GRIP Base Connector SHW

Assembly and Operating Manual



Dear customer,

Congratulations!

You have chosen the best product we know how to make with our 30 years of experience and passion for precision.

Please follow the instructions in this manual to avoid mistakes and save time.

In case you need further information or you have further requests we will be glad to be at your disposal.

With best regards,

Your GRIP GmbH

GRIP GmbH Handhabungstechnik Alter Hellweg 70 44379 Dortmund, Germany



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GRIP Base Connector SHW

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Assembly and Operating Manual



1 Operation

To open the Base Connector, pull the locking pin on the hand lever. As a result, the crossway bolt is displaced radially and releases the force-locked crimp connection in the bore of the lower assembly. The upper and lower assembly can now be pulled apart.

2 Safety

2.1 Symbol



This symbol indicates possible hazards to persons or the Base Connector SHW.

2.2 Intended purpose

The Base Connector SHW has been designed as an interface between robot and working table. Furthermore, the Base Connector can also be used in special solutions, automation and also as a general mechanical standard interface. The unit may only be used in the context of its technical specifications. The system is intended for the installation in a machine. The requirements of the applicable instructions must be considered and adhered to.

2.3 Environmental and operating conditions

Use this unit only in dry and splash-proof environments at room temperature as well as within the application parameters defined in the technical specifications. If this is not the case, warranty cannot be accepted. Exceptions are units designed especially for the respective conditions.

2.4 Safety indication

Dangers may arise from the unit, if:

- the product is not installed or inserted properly,
- the system is not used for its intended purpose,
- the safety and installation notes are not observed.

Everyone who is responsible for assembly, commissioning and maintenance must read and understand the complete operating instructions. Improper use, which affects the function und operational safety of the Base Connector, is prohibited.



CAUTION! Risk of pinching the fingers when closing the Base Connector

When closing the connector ensure fingers are not between the upper and lower assembly.



NOTICE!

The unit may only be operated if the machine in which the unit is installed complies with the relevant provisions of the machinery directive 2006-42-EC.

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3 Warranty

If the product is used as intended in 1-shift operation the warranty is valid for 24 months from the exworks delivery date under observance the mandatory maintenance and lubrication intervals and the given operating conditions. Generally parts touching the work piece and wear parts are not part of the warranty. Wear parts are listed in chapter 8.1. The unit is considered to be defective if its basic function "Lock" is no longer functioning.

4 Scope of Delivery

 Base Connector SHW as shown in Image 6 depending on the order number of the upper or lower assembly.

5 Technical Data

Behold technical data sheets: TD-BC-SHW-EN



6 Assembly

The upper assembly of the Base Connector is mounted to the base of the robot. The lower assembly is mounted to the working table. If the Base Connector SHW can not be installed directly, adapter flanges can be used. Use screws according to DIN 912 or ISO 4762. The screw-in depth of the screws must be observed. We recommend the use of a "medium-tight" screw lock.



CAUTION!

Perform assembly work only when the power supply is switched off!



CAUTION! Risk of pinching the fingers when closing the SHW

When closing the connector ensure fingers are not between the upper and lower assembly.

Image 1

Image 2

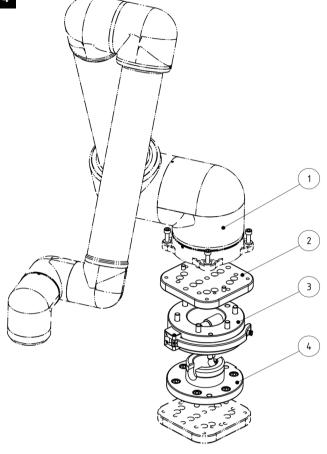
Image 3







Image 4



Pos.	Description
1	Robot
2	G-UF158-20
	Universal flange
	Aluminum 158x158x20
3	G-SHW160-2OE-BC
	SHW Connector
	Upper assembly
4	G-SHW160-2UE-BC
	SHW Connector
	Lower assembly



7 Maintenance and care

The Base Connector SHW is virtually maintenance-free. Check the semi-cylindrical bolt in regular intervals for correct function. Keep the mating surface and the moving parts clean and lubricate them slightly.

Spare parts and component parts of the Base Connector SHW can be found on our homepage: www.grip-gmbh.com

7.1 Disassembly of the SHW

(Behold Image 5)

- 1. Disassemble the Base Connector SHW.
- 2. Loosen the cylinder bolts for the holder (pos. 4).
- 3. Remove the assembly holder (pos. 4) with components (pos. 2, 3, 5, 6, 9 and 10), loosen the guide screws (pos 7 and 11).
- 4. To disassemble crossway bolt (pos. 2) from the other components (pos. 3, 5 and 6), remove cylinder pins (pos. 9 and 10).
- 5. Clean all parts thoroughly. Inspect for wear and defects.
- 6. Lubricate all fitting surfaces.

For assembly, reverse the order.

7.2 Torque specifications

M6 - 8,5 Nm; M8 - 20,6 Nm; M10 - 41 Nm; M12 - 71 Nm

8 Parts list

Description	Quantity
Upper assembly	1
Crossway bolt	1
Hand lever	1
Holder	1
Strap pin	1
Spring locking pin	1
Guiding screw	2
Index pin	1
Cylinder bolt BL	1
Cylinder bolt QB	1
Shim ring	2
Lower assembly	1
	Upper assembly Crossway bolt Hand lever Holder Strap pin Spring locking pin Guiding screw Index pin Cylinder bolt BL Cylinder bolt QB Shim ring

8.1 Spare and wear parts, depending on size

Pos.	Description	Order-No.
2	Crossway bolt	EG-SHWQB
3	Hand lever	EG-SHWHH



9 Exploded view

Image 5

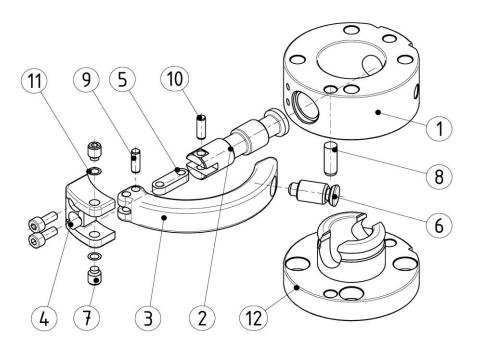


Image 6



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10 EC - Declaration of incorporation

according to the Machinery Directive 2006/42/EC, annex II B

The producer / distributor GRIP GmbH Handhabungstechnik

Alter Hellweg 70

D-44379 Dortmund, Germany

hereby declares that the following products

Product designation: Base Connector SHW

Functional description: Systems for the manual exchange of entire robotic arms

Type designation: Base Connector SHW160

The provisions of the above-mentioned directives -including their effective amendments- comply with the time of the declaration.

He further states that the following essential requirements of the Machinery Directive 2006/42/EC were applied and observed:

annex I, numerics: 1.1.2; 1.1.3; 1.1.5; 1.3.2; 1.7.4

He further states that the specific technical documentation has been drawn up in accordance with annex VII, Part B.

The following harmonized standard has been applied:

EN ISO 12100-1:2003 Safety of Machinery- Basic concepts, general

principles for design- Part 1:

Basic terminology and methodology (ISO 12100-1:2003)

EN ISO 12100-2:2003 Safety of Machinery- Basic concepts, general

principles for design- Part 2:

Technical principles (ISO 12100-2:2003)

In the case of reasoned requests, the specific documents shall be sent to the national authorities as follows: Post

The product mentioned above may only be put into operation if it has been established applicable that the unit, into which the above-mentioned product is to be incorporated, complies with the provisions of the Machinery Directive 2006/42 / EC.

Authorized representative: Dipl.-Ing. (FH) Hasan Canti

Location: Dortmund
Date: 15.09.2022

Hasan Com

Dipl.-Ing. (FH) Hasan Canti

Executive Director