High reliability under fierce operational surroundings

- Unique 3-layer 4-chamber design
  - The single highly integrated main control PC Board is adopted, easy for maintenance.
  - 3-layer 4-chamber structure enjoys superior dust-proof performance; the separate air passage and high-power cooling fan enable machine to withstand 50 degrees Celsius.
  - The output terminals are placed in dust-proof structure. The enclosure class is as high as IP23 offering fine raindrop-proof and drip-proof performance.

A higher level energy-saving technologies

(Integrate Panasonic advanced control technologies on energy-saving)

- Compare the energy consumption with thyristor model

[WELDING]
  - Compared with thyristor controlled welding machine, more power consumption can be significantly reduced.
  - Thanks to the high speed CPU, higher wire feeding stability, more concentrated arc voltage and remarkable energy-saving effect are achievable.

[STAND-BY]
  - After welding, the power supply of the transformer can be cut off, eliminating the no-load loss. Hence, the stand-by power consumption is greatly lowered.
  - [The power-saving circuit is configured as standard specification]
  - The power-saving circuit takes action seven minutes after the end of welding.

High reliability, light weight and easy operation

- Designed for high temperature (50 degree Celsius) and humidity resistance
- Inherited the features of easy operation

7-segment Display
Selector Switch

Easy to realize high quality welding

- Equipped with digital wave control

Joint: Fillet welding
Thickness: 1.2mm
Wire Dia.: 1.2mm (YGW12)
Gas: MAG (Ar: 80%, CO2: 20%)

Thyristor
YD-350/400RX1
Compare the energy consumption with thyristor model

- High reliability under fierce operational surroundings
- A higher level of energy-saving technologies

Thanks to the high-speed CPU, higher wire feeding results in more power consumption being significantly reduced. Compared with thyristor controlled welding machines, energy-saving effects are achievable.

After the end of welding, the power-saving circuit takes action seven minutes. The power-saving circuit is configured as standard, ensuring stand-by power consumption is greatly lowered.

After welding, the power supply of the transformer can be cut off, eliminating the no-load loss. Hence, the power supply can be efficiently saved.

Unique 3-layer 4-chamber design

- The output terminals are placed in separate air passages to ensure high dust-proof performance; the cooling fan enables the machine to withstand high temperatures (50 degrees Celsius) and maintain humidity resistance.

- Designed for high-temperature conditions (50 degrees Celsius) and high-humidity environments.

- Equipped with digital wave control for easy operation and maintenance.

- Inherited the features of easy operation, high reliability, light weight, and easy maintenance.

- Equipped with a remote controller for convenient operation.

The welding voltage can automatically match the welding current. The fine-tuning of voltage can be realized as per individual operational habits.

- Equipped with a concentrate arc and a diffused arc for different welding requirements.

- Suitable for various solid and flux-cored welding wires.

<table>
<thead>
<tr>
<th>Material</th>
<th>Gas</th>
<th>350RX1 Dia</th>
<th>400RX1 Dia</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD Solid</td>
<td>CO₂</td>
<td>0.9</td>
<td>0.8</td>
<td>○</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.0</td>
<td>1.0</td>
<td>○</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.2</td>
<td>1.2</td>
<td>○</td>
</tr>
<tr>
<td></td>
<td>MAG</td>
<td>0.9</td>
<td>0.8</td>
<td>○</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.0</td>
<td>1.0</td>
<td>○</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.2</td>
<td>1.2</td>
<td>○</td>
</tr>
<tr>
<td>MD flux-cored</td>
<td>CO₂</td>
<td>1.2</td>
<td>1.2</td>
<td>○</td>
</tr>
</tbody>
</table>

- Uniform and stable wire feed
- Input voltage and wire consumption

The wire feed system remains constant over a wide range of input voltage fluctuation.

The welding results on the condition of fluctuating input voltage

- The wire feeder of RX1 machine is interchangeable to that of KR2.

- The knob generally sets to the center position for the required welding sequence.

- Sequence: Main welding, Main welding-Crater (“Crater repeat” is available), Initial- Main welding-Crater (“Crater repeat” is available)

- Applicable shielding gas: CO₂ (100%), MAG (80% Argon and 20% CO₂)

- Applicable wire size (diameter): 0.8, 1.0, 1.2 mm

- Applicable wire material: Mild steel (MS), Flux cored mild steel (MS-FCW), Stainless steel, Flux cored stainless steel (SUS-FCW)

- Gas purge time: 1 second - 1 minute/continuous

- Pre-flow time: 0-0.1-5.0 s

- Post-flow time: 0-0.1-5.0 s

- Input power terminal: Terminal block (for 3-phase, M5 bolting)

- Output terminal: Copper terminal with M8 bolting

- Dimension: 545×380×570 mm

- Mass: 52 kg

- Specifications

- The wire feeder of RX1 machine is interchangeable to that of KR2.

- Well-considered protection functions
  - Lightning-proof
  - Phase failure protection
  - The protection against output short-circuit
  - Double overheating protection
  - Over-current and over-voltage protection for wire feeder