

Panasonic
CONNECT

**Welding Machines,
Torches & Genuine Parts**
CO₂/MAG/MIG



Panasonic CO₂/MAG/MIG Welding Machine Guide

Model		Process							Output		Input		Applicable Wire Diameter (mm)	Guide for Applicable Thickness (mm)	Page		
		CO ₂ /MAG	Pulse MAG	MIG		Pulse MIG		DC Arc Gouging	DC Stick	Current Range (A)	Duty Cycle (%)	Voltage (V)	Phase	Frequency (Hz)			
Full Digital (Inverter)	350GZ4 YUA	○		○						30 to 350	60	380 to 415	3	50/60	0.8/0.9 1.0/1.2	0.8 to 12.0	2
	350VR1 YU1	○		○						30 to 350	60	380 to 415	3	50/60	0.8/0.9 1.0/1.2	0.8 to 12.0	2
	350GR3 YGA	○		○						30 to 350	60	380	3	50/60	0.8/0.9 1.0/1.2	0.8 to 12.0	—
	500GR3 YGA	○		○						60 to 500	100	380 to 415	3	50/60	1.2/1.4 1.6	1.2 to 25.0	—
	350GY3	○		○						30 to 350	60	380 to 415	3	50/60	0.8/0.9 1.0/1.2	0.8 to 12.0	—
	500GY3	○		○						60 to 500	100	380 to 415	3	50/60	1.2/1.4 1.6	1.2 to 25.0	—
	400GT3 YUA	○	○	○		○				30 to 400	60	380 to 415	3	50/60	0.9/1.0 1.2/1.4	0.8 to 16.0	3
	400GT3 YUD For aluminum	(○)	(○)	(○)	○	(○)	○			30 to 400	60	380 to 415	3	50/60	1.2/1.6	1.2 to 16.0	3
	350GL3	○	○	○		○				30 to 430	60	380 or 415	3	50/60	0.8/0.9 1.0/1.2	0.8 to 12.0	—
	500GL3	○	○	○		○				60 to 550	100	380 or 415	3	50/60	1.2/1.4 1.6	1.2 to 25.0	—
Inverter	350FR1	○								40 to 350	60	380 to 415	3	50/60	0.8/1.0 1.2	1.2 to 12.0	—
	500FR1	○								60 to 500	100	380 to 415	3	50/60	1.0/1.2 1.6	1.2 to 25.0	—
	350RX1	○								50 to 430	60	380 or 415	3	50/60	0.8 or 0.9 1.0/1.2	1.2 to 12.0	4
	400RX1	○								50 to 430	60	380 or 415	3	50/60	0.8 or 0.9 1.0/1.2	1.2 to 16.0	4
	500RX1	○								60 to 550	100	380 or 415	3	50/60	(1.0)/1.2 1.4/1.6	1.2 to 25.0	4
	600RF2 YGA	○								60 to 600	100	380	3	50/60	1.2/1.4 1.6	1.2 to 40.0	5
Thyristor	200KR2	○								50 to 200	60	380	3	50/60	0.8/0.9 1.0/1.2	0.8 to 6.0	6
	350KR2	○								60 to 350	50	380	3	50/60	0.8/0.9 1.0/1.2	1.2 to 12.0	6
	500KR2	○								60 to 500	60	380	3	50/60	1.2/1.4 1.6	1.2 to 25.0	6
	600KH2	○					○	○		60 to 600	100	380	3	50/60	1.2/1.4 1.6	1.2 to 40.0	6
	500CL5	○					(●) (optional)	(●) (optional)		60 to 500	60	380	3	50/60	1.2/1.4 1.6	1.2 to 25.0	7
Slide Transformer	180SL7	○								60 to 180	40	380	3	50/60	0.8/1.2	0.8 to 6.0	7

(○): If Steel or Stainless Steel is desired for these standard Aluminum packages, please select the appropriate wire feeder and torch for these alternate materials.

Full Digital (Inverter): Digital display, control and communication for easier operation, increased energy savings, reduced size and weight and superior welding performance compared to non-digital or thyristor welding machines.

Inverter: Inverter control achieves improved welding performance compared to thyristor models while providing increased energy savings in a smaller and lighter design.

Thyristor: Standard welding models.

Full Digital 350GZ4

Full Digital CO₂/MAG Welding Machine

High Performance Model

CO₂/
MAG
Stainless
MIG

Delivers a Revolutionary CO₂/MAG Welding Process.



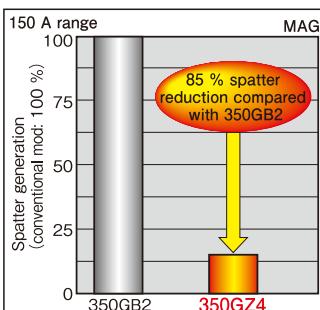
Made in Japan

High Welding Performance

SP-MAG

(Superimposition Control)

Low-spatter MAG process for thin plates using mixed gas!



- Greatly reduced spatter.
- Higher welding speeds.
- Exceptional bead appearance.

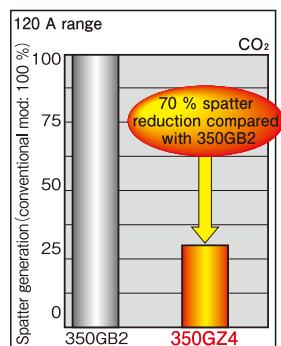
MTS-CO₂

(Metal Transfer Stabilization Control)

"MTS control" reduces spatter of CO₂ gas welding and takes advantage of its constant pan bottom-shaped penetration.



• Joint: Fillet • Base Metal: Mild Steel SPCC (I2.3 mm/120 A)
• Weld Speed: 0.3 m/min • Weld Wire: YGW12 (1.2 mm dia)
• Shielding Gas: CO₂



Full Digital 350VR1

Full Digital CO₂/MAG Welding Machine

CO₂/
MAG

Stainless
MIG

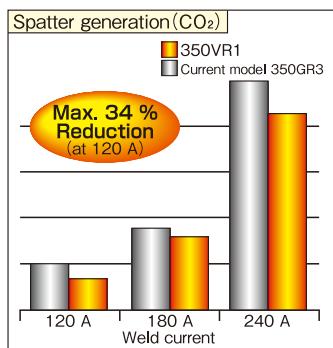
Improved Arc Control in All Current Ranges

High welding performance. Various functions.



Made in Japan

Improved arc control in all current ranges achieves stable arc.



•Joint: Fillet
•Material: Mild steel (SPCC)
•Weld speed: 50 cm/min
•Wire size: 1.2 mm
•Shielding gas: CO₂

- Spatter reduction
- Stable bead

Effective in all current ranges.

"Weld Navigation." for Weld Parameters



Same algorithm as TAWERS robot welding system with integrated power source.
Shorter parameter setting time.



Interchangeable with Peripherals for 350GR3



Welding power source	350VR1	350GR3
Wire feeder	YW-35DG2	YW-35DG1
	YW-35DG2CA0	YW-35DG1CA0
Remote controller	YD-35GRR1TAG (with 5 memory recall function)	YD-35GRR1 (standard)
Torch	YT-CS4/CE4 series	
Gas regulator	YX-25AD1	

Peripherals for 350GR3 are also supported.

Full Digital 400GT3

Full Digital Pulse MAG/MIG Welding Machine

Model for Mild Steel
and Stainless Steel
Welding

CO₂/
MAG

Pulse
MAG

Stainless
Pulse
MIG

GT3 with Full Digital Technology, a Versatile Platform with Simple Operation.



Made in Japan

High Welding Performance

400 A rated output allows more efficient and higher-speed welding than 350 A model.

- 100% duty cycle @ 310 A (100% @ 270 for 350A Model)
- 400 A rated output current improves production versatility.

High-quality welding with GT Pulse control

Pulse arc type	Arc stability	GT Pulse control
1) Hybrid pulse	X	Increased arc stability across current range
2) Soft pulse		
3) Hard pulse		
Pulse MAG welding of mild steel	Pulse MIG welding of stainless steel	
• Process: Pulse MAG • Parameters: 200 A, 25.2 V • Speed: 50 cm/min • Wire: 1.2 mm solid • Workpiece: 4.5 mm mild steel • Shielding gas: 80 % Ar/20 % CO ₂ • Joint: Fillet	• Process: Pulse MIG • Parameters: 160 A, 20.2 V • Speed: 50 cm/min • Wire: 1.2 mm SUS308 (stainless) • Workpiece: 3.0 mm SUS304 (stainless) • Shielding gas: 98 % Ar/2 % O ₂ • Joint: Fillet	

High-precision Full Digital control allows soft and stable arc.

- High-precision wire feeding system using encoder feedback.
- Consistent results - welding conditions can easily be reproduced from site to site.



2 drive 4 roll wire feeder

Easy Operation

- Simple control panel allows easy setting.



Simple control panel

Full Digital 400GT3

Full Digital Pulse MAG/MIG Welding Machine

Model for
Aluminum
Welding

Aluminum
MIG

Aluminum
Pulse
MIG

Change the wire feeder and torch to the ones for mild steel and stainless steel.

CO₂/
MAG

Pulse
MAG

Stainless
MIG

Stainless
Pulse
MIG

GT3 with Full Digital Technology, a Versatile Platform with Simple Operation.



Made in Japan

High Welding Performance

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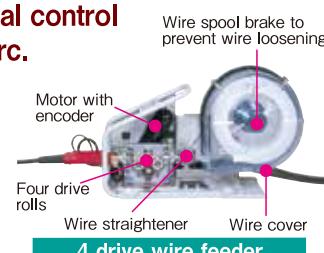
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High-quality welding with GT Pulse control.

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1) Hybrid pulse	X	Increased arc stability across current range
2) Soft pulse		
3) Hard pulse		

High-precision Full Digital control allows soft and stable arc.

- High-precision wire feeding system using encoder feedback.
- Consistent results-welding conditions can easily be reproduced anytime, anywhere.



4 drive wire feeder

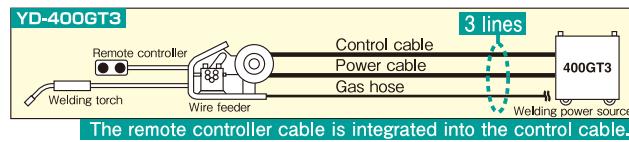
Smooth arc starting

- Current rapidly increases at arc starting and FTT control creates uniform wire end shapes at welding ends, which ensures stable and smooth arc starting.

Improved Mobility

Fewer connection cables

- Remote controller connects to the wire feeder directly.



Inverter RX1 series

Inverter Controlled CO₂/MAG Welding Machines

**Tough. Energy Saving.
Affordable.
Better Welding
Performance.**



CO₂/
MAG

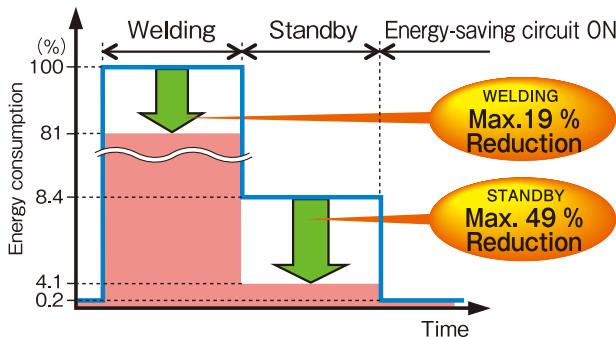
Made in China

Higher Energy-Saving Performance

Energy consumption comparison between 350RX1 and thyristor model

*Weld current: 150 A range

■ 350RX1 ■ Thyristor



■ High power efficiency allows energy-saving welding.

■ Power supply to the transformer stops after welding, which prevents transformer loss (no-load loss) and reduces standby power consumption.

■ Energy-saving circuit turns on seven minutes after the torch switch is released.

Higher Welding Performance

■ Digital waveform control achieves good arc starting and stable arc.

■ Unitary control of weld current and voltage eliminates the need of voltage setting, allowing easy weld parameter setting and high working efficiency.

■ Wire feed speed is constant even if the voltage fluctuates.

Inverter 600RF2

Inverter Controlled CO₂/MAG Welding Machine

CO₂/
MAG

**Primary Welding Machine for
Semi-Automatic or Automatic
Welding of Medium or Thick Plates.**

Greatly increased deposition rate and welding speed.



Duty cycle
100 %
@ 600 A

Made in Japan

High Welding Performance

High power welding output rating of 600 A @ 100 % duty cycle best suited for automatic welding equipment.

- Even at extended cable lengths the 600RF2 has more than enough capacity for welding operations (80 % duty cycle @ 55 V)
- Stable low current welding can be achieved from 120 A with 1.4 mm wire when welding mild steel using 100 % CO₂ gas.

Easy Operation

More user-friendly with more functions for medium/thick plate welding.

■ Initial current and voltage controls and a crater repeat switch, which are frequently used in medium/thick plate welding, are included on the front panel.

Control panel



1.2 mm Advantages

- Extremely low spatter in the high current range
- Good bead appearance
- Higher deposition with 1.2 mm wire can be obtained with a higher output capability (400 A) than standard.

	Max. weld current	Deposition rate
600RF2	400 A	190 g/m
CO ₂ 500 A machine	350 A	120 g/m

1.4 mm Advantages

- Improved deposition capability over 1.2 mm due to increased maximum output of 550 A.
- Higher productivity leads to lower overall cost than 1.2 mm.

	Max. weld current	Deposition rate
600RF2	550 A	240 g/m
CO ₂ 500 A machine	500 A	200 g/m

Daily Maintenance

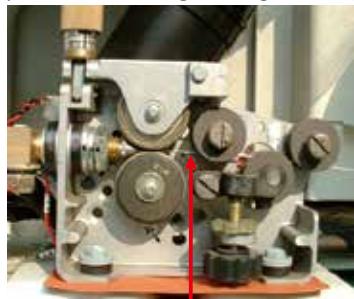
CO₂/MAG Welding

Wire Feeders

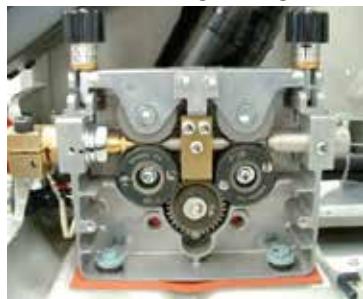
Adjust the pressure roller position according to the wire size.

Applying too much pressure on the wire eliminates the wire winding and reduces the contact pressure between the wire and contact tip. This causes an unstable arc due to unstable power supply to the wire.

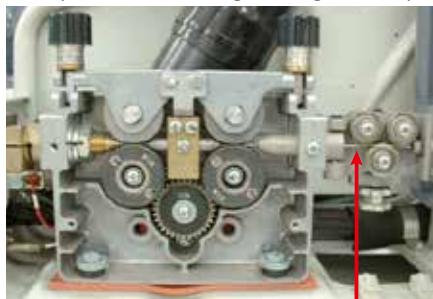
1 Drive 2 Roll Type
(With Wire Straightening Rollers)



2 Drive 4 Roll Type
(Without Wire Straightening Rollers)



2 Drive 4 Roll Type
(With Wire Straightening Rollers)



Fit the wire into the feed roller groove(s) so that there is no misalignment.

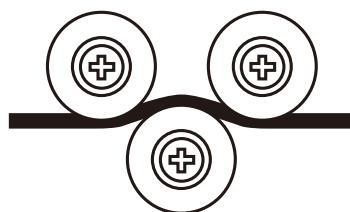


Top View Images



*Correct the misalignment such as the following.

Top View Figure



Wire Straightening Rollers
(Not for All the Models)

Do not straighten a wire too much as shown above. Failure to do so eliminates the wire winding and reduces the contact pressure between the wire and contact tip, causing an unstable arc due to unstable power supply to the wire.

Nozzles and Contact Tips



- Replace a deformed nozzle with a new one. A deformed nozzle changes the flow of shielding gas and causes porosity and pinholes. To prevent the deformation, do not hit a nozzle to remove the spatter inside.
- Be sure to install an orifice to improve insulation and shielding effect.
- An elliptically-deformed contact tip hole causes an unstable arc due to unstable power supply to the wire. Replace the contact tip with a new one.

Power-Supply Facilities and Others

- See the product manual and use a breaker and cables* of appropriate sizes.
*Input/output cables, extension cables
- Tighten connections securely.

Thyristor KR2 series

Thyristor Controlled CO₂/MAG Welding Machines

Best Selling Models

CO₂/
MAG

Best Selling Models with Outstanding Performance and a Wide Application Capability.



Made in China

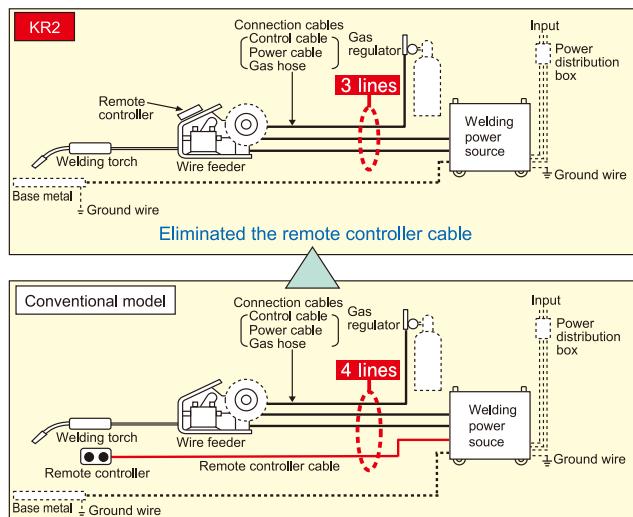
Good Welding Performance

- KR2 series uses a special control circuit to achieve low spatter welding in short circuit and spray transfer in CO₂/MAG welding.
- The arc starting circuit allows virtually 100 % arc start success in any operating mode which makes it possible to use this model in both semi-automatic or automatic welding equipment.
- In simplified unitary mode, the welding current setting on the remote controller automatically determines the corresponding welding voltage.

Simple structure

Non-remote control cable design

- Remote controller connects to the wire feeder directly and the remote controller cable is integrated into the control cable. This reduces the total cable weight and potential for cable damage, which improves mobility.



Thyristor 600KH2

Thyristor Controlled CO₂/MAG Welding Machine

CO₂/
MAG DC
Manual DC
Gouging

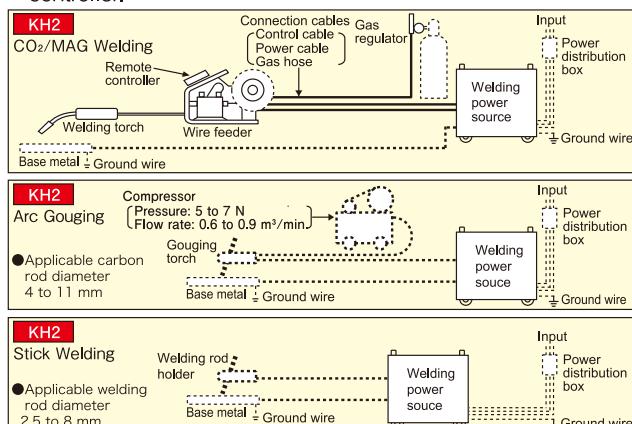
Most Suitable for High Current, High Duty Cycle Welding Requirements.



Made in China

Multi-Process Capability

- The 600 KH2 offers multi-process capability — CO₂/MAG, DC stick and DC arc gouging. DC stick welding and DC arc gouging can be selected using selector switch on the remote controller.



Good Welding Performance

Best suited for thick plate welding for heavy machinery.

- A high amperage rating and 100 % duty cycle make it ideal for heavy welding applications. For further capability an optional water cooled torch and wire feeder are available.

Excellent performance across a wide current range.

- The 600KH2 is equipped with two output terminals for low welding current (60 to 200 A) and high welding current (200 to 600 A) to improve the arc performance based on the metal thickness.

Simplified weld parameter setting

- In simplified unitary mode, the weld current setting on the remote output control automatically determines the corresponding welding voltage. Fine weld voltage adjustment is also available.

Optional windproof model also available.

- With a specialized windproof torch*, gas regulator** and gas hose*** assembly, the 600KH2 can be used as a windproof welding machine (wind speed <10 m/sec).

*YT-50CS3HBL **W-200-36V-3 ***8 mm diameter

Thyristor 500CL5

Thyristor Controlled CO₂/MAG Welding Machine

Welding cable
can be extended
up to 50 m!

Optional
CO₂/
MAG
DC
Stick
DC Arc
Gouging



Made in China

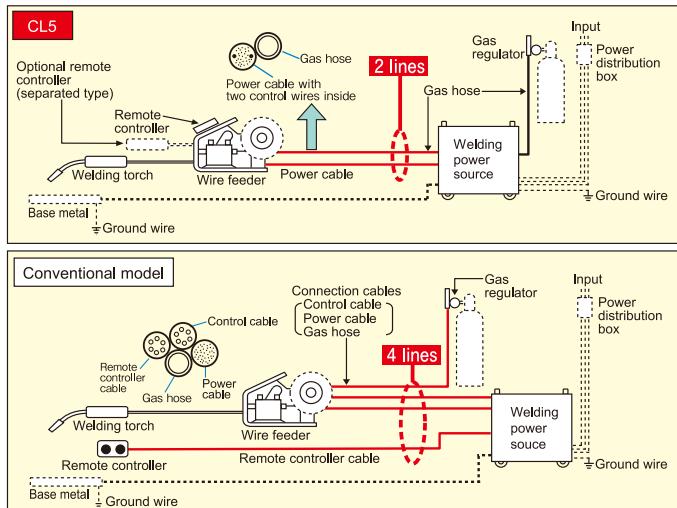
Most Suitable for Welding Large Structures Such as Vessels, Bridges and High-Rise Buildings.

Convenient Feature

Output cable can be extended up to 50 m for remote operation.

When the cable is extended, the weight increases substantially. To reduce the load on operators, the control cable, remote controller cable and power cable were integrated into a single output cable. This innovation greatly reduces the total cable weight and potential for cable damage.

Arc Gouging and Stick Welding also available (options required)



Slide Transformer 180SL7 (mini)

Unitary controlled CO₂/MAG Welding Machine

CO₂/
MAG
Arc
spot

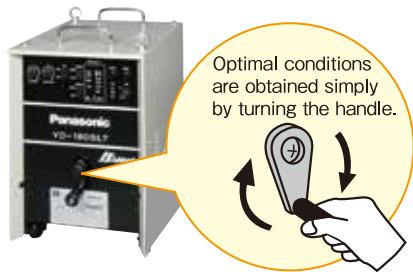
Reliable Welding Machine Exclusively for Thin Plate Welding.



Made in China

Easy Operation

■ Easy adjustment of weld output.

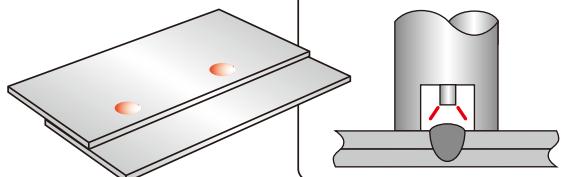


■ A fine current adjustment knob allows easy adjustment of bead shape.

■ Compact, lightweight and easy-to-use torch.
(extended length also available)

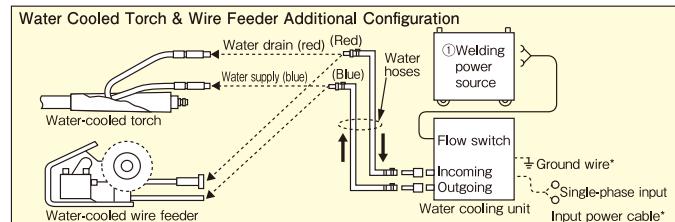
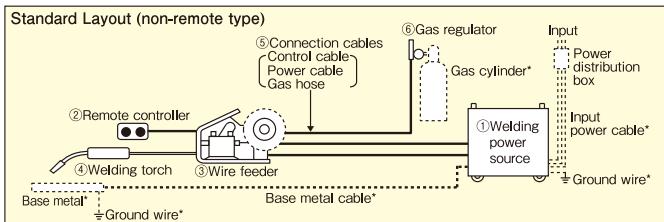
Good Welding Performance

■ Spot welding is available with configurable arc spot current and time. (1 to 3 seconds)



■ Smooth arc starting
The run-in wire speed at arc starting achieves smooth arc starting even in continuous welding or tack welding.

Welding System Configuration



*Customer supplied items

*Customer supplied items

① Welding Power Source	② Remote Controller	③ Wire Feeder	④ Welding Torch*	⑤ Connection Cables	⑥ Gas Regulator	Other Items
YD-350GZ4YUA	YD-00DHR1YAA (2 m)	YW-35DH1	• YT-35CS4TAB (Special) • No.34 to 38 selectable	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m) • Extension cables optional	YX-25AD1	• Voltage detection wire (5 m) supplied with welding power source • Extension cable (DWCO0***) optional
YD-350VR1YU1	YD-35GRR1 (2 m)		• YT-35DG2 (2.1 m control cable) • YT-35DG2CAO (10 m control cable)	• YT-35CV4 • No.1 to 10 selectable	• Supplied with wire feeder • Extension cables optional	• YX-25AD1 for CO ₂ /MAG/MIG
YD-350GR3YGA	YD-35GRR1 (2 m)		• YT-35DG1 (1.8 m control cable) • YT-35DG1CAO (10 m control cable)	• YT-35CV4 • No.1 to 10 selectable	• Supplied with wire feeder • Extension cables optional	• YX-25AD1 for CO ₂ /MAG/MIG
YD-500GR3YGA	YD-50GGR1 (2 m)	YW-50DG1	• YT-50CS4 • No.12 to 17 selectable	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m) • Extension cables optional	• YX-25AD1 for CO ₂ /MAG/MIG	
YD-350GY3		YW-35DG1HA1	YT-35CS4HAE	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	YX-25CD1	
YD-500GY3		YW-50DG1HA1	YT-50CS4HAE	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	YX-25CD1	
YD-400GT3YUA (for mild steel/ stainless steel)	YD-40GTR1 (2 m)	YW-40DG1	• YT-35CSG4 • No.11 to 18 selectable	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m) • Extension cables optional	YX-25AD1	
YD-400GT3YUD (for aluminum)	YD-40GTR1 (2 m)	YW-40DG1TAK	• YT-30MD2 • No.26 to 29 selectable	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m) • Extension cables optional	YX-25AD1	
YD-350GL3		YW-35DG1HA3	YT-35CS3VTA	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	YX-25CD1	
YD-500GL3		YW-50DG1HA1	YT-50CS3VTA	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	YX-25CD1	
YD-350FR1	Supplied with wire feeder	YW-35KB3HME	• YT-35CS3CTA • No.1 to 10 selectable	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	YX-25CD1	
YD-500FR1	Supplied with wire feeder	YW-50KB3HME	• YT-50CS3CTA • No.3 to 10, 12 to 17 selectable	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	YX-25CD1	
YD-350RX1		YW-35KB3HAB	YT-35CS3	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	YX-25CD1	
YD-400RX1		YW-40KB3HAF	YT-40CS4	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	YX-25CD1	
YD-500RX1		YW-50KB3HRO	YT-50CS4	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	YX-25CD1HAK	
YD-600RF2YGA	YD-60RFR1	• YT-50AF1 (air-cooled) • YT-60AFW2 (water-cooled)	• YT-50CS4 (air-cooled) • YT-601CCW (water-cooled)	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	• YX-25AD1 for CO ₂ /MAG/MIG	Water cooling unit YX-09KGC1 optional
YD-200KR2	Supplied with wire feeder	YW-20KB3HAE	• YT-20CS3CTA • No.1 to 2 selectable	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	YX-25CD1	
YD-350KR2	Supplied with wire feeder	YW-35KB3HAE	• YT-35CS3CTA • No.1 to 10 selectable	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	YX-25CD1	
YD-500KR2	Supplied with wire feeder	YW-50KB3HAE	• YT-50CS3CTA • No.12 to 17 selectable	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	YX-25CD1	
YD-600KH2	Supplied with wire feeder	YW-60KCW2HAE	YT-601CCWHAE	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	YX-25CD1	Water cooling unit YX-09KGC1HGE optional
YD-500CL5	Supplied with wire feeder	YW-50CA2HAB	• YT-35CSM3CTA • No.3 to 10, 12 to 17 selectable		YX-25CD1	
YD-180SL7		YW-181FK2HAE	• YT-20CS3CTA • No.1 to 2 selectable	• Supplied with wire feeder • Control/Power cables (1.8 m) • Gas hose (4.8 m)	YX-25CD1	

*Refer to page 15 for torch numbers

Specifications

① Welding Power Sources

	•Rated Input Voltage •Phase •Rated Frequency	Rated Input Capacity	Output Current Adjustable Range (A)	Output Voltage Adjustable Range (V)	Rated Duty Cycle (%)	Applicable Wire Diameter (mm)	Applicable Welding Wire	Dimensions (W×D×H) (mm)	Weight (kg)
YD-350GZ4YUA	•380/415 V •3-phase •50/60 Hz	17.7 kVA / 16 kW	30 to 350	12 to 36	60	0.8/0.9/ 1.0/1.2	•Mild steel •Stainless steel	380×550×640	61
YD-350VR1YU1	•380/415 V •3-phase •50/60 Hz	16.4 kVA / 15 kW	30 to 350	12 to 36	60	0.8/0.9/ 1.0/1.2	•Mild steel •Stainless steel	380×540×660	59
YD-350GR3YGA	•380 V •3-phase •50/60 Hz	17 kVA / 16 kW	30 to 350	12 to 36	60	0.8/0.9/ 1.0/1.2	•Mild steel •Stainless steel	380×540×640	52
YD-500GR3YUA	•380/415 V •3-phase •50/60 Hz	28.5 kVA / 26.5 kW	60 to 500	14 to 45	100	1.2/1.4/1.6	•Mild steel •Stainless steel	380×540×810	65.5
YD-350GY3	•380 or 415 V •3-phase •50/60 Hz	14.5 kVA / 14 kW	30 to 350	12 to 36	60	0.8/0.9/ 1.0/1.2	•Mild steel •Stainless steel	380×550×645	50
YD-500GY3	•380 or 415 V •3-phase •50/60 Hz	23.3 kVA / 22.4 kW	60 to 500	17 to 45	100	1.2/1.4/1.6	•Mild steel •Stainless steel	380×550×815	60
YD-400GT3YUA (Mild steel/ stainless steel)	•380/415 V •3-phase •50/60 Hz	20.5 kVA / 19 kW	30 to 400	12 to 38	60	0.9/1.0/ 1.2/1.4	•Mild steel •Stainless steel	380×540×675	61
YD-400GT3YUD (Mild steel/stainless steel/aluminum)	•380/415 V •3-phase •50/60 Hz	20.5 kVA / 19 kW	30 to 400	12 to 38	60	0.9/1.0/1.2/1.4/1.6 (1.6 is for hard aluminum only.)	•Mild steel •Stainless steel •Hard aluminum	380×540×675	61
YD-350GL3	•380 or 415 V •3-phase •50/60 Hz	14.5 kVA / 14 kW	30 to 430	16 to 35.5	60	0.8/0.9/ 1.0/1.2	•Mild steel •Stainless steel	380×550×645	50
YD-500GL3	•380 or 415 V •3-phase •50/60 Hz	23.3 kVA / 22.4 kW	60 to 500	17 to 45	100	1.2/1.4/1.6	•Mild steel •Stainless steel	380×550×815	60
YD-350FR1	•415 V •3-phase •50/60 Hz	13.5 kVA / 13 kW	40 to 350	16 to 31.5	60	0.8/1.0/1.2	Mild steel	372×545×669	56
YD-500FR1	•415 V •3-phase •50/60 Hz	23.3 kVA / 22.4 kW	60 to 500	17 to 39	100	1.0/1.2/ 1.4/1.6	Mild steel	372×545×669	62
YD-350RX1	•380 or 415 V •3-phase •50/60 Hz	13.1 kVA / 12.6 kW	50 to 430	16.5 to 35.5	60	0.8 or 0.9 1.0/1.2	Mild steel	380×545×570	52
YD-400RX1	•380 or 415 V •3-phase •50/60 Hz	16.2 kVA / 15.6 kW	50 to 430	16.5 to 35.5	60	0.8 or 0.9 1.0/1.2	Mild steel	380×545×570	52
YD-500RX1	•380 or 415 V •3-phase •50/60 Hz	23.1 kVA / 22.2 kW	60 to 550	17 to 41.5	100	(1.0)/1.2/1.4/1.6 (1.0 is type of HGF/HJE.)	Mild steel	380×545×635	60
YD-600RF2YGA	•380 V •3-phase •50/60 Hz	37 kVA / 35 kW	60 to 600	14 to 50	100	1.2/1.4/1.6	Mild steel	440×585×1005	120
YD-200KR2	•380 V •3-phase •50/60 Hz	7.6 kVA / 6.5 kW	50 to 200	15 to 25	60	0.8/1.0/1.2	Mild steel	376×675×747	89
YD-350KR2	•380 V •3-phase •50/60 Hz	18.1 kVA / 16.1 kW	60 to 350	16 to 31.5	50	0.8/1.0/1.2	Mild steel	376×675×747	117
YD-500KR2	•380 V •3-phase •50/60 Hz	31.9 kVA / 28.1 kW	60 to 500	17 to 39	60	1.2/1.4/1.6	Mild steel	436×675×762	158
YD-600KH2	•380 V •3-phase •50/60 Hz	45 kVA / 40 kW	60 to 600	17 to 44	100	1.2/1.4/1.6	Mild steel	500×690×920	232
YD-500CL5	•380 V •3-phase •50/60 Hz	30.4 kVA / 28.1 kW	60 to 500	17 to 39	60	1.2/1.4/1.6	Mild steel	436×675×762	148
YD-180SL7	•380 V •3-phase •50/60 Hz	6.8 kVA / 6.4 kW	60 to 180	17 to 23	40	0.8/1.2	Mild steel	310×430×509	49

Specifications

③ Wire Feeders

	For Welding Power Source	Applicable Welding Wire	Applicable Wire Diameter (mm)	Connector Type for Welding Torch	Drive Method	Weight (kg)	Accessories
YW-35DH1	YD-350GZ4YUA	•Mild steel •Stainless steel	(0.8)/0.9/(1.0)/1.2	CC fitting	2 drive 4 roll	15	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-35DG2	YD-350VR1YU1	•Mild steel •Stainless steel	(0.8)/0.9/(1.0)/1.2	CC fitting	2 drive 4 roll	12	•Control cables: 2.1 m •Power cables: 1.8 m •Gas hose: 4.8 m
YW-35DG2CA0	YD-350VR1YU1	•Mild steel •Stainless steel	(0.8)/0.9/(1.0)/1.2	CC fitting	2 drive 4 roll	19	•Control cables: 10.3 m •Power cables: 10 m •Gas hose: 13.2 m
YW-35DG1	YD-350GR3YGA	•Mild steel •Stainless steel	(0.8)/0.9/(1.0)/1.2	CC fitting	2 drive 4 roll	12	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-35DG1CA0	YD-350GR3YGA	•Mild steel •Stainless steel	(0.8)/0.9/(1.0)/1.2	CC fitting	2 drive 4 roll	19	•Control/Power cables: 10 m •Gas hose: 13 m
YW-40DG1	YD-400GT3YUA	Stainless steel	0.9/(1.0)/1.2/(1.4)	CC fitting	2 drive 4 roll	12.5	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-50DG1	YD-500GR3YUA	•Mild steel •Stainless steel	1.2/1.4/(1.6)	CC fitting	2 drive 4 roll	13	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-35DG1HA1	YD-350GY3	•Mild steel •Stainless steel	(0.8)/(0.9)/1.0/1.2	CC fitting	2 drive 4 roll	12	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-35DG1HA3	YD-350GL3	•Mild steel •Stainless steel	(0.8)/(0.9)/1.0/1.2	CC fitting	2 drive 4 roll	12	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-40DG1TAK	YD-400GT3YUD	Aluminum	1.2/1.6	CC fitting	4 drive roll	15	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-50DG1HA1	•YD-500GY3 •YD-500GL3	•Mild steel •Stainless steel	1.2/(1.4)/1.6	CC fitting	2 drive 4 roll	13.5	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-35KB3HME	YD-350FR1	Mild steel	1.0/1.2	CC fitting	1 drive 2 roll	10	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-50KB3HME	YD-500FR1	Mild steel	1.2/1.6	CC fitting	1 drive 2 roll	10.5	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-35KB3HAJ	YD-350RX1	Mild steel	0.8/(0.9)/(1.0)/1.2	CC fitting	1 drive 2 roll	10	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-40KB3HAF	YD-400RX1	Mild steel	(0.8)/0.9/(1.0)/1.2	CC fitting	1 drive 2 roll	10.5	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-50KB3HR0	YD-500RX1	Mild steel	1.2/(1.4)/1.6	CC fitting	1 drive 2 roll	10.5	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-50AF2 (Air cooled)	YD-600RF2YGA	Mild steel	1.2/1.6	CC fitting	1 drive 2 roll	10.5	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-60AFW2 (Water cooled)	YD-600RF2YGA	Mild steel	1.2/(1.4)/1.6	CC fitting	1 drive 2 roll	12	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-20KB3HAE	YD-200KR2	Mild steel	0.8/1.0	CC fitting	1 drive 2 roll	10	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-35KB3HAE	YD-350KR2	Mild steel	1.0/1.2	CC fitting	1 drive 2 roll	10	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-50KB3HAE	YD-500KR2	Mild steel	1.2/1.6	CC fitting	1 drive 2 roll	10.5	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-60KCW2HAE	YD-600KH2	Mild steel	1.2/1.6	CC fitting	1 drive 2 roll	12	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-50CA2HAJ	YD-500CL5	Mild steel	1.0/1.2	CC fitting	1 drive 2 roll	12	•Control/Power cables: 1.8 m •Gas hose: 4.8 m
YW-181FK2HAE	YD-180SL7	Mild steel	0.8/1.2	CC fitting	1 drive 2 roll	9	•Control/Power cables: 1.8 m •Gas hose: 4.8 m

④ YT-35CV4

Welding Torch for CO₂/MAG Welding

Easier Operation and Stronger Structure!



- Welding torch for welding mild steel and stainless steel.
- CC fitting connection type.

■ Specifications

Model	Rated Current (A)	Cooling Method	Rated Duty Cycle (%)	Applicable Wire Diameter (mm)				Cable Length (m)
				0.9	1.0	1.2	1.4	
YT-35CV4	350	Air-cooled	45 (CO ₂) / 35 (MAG)	○	○	○	○	3

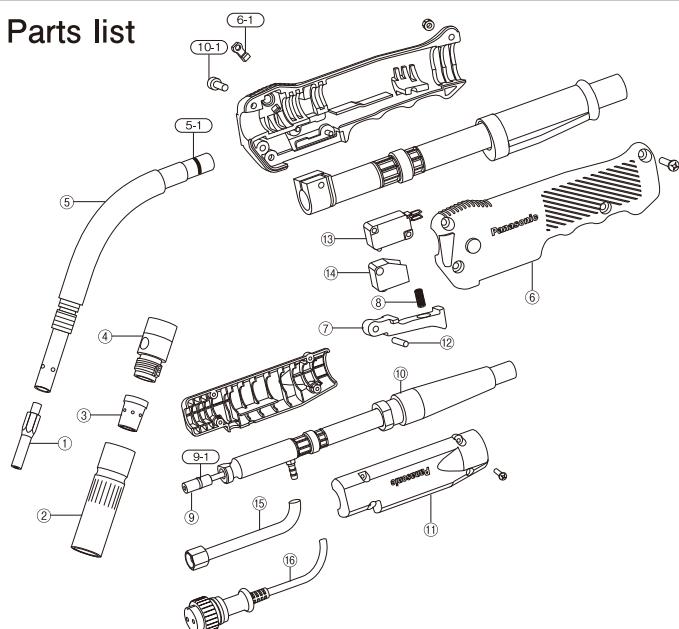
Note:

• Torch is equipped with parts for the wire of "○" diameter. Optional parts are required to use the wires of "○" diameters.

• 4.5 m cable length type also available.

• Rated duty cycle is based on IEC 60974-7.

Parts list



No.	Description	YT-35CV4
1	Contact tip	TET01296
2	Nozzle	TGN00143
3	Orifice	TGR01001
4	Insulator	TFZ35101
5	Torch body	TCX00877
5-1	O-ring	P8V
6	Handle C	TKC00029
6-1	Packing	TZV00002
7	Switch lever C	THL00002
8	Switch spring	TBN00003
9	Liner	TDT00398
9-1	O-ring	P7
10	Power cable	TDX00381
10-1	Clamping bolt	XVE5A15
11	Protection tube	TFP00018
12	Pin	XPJ4B18FJ
13	Micro switch	MTNS000314AA
14	Switch cover	TSK50102
15	Gas hose assembly	TWG00046
16	Control cable assembly	TWU18102
—	Liner (4.5 m torch)	TDT00399
—	Power cable (4.5 m torch)	TDX00382

④ RED TORCH 4

Welding Torch for CO₂/MAG Welding

All New.
RED

Higher Welding Performance,
Operability and Safety.



**■For Mild Steel and Stainless Steel
CC Fitting Connection Type**

Model No.	Rated Current (A)	Cooling Method	Rated Duty Cycle (%)	Applicable Wire Diameter (mm)							Cable Length (m)	Remarks
				0.6	0.8	0.9	1.0	1.2	1.4	1.6		
1 YT-18CS4	180	Air-cooled	40 (CO ₂) / 20 (MAG)	○	○						3	
2 YT-20CS4	200	Air-cooled	50 (CO ₂) / 25 (MAG)		○	○	○				3	
3 YT-35CE4	350	Air-cooled	20 (CO ₂) / 20 (MAG)		○	○	○				3	Lightweight type
4 YT-35CEM4	350	Air-cooled	20(CO ₂) / 20 (MAG)		○	○	○	○			4.5	Lightweight type
5 YT-35CS4	350	Air-cooled	45 (CO ₂) / 35 (MAG)		○	○	○	○	○		3	
6 YT-35CSM4	350	Air-cooled	45 (CO ₂) / 35 (MAG)		○	○	○	○			4.5	
7 YT-35CSL4	350	Air-cooled	45 (CO ₂) / 35 (MAG)				○	○			6	
8 YT-35CH4	350	Air-cooled	60 (CO ₂) / 35 (MAG)		○	○	○	○			3	High duty cycle
9 YT-35CHM4	350	Air-cooled	60 (CO ₂) / 35 (MAG)		○	○	○	○			4.5	High duty cycle
10 YT-35CHL4	350	Air-cooled	60 (CO ₂) / 35 (MAG)				○	○			6	High duty cycle
11 YT-35CSG4	350	Air-cooled	20 (Pulsed MAG) / 45 (CO ₂) / 35 (MAG)			○	○	○	○		3	For pulse welding
12 YT-50CE4	500	Air-cooled	25 (CO ₂) / 20 (MAG)				○	○	○		3	Lightweight type
13 YT-50CEM4	500	Air-cooled	25 (CO ₂) / 20 (MAG)				○	○	○		4.5	Lightweight type
14 YT-50CEL4	500	Air-cooled	25 (CO ₂) / 20 (MAG)				○	○	○		6	Lightweight type
15 YT-50CS4	500	Air-cooled	40 (CO ₂) / 35 (MAG)				○	○	○		3	
16 YT-50CSM4	500	Air-cooled	40 (CO ₂) / 35 (MAG)				○	○	○		4.5	
17 YT-50CSL4	500	Air-cooled	40 (CO ₂) / 35 (MAG)				○	○	○		6	
18 YT-50CSG4	500	Air-cooled	20 (Pulsed MAG 350 A) / 40 (CO ₂) / 35 (MAG)				○	○	○		3	For pulse welding

Euro-Connector Type

Model No.	Rated current (A)	Cooling type	Duty cycle (%)	Applicable Wire Diameter (mm)							Cable Length (m)	Remarks
				0.6	0.8	0.9	1.0	1.2	1.4	1.6		
19 YT-18ES4	180	Air-cooled	40 (CO ₂) / 20 (MAG)	○	○						3	
20 YT-20ES4	200	Air-cooled	50 (CO ₂) / 25 (MAG)		○	○	○	○			3	
21 YT-35EE4	350	Air-cooled	20 (CO ₂) / 20 (MAG)		○	○	○				3	Lightweight type
22 YT-35ES4	350	Air-cooled	45 (CO ₂) / 35 (MAG)			○	○	○			3	
23 YT-35ESG4	350	Air-cooled	20 (Pulsed MAG) / 45 (CO ₂) / 35 (MAG)			○	○	○			3	For pulse welding
24 YT-35EEM4	350	Air-cooled	20 (CO ₂) / 20 (MAG)			○	○	○			4.5	Lightweight type
25 YT-35ESM4	350	Air-cooled	45 (CO ₂) / 35 (MAG)			○	○	○			4.5	

Note: 2 drive 4 roll wire feeder is required to use 4.5 m Euro-connector type torch.

■For Aluminum

CC Fitting Connection Type

Model No.	Rated current (A)	Cooling type	Duty cycle (%)	Applicable Wire Diameter (mm)							Cable Length (m)	Remarks
				0.6	0.8	0.9	1.0	1.2	1.4	1.6		
26 YT-20MD2	200	Air-cooled	30 (Pulsed MIG) / 60 (MIG)				○	○			3	
27 YT-30MD2	300	Air-cooled	30 (Pulsed MIG) / 50 (MIG)				○	○			3	
28 YT-40MDW2	400	Water-cooled	60 (Pulsed MIG) / 100 (MIG)				○	○			3	
29 YT-50MDW2	500	Water-cooled	60 (Pulsed MIG) / 80 (MIG)				○	○			3	

Euro-Connector Type

Model No.	Rated current (A)	Cooling type	Duty cycle (%)	Applicable Wire Diameter (mm)							Cable Length (m)	Remarks
				0.6	0.8	0.9	1.0	1.2	1.4	1.6		
30 YT-20MF2	200	Air-cooled	30 (Pulsed MIG) / 60 (MIG)				○	○			3	
31 YT-30MF2	300	Air-cooled	30 (Pulsed MIG) / 50 (MIG)				○	○			3	
32 YT-40MF2	400	Water-cooled	60 (Pulsed MIG) / 100 (MIG)				○	○			3	
33 YT-50MF2	500	Water-cooled	60 (Pulsed MIG) / 80 (MIG)				○	○			3	

■Special Torches for 350GZ4 (CC Fitting Type with 3-Pin Connection Torch Switch Cable)

Model No.	Rated current (A)	Cooling type	Duty cycle (%)	Applicable Wire Diameter (mm)							Cable Length (m)	Remarks
				0.6	0.8	0.9	1.0	1.2	1.4	1.6		
34 YT-20CS4TAB	200	Air-cooled	50 (CO ₂) / 25 (MAG)		○	○	○	○			3	
35 YT-35CE4TAB	350	Air-cooled	20 (CO ₂) / 20 (MAG)		○	○	○	○			3	Lightweight type
36 YT-35CS4TAB	350	Air-cooled	45 (CO ₂) / 35 (MAG)		○	○	○	○	○		3	

■Optional Resin Liners for Stainless Steel Welding

Torch	Wire 0.8 mm Solid	0.9 mm Solid/FCW	1.0 mm Solid	1.2 mm Solid/FCW	1.6 mm Solid/FCW
YT-18CS4	Supplied	—	—	—	—
YT-18CS4	WSTDT00057	—	—	—	—
YT-20CS4	—	TDT00371	TDT00371	TDT00345	—
YT-35CE4	—	TDT00371	TDT00371	TDT00345	—
YT-35CS4	—	TDT00362	TDT00362	TDT00350	—
YT-50CE4	—	—	—	TDT00350	TDT00364
YT-50CS4	—	—	—	TDT00350	TDT00364
YT-35CSG4	—	TDT00362	TDT00362	TDT00350	—
YT-50CSG4	—	—	—	TDT00350	—

**■Optional R Tips for
Stainless Steel Welding**

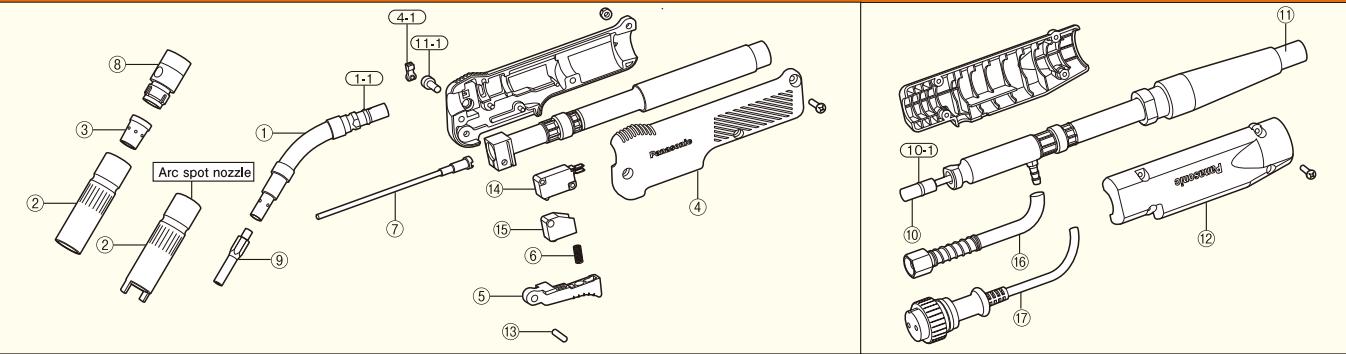
0.8 mm Solid	0.9 mm Solid/FCW	1.0 mm Solid
TET00842	TET00959	TET01068
1.2 mm Solid	1.6 mm Solid/FCW	
TET12003	TET01692	

Note: Torches are equipped with parts for the wires of "○" diameter. Optional parts are required to use the wires of "○" diameters.

*Rated duty cycle is based on IEC 60974-7. **A special wire feeder is required to use a 6 m torch.

Consult us before using 0.6 mm mild steel wire. *Optional R tips and resin liners are recommended for higher welding performance.

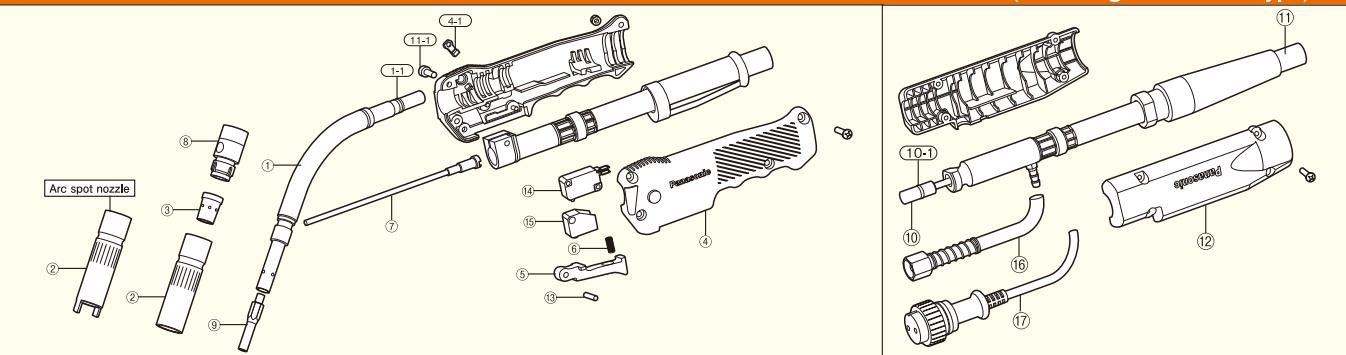
●YT-18CS4 ●YT-20CS4 ●YT-35CE4 ●YT-35CEM4 (CC fitting connection type)



No.	Part Name	YT-18CS4	YT-20CS4	YT-35CE4	YT-35CEM4
1	Torch body		TCU20111		TCU35056
1-1	O-ring		P8V		
2	Nozzle	TGN01208	—	*TGN00044(S1)	
	Arc spot nozzle	*TGN01210		TGN00043(S2)	
3	Orifices	—		*TGN01615	
4	Handle S		TKC00030		
4-1	Packing		TZV00002		
5	Switch lever S		THL00013		
6	Switch spring		TBN00003		
7	Inner tube	TGT00606	TGT00607	TGT00608	
8	Insulator	—		TFZ35101	
9	Contact tip	*TET00630(0.6 mm) TET00841(0.8 mm) —	TET00958(0.9 mm) *TET01296(1.2 mm)	*TET00958(0.9 mm) *TET01067(1.0 mm) *TET01296(1.2 mm)	
10	Liner	TDT00260(083)	TDT00261(125)	TDT00261(125)	TDT00264(125)
10-1	O-ring		P8		
11	Power cable	TDX00240	TDX00242	TDX00243	TDX00255
11-1	Clamping bolt			TMB00503	
12	Protection tube			TFP00018	
13	Pin			XPJ4B18FJ	
14	Micro switch			MTNS000314AA	
15	Switch cover			TSK50102	
16	Gas hose assy			TWG18102	
17	Control cable assy			TWU18102	

*Optional parts

●YT-35CS4 ●YT-35CSM4 ●YT-35CSL4 ●YT-35CH4 ●YT-35CHM4 ●YT-35CHL4 (CC fitting connection type)



No.	Part Name	YT-35CS4	YT-35CSM4	YT-35CSL4	YT-35CH4	YT-35CHM4	YT-35CHL4
1	Torch body			TCU35022			
1-1	O-ring			P8V			
2	Nozzle			*TGN00044(S1)			
	Arc spot nozzle			TGN00043(S2)			
3	Orifices			*TGN01615			
4	Handle C			TKC00029			
4-1	Packing			TZV00002			
5	Switch lever C			THL00002			
6	Switch spring			TBN00003			
7	Inner tube			TGT00609			
8	Insulator			TFZ35101			
9	Contact tip	*TET00958(0.9 mm) *TET01067(1.0 mm)		—	*TET00958(0.9 mm) *TET01067(1.0 mm)		—
					TET01296(1.2 mm)		
					*TET01447(1.4 mm)		
10	Liner	*TDT00279(S091) TDT00262(S121)	*TDT00280(S091) TDT00265(S121)	—	*TDT00279(S091) TDT00262(S121)	*TDT00280(S091) TDT00265(S121)	—
10-1	O-ring			P7			
11	Power cable	TDX00234	TDX00246	TDX00249	TDX00267	TDX00268	TDX00269
11-1	Clamping bolt			XVE5A15			
12	Protection tube			TFP00018			
13	Pin			XPJ4B18FJ			
14	Micro switch			MTNS000314AA			
15	Switch cover			TSK50102			
16	Gas hose assy			TWG18102			
17	Control cable assy			TWU18102			

*Optional parts

● YT-50CE4 ● YT-50CEM4 ● YT-50CEL4 ● YT-50CS4 ● YT-50CSM4 ● YT-50CSL4 (CC fitting connection type)

No.	Part Name	YT-50CE4	YT-50CEM4	YT-50CEL4	YT-50CS4	YT-50CSM4	YT-50CSL4
1	Torch body		TCU43112		P8V	TCX00006	
1-1	O-ring						
2	Nozzle		TGN00043(S2)			TGN00056(S3)	
	Arc spot nozzle		*TGN01615			—	
3	Orifices		TGR01001			TGR00902	
4	Handle C				TKC00029		
4-1	Packing				TZV00002		
5	Switch lever C				THL00002		
6	Switch spring				TBN00003		
7	Inner tube	TGT00035				TGT00033	
8	Insulator	TFZ35101				TFZ50107	
9	Contact tip				*TET01296 (1.2 mm) TET01447 (1.4 mm) *TET01691 (1.6 mm)		
10	Liner	TDT00262(S121) *TDT00263(S161)	TDT00265(S121) *TDT00267(S161)	TDT00266(S121) *TDT00268(S161)	TDT00263(S161)	TDT00267(S161)	TDT00268(S161)
10-1	O-ring				P7		
11	Power cable	TDX00267	TDX00268	TDX00269	TDX00238	TDX00251	TDX00253
11-1	Clamping bolt				XVE5A15		
12	Protection tube				TFP00018		
13	Pin				XPJ4B18FJ		
14	Micro switch				MTNS000314AA		
15	Switch cover				TSK50102		
16	Gas hose assy				TWG18102		
17	Control cable				TWU18102		
20	Arc cover				*TKA50117		

*Optional parts

● YT-18ES4 ● YT-20ES4 ● YT-35EE4 ● YT-35EEM4 ● YT-35ES4 ● YT-35ESM4 (Euro connector type)

No.	Part Name	YT-18ES4	YT-20ES4	YT-35EE4	YT-35EEM4	YT-35ES4	YT-35ESM4
1	Torch body		TCU20111		TCU35056		TCU35022
1-1	O-ring			P8V			
2	Nozzle		TGN01208			*TGN00044 (S1)	
	arc spot nozzle		—			TGN00043 (S2)	
3	Orifices		—			*TGN01615	
4	Handle C		TKC00030			TGR01001	
4-1	Packing				TZV00002		TKC00029
5	Switch lever C		THL00013				THL00002
6	Switch spring				TBN00003		
7	Inner tube	TGT00606	TGT00607		TGT00608		TGT00609
8	Insulator	—				TFZ35101	
9	Contact tip	*TET00630 (0.6 mm) TET00841 (0.8 mm)	*TET00841 (0.8 mm)	*TET00958 (0.9 mm)	—	*TET00958 (0.9 mm)	—
		TET00841 (0.8 mm)	TET00958 (0.9 mm)	*TET01067 (1.0 mm)		*TET01067 (1.0 mm)	
		—		*TET01067 (1.0 mm)			TET01296 (1.2 mm)
				*TET01296 (1.2 mm)	TET01296 (1.2 mm)		
10	Liner	TDT00269 (081)		TDT00271 (122)	TDT00274 (123)	*TDT00281 (093)	—
11	Power cable	TDX00261	TDX00085	TDX00096	TDX00097	TDT00273 (123)	TDT00274 (123)
11-1	Clamping bolt		TMB00503			TDX00237	TDX00248
12	Protection tube			YTA1 (BW0195)			XVE5A15
13	Pin			XPJ4B18FJ			
14	Micro switch			MTNS000314AA			
15	Switch cover			TSK50102			
16	Connection body			TFM00095			
16-1	O-ring			SS4.5			
17	Adapter nut			YTA2 (BW0020)			
18	Liner nut			YTA3 (FA0026)			
19	Protection spring			YTA4 (EA0342)			

*Optional parts

Accessories

⑤ Connection Cables

For 350GZ4 (optional)

	Model No.	Cable Length	Accessories
1	YV-305GZ4A	5 m (38 mm ²)	•One power cable
2	YV-310GZ4A	10 m (38 mm ²)	•One control cable
3	YV-315GZ4A	15 m (38 mm ²)	•One gas hose
4	YV-320GZ4A	20 m (38 mm ²)	
5	YV-605GZ4A	5 m (60 mm ²)	
6	YV-610GZ4A	10 m (60 mm ²)	
7	YV-615GZ4A	15 m (60 mm ²)	
8	YV-620GZ4A	20 m (60 mm ²)	

For 400GT3 (optional)

	Model No.	Cable Length	Accessories
28	YV-610GR1A	10 m (60 mm ²)	•One power cable
29	YV-615GR1A	15 m (60 mm ²)	•One control cable
30	YV-620GR1A	20 m (60 mm ²)	•One gas hose
31	YV-810GR1A	10 m (80 mm ²)	
32	YV-815GR1A	15 m (80 mm ²)	
33	YV-820GR1A	20 m (80 mm ²)	

For 350VR1, 350/500GR3 (optional)

	Model No.	Cable Length	Accessories
28	YV-305GR3A	5 m (38 mm ²)	•One power cable
29	YV-310GR3A	10 m (38 mm ²)	•One control cable
30	YV-315GR3A	15 m (38 mm ²)	•One gas hose
31	YV-320GR3A	20 m (38 mm ²)	
32	YV-610GR3A	10 m (60 mm ²)	
33	YV-615GR3A	15 m (60 mm ²)	
34	YV-620GR3A	20 m (60 mm ²)	
35	YV-810GR3A	10 m (80 mm ²)	
36	YV-815GR3A	15 m (80 mm ²)	
37	YV-820GR3A	20 m (80 mm ²)	

⑥ Gas Regulators



No.	Model	Weld Process	Gas Flow Rate (L/min)	Accessories
1	YX-25AD1	CO ₂ /MAG/MIG	25	
2	YX-503A	Aluminum MIG	50	

Water Cooling Units



◆ Features

● High cooling capacity (200 kJ/min)

● No priming water required

Cascade pump eliminates the need for priming water.

● Easy maintenance

No tools are required to replace coolant.

Tank and filter are easily removable, which makes for easy cleaning to reduce pump problems.

		YX-09KGC1YGA	YX-09KGC1YJA
Rated Input Voltage	V	380 (±10 %)	415 (±10 %)
Phase	—		Single phase
Rated Frequency	Hz		50/60 (common)
Rated Input Capacity	W		230/330
Coolant Capacity	L		9
Cooling Method	—		Forced air-cooled radiator
Coolant Circulating System	—		Forced circulation pump
Cooling Capacity	kJ/min		200
Coolant Flow Rate	L/min		2.2/2.6
Coolant Head	m		20/25
Maximum Load	kg		60
Dimensions (W×D×H)	mm		380×545×474
Weight	kg		36

The depth (D) does not include the water inlet of the tank.

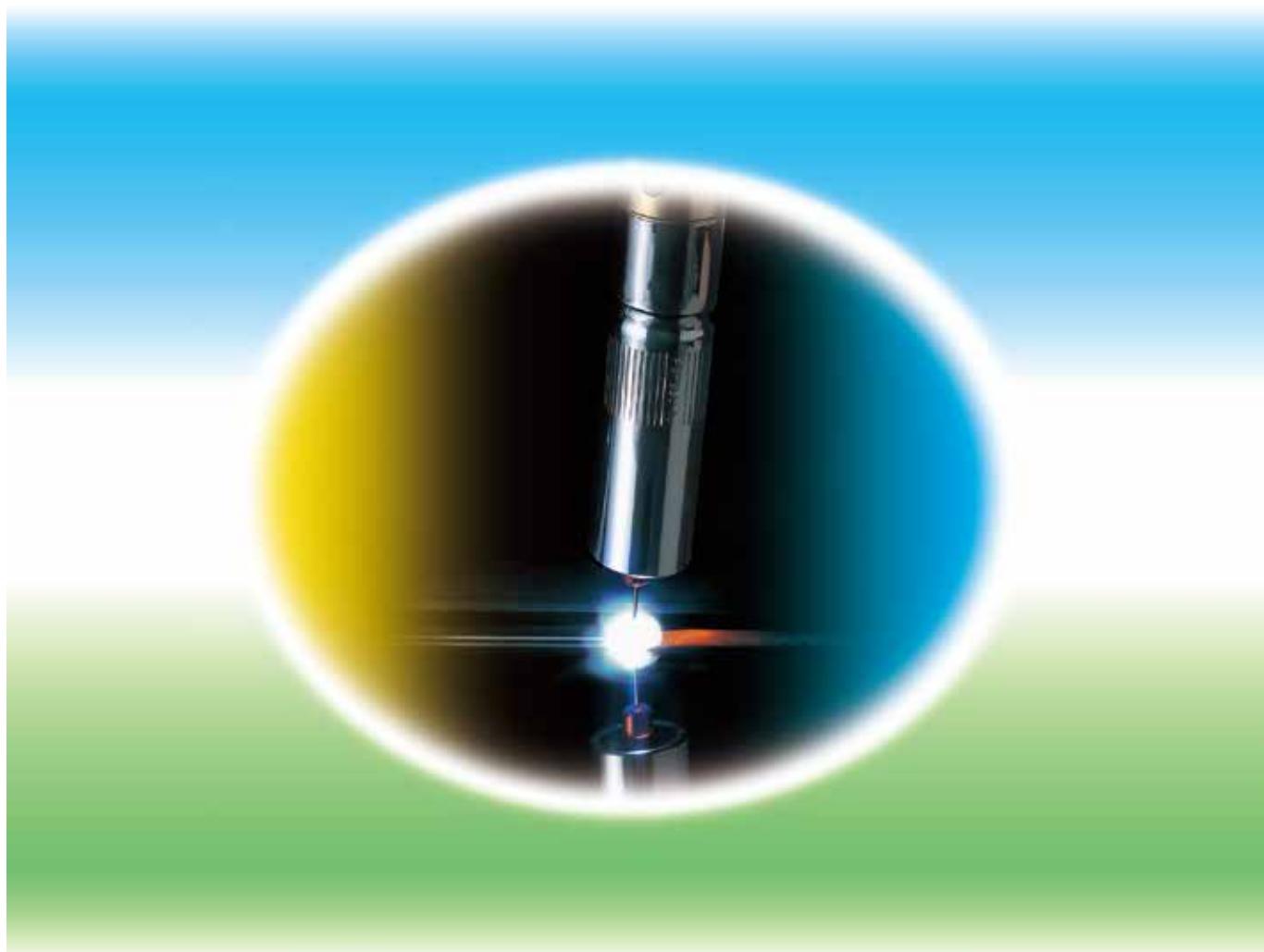
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and
Robot
College



We support development of
highly skilled welding operators.

Workshops:

- Robot
- MAG/MIG
- TIG
- Special training

Process
Development



Process verification prior to
system installation.

Case Examples:

- New factory weld processing
- Improvement of existing processes
- Develop new welding solutions

Consulting



Professional staff offer
technical solutions.

Qualifications:

- Welding coordination personals (including first class)
- JIS qualified welding operators
- Metal materials inspectors
- International welding license holders



We provide products that are friendly to the environment.

As an earth-friendly company, Panasonic Corporation discourages the use of hazardous substances in our products. The products of Panasonic Corporation comply with the European RoHS directive.

Safety precautions

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

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• Specifications are subject to change without notice.

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