



Hand in hand for tomorrow

Product data sheet

Tolerance compensation unit TCU-P

Compact. Flexible. Productive. Tolerance compensation unit TCU-P

For compensation of small locational and positional deviations with mounting and handling applications

Field of application

for universal use in clean and slightly dirty environments, particularly in the fields of assembly automation and tool machine loading



Advantages – Your benefits

Compensation of workpiece-related tolerances and position inaccuracies reduced risk of jamming, necessary assembly forces are reduced and wear of the workpiece and handling device is minimized

Direct assembly of parallel grippers no need for additional adapter plates

Compact design low height and weight

Pneumatic locking long life time of the elastomers, rigid unit during travel

Monitoring of locking for process reliable sequences and shorter cycle times







Functional description

The function of the tolerance compensation unit (TCU) is based on interaction between the two base plates, which are connected to each other with a set of flexible elastomer elements. As a result, the TCU can compensate tolerances around the X, Y, and Z axes, allowing it to correct angular errors, and causing a rotational compensation. A pneumatic locking is also available as an option to allow the compensation unit to be set to rigid. As a result, it is possible to prevent the tool or the gripper vibrating during movement of the robot arm or the linear axis. This increases the application's repeat accuracy and extends the service life of the elastomer elements.



① Elastomer

allows compensation movement

② Locking mechanism

for a rigid connection between the machine and tool sides

- ③ **Overload pin** to protect the elastomers
- (4) **Interface machine side** the same mounting pattern as on the tool side
- Monitoring groove for electronic magnetic switch

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General notes about the series

Monitoring: by magnetic switch

Actuation: pneumatic, with filtered compressed air as per ISO 8573-1:2010 [7:4:4].

Material: Elastomer material

Housing: Aluminum alloy

Scope of delivery: Robot-side mounting screws

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

In applications where several grippers are used, the tolerance variations of the workpieces are compensated by the tolerance compensation units. The application is also monitored by a collision sensor.

- **1** Tolerance compensation unit TCU
- 2 Collision sensor OPS
- 2-finger parallel gripper JGP with workpiece-specific gripper fingers



SCHUNK offers more ...

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





Angular gripper

U

Universal gripper



Anti-collision and overload protection sensor



Pressure maintenance valve



Magnetic switches

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

Options and special information

Monitoring of the locking: by magnetic switch

Connections: two plug-in connections for hose

Ambient temperature: -10 °C to 90 °C

Operating pressure: from 4 bar up to 8 bar

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.

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Dimensions and maximum loads



The forces and torques are maximum values when unlocked and may occur simultaneously. When locked, only the loads caused by the weight and acceleration are permissible.

Technical data

Description		TCU-P-050-3-0V
ID		0324757
Locking		Without locking
Hardness of the elastomer	[Shore]	68
Deflection X	[°]	±1
Deflection Y	[°]	±1
Deflection Z	[°]	±1.5
Weight	[kg]	0.1
Min./max. ambient temperature	[°C]	-10/90
Max. force Fd	[N]	500
Direct connection to*		PGN-plus 50
Dimensions X x Y x Z	[mm]	30 x 42 x 18.6

Main view without centric locking (0V)



- 2 Tool-side connection
- $\overline{(5)}$ Through hole for connection with screws
- delivery
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

Maximum deflection





Tolerance compensation unit

Adapter plate for PGN-plus 40



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



- **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.





Load chart



Dimensions and maximum loads



The forces and torques are maximum values when unlocked and may occur simultaneously. When locked, only the loads caused by the weight and acceleration are permissible.

Technical data

Description		TCU-P-064-3-MV	TCU-P-064-3-0V
ID		0324774	0324775
Locking		with locking	Without locking
Hardness of the elastomer	[Shore]	68	68
Deflection X	[°]	±1	±1
Deflection Y	[°]	±1.5	±1.5
Deflection Z	[°]	±2	±2
Repeat accuracy	[mm]	0.1	
Weight	[kg]	0.1	0.08
Min./max. operating pressure	[bar]	4/8	
Min./max. ambient temperature	[°C]	-10/90	-10/90
Locking moment Mx	[Nm]	1	
Locking moment My	[Nm]	0.8	
Locking moment Mz	[Nm]	2	
Locking force Fz	[N]	30	
Max. force Fd	[N]	1100	1100
Direct connection to*		PGN-plus 64	PGN-plus 64
Dimensions X x Y x Z	[mm]	36 x 52 x 22.2	36 x 52 x 19.5

Main view with centric locking (MV)



The main view shows the unit in its basic version.

- A, a Air connection unlocked
- B, b Air connection locked
- $\underbrace{1}_{i}$ Robot-side connection
- (2) Tool-side connection
 (5) Through hole for connection with screws
- (56) Included in the scope of delivery
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve
- hole in the counter part
- 90 Unit locked
- 91) Unit unlocked
- 92 MMS-P

Maximum deflection





TCU-P 064

Tolerance compensation unit

Version without locking (OV)



Dimensional changes for the version without locking

Adapter plate for PGN-plus 50



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 gripperPGN-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.

Sensor system



(28) Limit stop for sensor

(90) Monitoring of locking

Position monitoring with two programmable positions per sensor. End position monitoring for mounting in the C-slot.

Description	ID	Often combined			
Programmable magnetic switch					
MMSK-P 22-S-PNP	0301371				
MMS-P 22-S-M8-PNP	0301370	•			
Connection cables					
KA GLN0804-LK-00500-A	0307767	•			
KA GLN0804-LK-01000-A	0307768				
KA WLN0804-LK-00500-A	0307765				
KA WLN0804-LK-01000-A	0307766				
Clip for connector/socket					
CLI-M8	0301463				
Sensor distributor					
V2-M8-4P-2XM8-3P	0301380				

One sensor is required per unit for monitoring two positions.
 Extension cables and sensor distributors are optionally available.
 Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

Tolerance compensation unit



Load chart



Dimensions and maximum loads



The forces and torques are maximum values when unlocked and may occur simultaneously. When locked, only the loads caused by the weight and acceleration are permissible.

Technical data

Description		TCU-P-080-3-MV	TCU-P-080-3-0V
ID		0324792	0324793
Locking		with locking	Without locking
Hardness of the elastomer	[Shore]	68	68
Deflection X	[°]	±1	±1
Deflection Y	[°]	±1.5	±1.5
Deflection Z	[°]	±2	±2
Repeat accuracy	[mm]	0.1	
Weight	[kg]	0.15	0.1
Min./max. operating pressure	[bar]	4/8	
Min./max. ambient temperature	[°C]	-10/90	-10/90
Locking moment Mx	[Nm]	4	
Locking moment My	[Nm]	3	
Locking moment Mz	[Nm]	6	
Locking force Fz	[N]	70	
Max. force Fd	[N]	1500	1500
Direct connection to*		PGN-plus 80	PGN-plus 80
Dimensions X x Y x Z	[mm]	42 x 63 x 24.1	42 x 63 x 19.6

Main view with centric locking (MV)



The main view shows the unit in its basic version.

- A, a Air connection unlocked
- B, b Air connection locked
- $\underbrace{1}_{O}$ Robot-side connection
- (2) Tool-side connection
 (5) Through hole for connection with screws
- (56) Included in the scope of delivery
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve
- hole in the counter part
- 90 Unit locked
- (91) Unit unlocked
- 92 MMS-P

Maximum deflection





TCU-P 080

Tolerance compensation unit

Version without locking (OV)



Dimensional changes for the version without locking

Adapter plate for PGN-plus 64



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	

Modular system



3 Adapter plate

- (90) Compact change system CWS
- (91) Tolerance compensation unit
- (92) 2-finger parallel gripperPGN-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.

Sensor system



(28) Limit stop for sensor

(90) Monitoring of locking

Position monitoring with two programmable positions per sensor. End position monitoring for mounting in the C-slot.

Description	ID	Often combined				
Programmable magnetic switch						
MMSK-P 22-S-PNP	0301371					
MMS-P 22-S-M8-PNP	0301370	•				
Connection cables						
KA GLN0804-LK-00500-A	0307767	•				
KA GLN0804-LK-01000-A	0307768					
KA WLN0804-LK-00500-A	0307765					
KA WLN0804-LK-01000-A	0307766					
Clip for connector/socket						
CLI-M8	0301463					
Sensor distributor						
V2-M8-4P-2XM8-3P	0301380					

One sensor is required per unit for monitoring two positions.
 Extension cables and sensor distributors are optionally available.
 Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

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Tolerance compensation unit



Load chart



Dimensions and maximum loads



The forces and torques are maximum values when unlocked and may occur simultaneously. When locked, only the loads caused by the weight and acceleration are permissible.

Technical data

Description		TCU-P-100-2-MV	TCU-P-100-3-0V
ID		0324808	0324811
Locking		with locking	Without locking
Hardness of the elastomer	[Shore]	68	68
Deflection X	[°]	±1	±1
Deflection Y	[°]	±1.5	±1.5
Deflection Z	[°]	±1.2	±1.2
Repeat accuracy	[mm]	0.05	
Weight	[kg]	0.27	0.22
Min./max. operating pressure	[bar]	4/8	
Min./max. ambient temperature	[°C]	-10/90	-10/90
Locking moment Mx	[Nm]	15	
Locking moment My	[Nm]	8	
Locking moment Mz	[Nm]	25	
Locking force Fz	[N]	200	
Max. force Fd	[N]	2000	2000
Direct connection to*		PGN-plus 100	PGN-plus 100
Dimensions X x Y x Z	[mm]	50 x 81 x 25.3	50 x 81 x 22.6

Main view with centric locking (MV)



The main view shows the unit in its basic version.

- A, a Air connection unlocked
- B, b Air connection locked
- $\underbrace{1}_{O}$ Robot-side connection
- (2) Tool-side connection
 (5) Through hole for connection with screws
- (56) Included in the scope of delivery
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve
- hole in the counter part
- 90 Unit locked
- 91) Unit unlocked
- 92 MMS-P

Maximum deflection





TCU-P 100

Tolerance compensation unit

Version without locking (OV)



Dimensional changes for the version without locking

Adapter plate PGN-plus 80



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
- (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.

Sensor system



(28) Limit stop for sensor

(90) Monitoring of locking

Position monitoring with two programmable positions per sensor. End position monitoring for mounting in the C-slot.

Description	ID	Often combined			
Programmable magnetic switch					
MMSK-P 22-S-PNP	0301371				
MMS-P 22-S-M8-PNP	0301370	•			
Connection cables					
KA GLN0804-LK-00500-A	0307767	•			
KA GLN0804-LK-01000-A	0307768				
KA WLN0804-LK-00500-A	0307765				
KA WLN0804-LK-01000-A	0307766				
Clip for connector/socket					
CLI-M8	0301463				
Sensor distributor					
V2-M8-4P-2XM8-3P	0301380				

One sensor is required per unit for monitoring two positions.
 Extension cables and sensor distributors are optionally available.
 Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

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Load chart



Dimensions and maximum loads



The forces and torques are maximum values when unlocked and may occur simultaneously. When locked, only the loads caused by the weight and acceleration are permissible.

Technical data

Description		TCU-P-125-3-MV	TCU-P-125-3-0V
ID		0324828	0324829
Locking		with locking	Without locking
Hardness of the elastomer	[Shore]	68	68
Deflection X	[°]	±1	±1
Deflection Y	[°]	±1.5	±1.5
Deflection Z	[°]	±1.5	±1.5
Repeat accuracy	[mm]	0.05	
Weight	[kg]	0.4	0.3
Min./max. operating pressure	[bar]	4/8	
Min./max. ambient temperature	[°C]	-10/90	-10/90
Locking moment Mx	[Nm]	25	
Locking moment My	[Nm]	10	
Locking moment Mz	[Nm]	40	
Locking force Fz	[N]	300	
Max. force Fd	[N]	2800	2800
Direct connection to*		PGN-plus 125	PGN-plus 125
Dimensions X x Y x Z	[mm]	60 x 100 x 28.3	60 x 100 x 23.6

Main view with centric locking (MV)



The main view shows the unit in its basic version.

- A, a Air connection unlocked
- B, b Air connection locked
- $\underbrace{1}$ Robot-side connection
- (2) Tool-side connection
 (5) Through hole for connection with screws
- (56) Included in the scope of delivery
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve
- hole in the counter part
- 90 Unit locked
- (91) Unit unlocked
- 92 MMS-P

Maximum deflection





TCU-P 125

Tolerance compensation unit

Version without locking (OV)



Dimensional changes for the version without locking

Adapter plate for PGN-plus 100



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
- (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.

Sensor system



(28) Limit stop for sensor

(90) Monitoring of locking

Position monitoring with two programmable positions per sensor. End position monitoring for mounting in the C-slot.

Description	ID	Often combined			
Programmable magnetic switch					
MMSK-P 22-S-PNP	0301371				
MMS-P 22-S-M8-PNP	0301370	•			
Connection cables	Connection cables				
KA GLN0804-LK-00500-A	0307767	•			
KA GLN0804-LK-01000-A	0307768				
KA WLN0804-LK-00500-A	0307765				
KA WLN0804-LK-01000-A	0307766				
Clip for connector/socket					
CLI-M8	0301463				
Sensor distributor					
V2-M8-4P-2XM8-3P	0301380				

One sensor is required per unit for monitoring two positions.
 Extension cables and sensor distributors are optionally available.
 Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

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Load chart



Dimensions and maximum loads



The forces and torques are maximum values when unlocked and may occur simultaneously. When locked, only the loads caused by the weight and acceleration are permissible.

Technical data

Description		TCU-P-160-3-MV	TCU-P-160-3-0V
ID		0324846	0324847
Locking		with locking	Without locking
Hardness of the elastomer	[Shore]	68	68
Deflection X	[°]	±1	±1
Deflection Y	[°]	±2	±2
Deflection Z	[°]	±1.5	±1.5
Repeat accuracy	[mm]	0.02	
Weight	[kg]	0.7	0.55
Min./max. operating pressure	[bar]	4/8	
Min./max. ambient temperature	[°C]	-10/90	-10/90
Locking moment Mx	[Nm]	30	
Locking moment My	[Nm]	18	
Locking moment Mz	[Nm]	50	
Locking force Fz	[N]	400	
Max. force Fd	[N]	4300	4300
Direct connection to*		PGN-plus 160	PGN-plus 160
Dimensions X x Y x Z	[mm]	72 x 125 x 32.9	72 x 125 x 32.4

Main view with centric locking (MV)



The main view shows the unit in its basic version.

A, a Air connection unlocked

- B, b Air connection locked
- 1 Robot-side connection
- (2) Tool-side connection
 (5) Through hole for connection with screws
- (56) Included in the scope of delivery
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve
- hole in the counter part
- 90 Unit locked91 Unit unlocked
- (92) MMS-P

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TCU-P 160

Tolerance compensation unit

Version without locking (OV)



Dimensional changes for the version without locking

Modular system



- (90) Compact change system CWS
- (91) Tolerance compensation unit TCU
- (92) 2-finger parallel gripper PGN-plus
- (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.

Sensor system



(28) Limit stop for sensor

(90) Monitoring of locking

Position monitoring with two programmable positions per sensor. End position monitoring for mounting in the C-slot.

Description	ID	Often combined			
Programmable magnetic switch					
MMSK-P 22-S-PNP	0301371				
MMS-P 22-S-M8-PNP	0301370	•			
Connection cables	Connection cables				
KA GLN0804-LK-00500-A	0307767	•			
KA GLN0804-LK-01000-A	0307768				
KA WLN0804-LK-00500-A	0307765				
KA WLN0804-LK-01000-A	0307766				
Clip for connector/socket					
CLI-M8	0301463				
Sensor distributor					
V2-M8-4P-2XM8-3P	0301380				

One sensor is required per unit for monitoring two positions.
 Extension cables and sensor distributors are optionally available.
 Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

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Load chart



Dimensions and maximum loads



The forces and torques are maximum values when unlocked and may occur simultaneously. When locked, only the loads caused by the weight and acceleration are permissible.

Technical data

Description		TCU-P-200-3-MV	TCU-P-200-3-0V
ID		0324864	0324865
Locking		with locking	Without locking
Hardness of the elastomer	[Shore]	68	68
Deflection X	[°]	±1	±1
Deflection Y	[°]	±2	±2
Deflection Z	[°]	±1.5	±1.5
Repeat accuracy	[mm]	0.02	
Weight	[kg]	1.3	1
Min./max. operating pressure	[bar]	4/8	
Min./max. ambient temperature	[°C]	-10/90	-10/90
Locking moment Mx	[Nm]	50	
Locking moment My	[Nm]	25	
Locking moment Mz	[Nm]	75	
Locking force Fz	[N]	700	
Max. force Fd	[N]	5000	5000
Direct connection to*		PGN-plus 200	PGN-plus 200
Dimensions X x Y x Z	[mm]	100 x 154 x 36.2	100 x 154 x 34.9

Main view with centric locking (MV)



The main view shows the unit in its basic version.

A, a Air connection unlocked

- B, b Air connection locked
- $\underbrace{1}_{O}$ Robot-side connection
- (2) Tool-side connection
 (5) Through hole for connection with screws
- (56) Included in the scope of delivery
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve
- hole in the counter part
- 90 Unit locked
- (91) Unit unlocked
- 92 MMS-P

Maximum deflection





TCU-P 200

Tolerance compensation unit

Version without locking (OV)



Dimensional changes for the version without locking

Modular system



- (90) Compact change system CWS (91) Tolerance compensation unit
- TCU
- (92) 2-finger parallel gripper PGN-plus
- (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.

Sensor system



(28) Limit stop for sensor

(90) Monitoring of locking

Position monitoring with two programmable positions per sensor. End position monitoring for mounting in the C-slot.

Description	ID	Often combined			
Programmable magnetic switch					
MMSK-P 22-S-PNP	0301371				
MMS-P 22-S-M8-PNP	0301370	•			
Connection cables	Connection cables				
KA GLN0804-LK-00500-A	0307767	•			
KA GLN0804-LK-01000-A	0307768				
KA WLN0804-LK-00500-A	0307765				
KA WLN0804-LK-01000-A	0307766				
Clip for connector/socket					
CLI-M8	0301463				
Sensor distributor					
V2-M8-4P-2XM8-3P	0301380				

One sensor is required per unit for monitoring two positions.
 Extension cables and sensor distributors are optionally available.
 Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

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Load chart



Dimensions and maximum loads



The forces and torques are maximum values when unlocked and may occur simultaneously. When locked, only the loads caused by the weight and acceleration are permissible.

Technical data

Description		TCU-P-240-3-MV	TCU-P-240-3-0V
ID		0324730	0324731
Locking		with locking	Without locking
Hardness of the elastomer	[Shore]	68	68
Deflection X	[°]	±1	±1
Deflection Y	[°]	±1.5	±1.5
Deflection Z	[°]	±1	±1
Repeat accuracy	[mm]	0.02	
Weight	[kg]	2.1	1.8
Min./max. operating pressure	[bar]	4/8	
Min./max. ambient temperature	[°C]	-10/90	-10/90
Locking moment Mx	[Nm]	70	
Locking moment My	[Nm]	40	
Locking moment Mz	[Nm]	90	
Locking force Fz	[N]	800	
Max. force Fd	[N]	6200	6200
Direct connection to*		PGN-plus 240	PGN-plus 240
Dimensions X x Y x Z	[mm]	115 x 186 x 40.8	115 x 186 x 42

Main view with centric locking (MV)



The main view shows the unit in its basic version.

A, a Air connection unlocked

- B, b Air connection locked
- 1 Robot-side connection
- (2) Tool-side connection
 (5) Through hole for connection with screws
- (56) Included in the scope of delivery
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve
- hole in the counter part
- 90 Unit locked
- (91) Unit unlocked
- 92 MMS-P

Maximum deflection





TCU-P 240

Tolerance compensation unit

Version without locking (OV)



Dimensional changes for the version without locking

Modular system



- (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.

Sensor system



(28) Limit stop for sensor

(90) Monitoring of locking

Position monitoring with two programmable positions per sensor. End position monitoring for mounting in the C-slot.

Description	ID	Often combined			
Programmable magnetic switch					
MMSK-P 22-S-PNP	0301371				
MMS-P 22-S-M8-PNP	0301370	•			
Connection cables	Connection cables				
KA GLN0804-LK-00500-A	0307767	•			
KA GLN0804-LK-01000-A	0307768				
KA WLN0804-LK-00500-A	0307765				
KA WLN0804-LK-01000-A	0307766				
Clip for connector/socket					
CLI-M8	0301463				
Sensor distributor					
V2-M8-4P-2XM8-3P	0301380				

One sensor is required per unit for monitoring two positions.
 Extension cables and sensor distributors are optionally available.
 Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

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Bahnhofstr. 106 - 134 D-74348 Lauffen/Neckar Tel. +49-7133-103-0 Fax +49-7133-103-2399 info@de.schunk.com schunk.com

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