



Hand in hand for tomorrow



Product data sheet

Jaw quick-change system BSWS-PGZN-plus

BSWS-PGZN-plus

Jaw quick-change system

Productive. Flexible. Cost-effective.

Jaw quick-change system BSWS

The jaw quick-change system BSWS allows top jaws to be exchanged on the gripper manually and rapidly. One adapter pin (BSWS-A) and a base (BSWS-B) are required for each gripper jaw. In case of reverse assembly and provided that no additional height is created, one adapter pin (BSWS-AR) and an assembly kit (BSWS-UR) per gripper jaw are required. Another effect of the BSWS-UR is that there are no more disturbing mounting holes in the finger contours.

Field of application

For handling of various components or frequent conversion of automated production lines in clean to dirty environments.

Advantages – Your benefits

Universal application possibilities By using the BSWS, just one single gripper is necessary for various applications

Manual jaw change via locking mechanics easy and fast for a high gripper flexibility

Saving time when converting applications Different workpieces can be handled by exchanging the gripper fingers

Alternative possibility of inserting the locking bolt into the base jaws The changeability and free choice of jaw design has no impact onto the inferring contours



Sizes
Quantity: 9



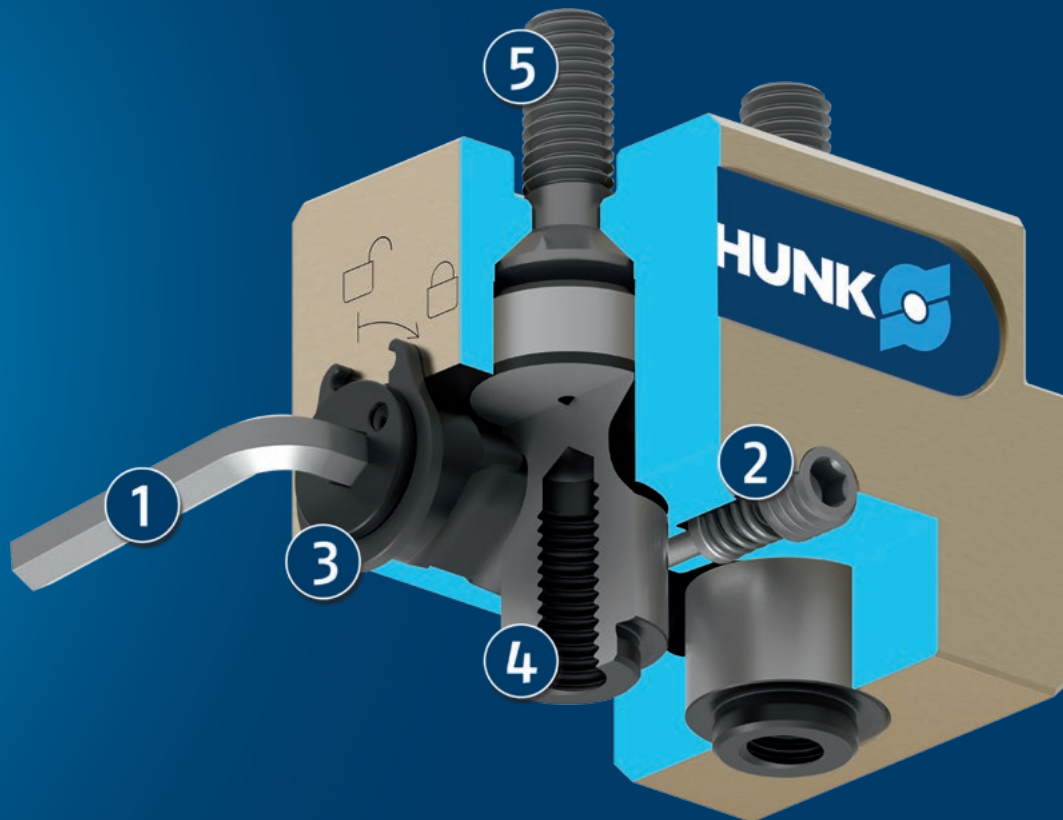
Weight
0.002 .. 5.15 kg

Functional description

One adapter pin (BSWS-A) and a base (BSWS-B) are required for each gripper jaw. In case of a reverse assembly and provided that no additional height is created, one adapter pin (BSWS-AR) and an assembly kit (BSWS-UR) are required per gripper jaw. The BSWS consists

of a base, which is firmly screwed to the gripper, and two adapter pins, which are fastened to the top jaws to be exchanged.

The form-fit locking mechanics ensures a fast exchange of the gripper fingers.



① Hexagon socket wrench

② Safety element

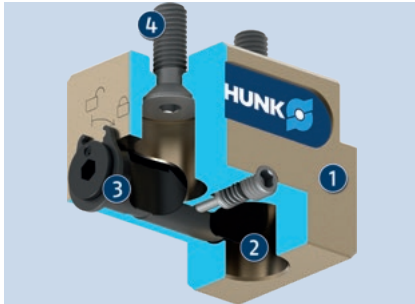
③ Locking pin

④ Adapter pin BSWS-A

⑤ Screw connection for mounting on the gripper

Detailed functional description

BSWS-B in unlocked state without adapter pins BSWS-A



The recesses of the locking bolt of the base unit BSWS-B enable the assembly/disassembly of the adapter pins BSWS-A in unlocked state.

- ❶ BSWS-B base
- ❷ Mounting bore for adapter pin BSWS-A
- ❸ Locking bolts with recesses
- ❹ Screw connection for mounting on the gripper

BSWS-B in unlocked state with BSWS-A adapter pins



Insert the BSWS-A adapter pins that are screwed onto the gripper fingers into the mounting bore of the base BSWS-B.

- ❶ BSWS-B base
- ❷ Adapter pin BSWS-A

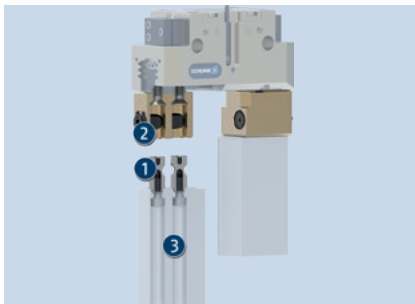
BSWS-B in locked state with BSWS-A adapter pins



An Allen key is required for locking the adapter pins BSWS-A in the base. By turning clockwise, a form fit locking between lock bolts and adapter pins is generated and it is held process-reliably in the base BSWS-B. The safety element prevents the locking bolt from twisting during operation.

- ❶ Hexagon socket wrench
- ❷ Safety element
- ❸ Locking pin

Jaw quick-change system BSWS-A/B



By combining BSWS-A and finger blank, a simple exchange of the gripper fingers is possible. The base BSWS-B with the locking mechanism remains on the gripper during the jaw change. Only the gripper fingers are replaced.

- ❶ BSWS-A
- ❷ BSWS-B
- ❸ Finger blanks ABR/SBR

Jaw quick-change system BSWS-AR with BSWS-ABR/SBR

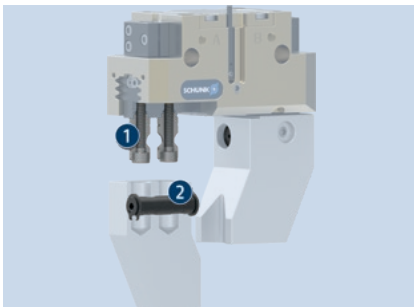


The BSWS-AR adapter pins are mounted in the gripper jaws and remain there during the finger change. The locking mechanism is integrated into the BSWS-ABR/SBR finger blanks. The clamping contour can be adapted for the specific workpiece over the entire finger length.

① BSWS-AR

② Finger blanks BSWS-ABR/SBR

Jaw quick-change system BSWS-AR with BSWS-UR



The BSWS-UR is designed for installation into workpiece-specific gripper fingers that cannot be produced by machining the BSWS-ABR or BSWS-SBR. The BSWS-UR contains the locking mechanism for installation into workpiece-specific gripper fingers.

① BSWS-AR

② BSWS-UR

General notes about the series

Adapter pin material: Steel

Actuation: Manually with hexagon socket wrench

Warranty: 24 months

Scope of delivery: Base and adapter separately in different quantities, safety information (product-specific instructions available online)

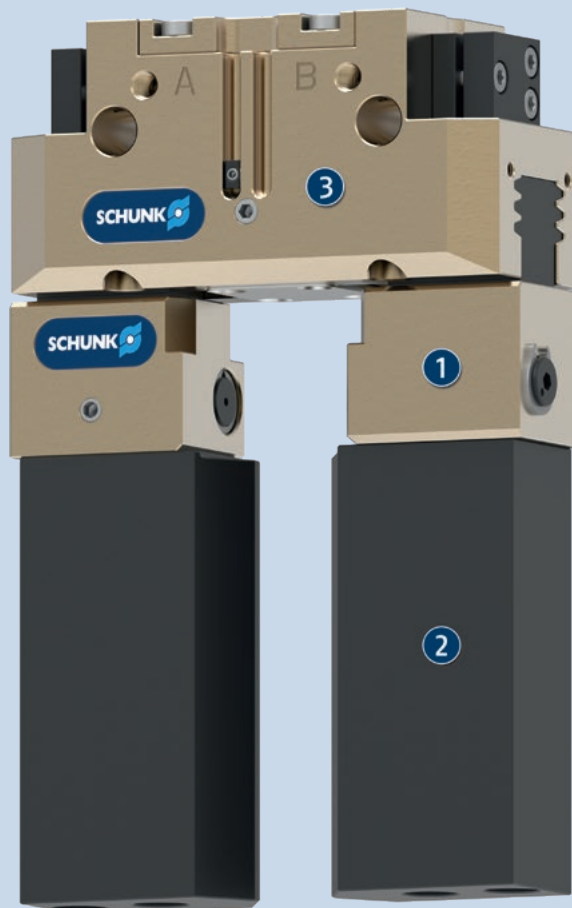
Load limits: The max. permissible moment of load resulting from the finger length, the force, as well as the loads occurring from acceleration/torques must not be exceeded. The same applies to the max. permissible force F_x . Independently of this, attention needs to be paid to the max. permissible finger length and the permissible load values for the gripper used.

Locking: The locking surfaces must be kept free of greases and oils.

Application example

Gripping unit with jaw quick-change system for changing the workpiece-specific gripper fingers

- ❶ Jaw quick-change system BSWS
- ❷ Finger blanks ABR/SBR
- ❸ 2-finger parallel gripper PGN-plus



SCHUNK offers more ...

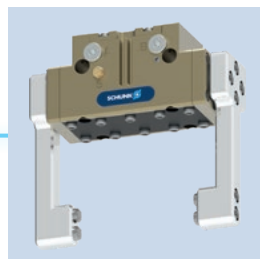
The following components make the product even more productive – the suitable addition for the highest functionality, flexibility, reliability, and controlled production.



2-finger parallel gripper



3-Finger Centric Gripper



Sealed universal gripper



Finger blank

① For more information on these products can be found on the following product pages or at [schunk.com](https://www.schunk.com).

Options and special information

BSWS-UR: Reversed assembly without additional height: If the additional attachment height of the BSWS system should have a negative impact, it is possible to fasten the BSWS adapter pins BSWS-AR in the base jaws of the gripper with screws. Then the changing system is more compact in height. The locking mechanism will be integrated into the top jaw. As another effect, there are no more problematic mounting bores in the finger contours. Please contact us for further informations.

BSWS-ABR-SBR: Top jaw blanks with integrated jaw quick-change system

BSWS-AR: It is not possible to combine BSWS-AR adapter pins with grippers in the dust-tight version. Please feel free to contact us for alternative solution proposals.

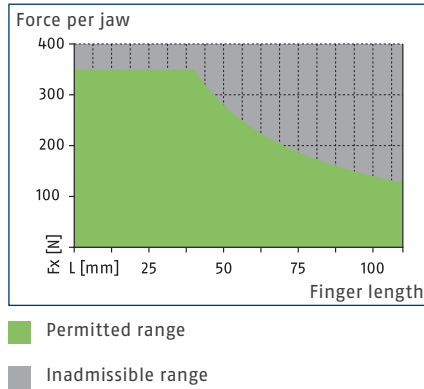
Food-grade lubrication: The product contains food-compliant lubricants as standard. The requirements of EN 1672-2:2020 are not fully met. The relevant NSF certificates are available at <https://info.nsf.org/USDA/Listings.asp> using the lubricant information in the operating manual.

BSWS-PGZN-plus 50

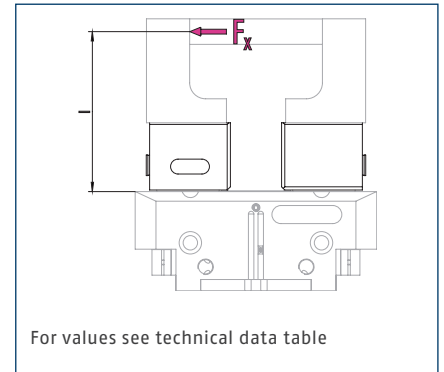
Jaw quick-change system



Load diagram



Max. loads



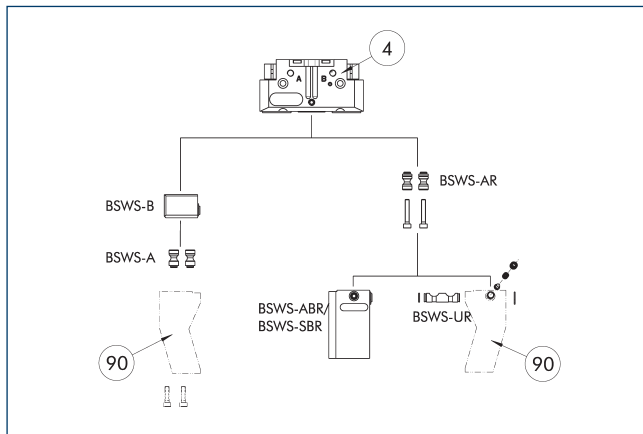
① The max. permissible moment of load ($M = F_x \cdot l$), resulting from the finger length (l), the force (F_x), and the loads occurring during application resulting from acceleration/torques must not be exceeded. The same applies to the max. permissible force F_x . Independently of this, attention needs to be paid to the max. permissible finger length and the permissible load values for the gripper used.

Technical data

Description		BSWS-B 50	BSWS-AR 50	BSWS-AR 50
ID		0303021	0300091	0300091
Weight	[kg]	0.02	0.01	0.01
Number per ID		1	2	2
Min./max. ambient temperature	[°C]	5/130		
Load limits				
Max. permissible loading torque	[Nm]	14	14	14
Max. perm. force F_x	[N]	350	350	350
Jaw quick-change system				
Description		BSWS-A 50	BSWS-UR 50	BSWS-ABR-PGZN-plus 50
ID		0303020	0302990	0300071
Weight	[kg]	0.002	0.006	0.08
Number per ID		2	1	1
Material BSWS adapter		42CrMo4+QT		
Material finger blank				Aluminum
Min./max. ambient temperature	[°C]		5/130	5/130
Finger blanks made of steel				
Description				BSWS-SBR-PGZN-plus 50
ID				0300081
Weight	[kg]			0.2
Number per ID				1
Material finger blank				Steel
Max. permissible loading torque	[Nm]			14
Max. perm. force F_x	[N]			350
Min./max. ambient temperature	[°C]			5/130

① The evenness in height of the BSWS-B is +/- 0,05 mm and the replacement accuracy of a top jaw in connection with the BSWS-A is +/- 0,02 mm.

Jaw quick-change system BSWS

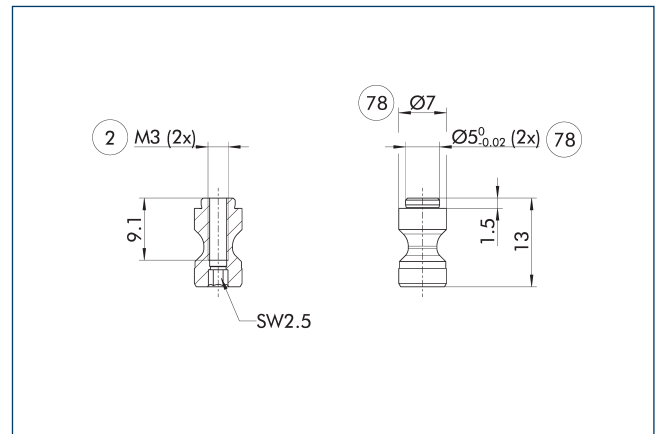


④ Grippers

⑨ Customized gripper fingers

The drawing shows an overview of the BSWS jaw quick-change system's application possibilities.

Adapter pin BSWS-A

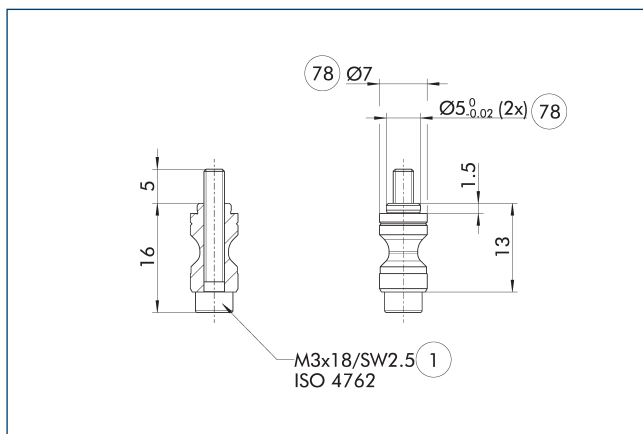


② Finger connection

⑦ Fit for centering

① Two adapter pins BSWS-A are included in the scope of delivery.

Adapter pin BSWS-AR 50



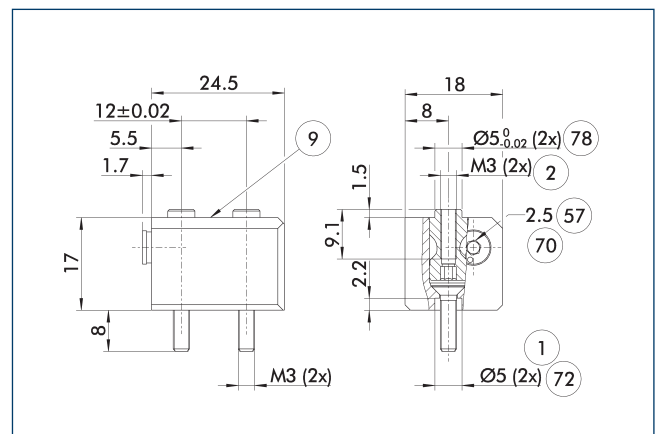
① Gripper connection

⑦ Fit for centering

BSWS-AR is not compatible with the precision versions 788864 of the grippers, as the connection fits are of different sizes.

① Two adapter pins BSWS-AR, incl. screws, are included in the scope of delivery.

Jaw quick-change system BSWS-B 50



① Gripper connection

⑤ Locking

② Finger connection

⑦ Wrench size

⑨ For mounting screw connection diagram, see basic version

⑦ Fit for centering sleeves

⑦ Fit for centering

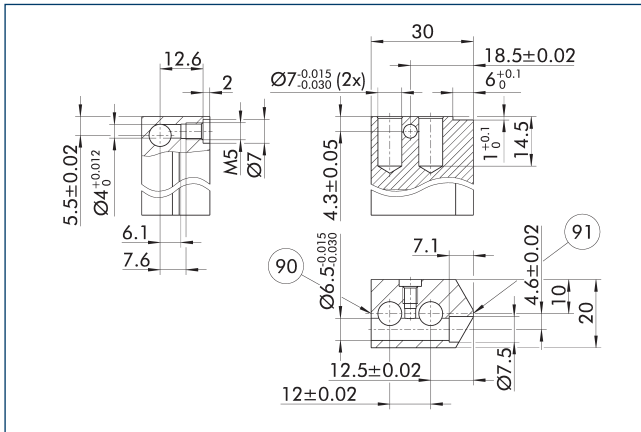
The drawing shows the basic design of the jaw quick-change system.

① The adapter pins BSWS-A shown are not included in the scope of delivery for the BSWS-B and must be ordered separately.

BSWS-PGZN-plus 50

Jaw quick-change system

BSWS-UR 50 jaw quick-change system



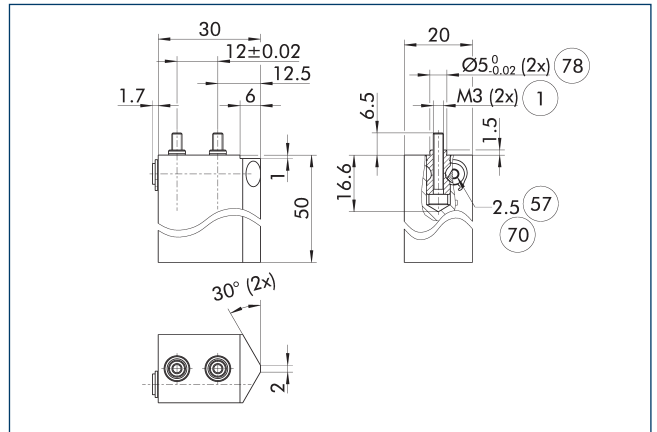
⑨ Locking side

⑨1 Side gripper center

The locking mechanism for the BSW5-AR should only be installed as shown in the drawing. A mirror-inverted installation, for example, will not work. A 3D CAD template for the SCHUNK BSW5-UR is available online.

- ① Only the locking mechanism is included in the scope of delivery. The drawing shows the manufacturing dimensions for the customized fingers. The surfaces should be wear-resistant, e.g. hard-anodized aluminum.

Finger blanks BSWS-ABR/SBR-PGZN-plus 50



① Gripper connection

⑦ Wrench size

⑤⑦ Locking

78 Fit for centering

The drawing shows the finger blank with jaw quick-change system which can be reworked by the customer.

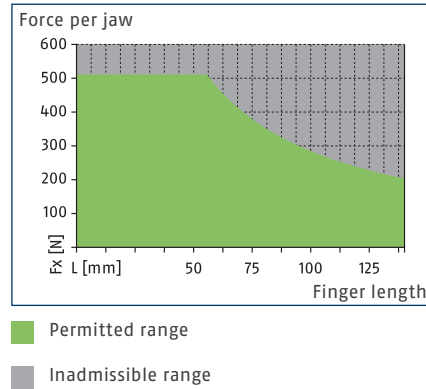
- ① The adapter pins BSWS-AR shown are not included in the scope of delivery for the finger blanks BSWS-ABR/SBR-PGZN-plus and must be ordered separately.

BSWS-PGZN-plus 64

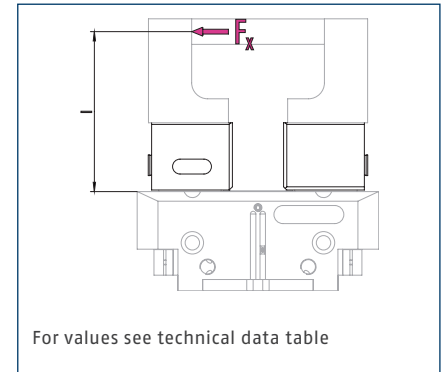
Jaw quick-change system



Load diagram



Max. loads



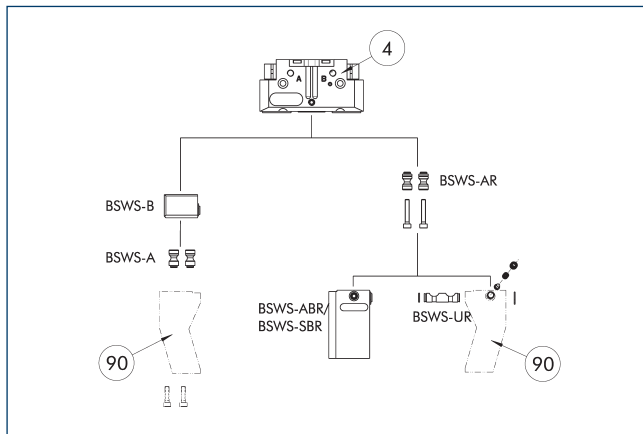
① The max. permissible moment of load ($M = F_x \cdot l$), resulting from the finger length (l), the force (F_x), and the loads occurring during application resulting from acceleration/torques must not be exceeded. The same applies to the max. permissible force F_x . Independently of this, attention needs to be paid to the max. permissible finger length and the permissible load values for the gripper used.

Technical data

Description		BSWS-B 64	BSWS-AR 64	BSWS-AR 64	BSWS-AR 10	BSWS-AR 10
ID		0303023	0300092	0300092	1515447	1515447
Weight	[kg]	0.04	0.015	0.015	0.015	0.015
Number per ID		1	2	2	2	2
Min./max. ambient temperature	[°C]	5/130				
Load limits						
Max. permissible loading torque	[Nm]	29	29	29	29	29
Max. perm. force F_x	[N]	510	510	510	510	510
Jaw quick-change system						
Description		BSWS-A 64	BSWS-UR 64	BSWS-ABR-PGZN-plus 64	BSWS-UR 64	BSWS-ABR-PGZN-plus 64
ID		0303022	0302991	0300072	0302991	0300072
Weight	[kg]	0.005	0.01	0.13	0.01	0.13
Number per ID		2	1	1	1	1
Material BSWS adapter		42CrMo4+QT				
Material finger blank				Aluminum		Aluminum
Min./max. ambient temperature	[°C]		5/130	5/130	5/130	5/130
Finger blanks made of steel						
Description				BSWS-SBR-PGZN-plus 64		BSWS-SBR-PGZN-plus 64
ID				0300082		0300082
Weight	[kg]			0.34		0.34
Number per ID				1		1
Material finger blank				Steel		Steel
Max. permissible loading torque	[Nm]			29		29
Max. perm. force F_x	[N]			510		510
Min./max. ambient temperature	[°C]			5/130		5/130

① The evenness in height of the BSWS-B is +/- 0,05 mm and the replacement accuracy of a top jaw in connection with the BSWS-A is +/- 0,02 mm.

Jaw quick-change system BSWS

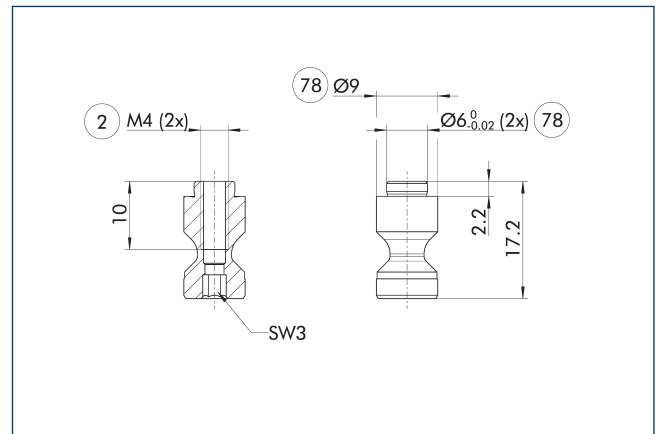


④ Grippers

⑨ Customized gripper fingers

The drawing shows an overview of the BSWS jaw quick-change system's application possibilities.

Adapter pin BSWS-A

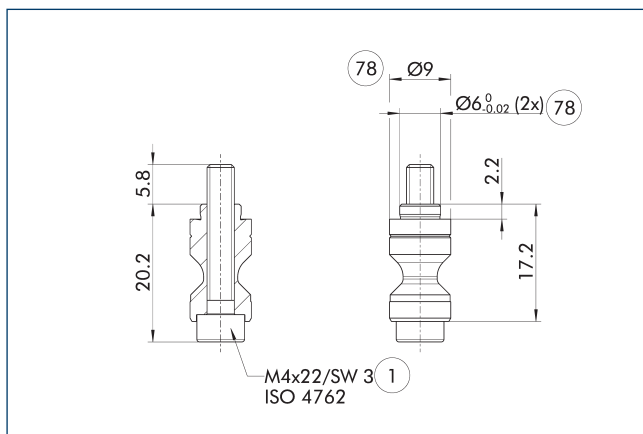


② Finger connection

⑦ Fit for centering

① Two adapter pins BSWS-A are included in the scope of delivery.

Adapter pin BSWS-AR 64



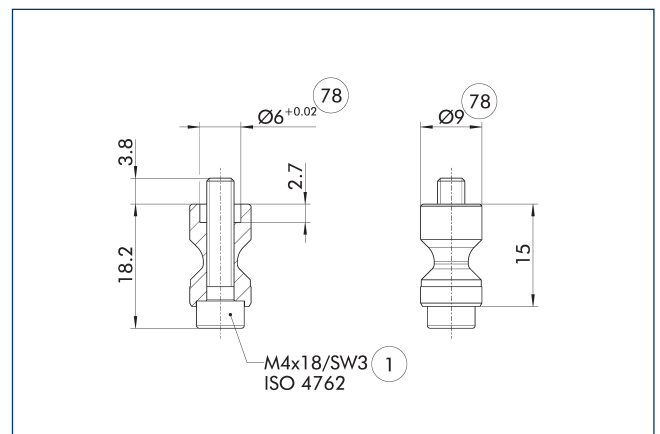
① Gripper connection

⑦ Fit for centering

BSWS-AR is not compatible with the precision versions 788864 of the grippers, as the connection fits are of different sizes.

① Two adapter pins BSWS-AR, incl. screws, are included in the scope of delivery.

Adapter pin BSWS-AR 10



① Gripper connection

⑦ Fit for centering

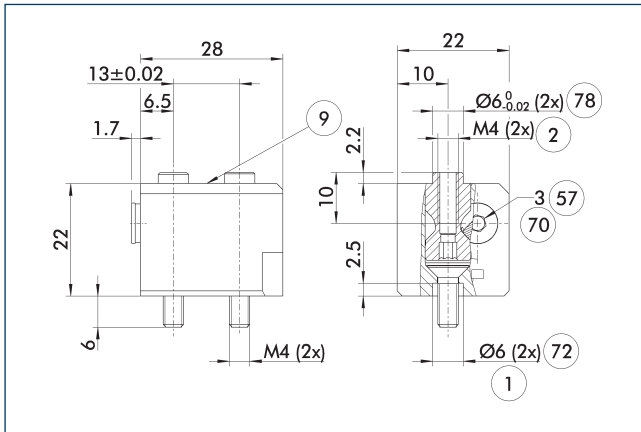
These BSWS-AR bolts are particularly suitable for the gripper series PGL-plus-P, for which the centering sleeves are milled on the base jaw of the gripper.

① Two adapter pins BSWS-AR, incl. screws, are included in the scope of delivery.

BSWS-PGZN-plus 64

Jaw quick-change system

Jaw quick-change system BSWS-B 64

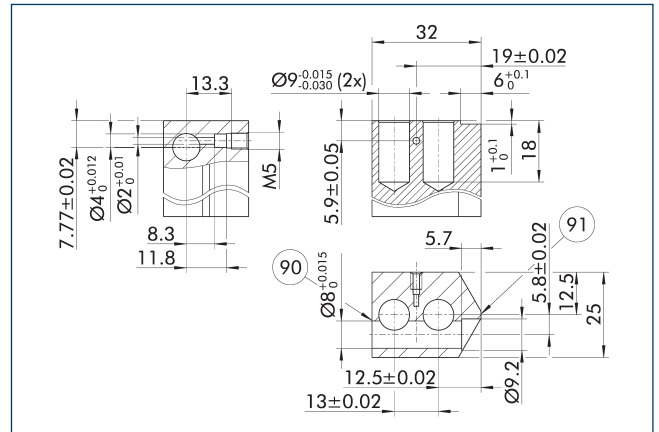


- ① Gripper connection
- ② Finger connection
- ⑨ For mounting screw connection diagram, see basic version
- ⑤⑦ Locking
- ⑦⑦ Wrench size
- ⑦② Fit for centering sleeves
- ⑦⑧ Fit for centering

The drawing shows the basic design of the jaw quick-change system.

- ① The adapter pins BSWS-A shown are not included in the scope of delivery for the BSWS-B and must be ordered separately.

BSWS-UR 64 jaw quick-change system

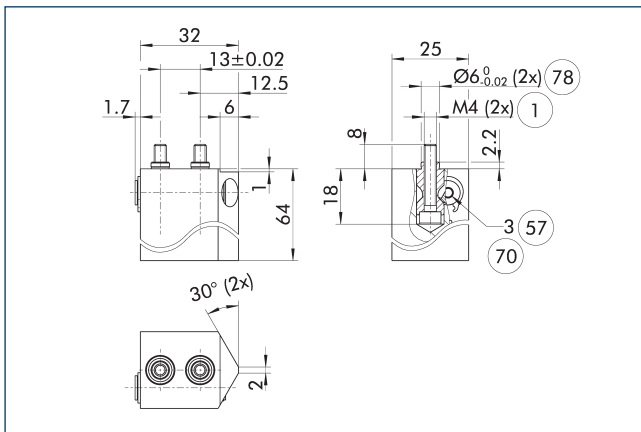


- ⑨⑦ Locking side
- ⑨① Side gripper center

The locking mechanism for the BSWS-AR should only be installed as shown in the drawing. A mirror-inverted installation, for example, will not work. A 3D CAD template for the SCHUNK BSWS-UR is available online.

- ① Only the locking mechanism is included in the scope of delivery. The drawing shows the manufacturing dimensions for the customized fingers. The surfaces should be wear-resistant, e.g. hard-anodized aluminum.

Finger blanks BSWS-ABR/SBR-PGZN-plus 64



- ① Gripper connection
- ⑤⑦ Locking
- ⑦⑦ Wrench size
- ⑦⑧ Fit for centering

The drawing shows the finger blank with jaw quick-change system which can be reworked by the customer.

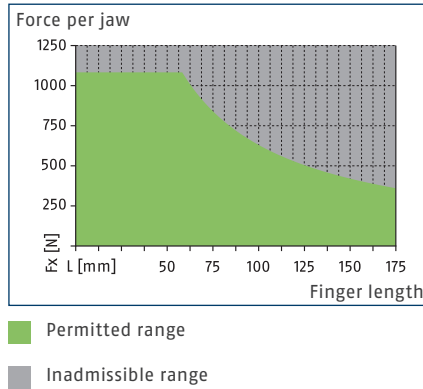
- ① The adapter pins BSWS-AR shown are not included in the scope of delivery for the finger blanks BSWS-ABR/SBR-PGZN-plus and must be ordered separately.

BSWS-PGZN-plus 80

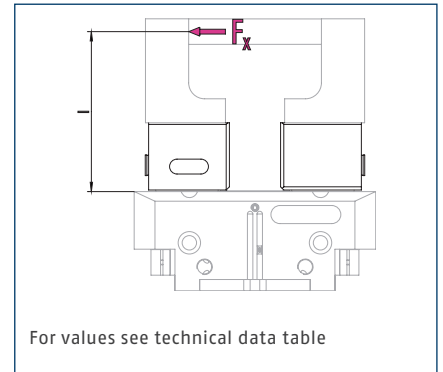
Jaw quick-change system



Load diagram



Max. loads



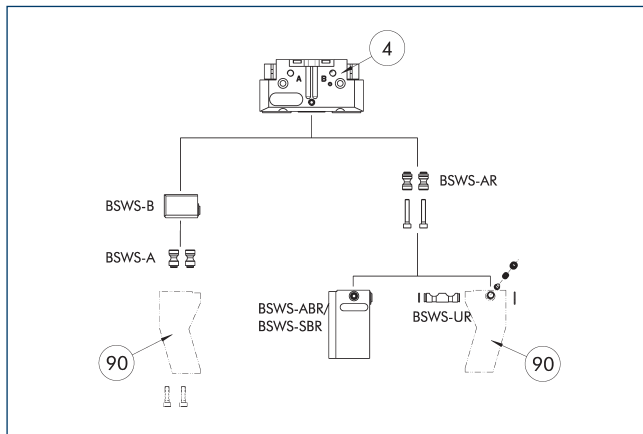
① The max. permissible moment of load ($M = F_x \cdot l$), resulting from the finger length (l), the force (F_x), and the loads occurring during application resulting from acceleration/torques must not be exceeded. The same applies to the max. permissible force F_x . Independently of this, attention needs to be paid to the max. permissible finger length and the permissible load values for the gripper used.

Technical data

Description		BSWS-B 80	BSWS-AR 80	BSWS-AR 80	BSWS-AR 13	BSWS-AR 13
ID		0303025	0300093	0300093	1515448	1515448
Weight	[kg]	0.08	0.03	0.03	0.03	0.03
Number per ID		1	2	2	2	2
Min./max. ambient temperature	[°C]	5/130				
Load limits						
Max. permissible loading torque	[Nm]	63	63	63	63	63
Max. perm. force F_x	[N]	1080	1080	1080	1080	1080
Jaw quick-change system						
Description		BSWS-A 80	BSWS-UR 80	BSWS-ABR-PGZN-plus 80	BSWS-UR 80	BSWS-ABR-PGZN-plus 80
ID		0303024	0302992	0300073	0302992	0300073
Weight	[kg]	0.011	0.015	0.27	0.015	0.27
Number per ID		2	1	1	1	1
Material BSWS adapter		42CrMo4+QT				
Material finger blank				Aluminum		Aluminum
Min./max. ambient temperature	[°C]		5/130	5/130	5/130	5/130
Finger blanks made of steel						
Description				BSWS-SBR-PGZN-plus 80		BSWS-SBR-PGZN-plus 80
ID				0300083		0300083
Weight	[kg]			0.66		0.66
Number per ID				1		1
Material finger blank				Steel		Steel
Max. permissible loading torque	[Nm]			63		63
Max. perm. force F_x	[N]			1080		1080
Min./max. ambient temperature	[°C]			5/130		5/130

① The evenness in height of the BSWS-B is $\pm 0,05$ mm and the replacement accuracy of a top jaw in connection with the BSWS-A is $\pm 0,02$ mm.

Jaw quick-change system BSWS

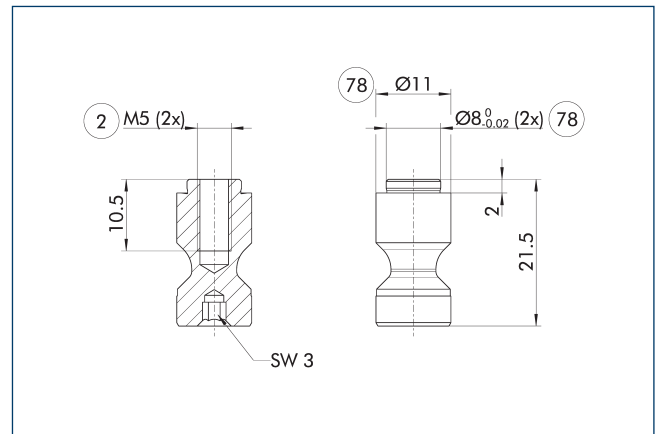


④ Grippers

⑨ Customized gripper fingers

The drawing shows an overview of the BSWS jaw quick-change system's application possibilities.

Adapter pin BSWS-A

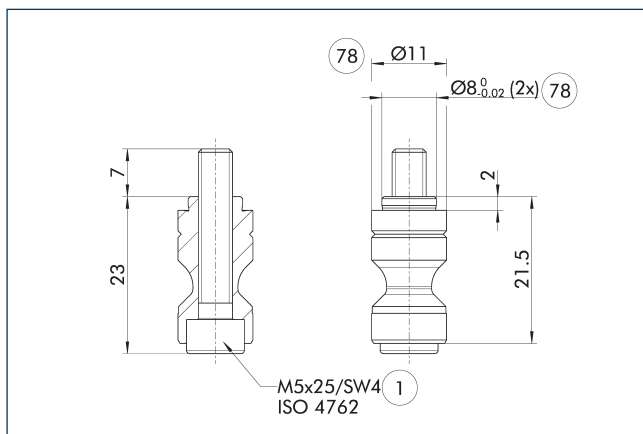


② Finger connection

⑦8 Fit for centering

① Two adapter pins BSWS-A are included in the scope of delivery.

Adapter pin BSWS-AR 80



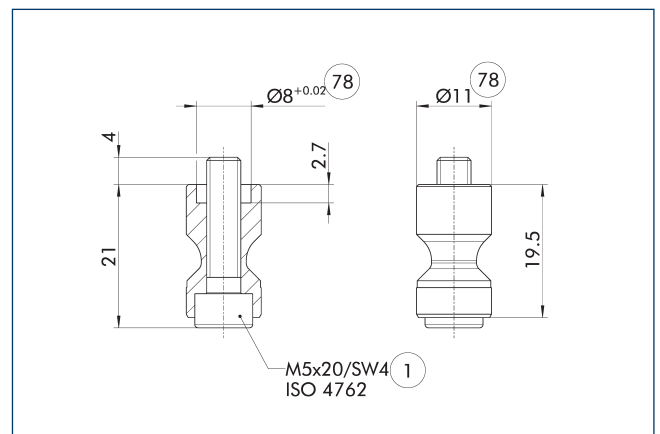
① Gripper connection

⑦8 Fit for centering

BSWS-AR is not compatible with the precision versions 788864 of the grippers, as the connection fits are of different sizes.

① Two adapter pins BSWS-AR, incl. screws, are included in the scope of delivery.

Adapter pin BSWS-AR 13



① Gripper connection

⑦8 Fit for centering

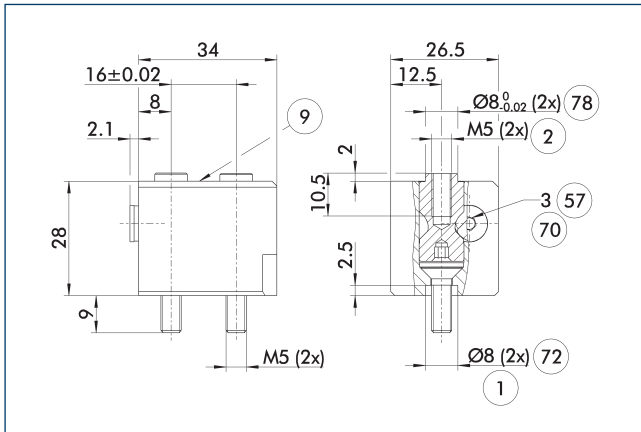
These BSWS-AR bolts are particularly suitable for the gripper series PGL-plus-P, for which the centering sleeves are milled on the base jaw of the gripper.

① Two adapter pins BSWS-AR, incl. screws, are included in the scope of delivery.

BSWS-PGZN-plus 80

Jaw quick-change system

Jaw quick-change system BSWS-B 80

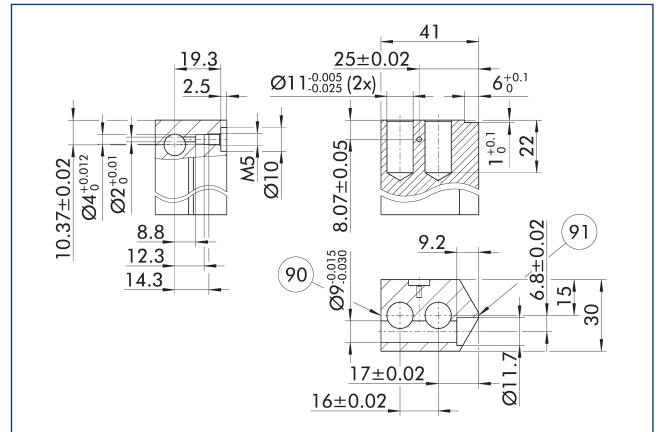


- ① Gripper connection
- ② Finger connection
- ⑨ For mounting screw connection diagram, see basic version
- ⑤⑦ Locking
- ⑦⑦ Wrench size
- ⑦② Fit for centering sleeves
- ⑦⑧ Fit for centering

The drawing shows the basic design of the jaw quick-change system.

- ① The adapter pins BSWS-A shown are not included in the scope of delivery for the BSWS-B and must be ordered separately.

BSWS-UR 80 jaw quick-change system

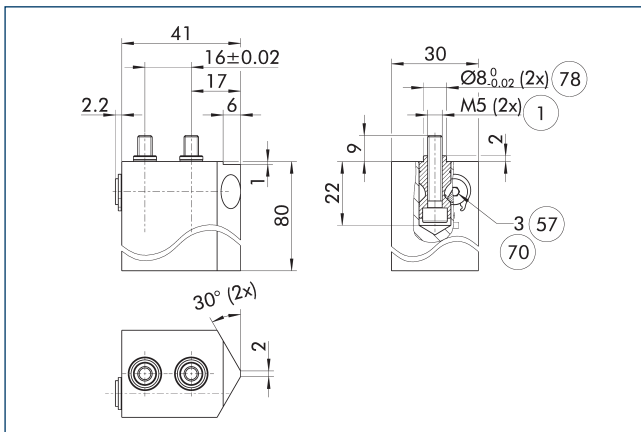


- ⑨⑦ Locking side
- ⑨① Side gripper center

The locking mechanism for the BSWS-AR should only be installed as shown in the drawing. A mirror-inverted installation, for example, will not work. A 3D CAD template for the SCHUNK BSWS-UR is available online.

- ① Only the locking mechanism is included in the scope of delivery. The drawing shows the manufacturing dimensions for the customized fingers. The surfaces should be wear-resistant, e.g. hard-anodized aluminum.

Finger blanks BSWS-ABR/SBR-PGZN-plus 80



- ① Gripper connection
- ⑤⑦ Locking
- ⑦⑦ Wrench size
- ⑦⑧ Fit for centering

The drawing shows the finger blank with jaw quick-change system which can be reworked by the customer.

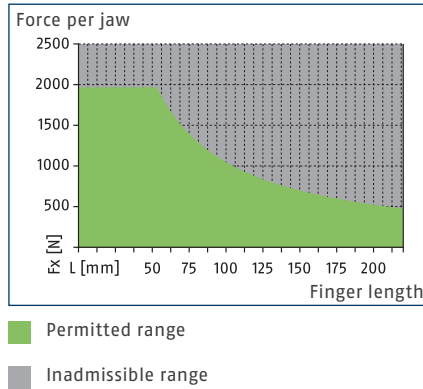
- ① The adapter pins BSWS-AR shown are not included in the scope of delivery for the finger blanks BSWS-ABR/SBR-PGZN-plus and must be ordered separately.

BSWS-PGZN-plus 100

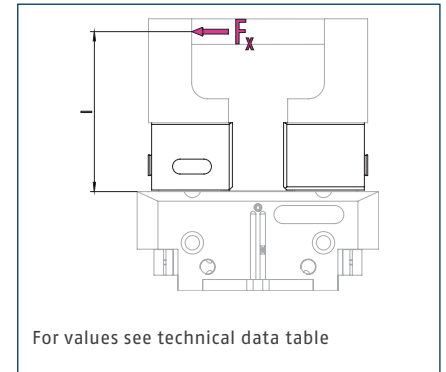
Jaw quick-change system



Load diagram



Max. loads



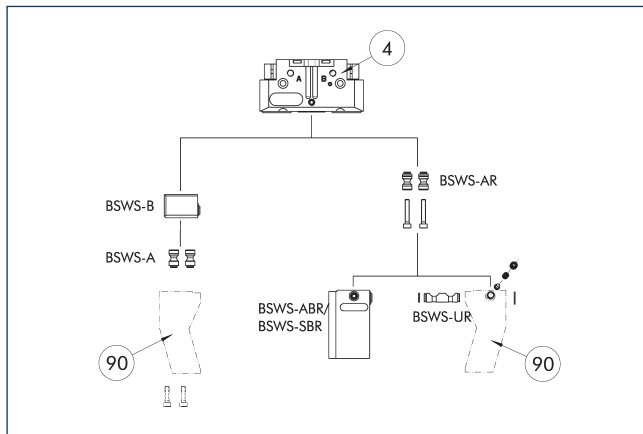
① The max. permissible moment of load ($M = F_x \cdot l$), resulting from the finger length (l), the force (F_x), and the loads occurring during application resulting from acceleration/torques must not be exceeded. The same applies to the max. permissible force F_x . Independently of this, attention needs to be paid to the max. permissible finger length and the permissible load values for the gripper used.

Technical data

Description		BSWS-B 100	BSWS-AR 100	BSWS-AR 100	BSWS-AR 16	BSWS-AR 16
ID		0303027	0300094	0300094	1515470	1515470
Weight	[kg]	0.1	0.06	0.06	0.06	0.06
Number per ID		1	2	2	2	2
Min./max. ambient temperature	[°C]	5/130				
Load limits						
Max. permissible loading torque	[Nm]	105	105	105	105	105
Max. perm. force F _x	[N]	1960	1960	1960	1960	1960
Jaw quick-change system						
Description		BSWS-A 100	BSWS-UR 100	BSWS-ABR-PGZN-plus 100	BSWS-UR 100	BSWS-ABR-PGZN-plus 100
ID		0303026	0302993	0300074	0302993	0300074
Weight	[kg]	0.024	0.027	0.45	0.027	0.45
Number per ID		2	1	1	1	1
Material BSWS adapter		42CrMo4+QT				
Material finger blank				Aluminum		Aluminum
Min./max. ambient temperature	[°C]		5/130	5/130	5/130	5/130
Finger blanks made of steel						
Description				BSWS-SBR-PGZN-plus 100		BSWS-SBR-PGZN-plus 100
ID				0300084		0300084
Weight	[kg]			1.19		1.19
Number per ID				1		1
Material finger blank				Steel		Steel
Max. permissible loading torque	[Nm]			105		105
Max. perm. force F _x	[N]			1960		1960
Min./max. ambient temperature	[°C]			5/130		5/130

① The evenness in height of the BSWS-B is +/- 0,05 mm and the replacement accuracy of a top jaw in connection with the BSWS-A is +/- 0,02 mm.

Jaw quick-change system BSWS

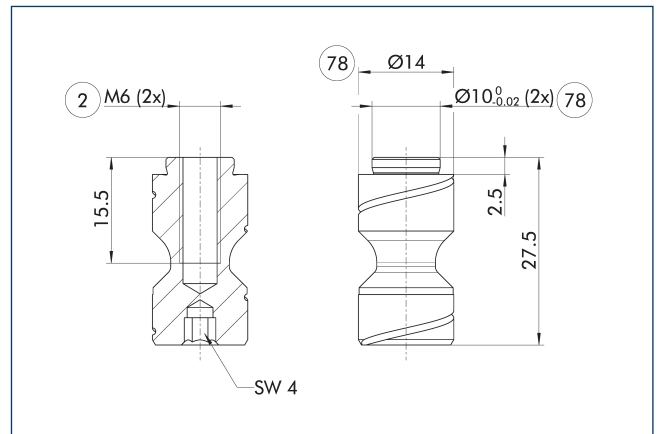


④ Grippers

⑨ Customized gripper fingers

The drawing shows an overview of the BSWS jaw quick-change system's application possibilities.

Adapter pin BSWS-A

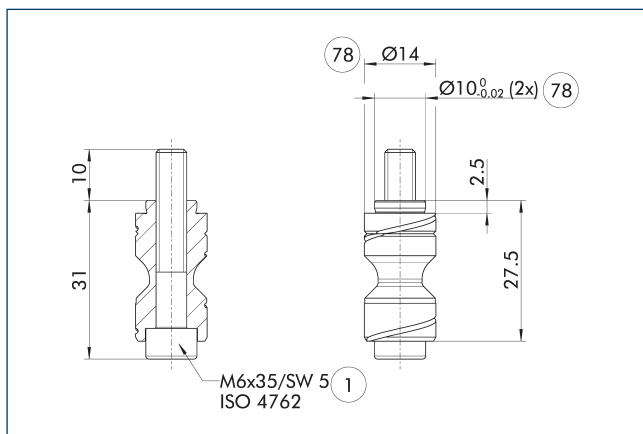


② Finger connection

⑦ Fit for centering

① Two adapter pins BSWS-A are included in the scope of delivery.

Adapter pin BSWS-AR 100



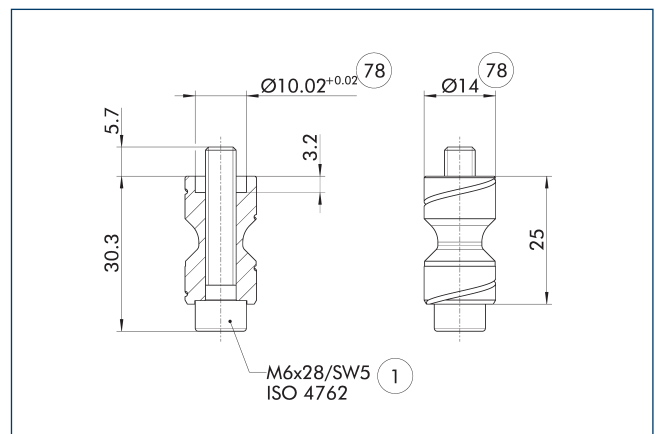
① Gripper connection

⑦ Fit for centering

BSWS-AR is not compatible with the precision versions 788864 of the grippers, as the connection fits are of different sizes.

① Two adapter pins BSWS-AR, incl. screws, are included in the scope of delivery.

Adapter pin BSWS-AR 16



① Gripper connection

⑦ Fit for centering

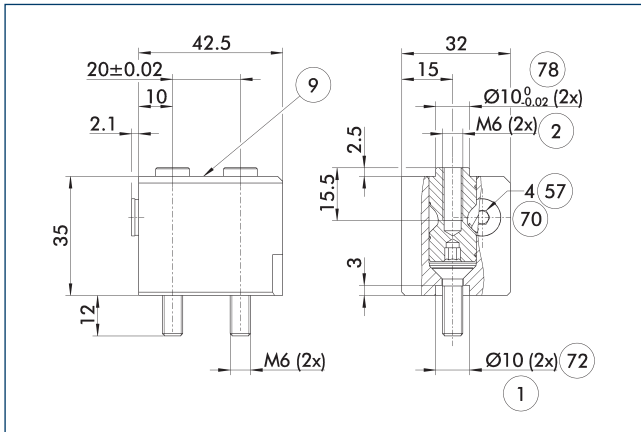
These BSWS-AR bolts are particularly suitable for the gripper series PGL-plus-P, for which the centering sleeves are milled on the base jaw of the gripper.

① Two adapter pins BSWS-AR, incl. screws, are included in the scope of delivery.

BSWS-PGZN-plus 100

Jaw quick-change system

Jaw quick-change system BSWS-B 100

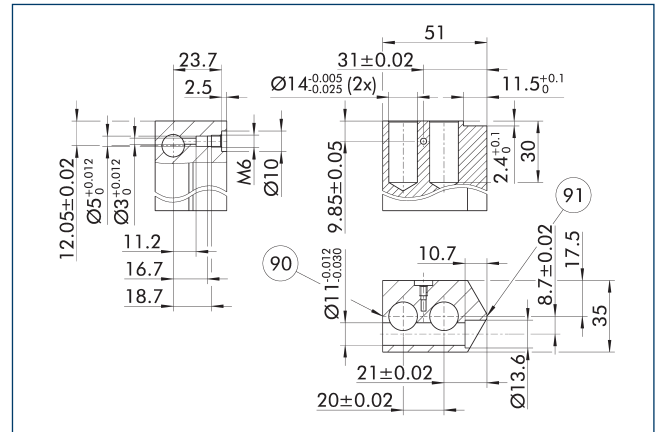


- ① Gripper connection
- ② Finger connection
- ⑨ For mounting screw connection diagram, see basic version
- ⑤⑦ Locking
- ⑦⑦ Wrench size
- ⑦② Fit for centering sleeves
- ⑦⑧ Fit for centering

The drawing shows the basic design of the jaw quick-change system.

- ① The adapter pins BSWS-A shown are not included in the scope of delivery for the BSWS-B and must be ordered separately.

BSWS-UR 100 jaw quick-change system

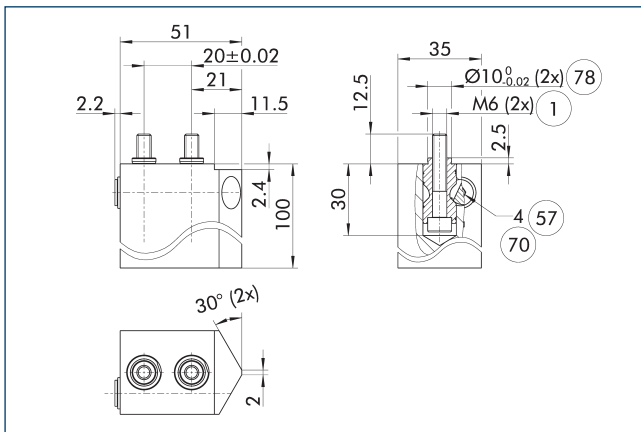


- ⑨⑨ Locking side
- ⑨① Side gripper center

The locking mechanism for the BSWS-AR should only be installed as shown in the drawing. A mirror-inverted installation, for example, will not work. A 3D CAD template for the SCHUNK BSWS-UR is available online.

- ① Only the locking mechanism is included in the scope of delivery. The drawing shows the manufacturing dimensions for the customized fingers. The surfaces should be wear-resistant, e.g. hard-anodized aluminum.

Finger blanks BSWS-ABR/SBR-PGZN-plus 100



- ① Gripper connection
- ⑤⑦ Locking
- ⑦⑦ Wrench size
- ⑦⑧ Fit for centering

The drawing shows the finger blank with jaw quick-change system which can be reworked by the customer.

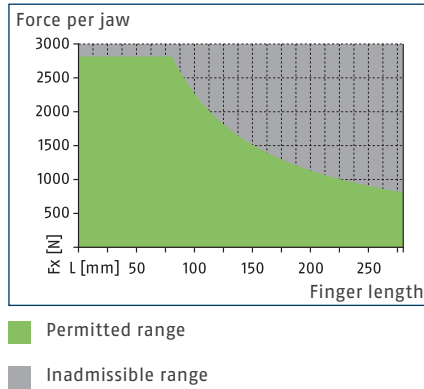
- ① The adapter pins BSWS-AR shown are not included in the scope of delivery for the finger blanks BSWS-ABR/SBR-PGZN-plus and must be ordered separately.

BSWS-PGZN-plus 125

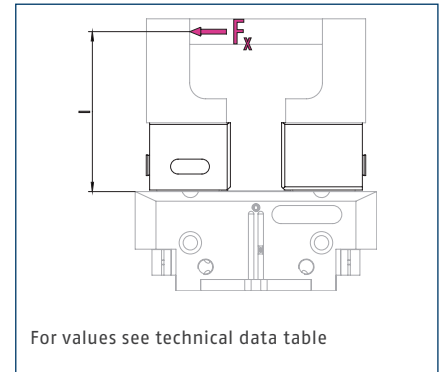
Jaw quick-change system



Load diagram



Max. loads



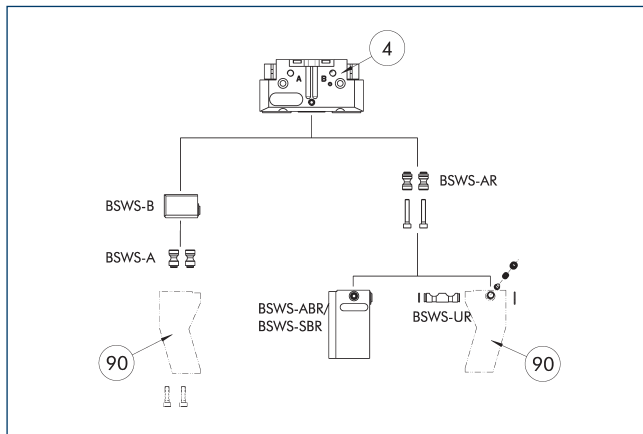
① The max. permissible moment of load ($M = F_x \cdot l$), resulting from the finger length (l), the force (F_x), and the loads occurring during application resulting from acceleration/torques must not be exceeded. The same applies to the max. permissible force F_x . Independently of this, attention needs to be paid to the max. permissible finger length and the permissible load values for the gripper used.

Technical data

Description		BSWS-B 125	BSWS-AR 125	BSWS-AR 125	BSWS-AR 20	BSWS-AR 20
ID		0303029	0300095	0300095	1515474	1515474
Weight	[kg]	0.27	0.1	0.1	0.1	0.1
Number per ID		1	2	2	2	2
Min./max. ambient temperature	[°C]	5/130				
Load limits						
Max. permissible loading torque	[Nm]	225	225	225	225	225
Max. perm. force F_x	[N]	2815	2815	2815	2815	2815
Jaw quick-change system						
Description		BSWS-A 125	BSWS-UR 125	BSWS-ABR-PGZN-plus 125	BSWS-UR 125	BSWS-ABR-PGZN-plus 125
ID		0303028	0302994	0300075	0302994	0300075
Weight	[kg]	0.046	0.044	0.78	0.044	0.78
Number per ID		2	1	1	1	1
Material BSWS adapter		42CrMo4+QT				
Material finger blank				Aluminum		Aluminum
Min./max. ambient temperature	[°C]		5/130	5/130	5/130	5/130
Finger blanks made of steel						
Description				BSWS-SBR-PGZN-plus 125		BSWS-SBR-PGZN-plus 125
ID				0300085		0300085
Weight	[kg]			2.1		2.1
Number per ID				1		1
Material finger blank				Steel		Steel
Max. permissible loading torque	[Nm]			225		225
Max. perm. force F_x	[N]			2815		2815
Min./max. ambient temperature	[°C]			5/130		5/130

① The evenness in height of the BSWS-B is $\pm 0,05$ mm and the replacement accuracy of a top jaw in connection with the BSWS-A is $\pm 0,02$ mm.

Jaw quick-change system BSWS

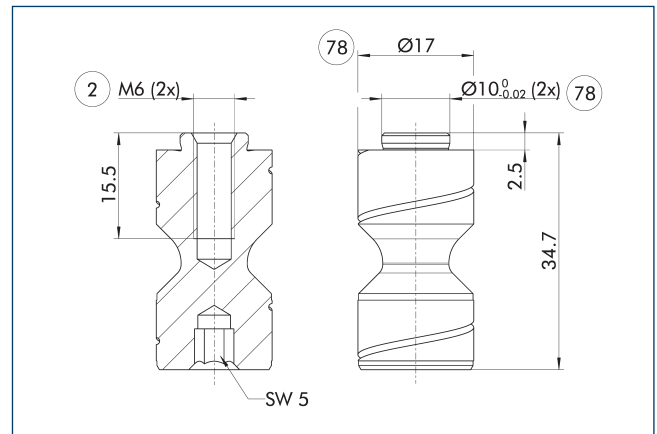


④ Grippers

⑨ Customized gripper fingers

The drawing shows an overview of the BSWS jaw quick-change system's application possibilities.

Adapter pin BSWS-A

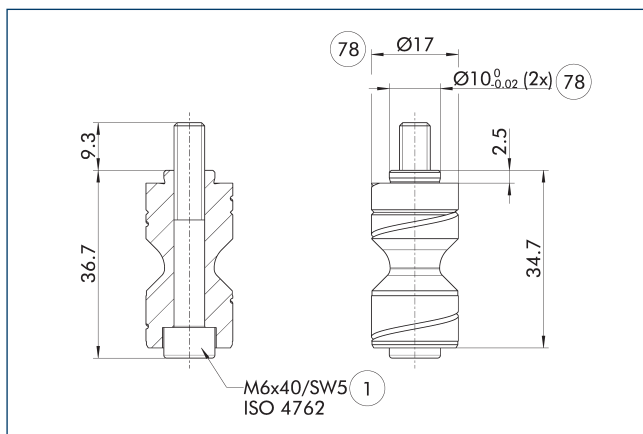


② Finger connection

⑦ Fit for centering

① Two adapter pins BSWS-A are included in the scope of delivery.

Adapter pin BSWS-AR 125



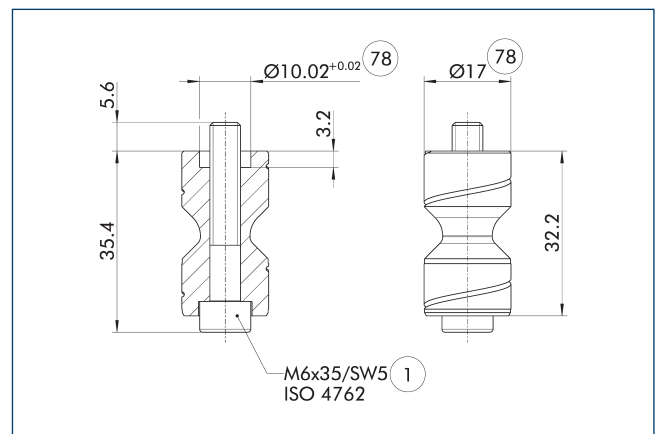
① Gripper connection

⑦ Fit for centering

BSWS-AR is not compatible with the precision versions 788864 of the grippers, as the connection fits are of different sizes.

① Two adapter pins BSWS-AR, incl. screws, are included in the scope of delivery.

Adapter pin BSWS-AR 20



① Gripper connection

⑦ Fit for centering

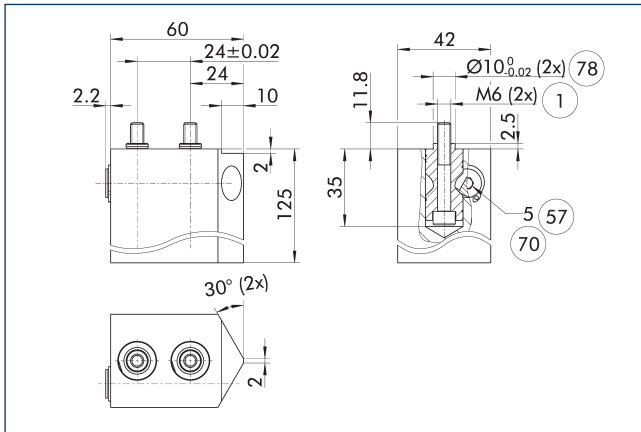
These BSWS-AR bolts are particularly suitable for the gripper series PGL-plus-P, for which the centering sleeves are milled on the base jaw of the gripper.

① Two adapter pins BSWS-AR, incl. screws, are included in the scope of delivery.

BSWS-PGZN-plus 125

Jaw quick-change system

Finger blanks BSWS-ABR/SBR-PGZN-plus 125

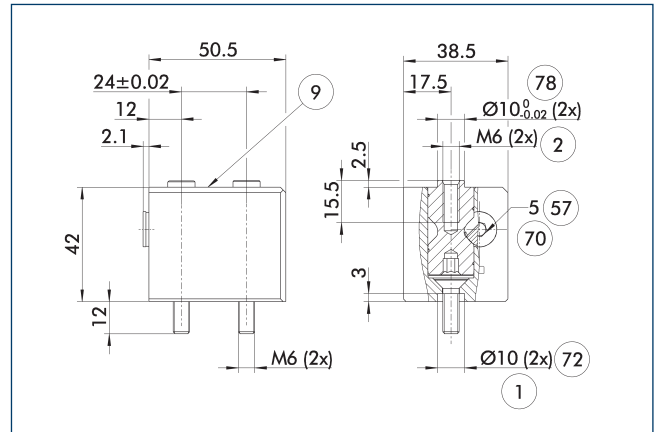


- ① Gripper connection
- ⑤7 Locking
- ⑦0 Wrench size
- ⑦8 Fit for centering

The drawing shows the finger blank with jaw quick-change system which can be reworked by the customer.

- ① The adapter pins BSWS-AR shown are not included in the scope of delivery for the finger blanks BSWS-ABR/SBR-PGZN-plus and must be ordered separately.

Jaw quick-change system BSWS-B 125

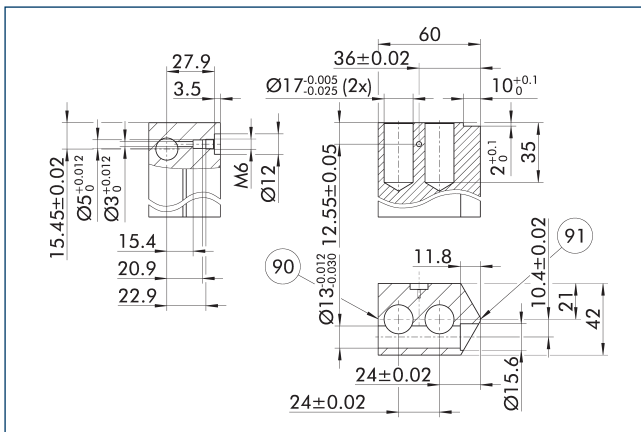


- ① Gripper connection
- ② Finger connection
- ⑨ For mounting screw connection diagram, see basic version
- ⑤7 Locking
- ⑦0 Wrench size
- ⑦2 Fit for centering sleeves
- ⑦8 Fit for centering

The drawing shows the basic design of the jaw quick-change system.

- ① The adapter pins BSWS-A shown are not included in the scope of delivery for the BSWS-B and must be ordered separately.

BSWS-UR 125 jaw quick-change system



- ⑨0 Locking side
- ⑨1 Side gripper center

The locking mechanism for the BSWS-AR should only be installed as shown in the drawing. A mirror-inverted installation, for example, will not work. A 3D CAD template for the SCHUNK BSWS-UR is available online.

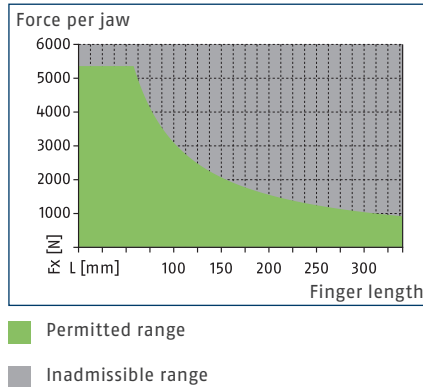
- ① Only the locking mechanism is included in the scope of delivery. The drawing shows the manufacturing dimensions for the customized fingers. The surfaces should be wear-resistant, e.g. hard-anodized aluminum.

BSWS-PGZN-plus 160

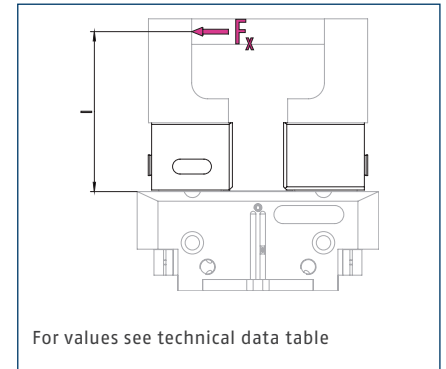
Jaw quick-change system



Load diagram



Max. loads



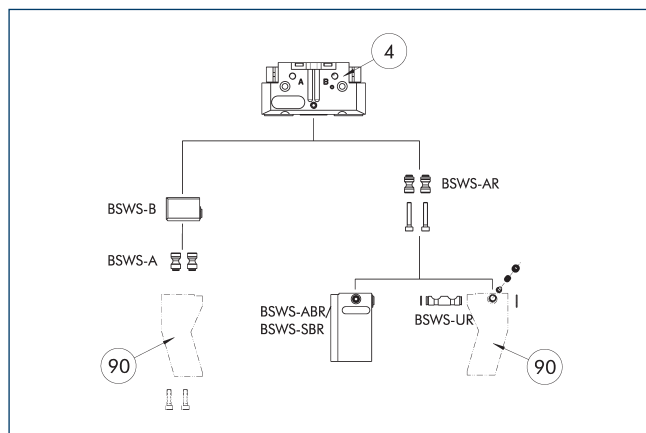
① The max. permissible moment of load ($M = F_x \cdot l$), resulting from the finger length (l), the force (F_x), and the loads occurring during application resulting from acceleration/torques must not be exceeded. The same applies to the max. permissible force F_x . Independently of this, attention needs to be paid to the max. permissible finger length and the permissible load values for the gripper used.

Technical data

Description		BSWS-B 160	BSWS-AR 160	BSWS-AR 160	BSWS-AR 25	BSWS-AR 25
ID		0303031	0300096	0300096	1515477	1515477
Weight	[kg]	0.48	0.19	0.19	0.19	0.19
Number per ID		1	2	2	2	2
Min./max. ambient temperature	[°C]	5/130				
Load limits						
Max. permissible loading torque	[Nm]	310	310	310	310	310
Max. perm. force F_x	[N]	5360	5360	5360	5360	5360
Jaw quick-change system						
Description		BSWS-A 160	BSWS-UR 160	BSWS-ABR-PGZN-plus 160	BSWS-UR 160	BSWS-ABR-PGZN-plus 160
ID		0303030	0302995	0300076	0302995	0300076
Weight	[kg]	0.077	0.094	1.7	0.085	1.7
Number per ID		2	1	1	1	1
Material BSWS adapter		42CrMo4+QT				
Material finger blank				Aluminum		Aluminum
Min./max. ambient temperature	[°C]		5/130	5/130	5/130	5/130
Finger blanks made of steel						
Description				BSWS-SBR-PGZN-plus 160		BSWS-SBR-PGZN-plus 160
ID				0300086		0300086
Weight	[kg]			3.5		3.5
Number per ID				1		1
Material finger blank				Steel		Steel
Max. permissible loading torque	[Nm]			310		310
Max. perm. force F_x	[N]			5360		5360
Min./max. ambient temperature	[°C]			5/130		5/130

① The evenness in height of the BSWS-B is +/- 0,05 mm and the replacement accuracy of a top jaw in connection with the BSWS-A is +/- 0,02 mm.

Jaw quick-change system BSWS

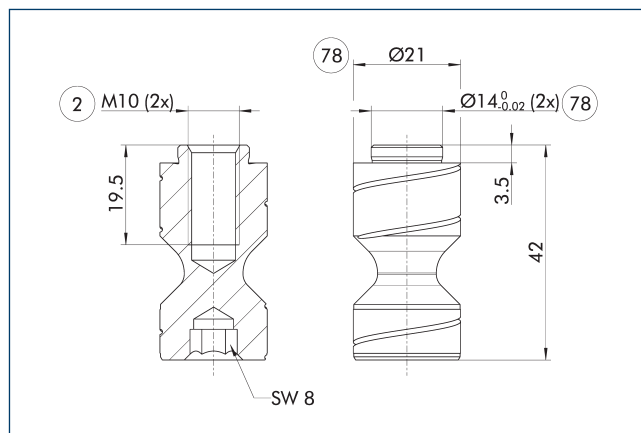


④ Grippers

⑨ Customized gripper fingers

The drawing shows an overview of the BSWS jaw quick-change system's application possibilities.

Adapter pin BSWS-A

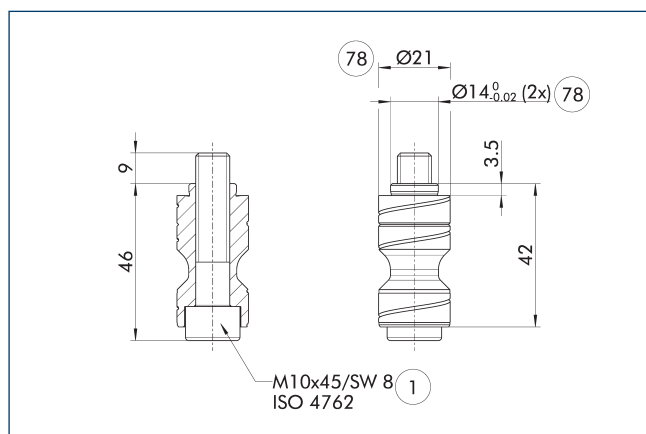


② Finger connection

⑦ Fit for centering

① Two adapter pins BSWS-A are included in the scope of delivery.

Adapter pin BSWS-AR 160



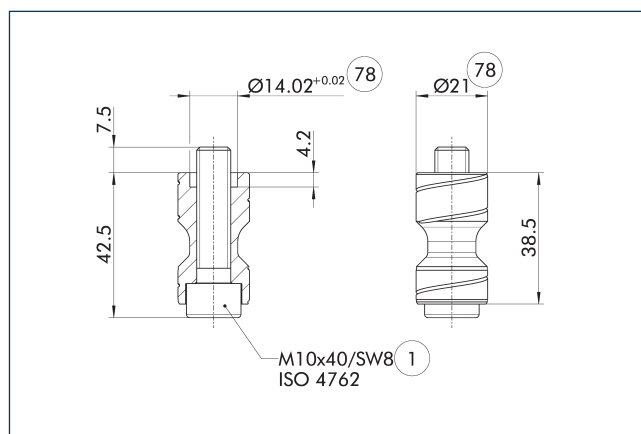
① Gripper connection

⑦ Fit for centering

BSWS-AR is not compatible with the precision versions 788864 of the grippers, as the connection fits are of different sizes.

① Two adapter pins BSWS-AR, incl. screws, are included in the scope of delivery.

Adapter pin BSWS-AR 25



① Gripper connection

⑦ Fit for centering

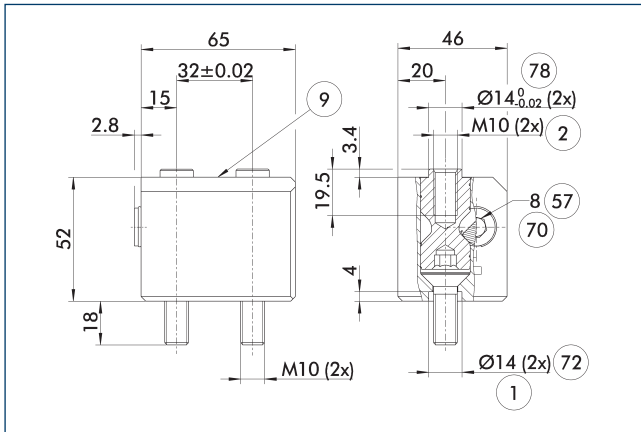
These BSWS-AR bolts are particularly suitable for the gripper series PGL-plus-P, for which the centering sleeves are milled on the base jaw of the gripper.

① Two adapter pins BSWS-AR, incl. screws, are included in the scope of delivery.

BSWS-PGZN-plus 160

Jaw quick-change system

Jaw quick-change system BSWS-B 160

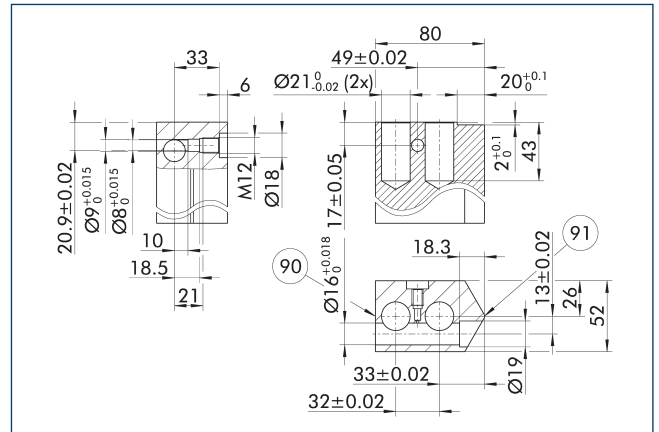


- | | |
|---|------------------------------|
| ① Gripper connection | ⑤7 Locking |
| ② Finger connection | ⑦0 Wrench size |
| ⑨ For mounting screw connection
diagram, see basic version | ⑦2 Fit for centering sleeves |
| | ⑦8 Fit for centering |

The drawing shows the basic design of the jaw quick-change system.

- ❗ The adapter pins BSWS-A shown are not included in the scope of delivery for the BSWS-B and must be ordered separately.

BSWS-UR 160 jaw quick-change system

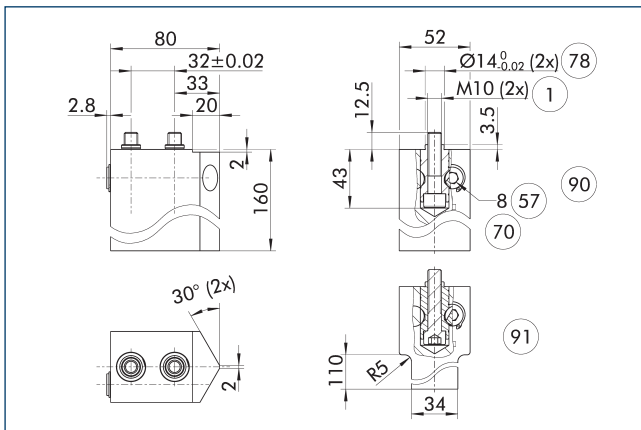


- (90)** Locking side

The locking mechanism for the BSWS-AR should only be installed as shown in the drawing. A mirror-inverted installation, for example, will not work. A 3D CAD template for the SCHUNK BSWS-UR is available online.

- ① Only the locking mechanism is included in the scope of delivery. The drawing shows the manufacturing dimensions for the customized fingers. The surfaces should be wear-resistant, e.g. hard-anodized aluminum.

Finger blanks BSWS-ABR/SBR-PGZN-plus 160



- | | |
|----------------------|----------------------|
| ① Gripper connection | ⑦⑧ Fit for centering |
| ⑤⑦ Locking | ⑨⑩ ABR |
| ⑦⑩ Wrench size | ⑨⑩ SBR |

The drawing shows the finger blank with jaw quick-change system which can be reworked by the customer.

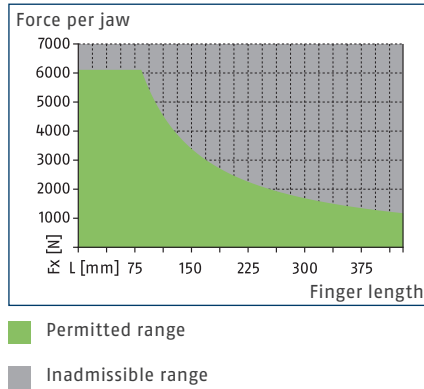
- ① The adapter pins BSWS-AR shown are not included in the scope of delivery for the finger blanks BSWS-ABR/SBR-PGZN-plus and must be ordered separately.

BSWS-PGZN-plus 200

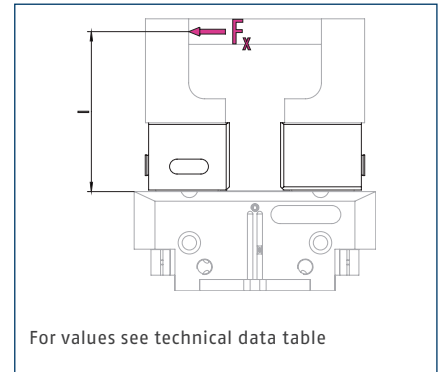
Jaw quick-change system



Load diagram



Max. loads



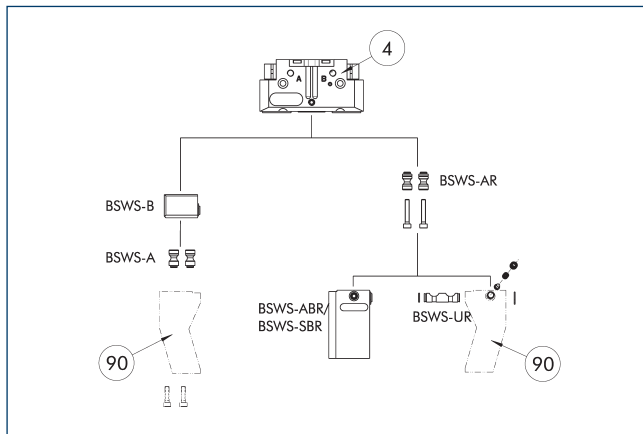
① The max. permissible moment of load ($M = F_x \cdot l$), resulting from the finger length (l), the force (F_x), and the loads occurring during application resulting from acceleration/torques must not be exceeded. The same applies to the max. permissible force F_x . Independently of this, attention needs to be paid to the max. permissible finger length and the permissible load values for the gripper used.

Technical data

Description		BSWS-B 200	BSWS-AR 200	BSWS-AR 200
ID		0303033	1453341	1453341
Weight	[kg]	0.9	0.45	0.45
Number per ID		1	2	2
Min./max. ambient temperature	[°C]	5/130	5/130	5/130
Load limits				
Max. permissible loading torque	[Nm]	510	510	510
Max. perm. force F_x	[N]	6110	6110	6110
Jaw quick-change system				
Description		BSWS-A 200	BSWS-UR 200	BSWS-ABR-PGZN-plus 200
ID		0303032	1451606	1453347
Weight	[kg]	0.16	0.19	3.05
Number per ID		2	1	1
Material BSWS adapter		42CrMo4+QT		
Material finger blank				Aluminum
Min./max. ambient temperature	[°C]	5/130	5/130	5/130

① The evenness in height of the BSWS-B is +/- 0,05 mm and the replacement accuracy of a top jaw in connection with the BSWS-A is +/-0,02 mm.

Jaw quick-change system BSWS

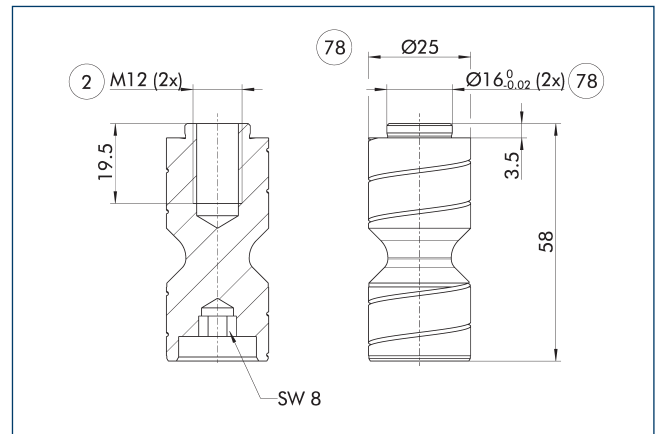


④ Grippers

⑨ Customized gripper fingers

The drawing shows an overview of the BSWS jaw quick-change system's application possibilities.

Adapter pin BSWS-A

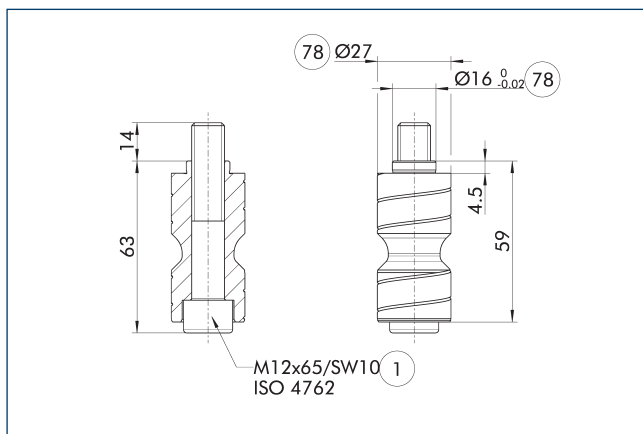


② Finger connection

⑦ Fit for centering

① Two adapter pins BSWS-A are included in the scope of delivery.

Adapter pin BSWS-AR 200



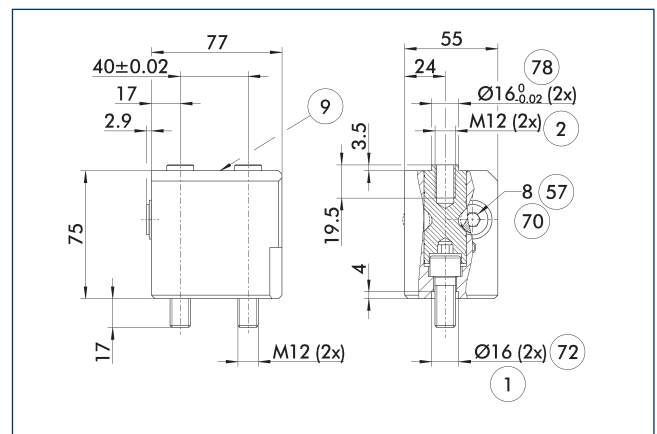
① Gripper connection

⑦ Fit for centering

BSWS-AR is not compatible with the precision versions 788864 of the grippers, as the connection fits are of different sizes.

① Two adapter pins BSWS-AR, incl. screws, are included in the scope of delivery.

Jaw quick-change system BSWS-B 200



① Gripper connection

② Finger connection

⑨ For mounting screw connection diagram, see basic version

⑤ Locking

⑦ Wrench size

⑦ Fit for centering sleeves

⑦ Fit for centering

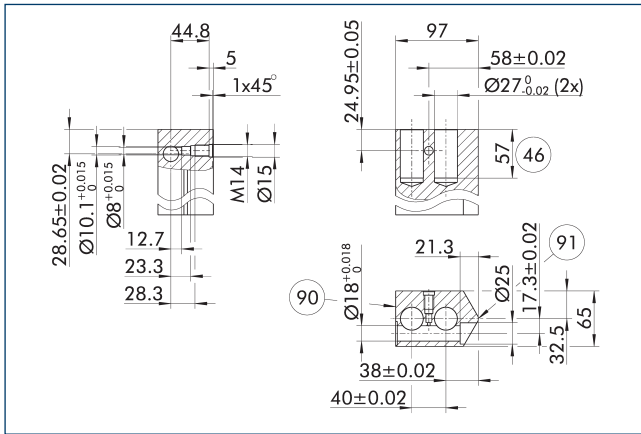
The drawing shows the basic design of the jaw quick-change system.

① The adapter pins BSWS-A shown are not included in the scope of delivery for the BSWS-B and must be ordered separately.

BSWS-PGZN-plus 200

Jaw quick-change system

Jaw quick-change system BSWS-UR 200



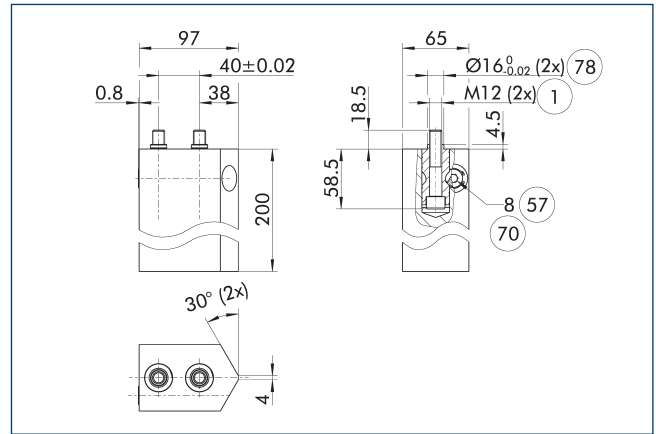
90 Locking side

91 Side gripper center

The locking mechanism for the BSWS-AR should only be installed as shown in the drawing. A mirror-inverted installation, for example, will not work. A 3D CAD template for the SCHUNK BSWS-UR is available online.

- ① Only the locking mechanism is included in the scope of delivery. The drawing shows the manufacturing dimensions for the customized fingers. The surfaces should be wear-resistant, e.g. hard-anodized aluminum.

Finger blanks BSWS-ABR-PGZN-plus 200



1 Gripper connection

57 Locking

70 Wrench size

78 Fit for centering

The drawing shows the finger blank with jaw quick-change system which can be reworked by the customer.

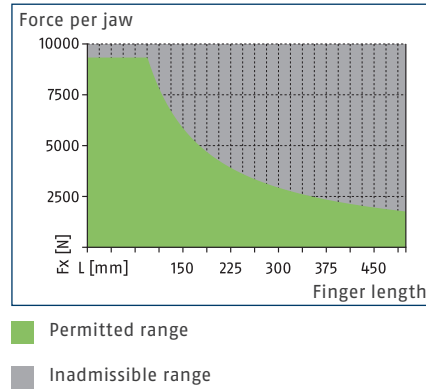
- ① The adapter pins BSWS-AR shown are not included in the scope of delivery for the finger blanks BSWS-ABR/SBR-PGZN-plus and must be ordered separately.

BSWS-PGZN-plus 240

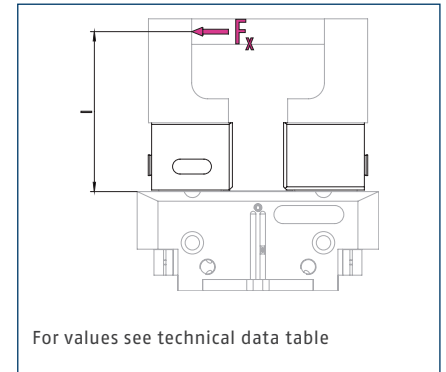
Jaw quick-change system



Load diagram



Max. loads



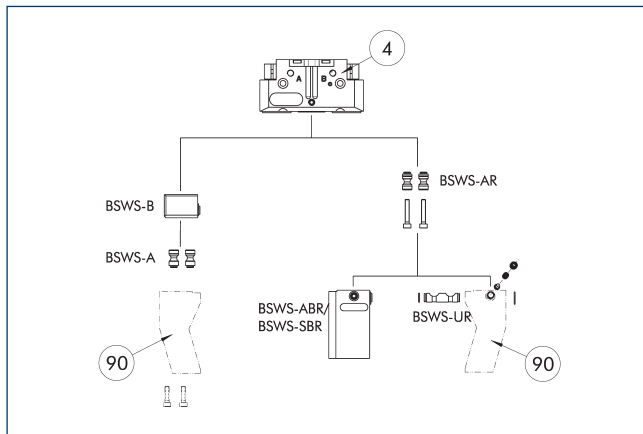
① The max. permissible moment of load ($M = F_x \cdot l$), resulting from the finger length (l), the force (F_x), and the loads occurring during application resulting from acceleration/torques must not be exceeded. The same applies to the max. permissible force F_x . Independently of this, attention needs to be paid to the max. permissible finger length and the permissible load values for the gripper used.

Technical data

Description		BSWS-B 240	BSWS-AR 240	BSWS-AR 240
ID		0303035	1453342	1453342
Weight	[kg]	1.5	0.71	0.71
Number per ID		1	2	2
Min./max. ambient temperature	[°C]	5/130	5/130	5/130
Load limits				
Max. permissible loading torque	[Nm]	880	880	880
Max. perm. force F_x	[N]	9330	9330	9330
Jaw quick-change system				
Description		BSWS-A 240	BSWS-UR 240	BSWS-ABR-PGZN-plus 240
ID		0303034	1451607	1453348
Weight	[kg]	0.3	0.33	4.9
Number per ID		2	1	1
Material BSWS adapter		42CrMo4+QT		
Material finger blank				Aluminum
Min./max. ambient temperature	[°C]	5/130	5/130	5/130

① The evenness in height of the BSWS-B is +/- 0,05 mm and the replacement accuracy of a top jaw in connection with the BSWS-A is +/-0,02 mm.

Jaw quick-change system BSWS

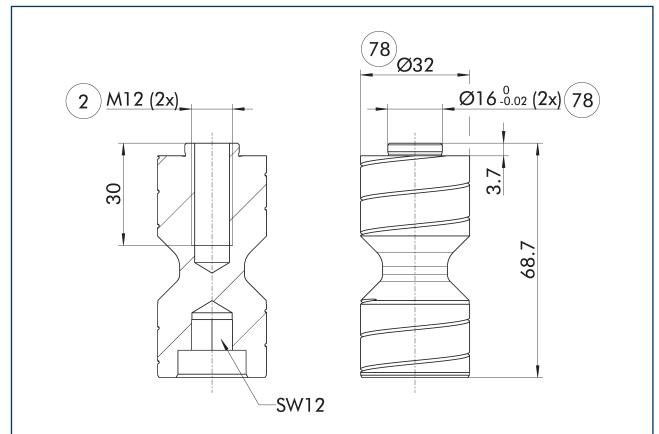


④ Grippers

⑨⑩ Customized gripper fingers

The drawing shows an overview of the BSWS jaw quick-change system's application possibilities.

Adapter pin BSWS-A

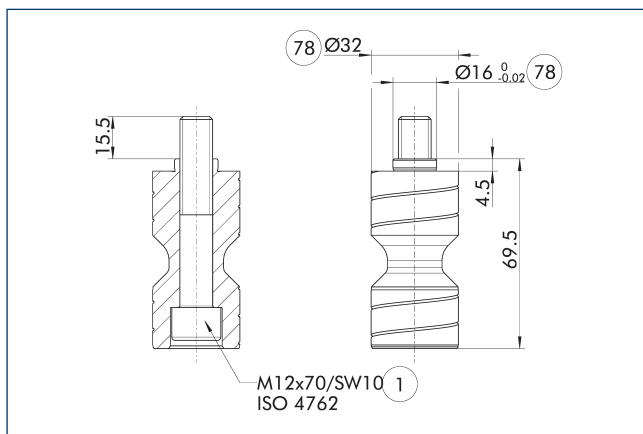


② Finger connection

⑦⑧ Fit for centering

① Two adapter pins BSWS-A are included in the scope of delivery.

Adapter pin BSWS-AR 240



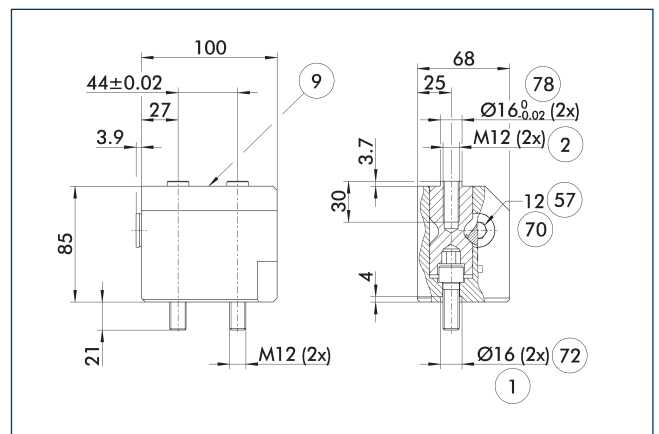
① Gripper connection

⑦⑧ Fit for centering

BSWS-AR is not compatible with the precision versions 788864 of the grippers, as the connection fits are of different sizes.

① Two adapter pins BSWS-AR, incl. screws, are included in the scope of delivery.

Jaw quick-change system BSWS-B 240



① Gripper connection

② Finger connection

⑨ For mounting screw connection diagram, see basic version

⑤⑦ Locking

⑦⑩ Wrench size

⑦② Fit for centering sleeves

⑦⑧ Fit for centering

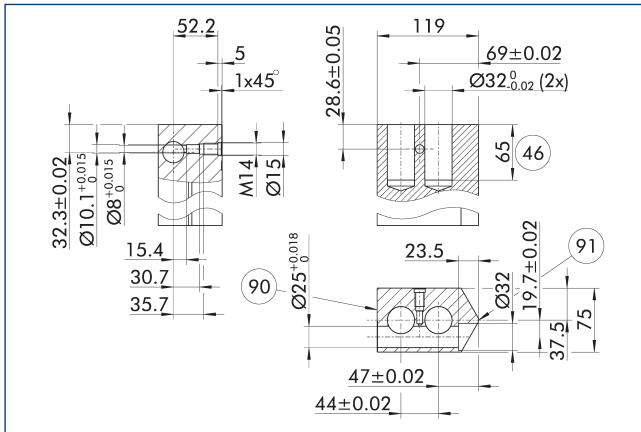
The drawing shows the basic design of the jaw quick-change system.

① The adapter pins BSWS-A shown are not included in the scope of delivery for the BSWS-B and must be ordered separately.

BSWS-PGZN-plus 240

Jaw quick-change system

Jaw quick-change system BSWS-UR 240



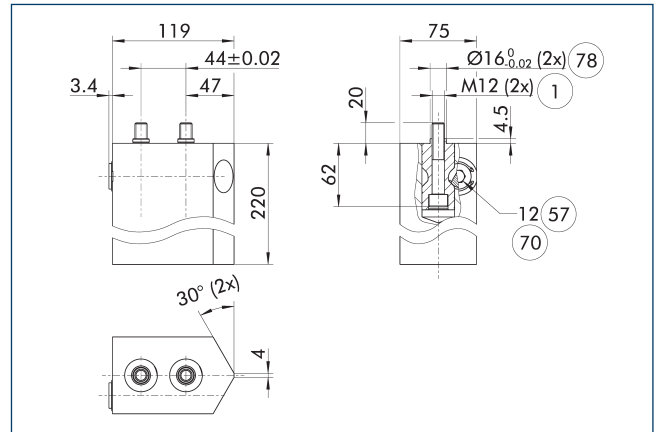
90 Locking side

91 Side gripper center

The locking mechanism for the BSWS-AR should only be installed as shown in the drawing. A mirror-inverted installation, for example, will not work. A 3D CAD template for the SCHUNK BSWS-UR is available online.

- ① Only the locking mechanism is included in the scope of delivery. The drawing shows the manufacturing dimensions for the customized fingers. The surfaces should be wear-resistant, e.g. hard-anodized aluminum.

Finger blanks BSWS-ABR-PGZN-plus 240



1 Gripper connection

70 Wrench size

57 Locking

78 Fit for centering

The drawing shows the finger blank with jaw quick-change system which can be reworked by the customer.

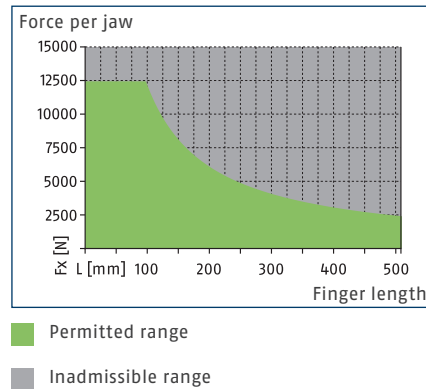
- ① The adapter pins BSWS-AR shown are not included in the scope of delivery for the finger blanks BSWS-ABR/SBR-PGZN-plus and must be ordered separately.

BSWS-PGZN-plus 300

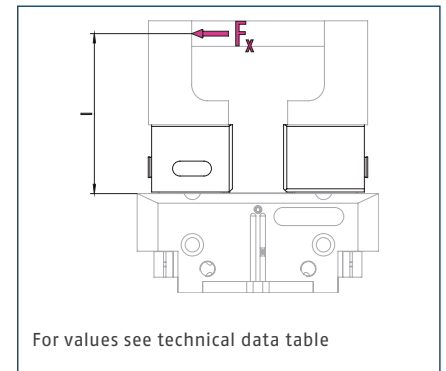
Jaw quick-change system



Load diagram



Max. loads



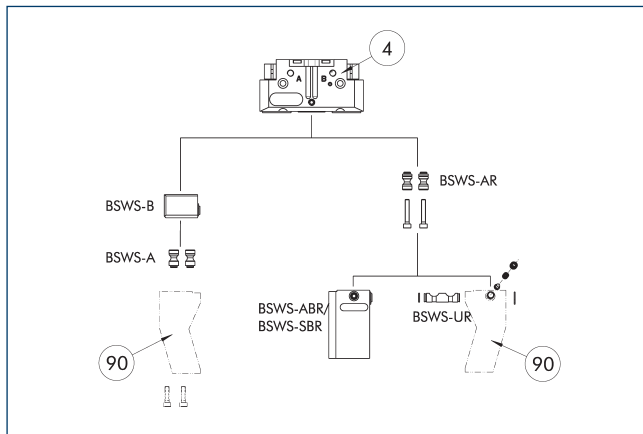
① The max. permissible moment of load ($M = F_x \cdot l$), resulting from the finger length (l), the force (F_x), and the loads occurring during application resulting from acceleration/torques must not be exceeded. The same applies to the max. permissible force F_x . Independently of this, attention needs to be paid to the max. permissible finger length and the permissible load values for the gripper used.

Technical data

Description		BSWS-B 300	BSWS-AR 300	BSWS-AR 300
ID		0303037	1453343	1453343
Weight	[kg]	2	1.05	1.05
Number per ID		1	2	2
Min./max. ambient temperature	[°C]	5/130	5/130	5/130
Load limits				
Max. permissible loading torque	[Nm]	1220	1220	1220
Max. perm. force F_x	[N]	12430	12430	12430
Jaw quick-change system				
Description		BSWS-A 300	BSWS-UR 300	BSWS-ABR-PGZN-plus 300
ID		0303036	1451608	1453349
Weight	[kg]	0.41	0.4	5.15
Number per ID		2	1	1
Material BSWS adapter		42CrMo4+QT		
Material finger blank				Aluminum
Min./max. ambient temperature	[°C]	5/130	5/130	5/130

① The evenness in height of the BSWS-B is +/- 0,05 mm and the replacement accuracy of a top jaw in connection with the BSWS-A is +/-0,02 mm.

Jaw quick-change system BSWS

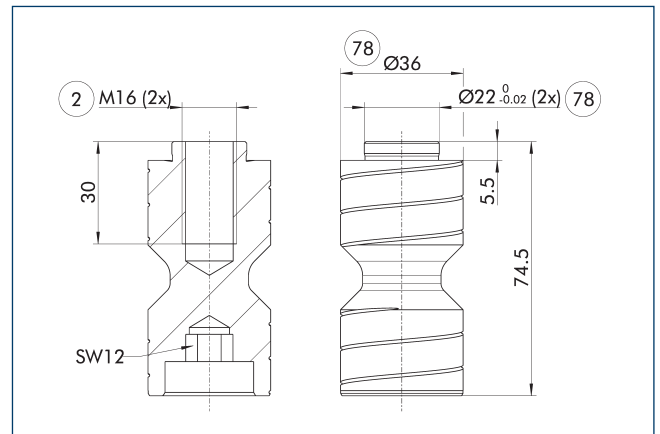


④ Grippers

⑨ Customized gripper fingers

The drawing shows an overview of the BSWS jaw quick-change system's application possibilities.

Adapter pin BSWS-A

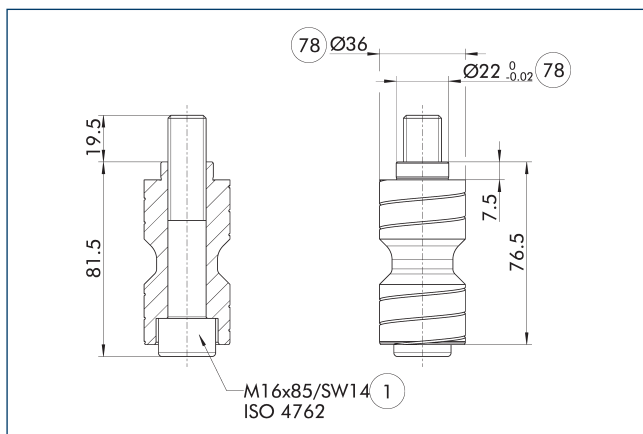


② Finger connection

⑦ Fit for centering

① Two adapter pins BSWS-A are included in the scope of delivery.

Adapter pin BSWS-AR 300



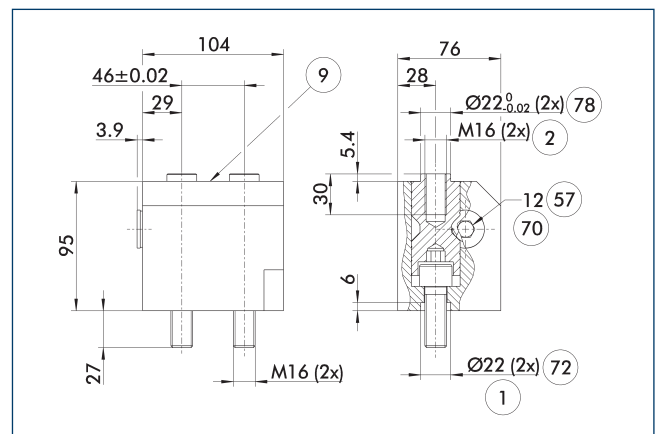
① Gripper connection

⑦ Fit for centering

BSWS-AR is not compatible with the precision versions 788864 of the grippers, as the connection fits are of different sizes.

① Two adapter pins BSWS-AR, incl. screws, are included in the scope of delivery.

Jaw quick-change system BSWS-B 300



① Gripper connection

⑤ Locking

② Finger connection

⑦ Wrench size

⑨ For mounting screw connection diagram, see basic version

⑦ Fit for centering sleeves

⑦ Fit for centering

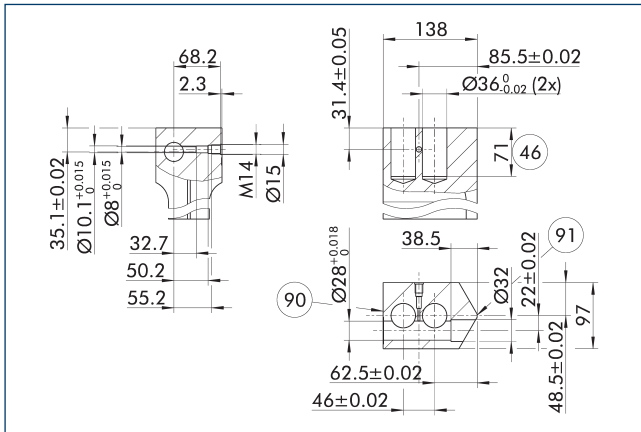
The drawing shows the basic design of the jaw quick-change system.

① The adapter pins BSWS-A shown are not included in the scope of delivery for the BSWS-B and must be ordered separately.

BSWS-PGZN-plus 300

Jaw quick-change system

Jaw quick-change system BSWS-UR 300



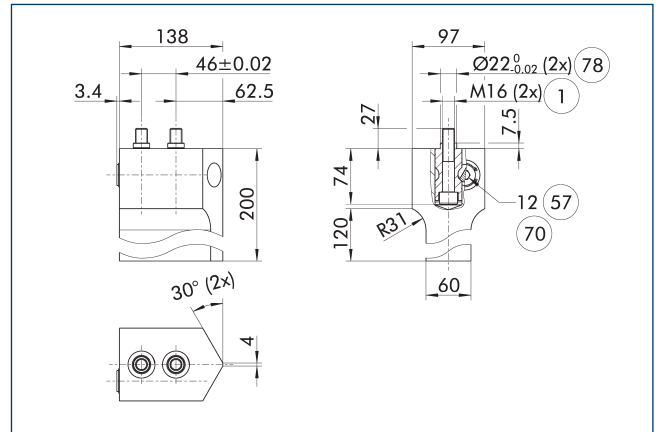
90 Locking side

91 Side gripper center

The locking mechanism for the BSWS-AR should only be installed as shown in the drawing. A mirror-inverted installation, for example, will not work. A 3D CAD template for the SCHUNK BSWS-UR is available online.

- ① Only the locking mechanism is included in the scope of delivery. The drawing shows the manufacturing dimensions for the customized fingers. The surfaces should be wear-resistant, e.g. hard-anodized aluminum.

Finger blanks BSWS-ABR-PGZN-plus 300



1 Gripper connection

70 Wrench size

57 Locking

78 Fit for centering

The drawing shows the finger blank with jaw quick-change system which can be reworked by the customer.

- ① The adapter pins BSWS-AR shown are not included in the scope of delivery for the finger blanks BSWS-ABR/SBR-PGZN-plus and must be ordered separately.



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