



TQ-Group HA470A-5B Robot JBC Soldering Unit Instructions

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TQ-Group HA470A-5B Robot JBC Soldering Unit



Product Information

The TQ Robot JBC Soldering unit is an adapter piece designed for mounting a soldering unit on the Franka Production 3 robot (Franka Emika GmbH). The material number for this adapter piece is 343649.0101.

Product Usage Instructions

Scope of Delivery

The package includes

- 1x Soldering unit
- JBC's screws and components are not included

Symbols

The following symbols are used:

- General warning sign
- Warning: Electricity
- General mandatory action sign
- Refer to instruction manual / booklet

Intended Use

The TQ Robot JBC Soldering unit is specifically designed to mount the JBC HA470A-5B soldering unit on the Franka Production 3 robot. Please note that this product is intended for use as part of a higher-level overall system. It should only be planned, assembled, and commissioned by authorized specialist personnel with the necessary knowledge of applicable regulations on occupational safety, accident prevention, and EMC regulations. Any use of this product outside its intended purpose is considered improper use and should be avoided.

Safety Instructions

Prior to handling the adapter piece, make sure to read and understand the content of this Product information. Always comply with the provided instructions and notes. Assembly and commissioning should only be performed by authorized specialist personnel with specific knowledge of how to use the product.

Assembly

Follow these steps for proper assembly:

1. Remove the packaging, avoiding the use of sharp or pointed objects.
2. Check that the delivery is complete and undamaged. Contact the manufacturer if any issues are found.
3. Tighten the screws with a tightening torque of 5 Nm using an Allen key. The required mounting material includes 3x Allen screws M6X20 A2 DIN912, 1x Allen screws M6X35 A2 DIN912, and 1x Grub screw DIN 913 M6x10.
4. Mount the soldering bracket on the JBC HA470A5B soldering unit and on the ISO flange of the Franka Production 3 robot (Franka Emika GmbH) as shown in the picture.
5. The assembly of the soldering unit is now completed.

Control and Maintenance

To ensure trouble-free and permanent function, perform the following checks:

- Clean the product only with a dry, lint-free cloth.
- Ensure secure fastening of all components.
- Retighten all connections after 100 hours of operation using the specified tightening torque. In case of damage or wear, the entire product must be replaced.

Disposal

Dispose of the disassembled components, packaging, and operating materials according to the applicable provisions. Whenever possible, recycle them. Cardboard packaging material should be disposed of separately.

Adapter piece for mounting a soldering unit on the Franka Production 3 robot (Franka Emika GmbH).

Material number:343649.0101



Follow these instructions for correct and safe operation

Scope of delivery

1x Soldering unit JBC's screws and components are not included

Symbols



General warning sign



Warning: Electricity



General mandatory action sign



Refer to instruction manual / booklet

Lists

. Numbering (The consecutive numbering defines the sequence of the instructions given.)



Reference

Intended use

The TQ Robot JBC Soldering unit is used for mounting the JBC HA470A-5B soldering unit on the Franka Production 3 robot (Franka Emika GmbH).

NOTE

The product is used as part of a higher-level overall system. Project planning, assembly, and commissioning exclusively by authorized specialist personnel with the following knowledge

- Knowledge of the applicable regulations on occupational safety and accident prevention
- Knowledge of applicable EMC regulation. All applications deviating from the intended use are regarded as improper use. These include, for example:
 - Do not use outdoors
 - Use outside the permissible technical operating limits
 - Do not use in potentially-explosive environments
 - Do not use in potentially-explosive environments
 - Do not ignore safety instructions
 - Operation after unauthorised conversions or modifications
 - Do not operate a faulty machine

Safety Instructions

NOTE

Prior to handling the adapter piece (assembly, use, control) , you must have read and understood the content of this Product information.

- Comply with instructions and notes

NOTE

Assembly and commissioning only by authorized specialist personnel who have special knowledge of how to use the product

Assembly

NOTE

Device damage due to incorrect installation/attachment and unsuitable environmental conditions.

Prerequisites

- Observe the manufacturer's documentation for the JBC soldering unit.
- The JBC soldering unit must not be live during assembly.

NOTE

Do not use any sharp or pointed objects to open the packaging.

1. Remove packaging
2. Check that the delivery is complete and undamaged, otherwise contact the manufacturer.



Impressum

NOTE

Tighten the screws with a tightening torque of 5 Nm.

Required tool

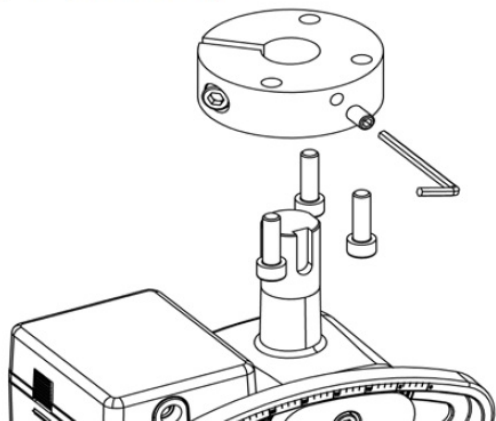
- Allen key

Required mounting material

- 3x Allen screws M6X20 A2 DIN912
- 1x Allen screws M6X35 A2 DIN912
- 1x Grub screw DIN 913 M6x10

Mount the soldering bracket on the JBC HA470A-5B soldering unit and on the ISO flange of the Franka Production 3 robot (Franka Emika GmbH)

( picture).



⇒ *Assembly of soldering unit completed*

Control and Maintenance

NOTE

In case of damage or wear, the entire product must be replaced. The following checks are required to ensure trouble-free and permanent function

- Clean only with a dry, lint-free cloth

- Secure fastening of all components
- Retighten all connections after 100 hours of operation with the specified tightening torque.
- damage

Disposal

Dispose of the disassembled components, packaging, operating materials, etc. in accordance with the applicable provisions and, to the extent possible, recycle them.

- Dispose of cardboard packaging material as waste paper in the local waste disposal system.
- Dispose of plastic films and packaging in accordance with the national laws and regulations.
- Collect all materials used for the adapter piece operation as per the manufacturer's product information and separate, dispose of, or recycle accordingly.
- Dispose of all waste properly and in accordance with the
 - Emissions Control Act,
 - Waste Disposal Act,
 - and the Water Resources Act.

Supplementary, higher-level, company-internal, or regional provisions may apply.

Warranty

If the above Conditions for the intended use are not met or if the safety instructions are not followed or if any maintenance work is not carried out as required, this leads to an exclusion of liability and the loss of the warranty

Parameter	Value
Material	3.3535 (EN-AW 5154A)
Mounting position	plan to Franka hand
Environmental temperature	+ 5 °C – + 45 °C
Air humidity	20% to 85% rel.
Dimensions	ø 63 x 20 mm
Weight	approx. 60 g

Imprint

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Documents / Resources

	<p>TQ-Group HA470A-5B Robot JBC Soldering Unit [pdf] Instructions HA470A-5B, HA470A-5B Robot JBC Soldering Unit, Robot JBC Soldering Unit, JBC Soldering Unit, Soldering Unit, Unit</p>
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References

-  [Group Publishing](#)
-  [Electronic products & electronic services | TQ](#)