Motor-driven Multi-point Positioning System

NEW! MISUMI Motorized Single Axis Actuator RS Series

**Multi-point positioning by a single unit**
**Motorized Actuator + controller + cable is available from**
**50mm stroke & configurable pitch in a short lead time**

**Simple operation**

**$547.80~**

**Ship in 8 days**

**Small, Low Robot RS1/2/3 Series**
- Load Capacity: ~12kg (horizontal) ~4kg (vertical)
- Controller (incremental type)
- Stepping Motor (Position Detector: Resolver)
- Ball Screws
- High Durability Stainless Steel Sheet
- Slider
- Coupling
- Guide Rail

**Large-sized, Heavy Load Capacity Robot RSH1/2/3 Series**
- Load Capacity: ~80kg (horizontal) ~16kg (vertical)
- Controller (Absolute Type / Incremental Type)
- AC Servo Motor (position detector: resolver)
- Built-in Structure
- Slider
- Ball Screws
- Guide Rail

**Four features of RS Series**

1. **Resolver**
   - Resolver is highly reliable sensing devices used to detect motor shaft rotation angle position. Superior compared to general optical encoders.

2. **Simple Configuration**
   - Optimal maximum acceleration, to deserve the long life span of the actuator, is automatically calculated and selected. Users only have to set up the weight of materials to be conveyed, as initial settings. Through this function, optimal operation will be performed, preventing actuator breakdown due to incorrect setting.

3. **Circular Arc Groove Guide with four-row two point contact**
   - Rigid guide structure is achieved with 4 circular-arc grooves that enables balls to run smoothly under preload, even under large momentum load performance remains stable.

4. **Control system**
   - Unique vector system is adopted for RS1/2/3 series. This stepping motor has the same level of performance as that of AC servo motor. Load capacity remains the same for high and low speed range.

**NEW! MISUMI Motorized Single Axis Actuator RS Series**

**RS Series**

**SINGLE AXIS ROBOT**

**RS Series are manufactured by major Japanese manufactures**

**Simple operation**

**$547.80~**

**Ship in 8 days**

**Controller (incremental type)**
- Stepping Motor (Position Detector: Resolver)
- Ball Screws
- High Durability Stainless Steel Sheet
- Slider
- Coupling
- Guide Rail

**Resolver**
- Encoder with simple structure with no electronic components used inside. Being resistant to high/low temperature, shock, electric noise, dust and oil, it is widely used in automobiles, railcars and aircrafts.

**Circular Arc Groove Guide**
- With four-row two point contact

**Optimal maximum acceleration, to deserve the long life span of the actuator, is automatically calculated and selected. Users only have to set up the weight of materials to be conveyed, as initial settings. Through this function, optimal operation will be performed, preventing actuator breakdown due to incorrect setting.**
RS Series  Page P.5~P.42
Single Axis Robots: Simple to operate, Low Cost, Shortened lead time
Clean room type (Class 10) available

- **Features**
  - Driven actuator series is integrated structure of ball screw actuator and motor. Controller for motor is included in the set.
  - No need for robot language programming.
  - Executes positioning operation to registered target locations (transaction of I/O signals with upper controller).

- **Specification**
  - Item
  - Small Size: Light load capacity Robo RS1/2/3 Series
  - Large Size: Heavy load capacity Robo RSH1/2/3 Series
  - Load Capacity
    - Horizontal: ~12kg
    - Vertical: ~4kg
    - Horizontal: ~80kg
    - Vertical: ~16kg
  - Stroke
    - 50 ~ 800mm (50mm increment)
  - Max. Velocity
    - ~1000mm/sec
  - Repeat positioning accuracy
    - ±0.02mm

http://www.misumiusa.com/rs.aspx

Price $547.80~

LX Series  Page P.43~P.96
High Rigidity, High Precision and Compact Design
Compatible with a wide range of motors and available to ship just in 6 days

- **Features**
  - Profiled, low temperature chrome plated steel with preload provides high rigidity.
  - Precision ground ball screws offers quiet and high precision performance
  - Repeat positioning accuracy of ±5μ (3μ for precision class)
  - High lead type and low dust raise grease models available
  - Precision warranty is enclosed with precision class products.

- **Specification**
  - Type
  - Load (mm)
  - Thread Diameter
  - Max. Effective Stroke (mm)
    - LX20
    - 1/5
    - ø6
    - 136
    - LX26
    - 3/5
    - ø8
    - 217
    - LX30
    - 5/10
    - ø10
    - 328
    - LX45
    - 10/20
    - ø15
    - 497

http://www.misumiusa.com/lx.aspx

Price $463.20~

KU Series  Page P.97~P.106 • P.111~P.114
Best for conveying heavy objects.
Compatible with manually operated and simply electrically operated jigs

- **Features**
  - In-house manufactured unit is now offered as standard catalog product.
  - Aluminum extruded base and slide guide provide rigidity under heavy load.
  - Can handle large-sized work piece with table width of 150 and 200mm
  - Rolled or ground (precision) ball screw type selection available for single axis units.
  - In addition to the manually operated units composed of trapezoidal screws, AC motor driven electrically operated units are added to the lineup.

- **Specification**
  - Type
  - Load (mm)
  - Cylinder Dia. (mm)
  - Cylinder Stroke (mm)
  - Reference Thrust (kN)
    - 0.4MPa
    - 0.5MPa
    - Pull
    - Push
    - Pull
    - Push
    - Horizontal
      - a25
      - 100~300
      - 0.17
      - 0.2
      - 0.21
      - 0.25
    - Horizontal
      - a32
      - 150~350
      - 0.28
      - 0.32
      - 0.35
      - 0.4
    - Vertical
      - a25
      - 25~50
      - 0.15
      - 0.2
      - 0.19
      - 0.25
      - a32
      - 25~50
      - 0.24
      - 0.32
      - 0.3
      - 0.4

http://www.misumiusa.com/ku.aspx

Price $514.80~

MA Series  Page P.107~P.110
Integrating structure with air cylinder as drive for horizontal/vertical motion.
Pre-assembled MISUMI products enables you to reduce time and cost for design.

- **Features**
  - Integrating structure with air cylinder as drive for horizontal/vertical motion.
  - Pre-assembled MISUMI products enables you to reduce time and cost for design.
  - Available with/without Cylinder.

- **Specification**
  - Type
  - Type
  - Cylinder Dia. (mm)
  - Cylinder Stroke (mm)
  - Reference Thrust (kN)
    - 0.4MPa
    - 0.5MPa
    - Pull
    - Push
    - Pull
    - Push
    - Horizontal
      - a25
      - 100~300
      - 0.17
      - 0.2
      - 0.21
      - 0.25
    - Horizontal
      - a32
      - 150~350
      - 0.28
      - 0.32
      - 0.35
      - 0.4
    - Vertical
      - a25
      - 25~50
      - 0.15
      - 0.2
      - 0.19
      - 0.25
      - a32
      - 25~50
      - 0.24
      - 0.32
      - 0.3
      - 0.4

http://www.misumiusa.com/ku.aspx

Price $380.60~
Motor-driven Multi-point Positioning System
Misumi Single Axis Robot RS Series

**Operation Patterns**
Operation pattern can be configured in accordance with applications. It is possible to conduct different patterns alternately.

<table>
<thead>
<tr>
<th>Positioning Operation</th>
<th>Positioning</th>
<th>Parts Assembly</th>
<th>Displacement and positioning</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pick &amp; Place</td>
<td>Displacement and positioning of parts (feeder/palette)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pitch Feed</th>
<th>Parts Inspection</th>
<th>Pitch feed of inspection camera / palette</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stacker</td>
<td>Pitch feed of stacking rack</td>
</tr>
</tbody>
</table>

**Push Operation**

<table>
<thead>
<tr>
<th>Press-Fit</th>
<th>Alignment / Testing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control of force needed to insert pins to workpiece</td>
<td>Displacement to the specified position and push alignment</td>
</tr>
</tbody>
</table>

**Clean Specification**
Clean Room Class 10 achieved thru sealed structure & high durability stainless steel sheet cover
Best suited for conveyance and positioning system for semiconductors, FPD, electric components etc.

**RS1/2/3 Clean room Type**
- High durability stainless steel sheet
- Vacuum Suction Joint
- Sealed structure w/ cover made of aluminum

**RSH1/2/3 Clean room Type**
- High durability stainless steel sheet
- Vacuum Suction Joint
- Sealed structure w/ cover made of aluminum

**Operation Method**
Easy operation by specifying position data (P:7) and start command
Executes positioning operation to registered locations (transactions of I/O signals with upper controller).

**Clean Room Class 10**
*Clean room class is per 1cf for 0.1µm base when suction blower is used.*

Convenient selection software and instruction manuals are available for download from the following URL:
http://www.misumiusa.com/rs.aspx
Controller Functions

System Configuration

Surge absorber
- 5% Input voltage differs by model.

Noise Filter
- Noise filter must be installed for RSH1/2/3(C) Series. Installed when "w/ brake" is specified in Specification Model RP3.38

Emergency stop circuit
- Emergency stop circuits necessary to interrupt main power by emergency stop command installation to upper controller. Example of Circuit P.37

Handy Terminal (Optional)

Upper Controller (PLC etc.)
- Arranged by customer

Robot Body
- Misumi’s controller for single axis robots can store up to 255 locations.

Data Structures
- The data consists of “position data (RUN type/ point position/ velocity etc.)” and “parameter (load I/O contents etc.)”. Items in the table below can be specified.

Data Input Examples

<table>
<thead>
<tr>
<th>Point No.</th>
<th>RUN type</th>
<th>Position</th>
<th>Speed</th>
<th>Acceleration</th>
<th>Deceleration</th>
<th>Push Movement</th>
<th>Zone -</th>
<th>Zone +</th>
<th>Vicinity</th>
<th>Output Range</th>
<th>Branch Flag</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>INC</td>
<td>50.00</td>
<td>80</td>
<td>40</td>
<td>100</td>
<td>0.00</td>
<td>0.00</td>
<td>1.00</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>P2</td>
<td>ABS</td>
<td>100.00</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>0.00</td>
<td>0.00</td>
<td>1.00</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

---

Operation Example of entering data and input/output of upper controller.

Example of entering data:
- Numerical operating data can be set up using Handy Terminal.

Example of input/output:
--speed and acceleration can be entered by PX Units.

Data Input Examples

<table>
<thead>
<tr>
<th>Port</th>
<th>RUN type</th>
<th>Position</th>
<th>Speed</th>
<th>Acceleration</th>
<th>Deceleration</th>
<th>Push Movement</th>
<th>Zone -</th>
<th>Zone +</th>
<th>Vicinity</th>
<th>Output Range</th>
<th>Branch Flag</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>ABS</td>
<td>0.00</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>0.00</td>
<td>0.00</td>
<td>1.00</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>P2</td>
<td>INC</td>
<td>50.00</td>
<td>80</td>
<td>40</td>
<td>100</td>
<td>0.00</td>
<td>0.00</td>
<td>1.00</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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Parameter
- Operation Parameter: operation-related parameters such as return to origin.
- I/O Parameter: Selection of terminal assignment and input/output function.
- Option Parameter: Option-related parameters such as CC-LINK.
- Control Parameter: parameter which is inherent in connecting actuator. (Can be set on initialization.)

How to enter data

Support Software / Cable
- Selectable from 3 options according to the specification of upper controller.
- Refer to P.37

Support Software
- Convenient selection software and instruction manuals are available for download from the following URL: http://www.misumiusa.com/rs.aspx

Handy Terminal
- Easy-operable design.

I/O Cable
- Flat cable for use when parallel I/O and upper controller are connected. Cable length 2m, one end of cable that connects to upper units is without connector.

Specifications: RP3.37

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Convenient selection software and instruction manuals are available for download from the following URL:
http://www.misumiusa.com/rs.aspx
Selection Example of Models for Positioning Operation

(1) (2) Select a model with 500mm stroke and a maximum load capacity (horizontal) of around 10kg from “Specifications List” on the left page.

- Select 10kg for load capacity.
- The graph indicates positioning time is less than 1 second.
- The table indicates positioning time is 0.83 seconds.
- Note: Values in the graph and table are calculated and may vary depending on operating conditions.

Find required positioning time for RS2 Lead 6 and RS3 Lead 6 by the same procedure.

Selection Example
- RS2 Lead 6: 1.76sec
- RS3 Lead 6: 1.88sec
- RSH1 Lead 20: 0.83sec

(3) From “Cycle Time Diagram” on P.39-42, select a model that has required positioning time less than 0.9 seconds.

Ex: Find required positioning time for RSH1 Lead 20.

- Check if the allowable static overhang dimension is 90mm to A direction as in the picture. (Standard Environment)
- The graph indicates positioning time is less than 1 second.
- The table indicates positioning time is 0.83 seconds.
- Note: Values in the graph and table are calculated and may vary depending on operating conditions.

Find required positioning time for RS2 Lead 6 and RS3 Lead 6 by the same procedure.

Selection Example
- RS2 Lead 6: 1.76sec
- RS3 Lead 6: 1.88sec
- RSH1 Lead 20: 0.83sec

(4) Select a model that can accommodate expected overhang.

Ex: RSH1 Lead 20

- Check the direction:
- The table indicates the overhang is 100mm.
- Note: Values are calculated and may vary depending on operating conditions.

Selection Example
- RSH1 Lead 20: 100mm

Selection Example of Models for Push Operation

Confirm Maximum Push Force and allowable static moment.

(1) Check maximum Push force

- Select a model that can provide the required push force.

(2) Check Allowable Static Moment

- Check if the allowable static moment is larger than the moment generated by the push force.

Notes on CE Marking

MISUMI actuator robot series are in conformity with EC Directive. Therefore, if you incorporate a motorized actuator, please make sure that final assembly unit is in conformity with EC Directive. See the instruction manual for details.
### Basic Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Controller</th>
<th>I/O Module</th>
<th>Cable Length (m)</th>
<th>Stroke (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS1</td>
<td>RS1</td>
<td>1</td>
<td>3</td>
<td>400</td>
</tr>
</tbody>
</table>

#### Terminology

- **Type**: Stroke (mm) 50 100 150 200 250 300 350 400
- **Max. Lead Capacity**: Horizontal: Vertical:
  - RS1: 30 g 1.5 mm
  - RS2: 30 g 1.5 mm
- **Maximum Precision (mm)**:
  - RS1: 174±1 (w/ brake) (Note 1)
  - RS2: 129±1 (Note 1)

#### Ball Screw Details

- **Type**: RS1
- **Lead**: 100 mm (Cable Length)

#### Controller Details

- **Type**: RS1
- **Approx. 200 (Cable Length)**

#### Motor Details

- **Type**: RS1
- **Lead Mass**: A: 1kg, B: 2kg, C: 3kg

#### Software

- **Software**
  - Handy Terminal with optional software
  - w/ USB Cable
  - Support Software w/ USB Cable

#### Notes

- **Controller Price**:
  - RS1: $148.50
  - RS2: $268.40

- **Cable Price**:
  - RS1: $60.50
  - RS2: $82.90

- **Small Order Charge**:
  - RS1: + $50.00
  - RS2: + $148.50

- **Cable Length**:
  - RS1: 50 100 150 200 250 300 350 400

- **Precautions**:
  - Please make sure to build an external power interruption circuit and form an emergency stop circuit. Example of Circuit P.73

### Permissible Overhang

- **Horizontal Use**
  - Allowable static moment
  - Wallmount Use
  - Vertical Use
  - Moment Diagram

### Dimensions - Weight

<table>
<thead>
<tr>
<th>Type</th>
<th>Stroke (mm)</th>
<th>50</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>300</th>
<th>350</th>
<th>400</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS1</td>
<td>A</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
</tr>
</tbody>
</table>

### Accessories

- **Instruction Manual (Cable-set)**
- **Robot Body / Controller / Cable**
- **Controller / Dummy Connector / CC-Link**

### Software

- **Software**
  - Handy Terminal with optional software
  - w/ USB Cable
  - Support Software w/ USB Cable

### Notes

- **CE Compliant**
- **Food Industry**
- **MISUMI USA**
**Single Axis Robots RS2 -Straight Type-**

**Robot Body**

- **Weight**: 0.2 kg more than standard type.

**Controller Specification**

- RS2  -Cable Length (mm)  250 300 350 400 450 500 550 600 650 700 750 800
- **Controller**: Approx. 200 (Cable Length)

**Cables**

- **Part Number**: RS206B - C1 - N - 3 - 400
- **Cable Price**: $268.40
- **Cable Length**: 400 mm
- **Connection**: 12 pin (Note 1)

**Controller Price**

- **Part Number**: RS206B - C1 - N - 3 - 400 - G - E
- **Controller Price**: $148.00
- **Cable Price**: $268.40
- **Cable Length**: 400 mm
- **Connection**: 12 pin (Note 1)

**Part Number with Break**

- **Selection**: RS2
- **Type Lead (mm)**: 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
- **Controller Type**: C1
- **Controller Module**: 1
- **Cable Length (m)**: 50
- **Stroke (mm)**: 0

**Notes on CE Marking**

- **KE**: EN3607

**Specifications**

- **Type Lead (mm)**: 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
- **Controller Type**: C1
- **Controller Module**: 1
- **Cable Length (m)**: 50
- **Stroke (mm)**: 0

**Price**

- **Standard Unit Price**: $565.40
- **Controller Price**: $148.00
- **Cable Price**: $268.40
- **Cable Length**: 400 mm
- **Connection**: 12 pin (Note 1)

**Controller Specification**

- **Part Number**: RS206B - C1 - N - 3 - 400
- **Controller Price**: $148.00
- **Cable Price**: $268.40
- **Cable Length**: 400 mm
- **Connection**: 12 pin (Note 1)

**Altering**

- **Grease Type Alteration**: $50.00
- **Cable Length**: 400 mm
- **Connection**: 12 pin (Note 1)

**Altering**

- **Grease Type Alteration**: $50.00
- **Cable Length**: 400 mm
- **Connection**: 12 pin (Note 1)

**CE Compliant**

- **Price**: $824.40

**CAUTION**

- Power interruption circuit is not installed in this controller.

**End User**

- **Controller**: RS2
- **Cable Length**: 400 mm
- **Connection**: 12 pin (Note 1)

**Allowable Static Moment**

- **Allowable Offset of the Gravity Center of Work Load from Center of the Slider**
  - **Horizontal Use**: 1000 mm or more
  - **Vertical Use**: 1000 mm or more

**Dimensions & Weight**

- **Type Stroke (mm)**: 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
- **Controller**: 100
- **Max. Stroke (mm)**: 300 350 400 450 500 550 600 650 700 750 800
- **Weight (kg)**: 0.2

**Support Software**

- **Software**: w/ USB
- **Including Support**: w/ USB
- **Cable Length**: 400 mm
- **Connection**: 12 pin (Note 1)

**Support Software**

- **Software**: w/ USB
- **Including Support**: w/ USB
- **Cable Length**: 400 mm
- **Connection**: 12 pin (Note 1)

**Allowable Static Moment**

- **Allowable Offset of the Gravity Center of Work Load from Center of the Slider**
  - **Horizontal Use**: 1000 mm or more
  - **Vertical Use**: 1000 mm or more

**Moment Diagram**

- **Diagram**: A - B - C
- **Diagram**: A - B - C
- **Diagram**: A - B - C

**Contact**

- **Phone**: 123-456-7890
- **Fax**: 098-765-4321
- **Email**: info@robot.com

**Altering**

- **Grease Type Alteration**: $50.00
- **Cable Length**: 400 mm
- **Connection**: 12 pin (Note 1)

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- **Diagram**: A - B - C
- **Diagram**: A - B - C
- **Diagram**: A - B - C

**Contact**

- **Phone**: 123-456-7890
- **Fax**: 098-765-4321
- **Email**: info@robot.com
Single Axis Robots RS3 -Straight Type-
Single Axis Robots RSH1 -Straight Type-
**Single Axis Robots RSH2 -Straight Type-**

### Basic Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Load (kg)</th>
<th>Stroke (mm)</th>
<th>Lead 5/10/20</th>
<th>Accuracy (mm)</th>
<th>Speed (m/min)</th>
<th>Continuous Life (h)</th>
<th>Controller Power</th>
<th>Auxiliary Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSH2</td>
<td>20</td>
<td>1000±20</td>
<td>50</td>
<td>±0.01</td>
<td>190-1050 km or More</td>
<td>255 pcs</td>
<td>110V AC/110-1050V</td>
<td>Robot Body/Controller/Cable/Battery/Noise Filter</td>
</tr>
</tbody>
</table>

(key) Approx. 240 (Cable Lengths)

### Motor Specifications

<table>
<thead>
<tr>
<th>Motor</th>
<th>Voltage</th>
<th>Current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSH2</td>
<td>110V AC</td>
<td>5.5</td>
</tr>
</tbody>
</table>

### General Specifications

- **Ball Screws:** Motor Position (C7 Rolled) and Shaft may be changed separately.
- **Mounting Bolts:** Use the existing structure of mounting bolts. Do not use the stopper.
- **Power Supply:** Select Type A (0.035") or B (0.022"").

### Notes on CE Marking: RSH2

- CE Compliant

---

**Part Number Selection**

<table>
<thead>
<tr>
<th>Type</th>
<th>Load (kg)</th>
<th>Brake</th>
<th>Controller</th>
<th>I/O Module</th>
<th>Noise Filter</th>
<th>Cable</th>
<th>Stroke (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSH2</td>
<td>20</td>
<td>1000±20</td>
<td>C22A</td>
<td>N</td>
<td>F1</td>
<td>3-400</td>
<td></td>
</tr>
</tbody>
</table>

---

**Price**

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard Unit Price Qty. 1 ~ 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSH2</td>
<td>Total Price: $1,782.20 + $575.30 + $36.30 = $2,186.80</td>
</tr>
</tbody>
</table>

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**Alleviation**

- **G-E:**
  - **G:**
    - **E:**
  - **M:**
  - **R:**
    - **R:**
  - **F:**
  - **D:**

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**Notes**

- **Notes on CE Marking: RSH2**
  - CE Compliant

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**Terms of Use**

- ** MJ:** Japanese
- ** ME:** English

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**Convenient selection software and instruction manuals are available for download from the following URL:**

http://www.minumausa.com/pte.aspx

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**Contact us for option purchase.**