

Superior Clamping and Gripping



Product Information

Compact change system CWS

Compact. Flat. Productive. Compact change system CWS

Compact, manual change system with integrated air feed-throughs for the most important SCHUNK gripping and compensation modules.

Field of application

Ideally suitable for the use in laboratory technology and assembly automation.

Advantages - Your benefits

High productivity through fast manual gripper change, especially with small and medium-sized lot sizes

Flat and weight-optimized through direct assembly of the gripper onto the change system without adapter plate

Series with five unit sizes for optimal size selection and a broad application range

Integrated pneumatic feed-through for safe energy supply of grippers

ISO mounting pattern for easy assembly to most types of robots without needing additional adapter plates











Functional description

The compact change system (CWS) consists of a change head (CWK) and a change adapter (CWA).

A form-fit connection is established between the CWK and the CWA with two clamping jaws connected via a threaded spindle. The gripper is safely supplied with pneumatic power by up to four integrated pneumatic feed-throughs.



- Housing
 is weight-optimized due to the use of high-strength
 aluminum alloy
- ② Air feed-through no interfering contour, as integrated in the housing
- ③ Clamping jaw for a form-fit safe hold
- Orive spindle for manually locking and unlocking the change system

General notes about the series

Actuation: manually via Allen key, provided by the customer

Operating principle: by turning the threaded spindle, the clamping jaws are clamped or unclamped

Energy transmission: Integrated pneumatic feed-through

Housing: The housing consists of high-strength, hard-coated aluminum alloy. The functional components are made of hardened steel.

Scope of delivery: Centering sleeves for mounting and direct connection

Warranty: 24 months

Harsh environmental conditions: Please note that use under harsh environmental conditions (e.g. in the coolant area, cast and grinding dust) can considerably reduce the service life of the units, and we will not take over any warranty. However, in many cases we can find a solution. Please contact us for assistance.

Handling weight: is the weight of the total load attached to the flange. When designing, the permissible forces and moments have to be paid attention to. Please note that exceeding the recommended handling weight will shorten the lifespan.

Application example

Flexible assembly unit for various product versions. Easy and quick tool change using a quick-change-system.

- Compact change system CWS
- 2 2-finger parallel gripper PGN-plus
- 3 Linear module LM



SCHUNK offers more ...

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





Rotary feed-through



Anti-collision and overload protection sensor



Tolerance compensation unit



Universal gripper

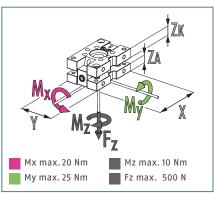


Angular gripper

① For more information on these products can be found on the following product pages or at schunk.com.

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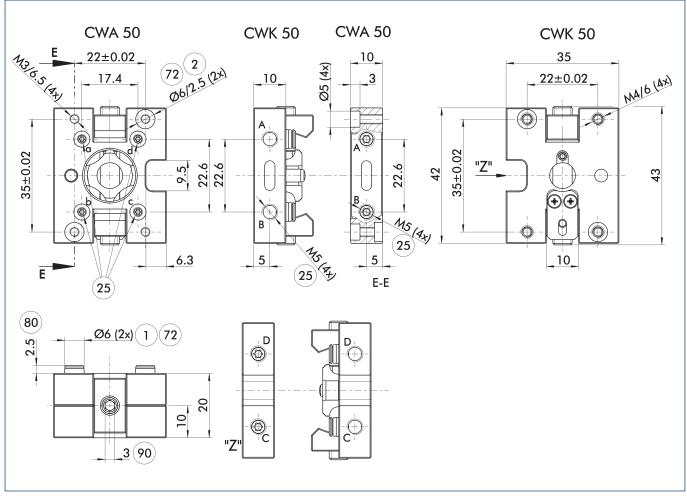
Dimensions and maximum loads



This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

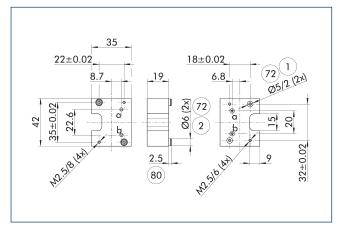
Description		CWK-050-P	CWA-050-P
		Compact change master	Compact change adapter
ID		0305750	0305751
Recommended handling weight	[kg]	10	10
Repeat accuracy	[mm]	0.01	0.01
Weight	[kg]	0.05	0.02
Number of pneumatic feed-throughs		4	4
Min./max. ambient temperature	[°C]	5/60	5/60
Direct connection to*			PGN-plus 50
Dimensions X x Y x Z**	[mm]	42 x 35 x 10	42 x 35 x 10

- $\ensuremath{^{*}}$ also suitable for other grippers with the same screw connection diagram
- ** Please note that the heights of the change master (ZK) and change adapter (ZA) differ. The sum represents the total height of a coupled change system.



- 1 Robot-side connection
- 2 Tool-side connection
- 25 Pneumatic feed-throughs
- $\begin{picture}(200,0) \put(0,0){\line(0,0){100}} \put(0,0){\line(0,0){10$
- 80 Depth of the centering sleeve hole in the counter part
- 90 Wrench size

Adapter plate for PGN-plus 40

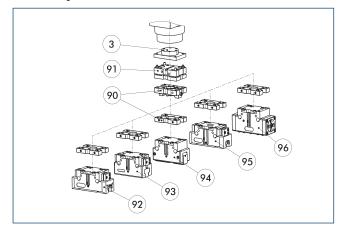


- 1 Robot-side connection
- 2 Tool-side connection
- 72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

The adapter plate has integrated air feed-throughs in order to be able to use the hose-free direct connection of the appropriate gripper.

Description	ID
Tool side	
A-CWA-050-040-P	0305754

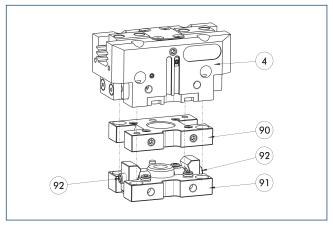
Modular system



- 3 Adapter plate
- (90) Compact change system CWS
- (91) Tolerance compensation unit TCU
- 92 2-finger parallel gripper PGN-plus
- (93) JGP 2-finger parallel grippers
- 94) 2-finger angular gripper PWG-plus
- 95) 2-finger parallel gripper PGB
- 96 Sealed DPG-plus gripper

The unit is part of a modular system in which various components such as grippers or compliant devices can be threaded to one another directly.

Compact change system for grippers



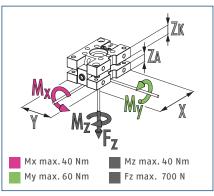
- (4) Grippers
- 91) CWK compact change master
- 90 CWA compact change adapter
- 92 Locking mechanism

Grippers can be directly mounted without an adapter plate. For details see our catalog Gripping or Robot Accessories.

Description	ID
Tool side	
A-CWA-050-040-P	0305754
CWK compact change	master
CWK-050-P	0305750

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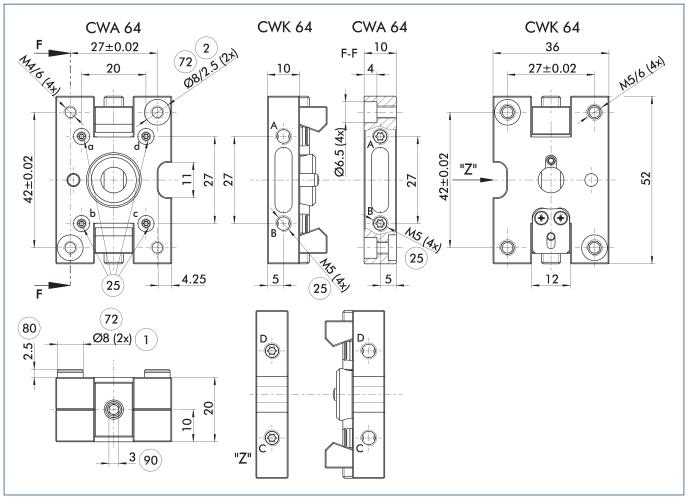
Dimensions and maximum loads



This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

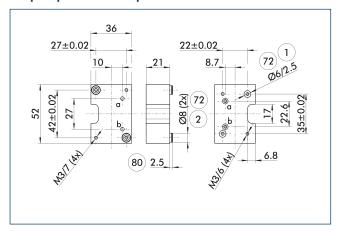
Description		CWK-064-P	CWA-064-P
		Compact change master	Compact change adapter
ID		0305764	0305765
Recommended handling weight	[kg]	16	16
Repeat accuracy	[mm]	0.01	0.01
Weight	[kg]	0.075	0.032
Number of pneumatic feed-throughs		4	4
Min./max. ambient temperature	[°C]	5/60	5/60
Direct connection to*			PGN-plus 64
Dimensions X x Y x Z**	[mm]	52 x 36 x 10	52 x 36 x 10

- $\ensuremath{^{*}}$ also suitable for other grippers with the same screw connection diagram
- ** Please note that the heights of the change master (ZK) and change adapter (ZA) differ. The sum represents the total height of a coupled change system.



- 1 Robot-side connection
- 2 Tool-side connection
- 25 Pneumatic feed-throughs
- $\begin{picture}(200,0) \put(0,0){\line(0,0){100}} \put(0,0){\line(0,0){10$
- 80 Depth of the centering sleeve hole in the counter part
- 90 Wrench size

Adapter plate for PGN-plus 50

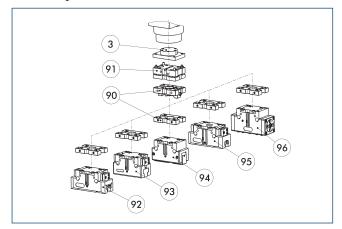


- 1 Robot-side connection
- 2 Tool-side connection
- 72 Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

The adapter plate has integrated air feed-throughs in order to be able to use the hose-free direct connection of the appropriate gripper.

Description	ID
Tool side	
A-CWA-064-050-P	0305768

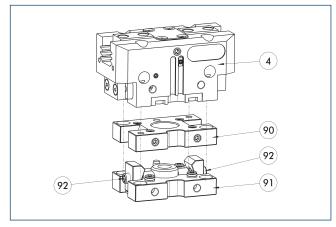
Modular system



- 3 Adapter plate
- (90) Compact change system CWS
- (91) Tolerance compensation unit TCU
- 92 2-finger parallel gripper PGN-plus
- (93) JGP 2-finger parallel grippers
- 94) 2-finger angular gripper PWG-plus
- 95 2-finger parallel gripper PGB
- 96 Sealed DPG-plus gripper

The unit is part of a modular system in which various components such as grippers or compliant devices can be threaded to one another directly.

Compact change system for grippers



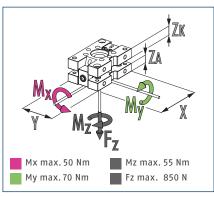
- (4) Grippers
- (91) CWK compact change master
- 90 CWA compact change adapter
- 92 Locking mechanism

Grippers can be directly mounted without an adapter plate. For details see our catalog Gripping or Robot Accessories.

Description	ID
Tool side	
A-CWA-064-050-P	0305768
CWK compact change	master
CWK-064-P	0305764

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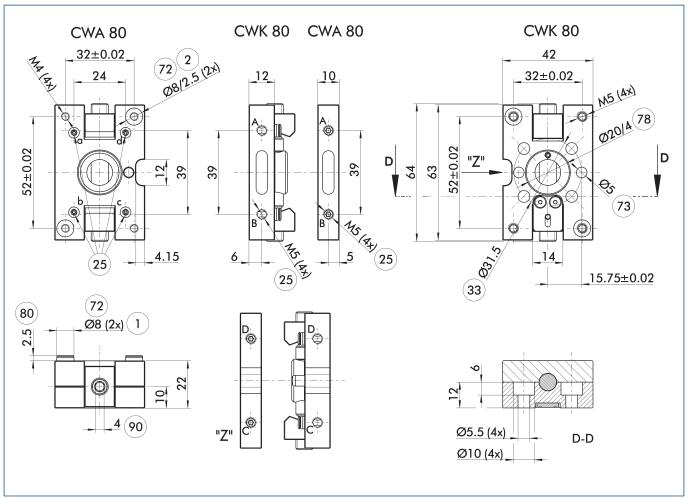
Dimensions and maximum loads



This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

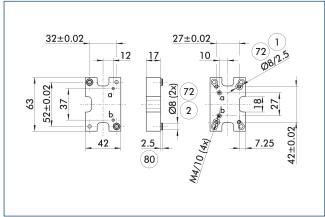
Description		CWK-080-P	CWA-080-P
		Compact change master	Compact change adapter
ID		0305780	0305781
Recommended handling weight	[kg]	20	20
Repeat accuracy	[mm]	0.01	0.01
Weight	[kg]	0.115	0.045
Number of pneumatic feed-throughs		4	4
Min./max. ambient temperature	[°C]	5/60	5/60
Direct connection to*			PGN-plus 80
Dimensions X x Y x Z**	[mm]	63 x 42 x 12	63 x 42 x 10

- * also suitable for other grippers with the same screw connection diagram
- ** Please note that the heights of the change master (ZK) and change adapter (ZA) differ. The sum represents the total height of a coupled change system.



- 1 Robot-side connection
- 2 Tool-side connection
- 25 Pneumatic feed-throughs
- 33 DIN ISO-9409 bolt circle
- (72) Fit for centering sleeves
- (73) Fit for centering pins
- 78 Fit for centering
- 80 Depth of the centering sleeve hole in the counter part
- 90 Wrench size

Adapter plate for PGN-plus 64



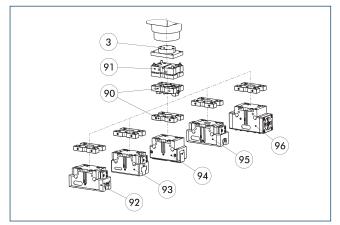
- 1 Robot-side connection
- (2) Tool-side connection
- 72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

The adapter plate has integrated air feed-throughs in order to be able to use the hose-free direct connection of the appropriate gripper.

Description	ID
Tool side	
A-CWA-080-064-P	0305784

- - see our catalog Gripping or Robot Accessories.

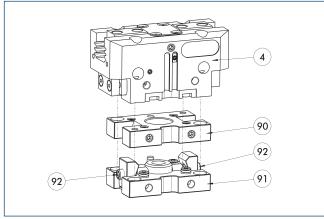
Description	ID
Tool side	
A-CWA-080-064-P	0305784
CWK compact change	master
CWK-080-P	0305780



- 3 Adapter plate
- 90 Compact change system CWS
- Tolerance compensation unit 91 TCU
- 92 2-finger parallel gripper PGN-plus
- (93) JGP 2-finger parallel grippers
- 94 2-finger angular gripper PWG-plus
- 95 2-finger parallel gripper PGB
- 96 Sealed DPG-plus gripper

The unit is part of a modular system in which various components such as grippers or compliant devices can be threaded to one another directly.

Compact change system for grippers

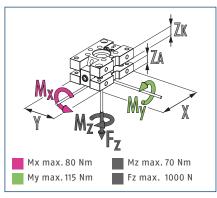


- (4) Grippers
- (91) CWK compact change master
- 90 CWA compact change adapter
- 92 Locking mechanism

Grippers can be directly mounted without an adapter plate. For details

Modul	ar s	svsto	em

Dimensions and maximum loads

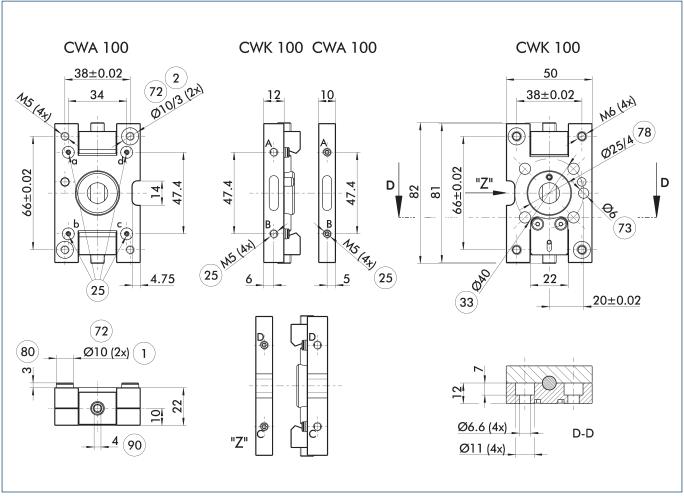


This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

Description		CWK-100-P	CWA-100-P
		Compact change master	Compact change adapter
ID		0305800	0305801
Recommended handling weight	[kg]	24	24
Repeat accuracy	[mm]	0.01	0.01
Weight	[kg]	0.185	0.07
Number of pneumatic feed-throughs		4	4
Min./max. ambient temperature	[°C]	5/60	5/60
Direct connection to*			PGN-plus 100
Dimensions X x Y x Z**	[mm]	81 x 50 x 12	81 x 50 x 10

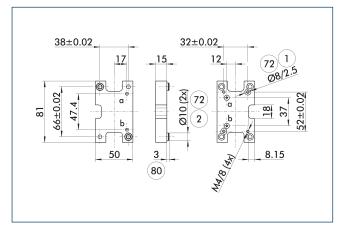
^{*} also suitable for other grippers with the same screw connection diagram

^{**} Please note that the heights of the change master (ZK) and change adapter (ZA) differ. The sum represents the total height of a coupled change system.



- 1 Robot-side connection
- 2 Tool-side connection
- 25 Pneumatic feed-throughs
- 33 DIN ISO-9409 bolt circle
- 72) Fit for centering sleeves
- 73 Fit for centering pins
- 78 Fit for centering
- 80 Depth of the centering sleeve hole in the counter part
- 90 Wrench size

Adapter plate PGN-plus 80

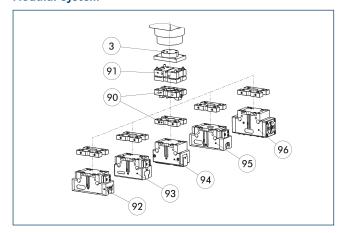


- 1 Robot-side connection
- (2) Tool-side connection
- 72 Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

The adapter plate has integrated air feed-throughs in order to be able to use the hose-free direct connection of the appropriate gripper.

Description	ID
Tool side	
A-CWA-100-080-P	0305804

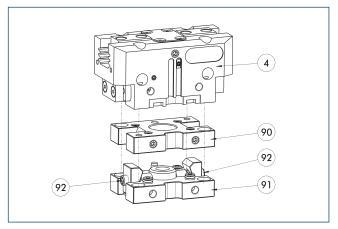
Modular system



- 3 Adapter plate
- (90) Compact change system CWS
- (91) Tolerance compensation unit TCU
- 92 2-finger parallel gripper PGN-plus
- (93) JGP 2-finger parallel grippers
- 94) 2-finger angular gripper PWG-plus
- 95 2-finger parallel gripper PGB
- 96 Sealed DPG-plus gripper

The unit is part of a modular system in which various components such as grippers or compliant devices can be threaded to one another directly.

Compact change system for grippers



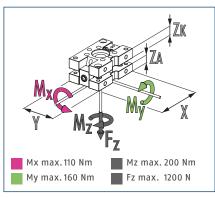
- (4) Grippers
- (91) CWK compact change master
- 90 CWA compact change adapter
- 92 Locking mechanism

Grippers can be directly mounted without an adapter plate. For details see our catalog Gripping or Robot Accessories.

Description	ID		
Tool side			
A-CWA-100-080-P	0305804		
CWK compact change master			
CWK-100-P	0305800		

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Dimensions and maximum loads

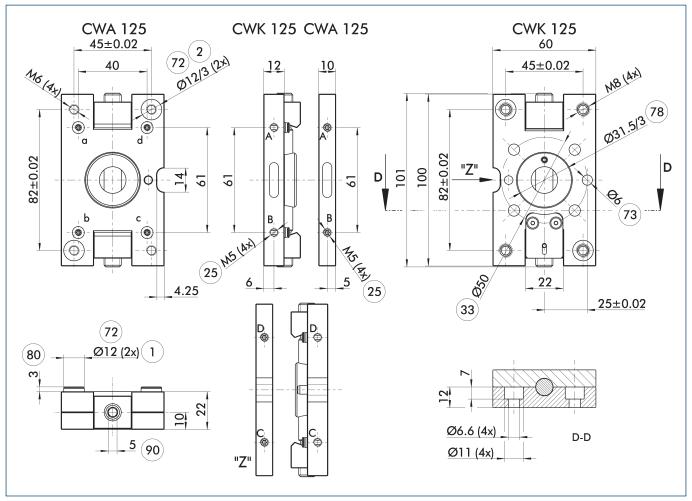


This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

Description		CWK-125-P	CWA-125-P
		Compact change master	Compact change adapter
ID		0305825	0305826
Recommended handling weight	[kg]	28	28
Repeat accuracy	[mm]	0.01	0.01
Weight	[kg]	0.32	0.125
Number of pneumatic feed-throughs		4	4
Min./max. ambient temperature	[°C]	5/60	5/60
Direct connection to*			PGN-plus 125
Dimensions X x Y x Z**	[mm]	100 x 60 x 12	100 x 60 x 10

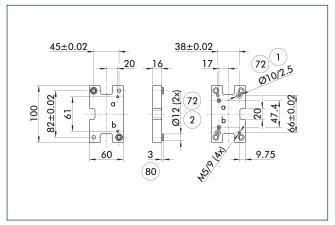
^{*} also suitable for other grippers with the same screw connection diagram

^{**} Please note that the heights of the change master (ZK) and change adapter (ZA) differ. The sum represents the total height of a coupled change system.



- 1 Robot-side connection
- 2 Tool-side connection
- 25 Pneumatic feed-throughs
- 33 DIN ISO-9409 bolt circle
- 72) Fit for centering sleeves
- 73 Fit for centering pins
- 78 Fit for centering
- 80 Depth of the centering sleeve hole in the counter part
- 90 Wrench size

Adapter plate for PGN-plus 100

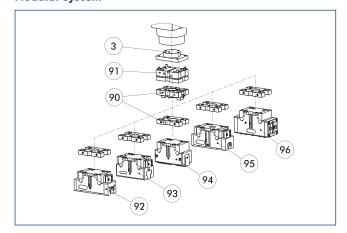


- 1 Robot-side connection
- (2) Tool-side connection
- 72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

The adapter plate has integrated air feed-throughs in order to be able to use the hose-free direct connection of the appropriate gripper.

Description	ID
Tool side	,
A-CWA-125-100-P	0305829

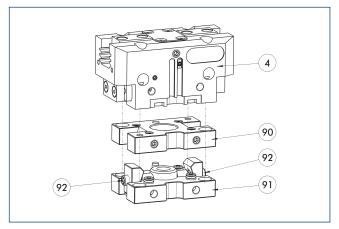
Modular system



- 3 Adapter plate
- (90) Compact change system CWS
- (91) Tolerance compensation unit TCU
- 92 2-finger parallel gripper PGN-plus
- (93) JGP 2-finger parallel grippers
- 94) 2-finger angular gripper PWG-plus
- 95 2-finger parallel gripper PGB
- 96 Sealed DPG-plus gripper

The unit is part of a modular system in which various components such as grippers or compliant devices can be threaded to one another directly.

Compact change system for grippers



- (4) Grippers
- (91) CWK compact change master
- © CWA compact change adapter
- 92 Locking mechanism

Grippers can be directly mounted without an adapter plate. For details see our catalog Gripping or Robot Accessories.

Description	ID		
Tool side			
A-CWA-125-100-P	0305829		
CWK compact change master			
CWK-125-P	0305825		



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