To ensure your safe and proper usage, please observe all the manuals before using these machines.

*To improve our products, please note that their outer appearances and/or designs are subject to change without notice.
Yuasa telescopic mast systems ensure accuracy and speed when it matters most, including emergency situations, emergency response, and risk management.

Yuasa telescopic mast systems are used in a wide variety of areas of high importance for the public, including broadcasting, communications, and transportation, as well as fire and police departments. From disasters, accidents and other emergency situations to risk management for disaster and crime prevention, Yuasa telescopic mast systems ensure your equipment is positioned rapidly and accurately at an elevated location.

Highly durable

High tensile strength aluminum alloy is used to achieve high durability.

Telescopic masts must endure harsh outdoor environments, including blizzard conditions and scorching heat while having the strength to lift heavy equipment. In addition to using a hard anodized aluminum alloy with a high tensile strength, our masts boast significant strength in a slim outer diameter. This enables masts to be installed on vehicles and in other situations with limited installation space.

Lightweight

High tensile strength aluminum alloy is used to achieve high durability.

Telescopic masts must endure harsh outdoor environments, including blizzard conditions and scorching heat while having the strength to lift heavy equipment. In addition to using a hard anodized aluminum alloy with a high tensile strength, our masts boast significant strength in a slim outer diameter. This enables masts to be installed on vehicles and in other situations with limited installation space.

Inner rod system for reduced weight

While telescopic masts must be strong, they also require physical properties that make them light enough to mount on vehicles. The first to achieve this was the Yuasa inner rod system. For the hydraulic cylinder that drives the mast action, we use a narrow inner rod inside the mast. This enables a lightweight system that is able to operate the mast with a low amount of hydraulic fluid.

Achieves position control that is accurate to within a few centimeters. Accurately lifts the mast to the desired position.

The hydraulic system enables smooth, quiet operation. Ensure stable lifting and lowering even with heavy objects.

Features one-touch, simple lift control. Maintenance is also simple.

Our telescopic masts have a slim exterior circumference and our hydraulic power units are compact in size.
General-purpose Telescopic Mast System 5 m and below

Highly durable with accurate position control. A quiet, compact system and structure.

YT2103K / YT2204K / YT2304J / YT2305J / YT2305E

Ideal for camera photography and other applications requiring precision still positioning. The highly durable mast achieves superior vibration and wind resistance, and the hydraulic system enables accurate position control.

The hydraulic power unit is separate from the mast, achieving a space-saving design that provides a high degree of freedom when choosing an installation location.

Highly flexible installation is possible even in tight spaces. The entire system, including the mast, is lightweight, compact, and can be installed in tight spaces.

Highly durable with accurate position control. A quiet, compact system that requires little space.

Ideal for camera photography and other applications requiring precision still positioning. The extremely quiet design also makes the mast ideal for use at night and indoors.

Highly flexible installation is possible even in tight spaces. The hydraulic power unit is separate from the mast, allowing a space-saving design that provides a high degree of freedom when choosing an installation location.

System configuration

Usage example

YT2103K
YT2204K
YT2304J
YT2305J
YT2305E

Model naming convention

YT□□□□□

(1) For broadcast vans: general-purpose ID No.
(2) Stage No. indication
(3) Extension height indication
(4) Base pipe symbol
(5) Mast mounting ring

General-purpose telescopic mast (5 m and below) specifications (See figure to the right)

<table>
<thead>
<tr>
<th>Model</th>
<th>Stage 0</th>
<th>Stage 1</th>
<th>Stage 2</th>
<th>Stage 3</th>
<th>Stage 4</th>
<th>Stage 5</th>
<th>Stage 6</th>
<th>Stage 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>YT2103K</td>
<td>2,906</td>
<td>1,816</td>
<td>1,247</td>
<td>934</td>
<td>816</td>
<td>404</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>YT2204K</td>
<td>3,090</td>
<td>1,960</td>
<td>1,371</td>
<td>1,052</td>
<td>892</td>
<td>480</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>YT2304J</td>
<td>3,271</td>
<td>2,026</td>
<td>1,466</td>
<td>1,136</td>
<td>920</td>
<td>527</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>YT2305J</td>
<td>3,452</td>
<td>2,091</td>
<td>1,567</td>
<td>1,217</td>
<td>958</td>
<td>565</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>YT2305E</td>
<td>3,632</td>
<td>2,155</td>
<td>1,656</td>
<td>1,312</td>
<td>990</td>
<td>603</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

General-purpose telescopic mast (5 m and below) specifications (See figure to the right)

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Mast top outer</th>
<th>Mast bottom outer</th>
<th>Mast unit load weight (kg)</th>
<th>Wind-receiving surface (m²)</th>
<th>Survival wind speed (m/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>YT2103K</td>
<td>φ65</td>
<td>φ76</td>
<td>0.55</td>
<td>22</td>
<td>19</td>
</tr>
<tr>
<td>YT2204K</td>
<td>φ65</td>
<td>φ76</td>
<td>0.55</td>
<td>23</td>
<td>20</td>
</tr>
<tr>
<td>YT2304J</td>
<td>φ65</td>
<td>φ76</td>
<td>0.55</td>
<td>22</td>
<td>19</td>
</tr>
<tr>
<td>YT2305J</td>
<td>φ86.4</td>
<td>φ97</td>
<td>0.55</td>
<td>23</td>
<td>20</td>
</tr>
<tr>
<td>YT2305E</td>
<td>φ86.4</td>
<td>φ97</td>
<td>0.55</td>
<td>23</td>
<td>20</td>
</tr>
</tbody>
</table>

Usage example

- Mobile crime prevention camera vehicles (Metropolitan Police Department) - Using YT2305E
- Camera mounting (expressway management companies) - Using YT2305E

We offer a wide variety of installation fixtures, connectors, and amounts based on your intended usage conditions. Feel free to consult with us regarding your specific needs.

*Specifications and performance are subject to change without notice. *Indicates mast weight when dry. *Wind-receiving surface: Surface area of the object mounted on top of the mast that is affected by wind. *Survival wind speed: Do not use during wind speeds (m/s) above those indicated in the table.

*Optional configurations not listed here, such as the addition of a remote control, are also available. Choose from 12 V DC, 24 V DC, or 200-230 V AC for the power supply. *Pneumatic system also available for telescopic mast. Contact us for details.

We offer a wide variety of installation fixtures, connectors, and amounts based on your intended usage conditions. Feel free to consult with us regarding your specific needs.
The mast that is affected by wind. *Survival wind speed: Do not use during wind speeds (m/s) above those indicated in the table.

General-purpose telescopic mast (5 m and above) specifications (See figure to the right)

- Model naming convention
  - YT2508E / YT2609E / YT2610F / YT2710E / YT2710D / YT2712E / YT2712D

- System configuration diagram images may differ from actual product. *Optional configurations such as the addition of a power switch are available for the remote controller.* Optimal configurations not listed here, such as the addition of a remote control valve relay, are also available. *Choose from 12 V DC, 24 V DC, or 200-220 V AC for the power supply. *Pneumatic system also available for telescopic mast. Contact us for details.

- Usage example
  - Emergency base station vehicles (communications company) - Using YT2712D
  - Small base station vehicles (communications company) - Using YT2710F
  - Lightning arresters (industrial plant) - Using YT2710E
  - Weather camera (Okayama Korakuen) - Using YT2712E

- We offer a wide variety of installation fixtures, connectors, and amounts based on your intended usage conditions. Feel free to consult with us regarding your specific needs.
Radio Wave Measurement Telescopic Mast System

A maximum height of 9.2 m (10 m when mounted on vehicle) with a product weight of only 35 kg.

**Y3509H**

Enables stable operation of radio wave measurement equipment and accurate position control. The highly durable mast is strengthened against wind and enables the stable operation of radio wave measurement equipment. A remote controller for lifting and lowering the mast features a digital height display that is accurate to the tolerance within 10 cm for accurate position control.

The quiet design also makes the mast usable even at night. Mast extension and contraction are controlled via a hydraulic power unit, achieving quiet operation that makes the mast usable even at night. When still, the mast is silent and requires no electricity, which means energy savings.

A narrow outer diameter and inner rod design enables a lightweight, space-saving system. A narrow outer diameter achieved by a highly durable structure and an inner rod system (see p. 02) to reduce hydraulic fluid volume to a minimum. Not only do we achieve a lightweight mast, we achieve overall system weight reductions and space saving.

A maximum height of 9.2 m (10 m when mounted on vehicle) with a product weight of only 35 kg.

**Radio wave measurement telescopic mast specifications (See figure to the right)**

<table>
<thead>
<tr>
<th>Model</th>
<th>L (Extension length)</th>
<th>L (Contraction length)</th>
<th>D (Top outer diameter)</th>
<th>D (Bottom outer diameter)</th>
<th>Max. Load Weight</th>
<th>Mast Unit Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y3509H</td>
<td>9,217</td>
<td>1,975</td>
<td>1,637</td>
<td>1,144</td>
<td>3515</td>
<td>0.30</td>
</tr>
</tbody>
</table>

**Operating concept**

**System configuration**

1. **Standard configuration**
   - **Hydraulic type**
   - **Electric type**

2. **Jack standard configuration**
   - **Three-stroke valve**
   - **Space-saving unit for radio wave measurement**
   - **Radio wave measurement telescopic mast**

**Usage example**

**System configuration diagram images may differ from actual product.**

*Specifications and performance are subject to change without notice.
*Indicates mast weight when dry.
*Wind-receiving surface: Surface area of the object mounted on top of the mast that is affected by wind.
*Survival wind speed: Do not use during wind speeds (m/s) above those indicated in the table.

We offer a wide variety of installation fixtures, connectors, and mounts based on your intended usage conditions. Feel free to consult with us regarding your specific needs.

*Optional configurations such as the addition of a power switch are available for the remote controller.
*Optional configurations not listed here, such as the addition of a remote control cable relay, are also available. Choose from 12 V DC, 24 V DC, or 200-230 V AC for the power supply.
Vehicle stabilization jack system

Simple and safe. You can select the optimal jack system for each vehicle.


Simple operations allow you to stabilize the vehicle. A small remote controller enables simple operation to prevent shaking and rocking for greater stabilization while working in the vehicle.

You can select the optimal jack for each vehicle. We offer a diverse lineup to match the type of vehicle, from compact to large-sized and even two-stage systems optimal for vans.

Full safety features such as hydraulic drift detection. Features a mechanism for detecting hydraulic drift during vehicle operation to ensure safe use of the jack system.

**System configuration**

- Hydraulic pipe
- Electric cable

**Usage example**

- Satellite communications vehicle - Using SJ4
- Disaster response vehicle - Using MJ4
- Broadcast van - Using DJ2

**Model naming convention**

- **J** indicates two-stage, **S** indicates small-sized, **M** indicates medium-sized, and **L** indicates large-sized.

**Vehicle stabilization jack system specifications**

<table>
<thead>
<tr>
<th>System</th>
<th>Model</th>
<th>Rated thrust</th>
<th>Pressure test pressure</th>
<th>Normal use pressure</th>
<th>Operating power</th>
<th>Mass</th>
<th>Stroke</th>
<th>Bore diameter x rod diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two-stage</td>
<td>DJ2/4</td>
<td>9.6 KN</td>
<td>13.7 MPa</td>
<td>6.4 MPa</td>
<td>12 V DC / 24 V DC</td>
<td>200 st</td>
<td>200 st</td>
<td>φ65 × φ45 − φ55 × φ28</td>
</tr>
<tr>
<td>Small-sized</td>
<td>SJ2/4</td>
<td>8.6 KN</td>
<td>15.7 MPa</td>
<td>6.9 MPa</td>
<td>12 V DC / 24 V DC</td>
<td>250 st</td>
<td>250 st</td>
<td>φ40 × φ30</td>
</tr>
<tr>
<td>Medium-sized</td>
<td>MJ2/4</td>
<td>11.1 KN</td>
<td>20.3 MPa</td>
<td>11.7 MPa</td>
<td>12 V DC / 24 V DC</td>
<td>300 st</td>
<td>300 st</td>
<td>φ60 × φ40</td>
</tr>
<tr>
<td>Large-sized</td>
<td>LJ2/4</td>
<td>28.2 KN</td>
<td>31.3 MPa</td>
<td>29.8 MPa</td>
<td>12 V DC / 24 V DC</td>
<td>400 st</td>
<td>400 st</td>
<td>φ75 × φ60</td>
</tr>
</tbody>
</table>

**Jack mounting examples**

- Using LJ2

*Optional configurations not listed here, such as the addition of a remote control cable relay, are also available. Choose from 12 V DC, 24 V DC, or 200-230 V AC for the power supply.*
To ensure your safe and proper usage, please observe all the manuals before using these machines.

*To improve our products, please note that their outer appearances and/or designs are subject to change without notice.

Durability and reliability when it matters most.