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. This 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.

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Min. height (m)</th>
<th>Min. height (mm)</th>
<th>Max. height (m)</th>
<th>Max. height (mm)</th>
<th>Max. height (mm)</th>
<th>Max. height (mm)</th>
<th>Max. height (mm)</th>
<th>Max. height (mm)</th>
<th>Max. height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y3509H</td>
<td>3.57</td>
<td>357</td>
<td>9.21</td>
<td>921</td>
<td>10</td>
<td>100</td>
<td>90</td>
<td>90</td>
<td>90</td>
</tr>
</tbody>
</table>

*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.

System configuration

1. Standard configuration
   - Hydraulic pipe
   - Electric cable

2. Jack standard configuration
   - Hydraulic pipe
   - Electric cable

Usage example

Type: Standard

- Mast remote controller
  - Remote controller for lifting and lowering the mast and to stop the mast at the desired position on digital display.

Type: Jack standard

- Mast remote controller
  - Remote controller for lifting and lowering the mast and to stop the mast at the desired position on digital display.

- Vehicle stabilization jack cylinder
  - A jack cylinder with a hydraulic motor that prevents vehicle movement to stabilize the vehicle. Size and stroke can be chosen based on the vehicle type.
  - Two types available: Two cylinders or four cylinders front and rear. (See p. 09 for details).

- Space-saving unit for radio wave measurement
  - All-in-one system that combines the mast, jack cylinder control board, and hydraulic power unit. Installation only requires connecting the mast to the hydraulic piping and electrical wiring.
  - The addition of a valve is required to use a jack cylinder.

- Three-stroke valve
  - A three-stroke valve for operating the vehicle stabilization jack cylinders. Five-stroke valve when using four cylinders.

- Jack remote controller
  - Remote controller for jack operation. In addition to ON/OFF control, the remote controller enables you to extend and contract left and right individually or extend and contract the entire unit.
  - When using four cylinders, you can switch between front and rear jacks.

*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.

Choose from 12 V DC, 24 V DC, or 200-230 V AC for the power supply.

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.