm	l/min	kg
YR-080SRF9K1 (Including Timer)	60Hz	8	1φ200	21	8	7,000	120	150 × 400	45	22	12φ × 1/10	40	1	105
	50Hz			23	7	7,500								



External Dimensions (Throat dimensions=D×E)



External Dimensions (unit : mm)

	A	B	C	D	E	F	G	H	I	J	K	L	M
YR-350SA2, YR-350SB2, YR-500SB2	530	1,630	1,100	200	600	340	750	285	700	900	—	—	—
YR-150SA2, YR-350SM2	〃	〃	900	〃	400	〃	600	〃	550	〃	—	—	—
YR-350CM2	〃	〃	〃	170	〃	〃	〃	〃	〃	〃	815	300	—
YR-500SA2	580	1,780	1,150	200	600	440	800	390	750	〃	—	—	—
YR-500SM2	650	〃	980	〃	425	〃	〃	〃	〃	〃	—	—	—
YR-500JM2	〃	〃	—	〃	—	〃	〃	〃	〃	—	800	300	960
YR-500CA2	580	〃	1,150	165	600	〃	〃	〃	〃	〃	812	475	—
YR-500CM2	650	〃	980	〃	425	〃	〃	〃	〃	〃	〃	300	—
YR-800JA2, YR-1000JA2	690	〃	—	200	—	〃	〃	〃	〃	—	800	〃	960

**Safety precautions**

● Before attempting to use any welding product always read the manual thoroughly to ensure correct use.

**Matsushita Welding System Co., Ltd.
Overseas Sales and Marketing Group**

1-1, 3-chome, Inazu-cho, Toyonaka OSAKA 561-0854 JAPAN
TEL : 06(6866)8505 FAX : 06(6866)0709
URL : <http://www.mie.panasonic.co.jp/english/mwsc/index.html>

Bangkok **Welding**
(Thailand)

www.bangkokwelding.com

info@bangkokwelding.com Tel : (+66)0 2750 9100

Panasonic Resistance Welder

Specifications subject to change without notice.

Catalogue No. [RWACABA]
Printed in Japan [2002.11DKP]