HFW-700P
700N High Force Spot Weld Head

The HFW-700P is a fully adjustable high force pneumatic welding head that incorporates a low mass adjustable welding module with a robust pneumatic actuation system and housing.

Welding force is readily adjusted between 100N and 700N via an ergonomic lockable adjustor, facilitating precise and repeatable resistance welding.

Two height adjusters provide an overall setup range of 100mm vertical adjustment with a 30mm actuation stroke.

The HFW-700PM welding module is also offered as an independent component for automation applications.

The welding module can optionally incorporate electronic force and displacement sensors.

KEY FEATURES

• Low mass, adjustable force welding module
• Narrow footprint with adjustable height
• Positional upper and lower mechanical stops
• Optional force sensor
• Optional displacement sensor

TYPICAL APPLICATIONS

- Large wire to substrate
- Welding automotive components
- Welding connections
- Welding wire to relay
HFW-700PM - 700N RESISTANCE WELDING HEAD MODULE

The HFW-700PM is a 700N high force, low mass resistance spot welding head module designed specifically for third party OEM system integration. The module is easily mounted to the preferred mechanical actuation system and can be supplied with options for force and displacement sensory feedback. The field proven design is both compact and robust and can be supplied with a number of electrode holder options and cooling methods. Overall actuation stroke extends to 30mm travel with fine force adjustment in the range 100N to 700N. The module provides a highly rigid and robust basis for repeatable spot welding. Internally, the light weight design minimises the overall moving mass in order to ensure exceptional weld follow up across the operating range. Heavy duty current connections, which can be customised to order, help ensure operational longevity.

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>HFW700P</th>
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<tbody>
<tr>
<td>Force Range</td>
<td>100 - 700N</td>
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<tr>
<td>Force Resolution</td>
<td>1N</td>
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<tr>
<td>Electrode Stroke</td>
<td>30mm</td>
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<tr>
<td>Actuation</td>
<td>Pneumatic</td>
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WEIGHT & DIMENSIONS

<table>
<thead>
<tr>
<th>Dimensions (H x W x D)</th>
<th>450mm x 125mm x 350mm</th>
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<tbody>
<tr>
<td>Weight</td>
<td>ca. 50 kg</td>
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