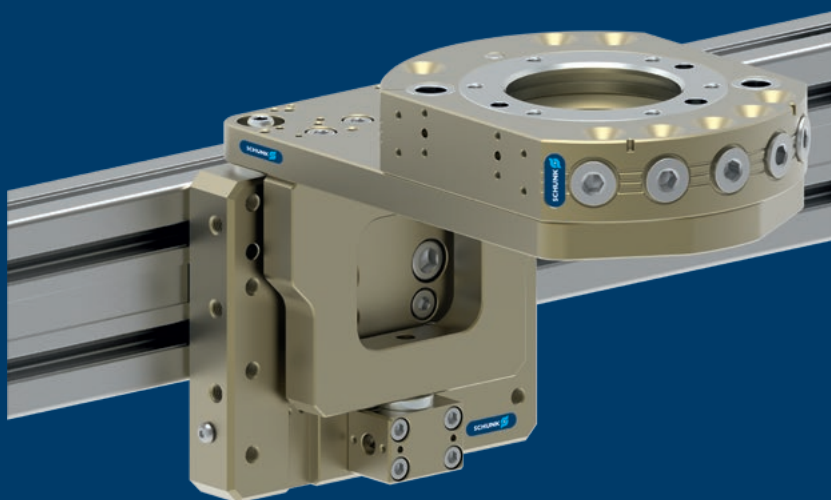




Hand in hand for tomorrow



Product data sheet

Storage module CTS

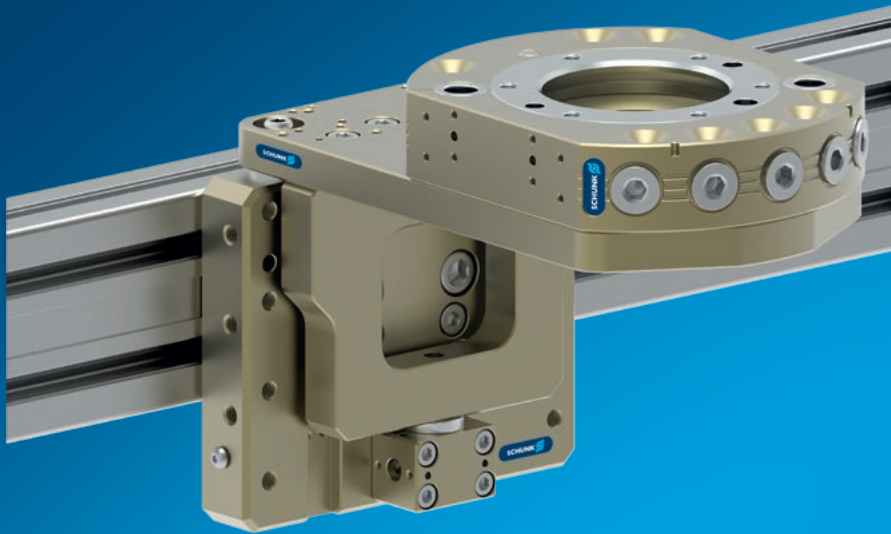
Compact. Reliable. Versatile.

Storage rack

Storage racks for the automatic tool changers CPS and CPB

Field of application

SCHUNK storage systems CTS are optimally adapted to SCHUNK tool changers CPS and CPB and provide stability, flexibility, and a long service life.



Advantages – Your benefits

Compact design for minimal interfering contours on storage station and tool

Comprehensive range of variants for flexible use in various application areas

Standardized adapter plates available for all CPS and CPB sizes

Stainless, hardened contact surfaces for a long service life

Sensor monitoring optionally available

Easy integration in customized solutions

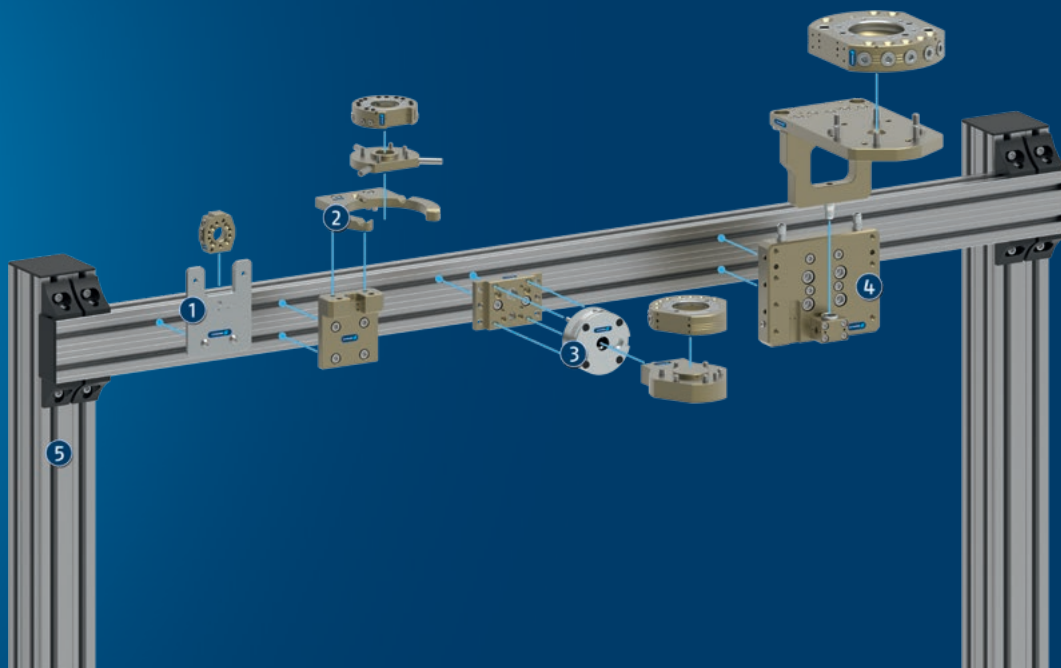


Sizes
Quantity: 10

Functional description

Automatic change of the end effector (e.g. gripper, etc.) increases the flexibility of your robot. In addition to an automatic tool changer (CPS/CPB), a tool storage rack is required for a change operation. For placing a tool, the robot inserts the tool into the storage connecting member of the storage rack. At least one of the four different

storage types is available for all CPS and CPB sizes. This means that the CTS systems can be used both in simple cost-sensitive applications as well as in applications with the greatest requirements and flexibility in the orientation and position of the storage rack.



① **Tool stand CTS T**
Variable horizontal and vertical mounting possible

② **Storage module CTS C**
offers the option of using free pneumatic connections on the CPS-A, alternatively an adapter plate can be used

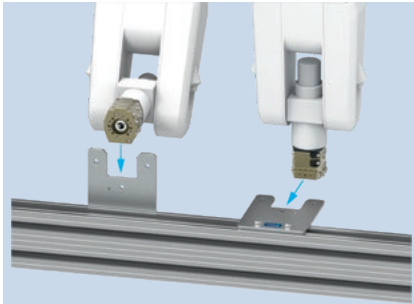
③ **Storage module CTS B**
Compact design, minimal interfering contour and high compatibility between variants

④ **Storage module CTS P**
Precise positioning thanks to 3-point support

⑤ **Aluminum profile**
Can be optimally adapted to customized applications thanks to their combinability

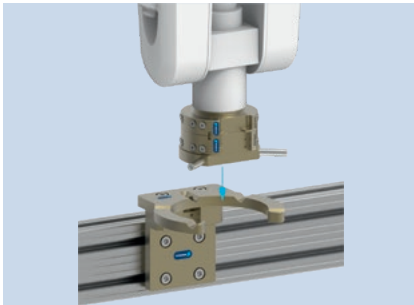
Detailed functional description

Storage process CTS T



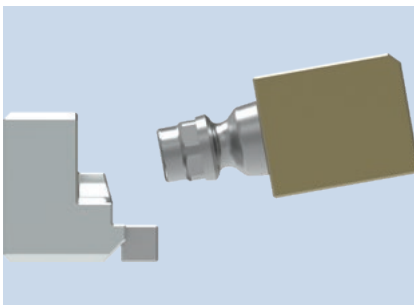
A special feature of the tray storage system is the variable mounting of the metal tray. The tray can be installed horizontally, vertically or laterally on a horizontal profile section. To store the CPS-A in the storage plate, the existing groove in the CPS-A is pushed onto the plate and the CPS-A is held in storage position by means of a locking device.

Storage process CTS C



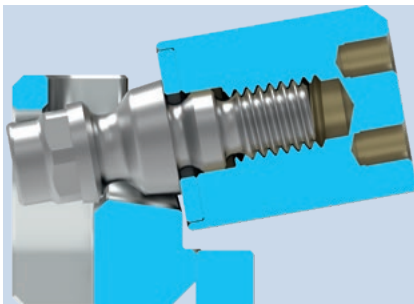
In the bolt storage system, the tool is deposited in the storage system from above. The workpiece stops are positioned in the provided grooves. Position adapters allow up to four tools to be deposited per profile. The extension adapter allows increasing the distance to the profile. This also allows large-sized tools to be deposited. The screw-on pattern of the CPS-A is already integrated into the intermediate plate and is therefore easy to mount.

Storage process CTS B, passive variant – Step 1: Inserting the tool into the storage module



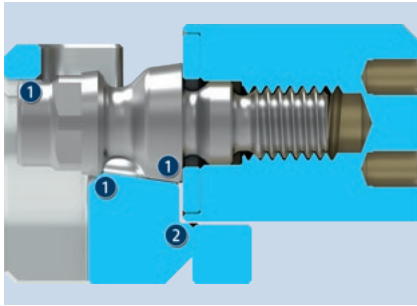
To store the tool in the storage module, the storage system must be approached at an angle of 10°.

Storage process CTS B, passive variant – Step 2: Lowering the tool

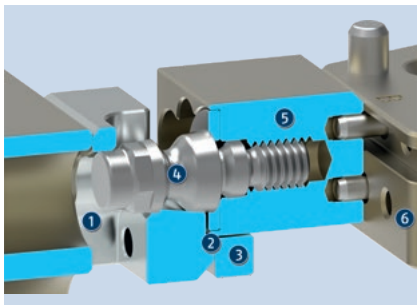


Before the tool is lowered into the horizontal storage position, the bolt must be briefly moved beyond the rear side of the storage module. Therefore, a hole must be provided behind the bore hole on the rear side of the storage module. This hole is already present in the mounting plate that is provided as an accessory.

Storage process CTS B, passive variant – Step 3: Stored tool

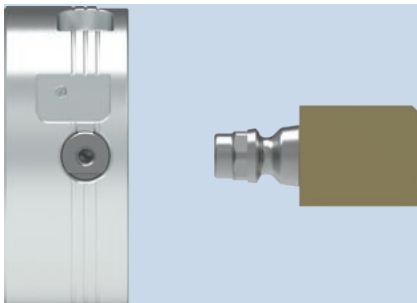


- ❶ When in the stored position, the bolt rests on the storage module at three points.
- ❷ In addition, when the center of gravity of the tool is off-center, the adapter plate also rests on the storage module, thereby preventing it from tipping.



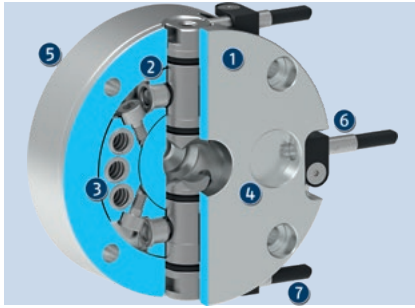
- ❶ Base body made of vacuum-hardened stainless steel for maximum service life
- ❷ Anti-rotation protection for storing tools with a decentralized center of gravity
- ❸ Sensor monitoring optional, for the process-reliable monitoring of tool presence
- ❹ Storage pins hardened for maximum wear resistance
- ❺ Adapter plate for tool change adapter available as intermediate plate or for side mounting (shown here) depending on size
- ❻ Automatic tool changer for a safe, automated tool change

Storage process CTS B, active variant



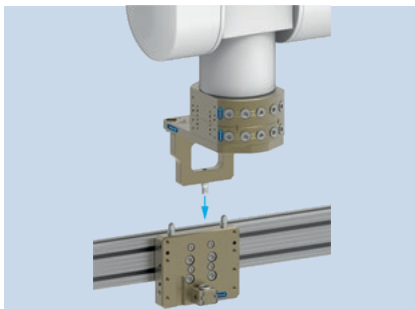
When storing the active variant, the bolt attached to the tool change adapter CPS-A or CPB-A is inserted linearly into the storage module. After the CTS B -V has been locked, the change system can be unlocked, allowing the tool to be stored.

Sectional diagram of function, active variant (with locking)



- ❶ Base body
made of vacuum-hardened
stainless steel for maximum service
life
- ❷ Locking
via pistons with patented rapid
stroke and clamping stroke
- ❸ Piston drive via spring assembly
and pneumatics
Opening by pneumatics, closing by
spring – for secure locking, even in
the event of compressed air failure
- ❹ Anti-rotation protection
for storing tools with a decentra-
lized center of gravity
- ❺ Centering sleeves
for repeatable mounting
- ❻ Monitoring of tool presence
optional, for higher process
reliability
- ❼ Monitoring of locking status
optional, for the positions "storage
module open" and "storage
module locked"

Storage process CTS P



The pin & bushing storage rack offers the option of precisely positioning tools using a 3-point support. Pins and bolts are integrated in the storage module and in the adapter plates for this purpose. The adapter plates for storage are available in horizontal or vertical variants. The horizontal intermediate plate is fitted bottom-sided onto the CPS-A, and the vertical intermediate plate is firmly bolted onto the side using the bolting pattern of the optional modules. The vertical intermediate plates are also available without an integrated drilling pattern for customized solutions.

General notes about the series

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.

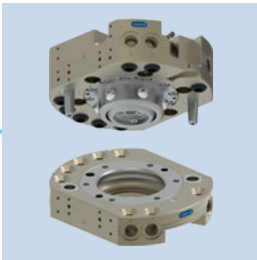
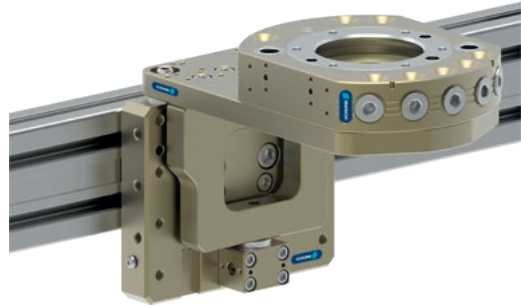


Application example

- ① Automatic tool changers CPS
- ② Optional modules COS
- ③ Modular storage rack CTS
- ④ Universal gripper EGU
- ⑤ 2-finger parallel gripper JGP-P

SCHUNK offers more ...

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



Automatic tool changer



Inductive proximity switch

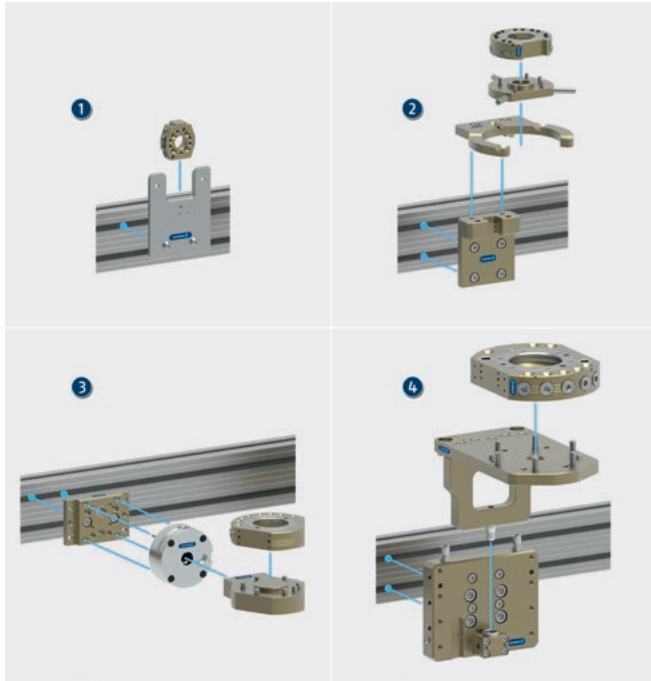


SAS

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

Overview of modular storage systems CTS

SCHUNK storage racks CTS are optimally adapted to SCHUNK tool changers and provide stability, flexibility, and a long service life. The modularity of the storage module, adapter plates, stand profiles, and sensor systems enables the compact assembly of a complete package tailored to customized requirements. If you have already found the right tool changer for your application, you will find an overview of our storage modules for your system on the following page. The matching extruded upright profiles can be found after the storage modules.



- ❶ Tool stand CTS T
- ❷ Storage module CTS C
- ❸ Storage module CTS B
- ❹ Storage module CTS P

	CTS T-001	CTS T-016	CTS C-016	CTS C-025	CTS B-016	CTS B-100	CTS B-300	CTS P-050	CTS P-150	CTS P-500
CPS 001	x									
CPS 007		x			x			x		
CPS 011			x		x					
CPS 020				x		x		x		
CPS 021				x		x		x		
CPS 029						x		x		
CPS 040						x		x		
CPS 041						x		x		
CPS 046						x		x		
CPS 060						x			x	
CPS 071						x			x	
CPS 076						x			x	
CPS 110							x		x	
CPS 160							x			x
CPS 210							x			x
CPS 310										x
CPS 510										

	CTS B-016	CTS B-100	CTS B-300							
CPB 040	x									
CPB 050	x									
CPB 063		x								
CPB 080		x								
CPB 100		x								
CPB 125			x							
CPB 160			x							

CTS T-001

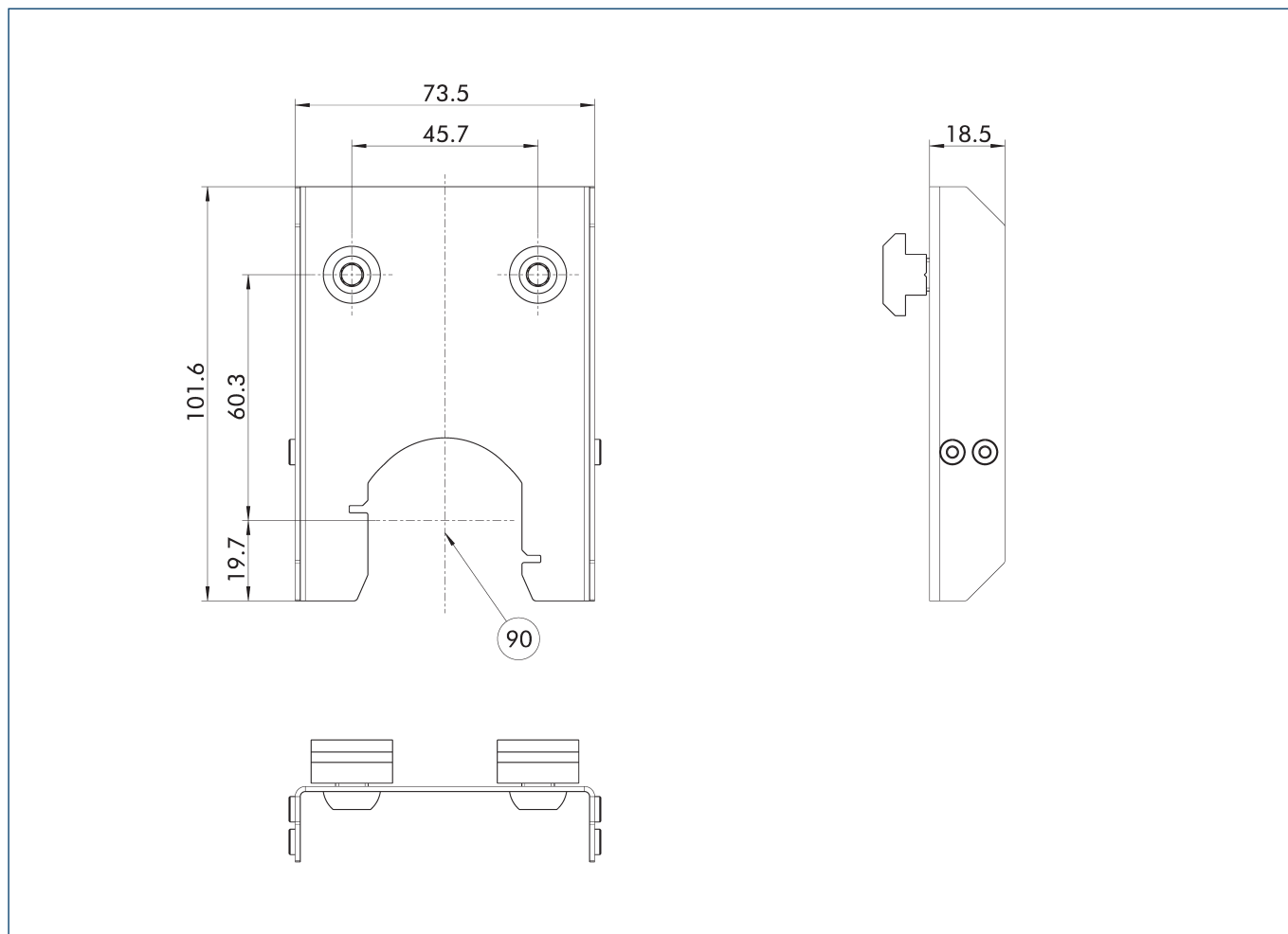
Storage module



Technical data

Description		CTS T-001-MM
ID		1594527
Recommended CPS size		001
max. load capacity	[kg]	1
Installation position		any
Min./max. ambient temperature	[°C]	5/60
Weight	[kg]	0.15

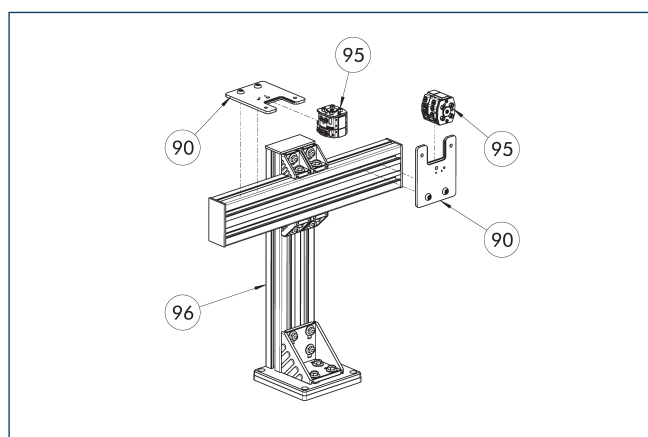
Main view CTS T-001-MM



The drawing shows the storage module in the basic version.

90 Tool changer position

Modular storage rack CTS T



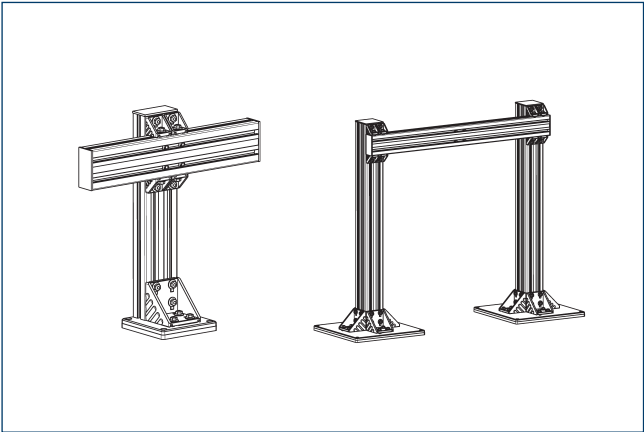
90 Storage module
95 Tool changer

96 Profile structure CTS

CTS T-001

Storage module

Profile



Description	ID	
Mounting bracket		
CTS MB-45x45	1332525	
Base plate		
CTS BP-45x90	0302580	
Cross profile 45 x 90 mm		
CTS PH-45x90-1200	1356073	
CTS PH-45x90-1500	1496166	
CTS PH-45x90-300	1564976	
CTS PH-45x90-460	0303229	
CTS PH-45x90-610	1419762	
CTS PH-45x90-920	0303228	
Stand profile section 45 x 90 mm		
CTS PV-45x90-1300	30070338	
CTS PV-45x90-300	30077021	
CTS PV-45x90-460	1564977	
CTS PV-45x90-610	0302586	
CTS PV-45x90-890	30046674	
Attachment bracket		
CTS BB-90x90	0302581	

CTS T-016

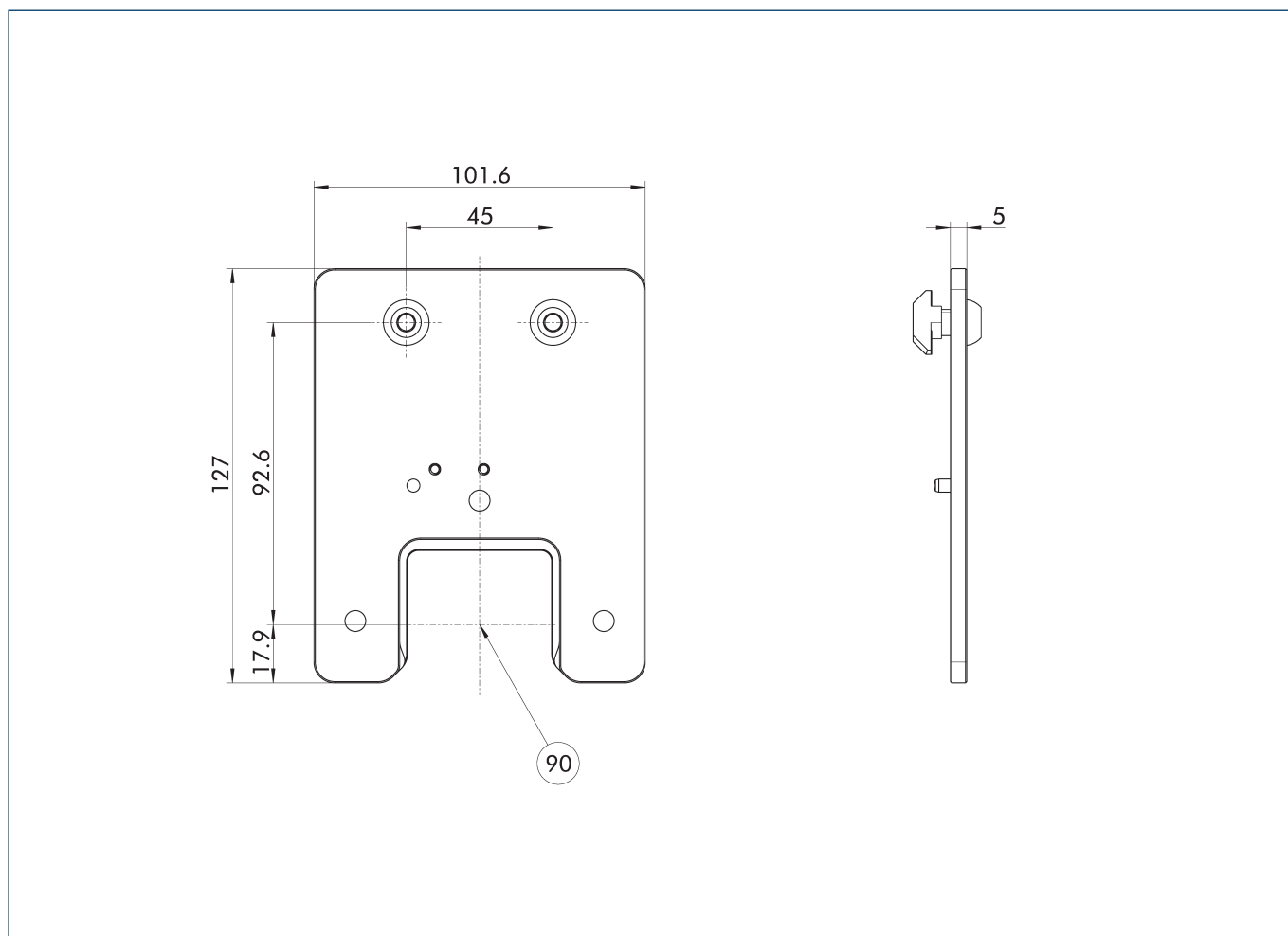
Storage module



Technical data

Description		CTS T-016-MM
ID		1594541
Recommended CPS size		007
max. load capacity	[kg]	16
Installation position		any
Min./max. ambient temperature	[°C]	5/60
Weight	[kg]	0.455

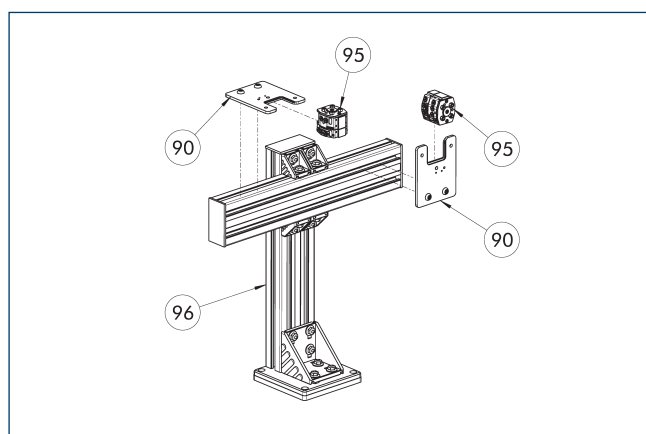
Main view CTS T-016-MM



The drawing shows the storage module in the basic version.

90 Tool changer position

Modular storage rack CTS T



90 Storage module

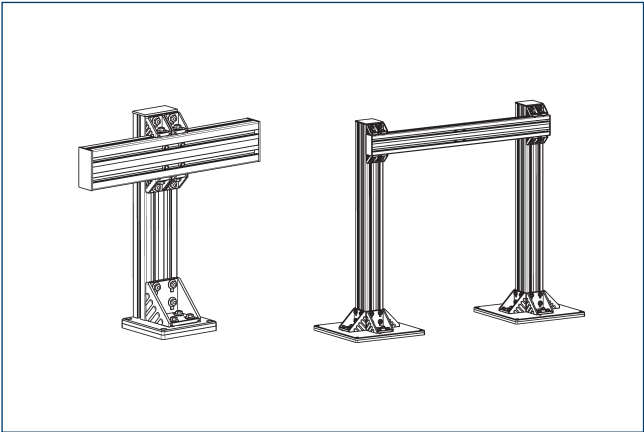
96 Profile structure CTS

95 Tool changer

CTS T-016

Storage module

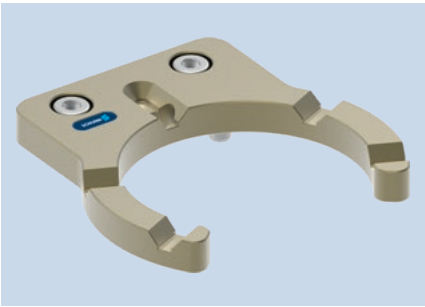
Profile



Description	ID	
Mounting bracket		
CTS MB-45x45	1332525	
Base plate		
CTS BP-45x90	0302580	
Cross profile 45 x 90 mm		
CTS PH-45x90-1200	1356073	
CTS PH-45x90-1500	1496166	
CTS PH-45x90-300	1564976	
CTS PH-45x90-460	0303229	
CTS PH-45x90-610	1419762	
CTS PH-45x90-920	0303228	
Stand profile section 45 x 90 mm		
CTS PV-45x90-1300	30070338	
CTS PV-45x90-300	30077021	
CTS PV-45x90-460	1564977	
CTS PV-45x90-610	0302586	
CTS PV-45x90-890	30046674	
Attachment bracket		
CTS BB-90x90	0302581	

CTS C-016

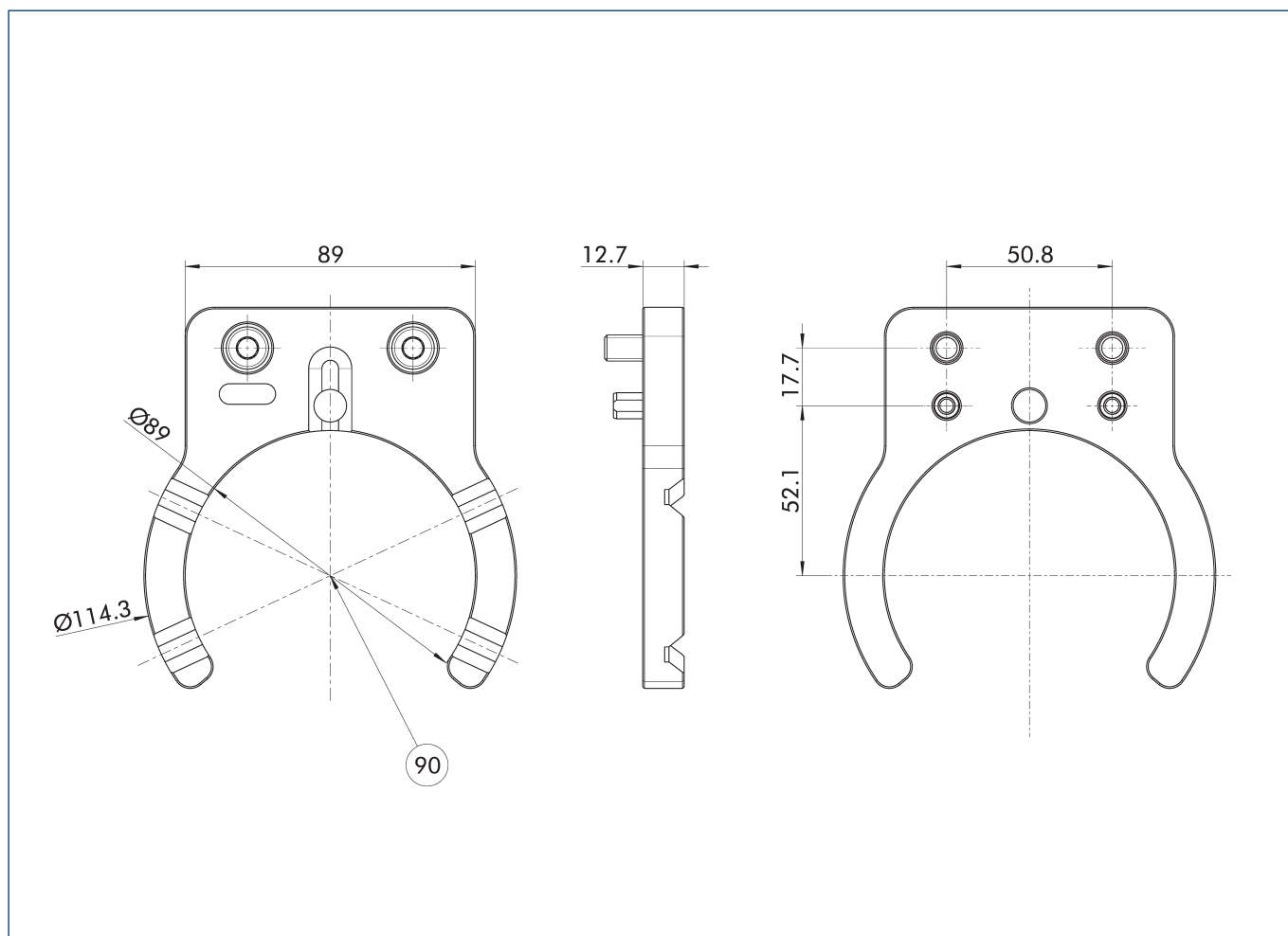
Storage module



Technical data

Description		CTS C-016-MM
ID		1594543
Recommended CPS size		011
max. load capacity	[kg]	16
Installation position		horizontal
Tool presence monitoring		optional
Min./max. ambient temperature	[°C]	5/60
Weight	[kg]	0.215

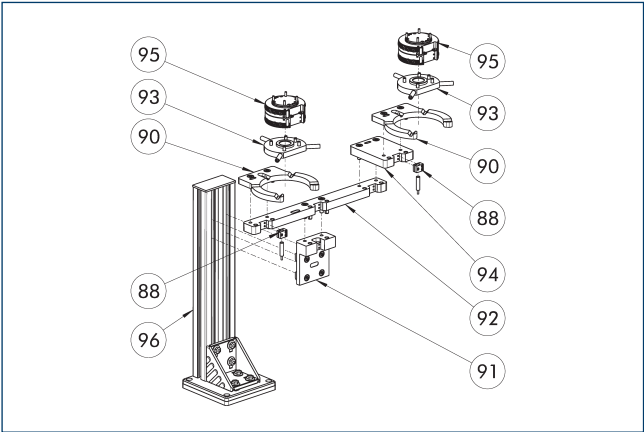
Main view CTS C-016-MM



The drawing shows the storage module in the basic version.

90 Tool changer position

Modular storage rack CTS C



- 88 Sensor system

90 Storage module

91 Fixing block

92 3-position adapter
- 93 Adapter plate

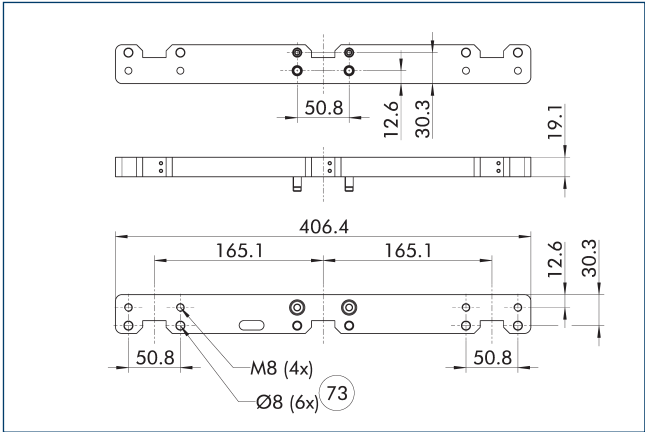
94 Extension adapter

95 Tool changer

96 Profile structure CTS

Description	ID	
3-position adapter		
CTS C-M3	1594642	
4-position adapter		
CTS C-M4	1594644	
Storage pins		
CTS C-AB-M5	1594629	
Adapter plates		
CTS C-016-AH-CPS011	1594574	
Fixing block		
CTS C-MB	1594641	
Extension adapter		
CTS C-ME	1594643	

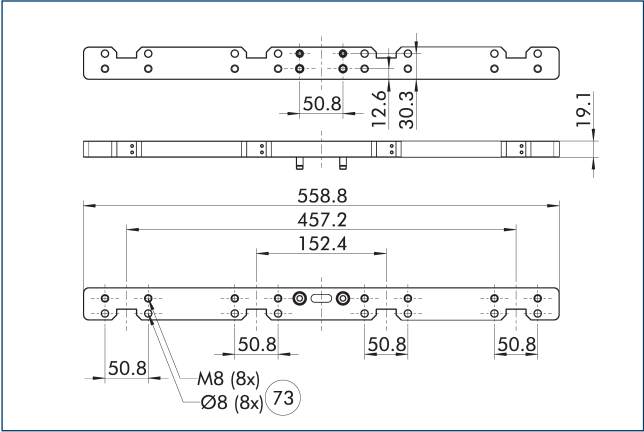
3-position adapter CTS C-M3



- 73 Fit for centering pins

Description	ID	
3-position adapter		
CTS C-M3	1594642	

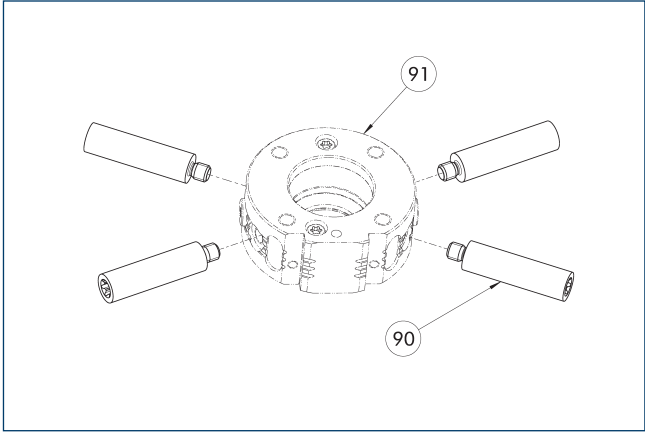
4-position adapter CTS C-M4



- 73 Fit for centering pins

Description	ID	
4-position adapter		
CTS C-M4	1594644	

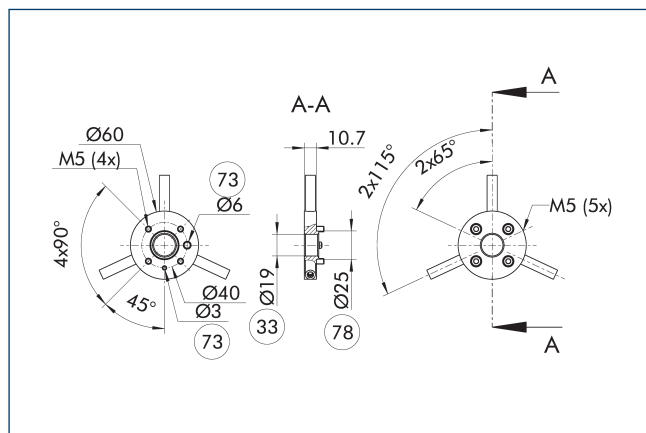
Storage bolt CTS C-AB-M5



- 90 Storage pins
- 91 Automatic tool changers CPS

Description	ID	
Storage pins		
CTS C-AB-M5	1594629	

Adapter plate CTS C-016-AH-CPS005-011



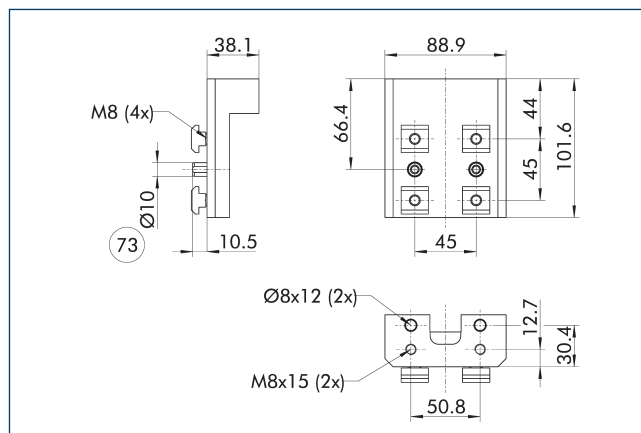
33 DIN ISO-9409 bolt circle

78 Fit for centering

73 Fit for centering pins

Description	ID
Adapter plates	
CTS C-016-AH-CPS011	1594574

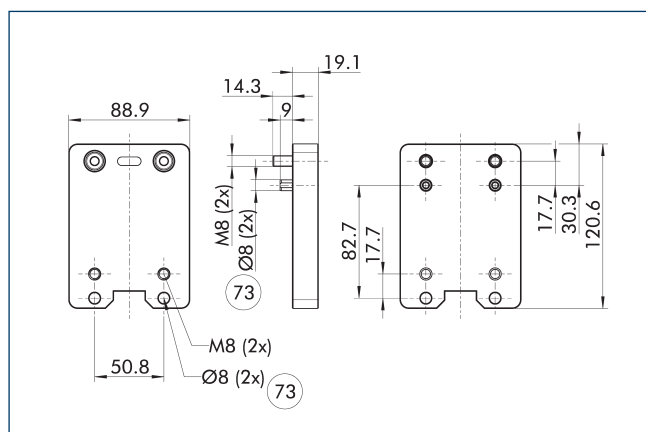
Mounting block CTS C-MB



73 Fit for centering pins

Description	ID
Fixing block	
CTS C-MB	1594641

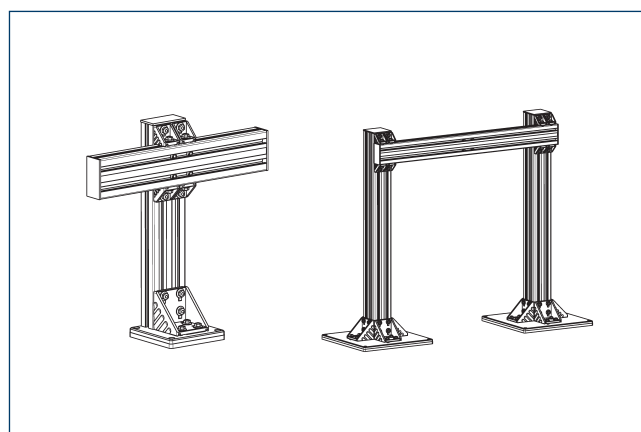
Extension adapter CTS C-ME



73 Fit for centering pins

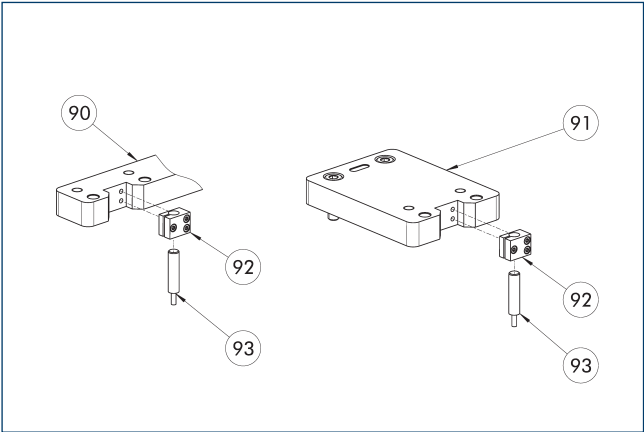
Description	ID
Extension adapter	
CTS C-ME	1594643

Profile



Description	ID
Mounting bracket	
CTS MB-45x45	1332525
Base plate	
CTS BP-45x90	0302580
Cross profile 45 x 90 mm	
CTS PH-45x90-1200	1356073
CTS PH-45x90-1500	1496166
CTS PH-45x90-300	1564976
CTS PH-45x90-460	0303229
CTS PH-45x90-610	1419762
CTS PH-45x90-920	0303228
Stand profile section 45 x 90 mm	
CTS PV-45x90-1300	30070338
CTS PV-45x90-300	30077021
CTS PV-45x90-460	1564977
CTS PV-45x90-610	0302586
CTS PV-45x90-890	30046674
Attachment bracket	
CTS BB-90x90	0302581

Tool presence monitoring CTS C



- 90 Position adapter

91 Extension adapter
- 92 Attachment kit

93 Sensor IN ...

End position monitoring can be mounted with an attachment kit.

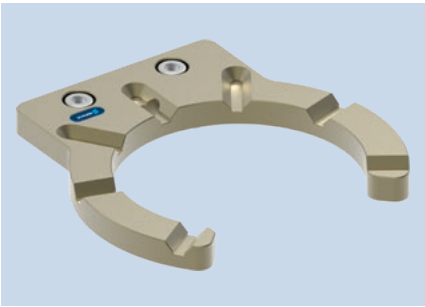
Description	ID	
Attachment kit for proximity switch		
AS-CTS-C-016-025	1594626	
Inductive proximity switch		
IN 80-S-M12	0301578	
IN 80-S-M8	0301478	

- ⓘ

Per unit one sensor is required, along with an optional extension cable. This attachment kit needs to be ordered optionally as an accessory. Please consider the minimum permissible bending radii for sensor cables. These are generally 35 mm.

CTS C-025

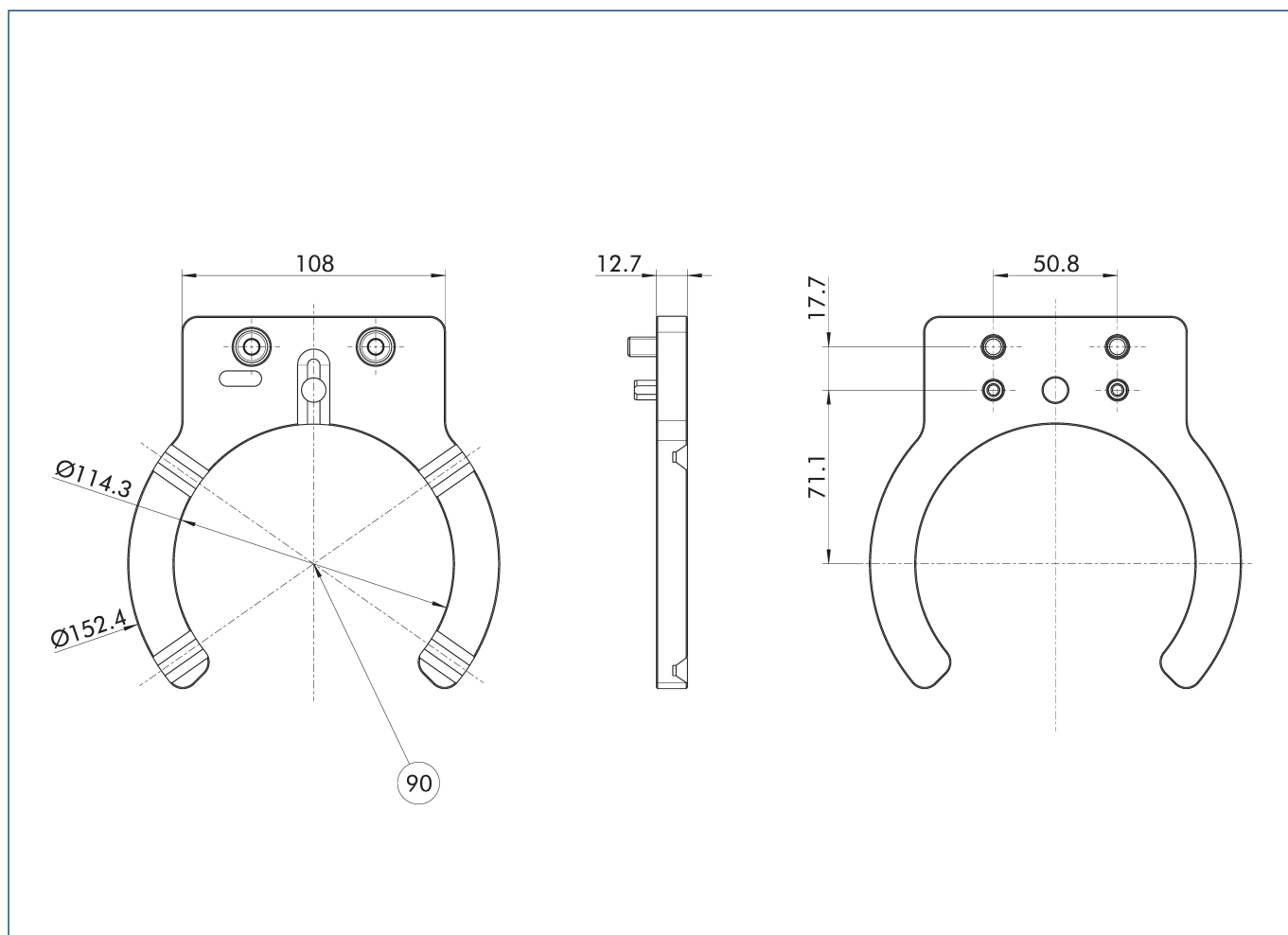
Storage module



Technical data

Description		CTS C-025-MM
ID		1594544
Recommended CPS size		020, 021
max. load capacity	[kg]	25
Installation position		horizontal
Tool presence monitoring		optional
Min./max. ambient temperature	[°C]	5/60
Weight	[kg]	0.345

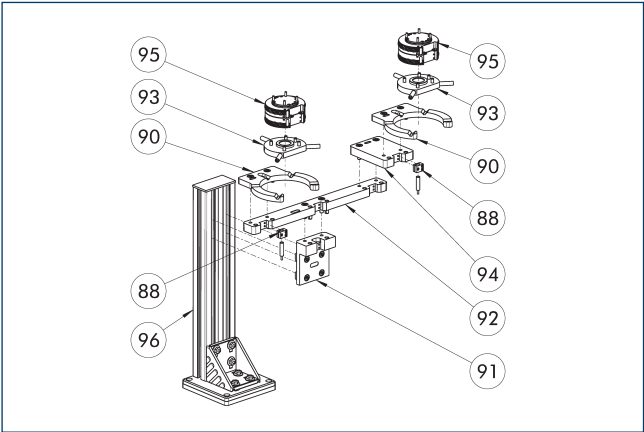
Main view CTS C-025-MM



The drawing shows the storage module in the basic version.

⑨ Tool changer position

Modular storage rack CTS C



- 88

Sensor system
- 90

Storage module
- 91

Fixing block
- 92

3-position adapter
- 93

Adapter plate
- 94

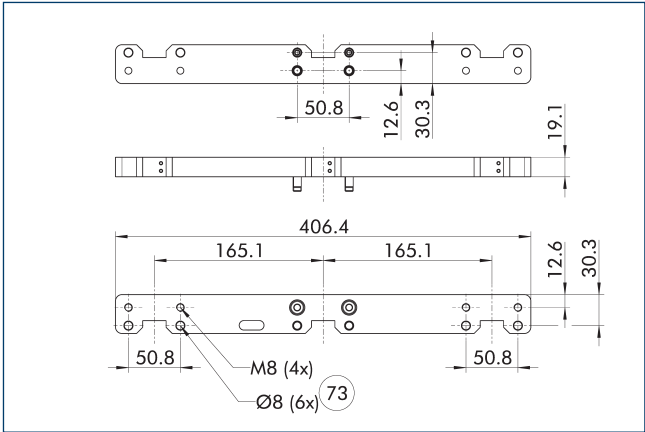
Extension adapter
- 95

Tool changer
- 96

Profile structure CTS

Description	ID	
3-position adapter		
CTS C-M3	1594642	
4-position adapter		
CTS C-M4	1594644	
Storage pins		
CTS C-AB-M5	1594629	
Adapter plates		
CTS C-025-AH-CPS020-021	1594576	
Fixing block		
CTS C-MB	1594641	
Extension adapter		
CTS C-ME	1594643	

3-position adapter CTS C-M3

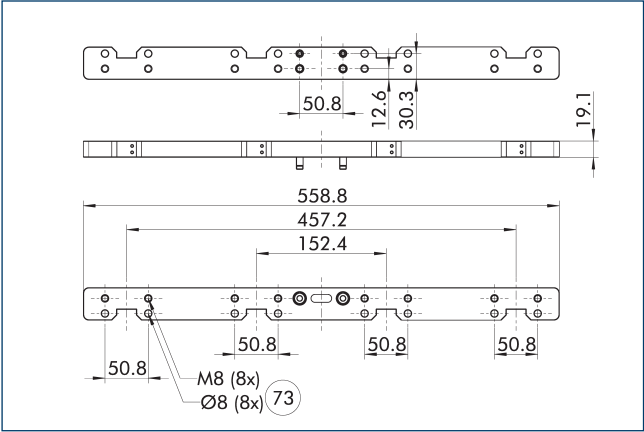


- 73

Fit for centering pins

Description	ID	
3-position adapter		
CTS C-M3	1594642	

4-position adapter CTS C-M4

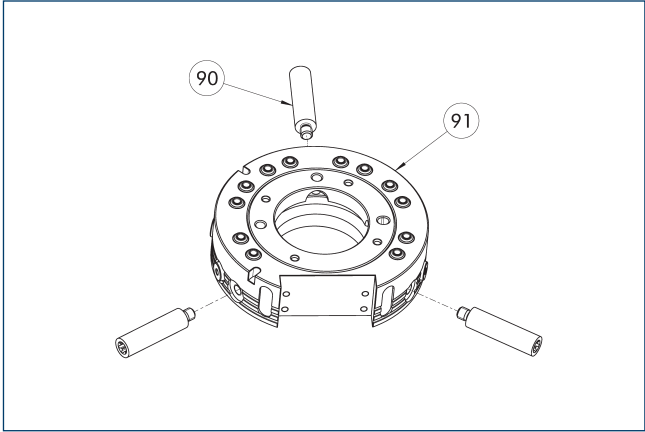


- 73

Fit for centering pins

Description	ID	
4-position adapter		
CTS C-M4	1594644	

Storage bolt CTS C-AB-M5



- 90

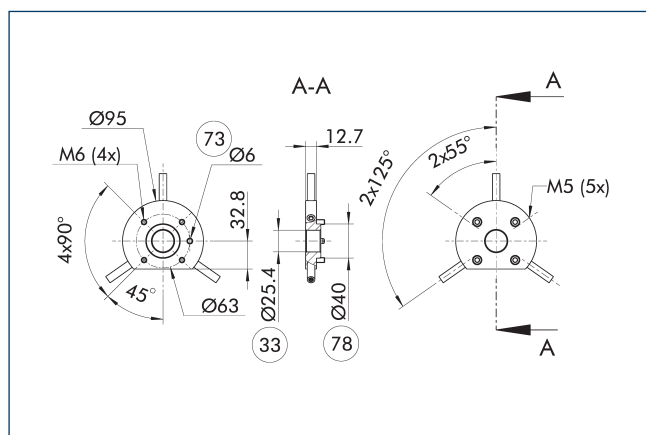
Storage pins
- 91

Automatic tool changers CPS

Description	ID	
Storage pins		
CTS C-AB-M5	1594629	

① The storage pins can only be fitted to the CPS-A 020

Adapter plate CTS C-025-AH-CPS020-021



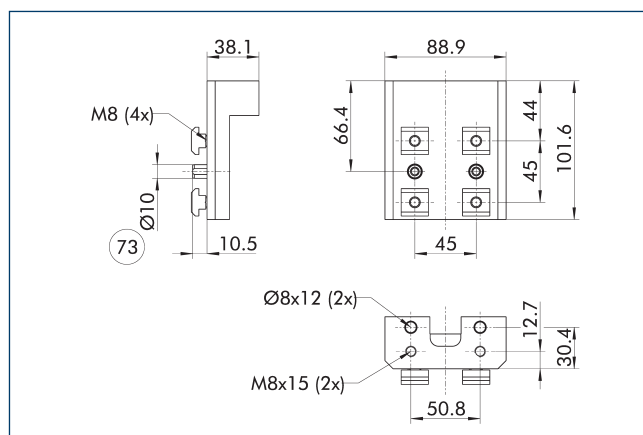
33 DIN ISO-9409 bolt circle

78 Fit for centering

73 Fit for centering pins

Description	ID	
Adapter plates		
CTS C-025-AH-CPS020-021	1594576	

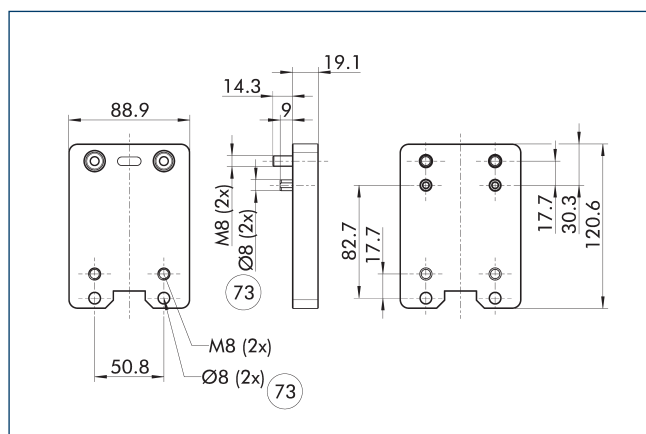
Mounting block CTS C-MB



73 Fit for centering pins

Description	ID	
Fixing block		
CTS C-MB	1594641	

Extension adapter CTS C-ME



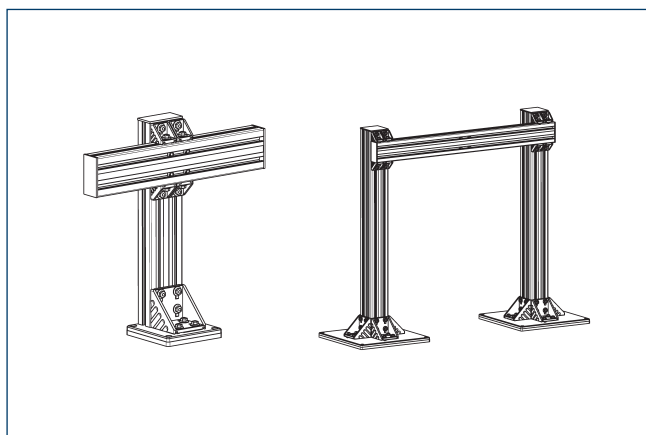
73 Fit for centering pins

Description	ID	
Extension adapter		
CTS C-ME	1594643	

CTS C-025

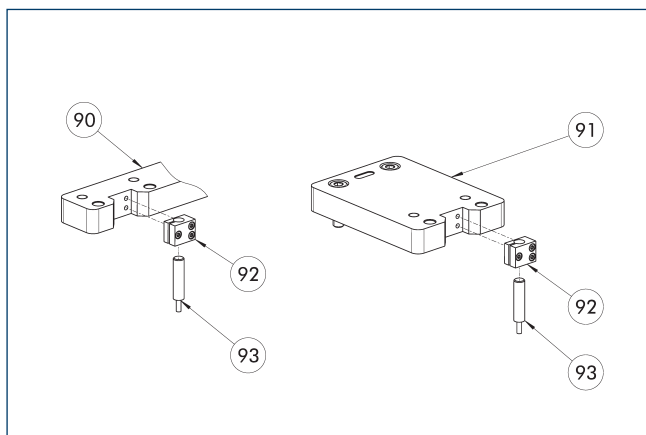
Storage module

Profile



Description	ID	
Mounting bracket		
CTS MB-45x45	1332525	
Base plate		
CTS BP-45x90	0302580	
CTS BP-90x90	1604713	
Cross profile 45 x 90 mm		
CTS PH-45x90-1200	1356073	
CTS PH-45x90-1500	1496166	
CTS PH-45x90-300	1564976	
CTS PH-45x90-460	0303229	
CTS PH-45x90-610	1419762	
CTS PH-45x90-920	0303228	
Stand profile section 45 x 90 mm		
CTS PV-45x90-1300	30070338	
CTS PV-45x90-300	30077021	
CTS PV-45x90-460	1564977	
CTS PV-45x90-610	0302586	
CTS PV-45x90-890	30046674	
Stand profile section 90 x 90 mm		
CTS PV-90x90-1220	1564972	
CTS PV-90x90-1830	1564974	
CTS PV-90x90-650	1564970	
CTS PV-90x90-920	1564971	
Attachment bracket		
CTS BB-90x90	0302581	

Tool presence monitoring CTS C



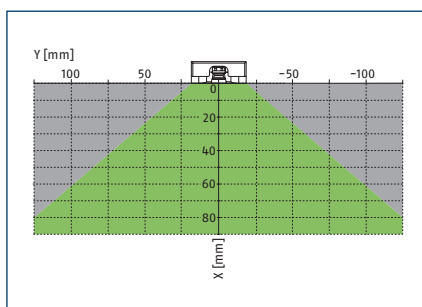
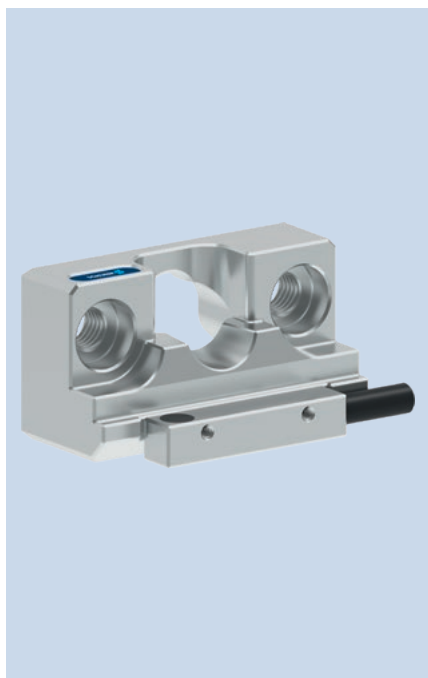
- ⑨⑩ Position adapter
- ⑨① Extension adapter
- ⑨② Attachment kit
- ⑨③ Sensor IN ...

End position monitoring can be mounted with an attachment kit.

Description	ID	
Attachment kit for proximity switch		
AS-CTS-C-016-025	1594626	
Inductive proximity switch		
IN 80-S-M12	0301578	
IN 80-S-M8	0301478	

- ① Per unit one sensor is required, along with an optional extension cable. This attachment kit needs to be ordered optionally as an accessory. Please consider the minimum permissible bending radii for sensor cables. These are generally 35 mm.

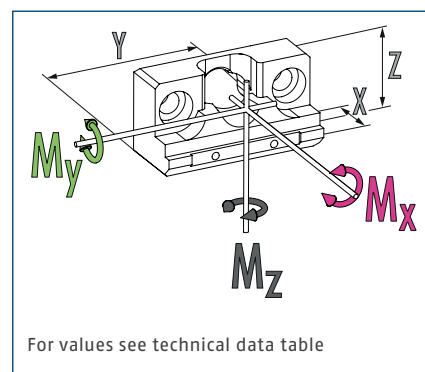
Center of gravity position of tool, passive variant



- Permitted range
- Inadmissible range

For the passive variant, the center of gravity of the tool must be within the permissible range according to the diagram. In addition, the occurring moments must not exceed the permissible values.

Dimensions and maximum loads

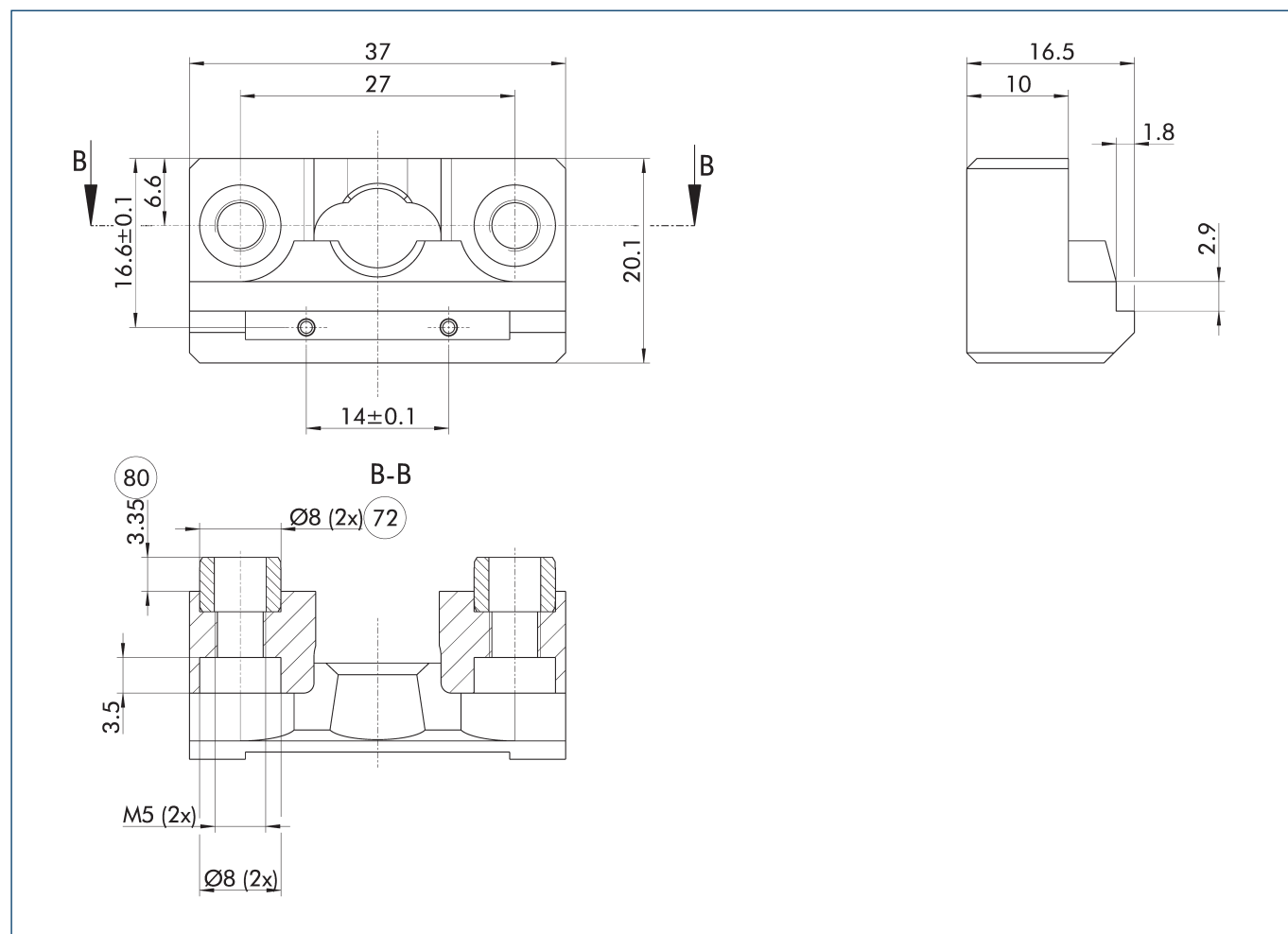


- ① This is the max. sum of all static loads that are permitted to act on the storage system to ensure error-free functioning.

Technical data

Description		CTS B-016-MM	CTS B-016-MM-V
Variant		Passive	Active
ID		1459336	1589479
Recommended CPS size		007, 011	007, 011
Recommended CPB size		040, 050	040, 050
max. load capacity	[kg]	16	16
Installation position		horizontal	any
Pull-down force, spring	[N]		200
Pull-down force, turbo	[N]		750
Pneumatic connection thread open			M3
Pneumatic connection thread Turbo			M3
Tool presence monitoring		optional	optional
Unlocking pressure	[bar]		6
Actuation pressure	[bar]		6
Min./max. ambient temperature	[°C]	5/60	5/60
Weight	[kg]	0.04	0.25
Moment load Mx	[Nm]	12	18
Moment load My	[Nm]	12	18
Moment load Mz	[Nm]		18

Main view CTS B-016-MM



The drawing shows the storage module in the basic version.

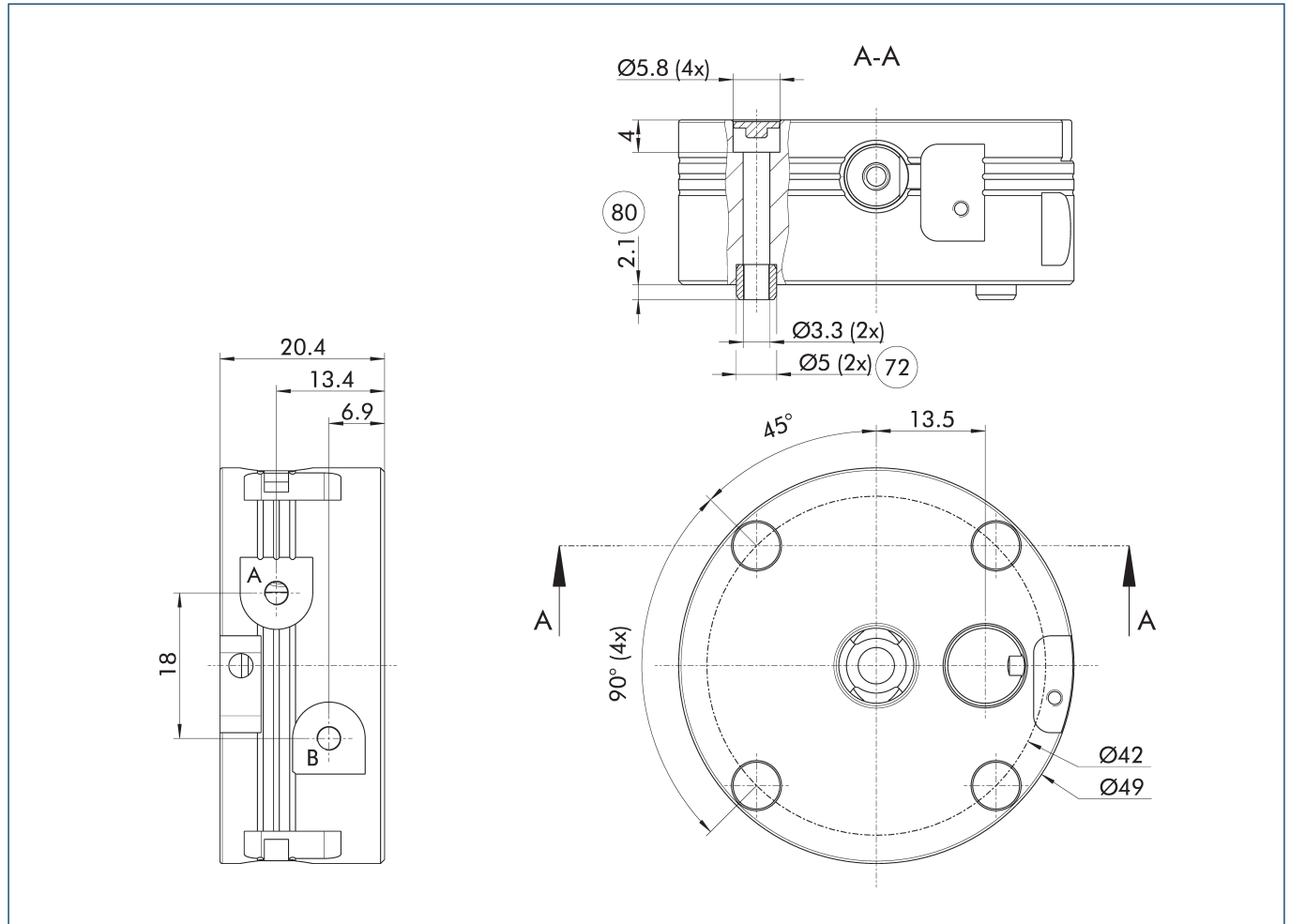
72 Fit for centering sleeves

80 Depth of the centering sleeve hole in the counter part

CTS B-016

Storage module

Main view CTS B-016-MM-V

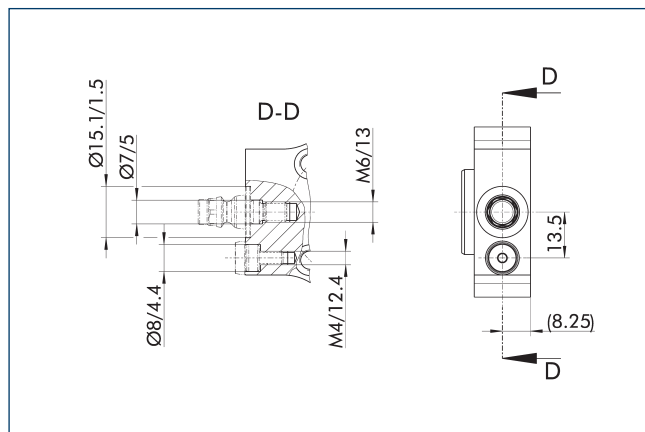


The drawing shows the storage module in the basic version.

A Unlocking
B Locking

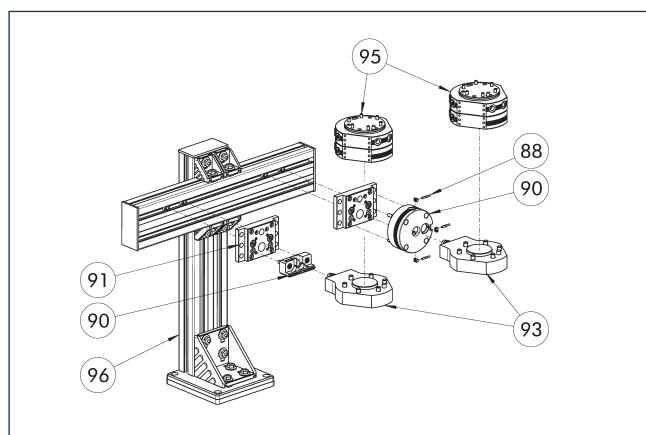
72 Fit for centering sleeves
80 Depth of the centering sleeve hole in the counter part

Adapter plate design CTS-B



Instead of using a standard adapter plate, the storage pin and anti-twist protection can also be attached to a customized adapter plate. For error-free function, all dimensions according to the drawing must be taken into account, in particular the distances between the anti-twist protections to the storage pin. The drawing is also valid for all the standard plates listed below.

Modular storage rack CTS B



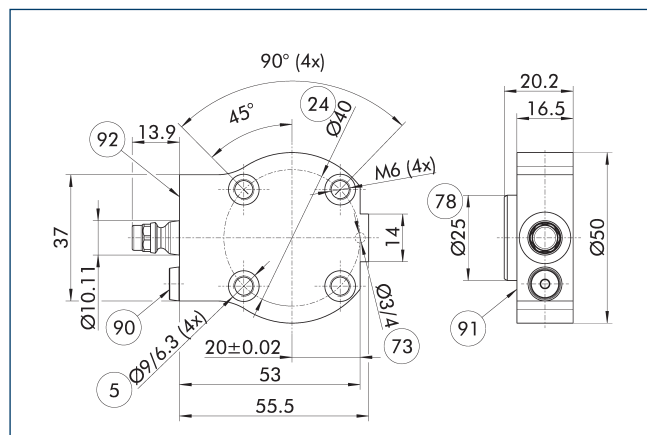
- 88 Sensor system
- 90 Storage module
- 91 Mounting plate
- 93 Adapter plate
- 95 Automatic tool changers CPS
- 96 Profile structure CTS

Description	ID	
Storage pins		
CTS B-016-AB	1529468	
Adapter plates		
CTS B-016-AH-CPS005-011	1523807	
CTS B-016-AH-V-CPS005-011	1523840	
CTS B-016-AV-7B	1523812	
CTS B-016-AV-CPB040-050	1622615	
CTS B-016-AV-V-7B	1523842	
CTS B-016-AV-V-CPB040-050	1624152	
Mounting plate		
CTS B-MP-0	1489443	
CTS B-MP-1	1594752	
Anti-rotation protection		
CTS B-016-V-AR	1542887	

CTS B-016

Storage module

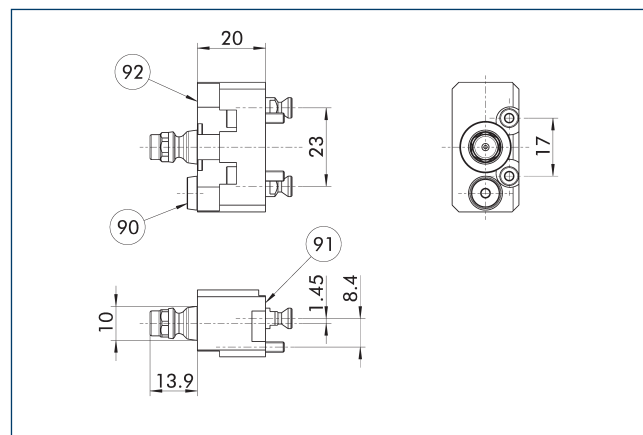
Adapter plate CTS B-016-AH-CPS005-011



- ⑤ Through hole for connection with screws
- ②④ Bolt circle
- ⑦③ Fit for centering pins
- ⑦⑧ Fit for centering
- ⑨⑩ Anti-twist protection (only with the adapter plate for CTS B -V)
- ⑨① Mounting side CPS-A
- ⑨② Mounting side CTS B (-V)

Description	ID	matching tool changer
Adapter plates		
CTS B-016-AH-CPS005-011	1523807	CPS 011
CTS B-016-AH-V-CPS005-011	1523840	CPS 011

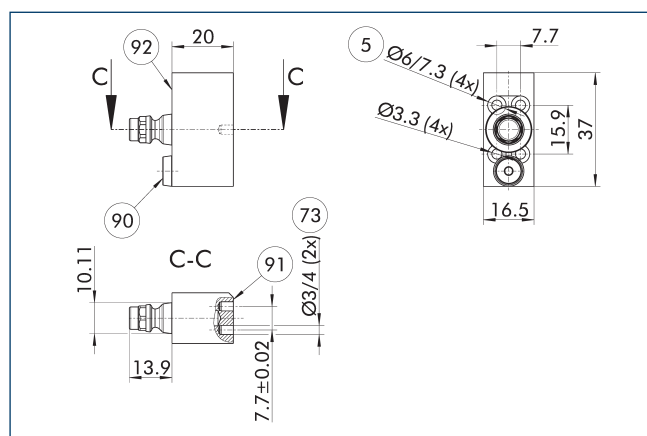
Adapter plate CTS B-016-AV-CPB040-050



- ⑨⑩ Anti-twist protection (only with the adapter plate for CTS B -V)
- ⑨① Mounting side CPB-A
- ⑨② Mounting side CTS B

Description	ID	matching tool changer
Adapter plates		
CTS B-016-AV-CPB040-050	1622615	CPB 040, CPB 050
CTS B-016-AV-V-CPB040-050	1624152	CPB 040, CPB 050

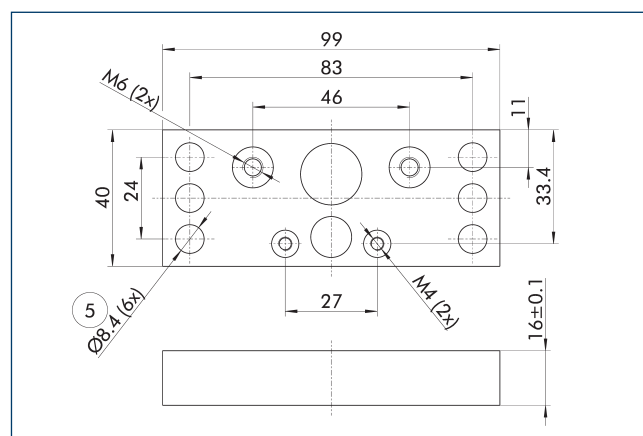
Adapter plate CTS B-016-AV-7B



- ⑤ Through hole for connection with screws
- ⑦③ Fit for centering pins
- ⑨⑩ Anti-twist protection (only with the adapter plate for CTS B -V)
- ⑨① Mounting side CPS-A
- ⑨② Mounting side CTS B (-V)

Description	ID	matching tool changer
Adapter plates		
CTS B-016-AV-7B	1523812	CPS 007
CTS B-016-AV-V-7B	1523842	CPS 007

Mounting plate CTS B-MP-0



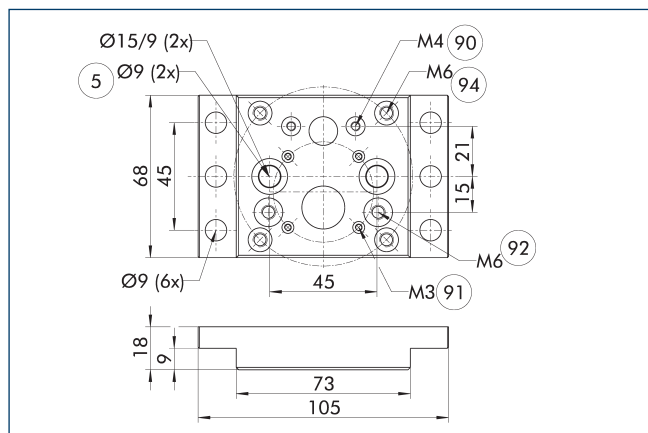
- ⑤ Through hole for connection with screws

Mounting plate for fastening and centering of the CTS B. The mounting plate is optional but recommended to ensure high-precision positioning.

Description	ID	
Mounting plate		
CTS B-MP-0	1489443	

- ① The mounting plate is only suitable for the passive storage module.

Mounting plate CTS B-MP-1

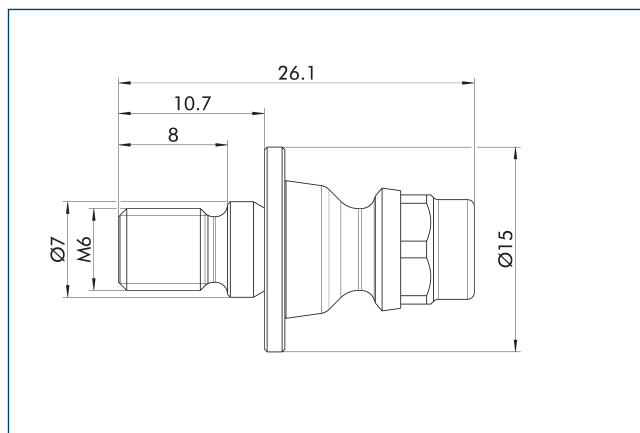


- 5 Through hole for connection with screws
 90 CTS B-MM-016
 91 CTS B-MM-016-V
 92 CTS B-MM-100
 93 CTS B-MM-100-V

Mounting plate for fastening and centering of the CTS B. The mounting plate is optional but recommended to ensure high-precision positioning.

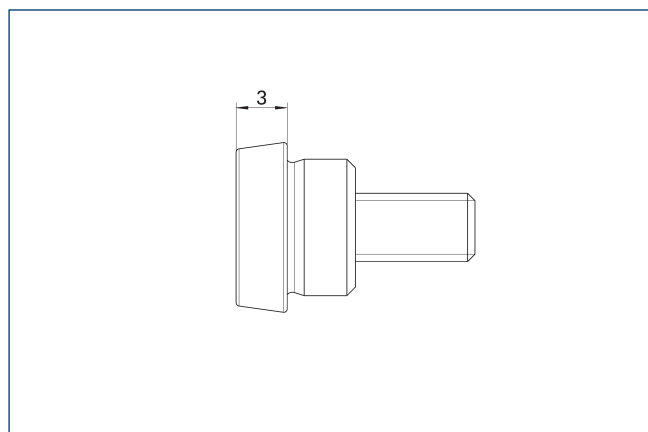
Description	ID	
Mounting plate		
CTS B-MP-1	1594752	

Storage bolt CTS B-016-AB



Description	ID	
Storage pins		
CTS B-016-AB	1529468	

Anti-twist protection CTS B-016-V

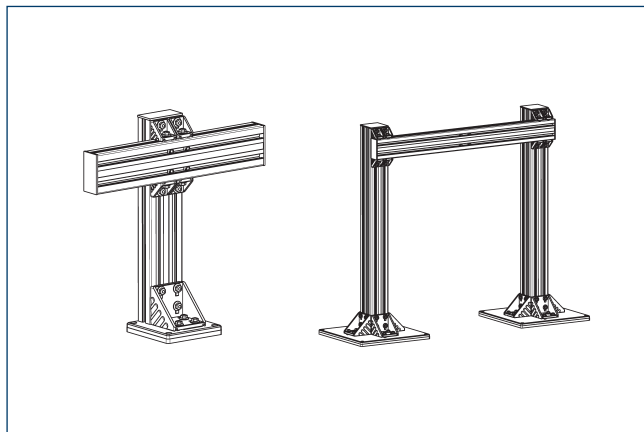


Description	ID	
Anti-rotation protection		
CTS B-016-V-AR	1542887	

CTS B-016

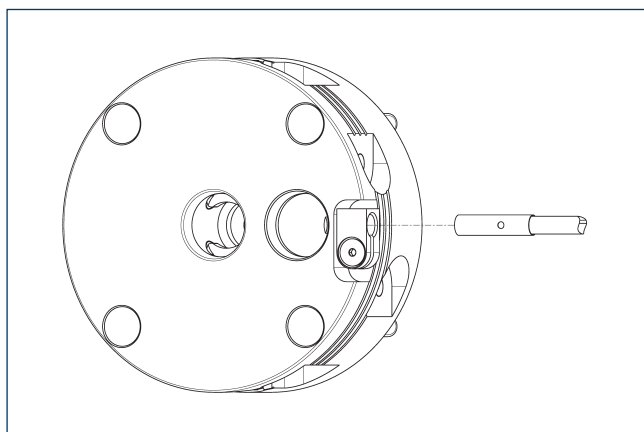
Storage module

Profile



Description	ID	
Mounting bracket		
CTS MB-45x45	1332525	
Base plate		
CTS BP-45x90	0302580	
Cross profile 45 x 90 mm		
CTS PH-45x90-1200	1356073	
CTS PH-45x90-1500	1496166	
CTS PH-45x90-300	1564976	
CTS PH-45x90-460	0303229	
CTS PH-45x90-610	1419762	
CTS PH-45x90-920	0303228	
Stand profile section 45 x 90 mm		
CTS PV-45x90-1300	30070338	
CTS PV-45x90-300	30077021	
CTS PV-45x90-460	1564977	
CTS PV-45x90-610	0302586	
CTS PV-45x90-890	30046674	
Attachment bracket		
CTS BB-90x90	0302581	

Tool presence monitoring CTS B-V

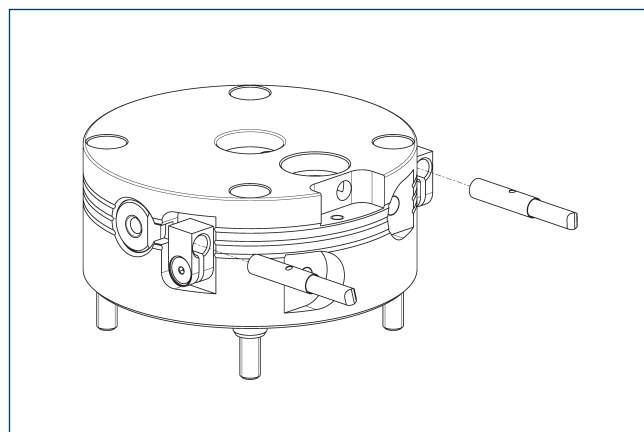


The attachment kit includes one sensor and two brackets.

Description	ID	
Attachment kit for proximity switch		
AS-CTS-B-V-IN30-T	1523878	

- ① This attachment kit is optional and must be ordered separately as an accessory.

Locking monitoring CTS B -V

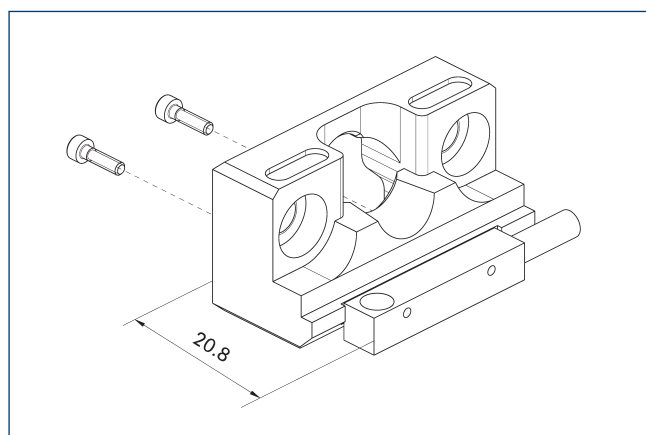


One sensor and one bracket are included in each attachment kit. Two attachment kits are required to monitor both states (locked/unlocked).

Description	ID	
Attachment kit for proximity switch		
AS-CTS-B-V-IN30K-L	1523876	

- ① This attachment kit is optional and must be ordered separately as an accessory.

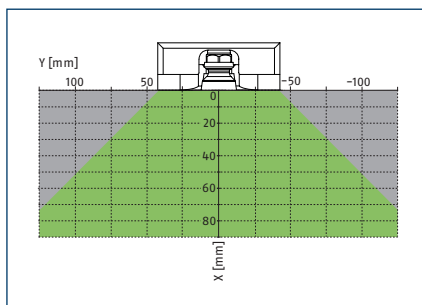
Tool presence monitoring CTS B



The sensor is screwed onto the storage module from behind. When using a sensor system, a mounting plate is recommended.

Description	ID	Often combined
Inductive proximity switch		
IN 5-S-M12	0301569	
IN 5-S-M8	0301469	
Connection cables		
KA BG08-L 3P-0300-PNP	0301622	●
KA BG08-L 3P-0500-PNP	0301623	
KA BG12-L 3P-0500-PNP	30016369	
KA BW08-L 3P-0300-PNP	0301594	
KA BW08-L 3P-0500-PNP	0301502	
KA BW12-L 3P-0300-PNP	0301503	
KA BW12-L 3P-0500-PNP	0301507	
Clip for connector/socket		
CLI-M12	0301464	
CLI-M8	0301463	
Cable extension		
KV BG12-SG12 3P-0030-PNP	0301999	
KV BG12-SG12 3P-0060-PNP	0301998	
KV BW08-SG08 3P-0030-PNP	0301495	
KV BW08-SG08 3P-0100-PNP	0301496	
KV BW08-SG08 3P-0200-PNP	0301497	●
KV BW12-SG12 3P-0030-PNP	0301595	
KV BW12-SG12 3P-0100-PNP	0301596	
KV BW12-SG12 3P-0200-PNP	0301597	
Sensor distributor		
V2-M12	0301776	●
V2-M8	0301775	●
V4-M8	0301746	
V8-M8	0301751	

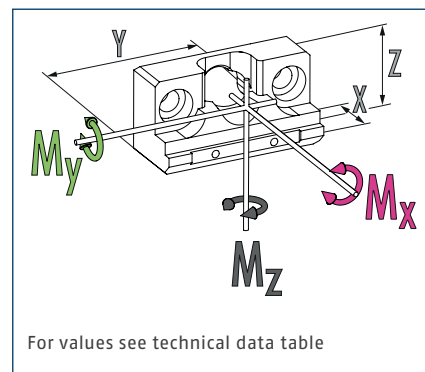
Center of gravity position of tool, passive variant



- Permitted range
- Inadmissible range

For the passive variant, the center of gravity of the tool must be within the permissible range according to the diagram. In addition, the occurring moments must not exceed the permissible values.

Dimensions and maximum loads



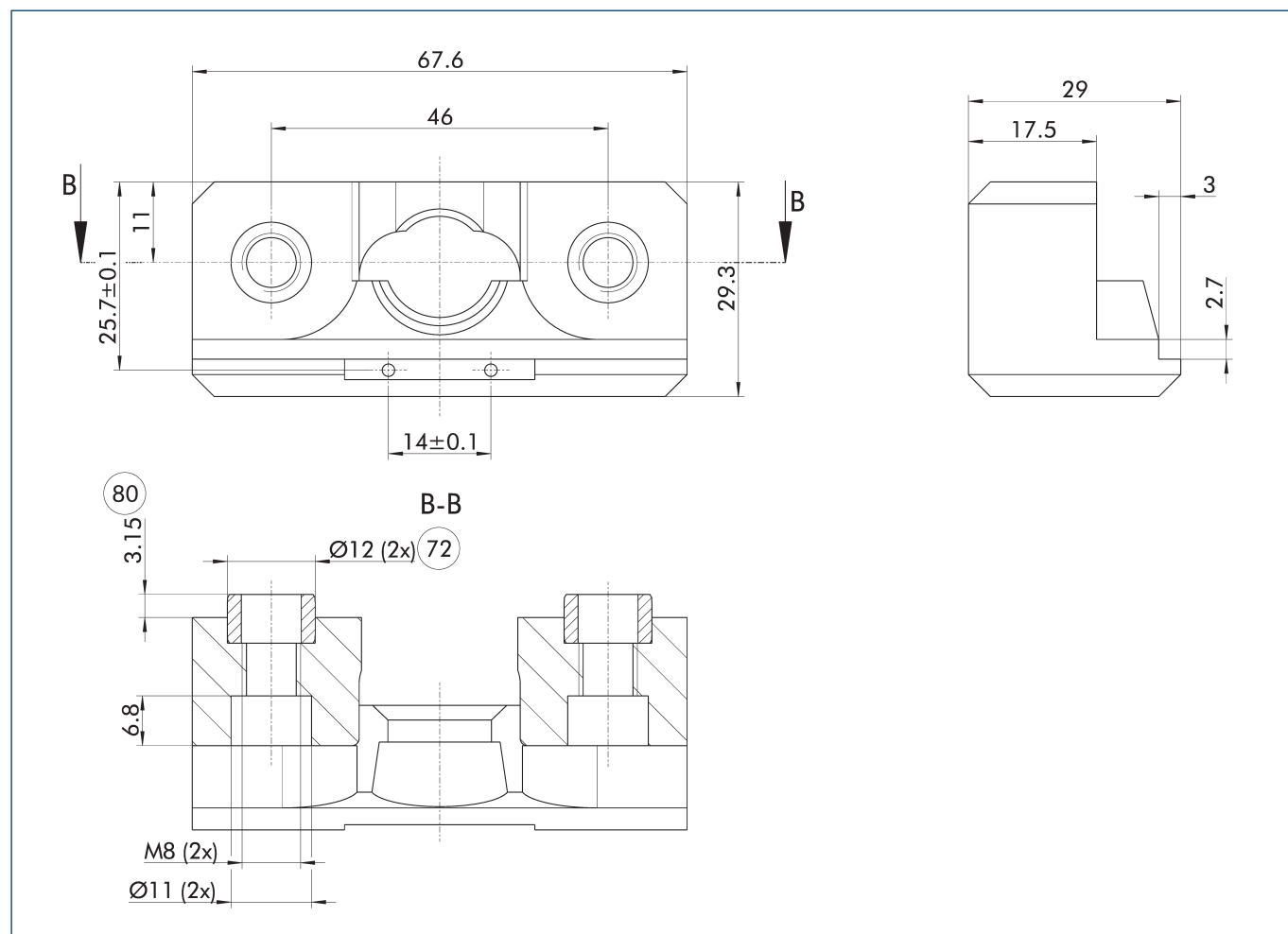
For values see technical data table

- ① This is the max. sum of all static loads that are permitted to act on the storage system to ensure error-free functioning.

Technical data

Description		CTS B-100-MM	CTS B-100-MM-V
Variant		Passive	Active
ID		1459339	1589481
Recommended CPS size		020, 021, 029, 040, 041, 046, 060, 071, 076	020, 021, 029, 040, 041, 046, 060, 071, 076
Recommended CPB size		063, 080, 100	063, 080, 100
max. load capacity	[kg]	100	100
Installation position		horizontal	any
Pull-down force, spring	[N]		700
Pull-down force, turbo	[N]		2000
Pneumatic connection thread open			M3
Pneumatic connection thread Turbo			M3
Tool presence monitoring		optional	optional
Unlocking pressure	[bar]		6
Actuation pressure	[bar]		6
Min./max. ambient temperature	[°C]	5/60	5/60
Weight	[kg]	0.25	1.36
Moment load Mx	[Nm]	100	100
Moment load My	[Nm]	100	100
Moment load Mz	[Nm]		100

Main view CTS B-100-MM



The drawing shows the storage module in the basic version.

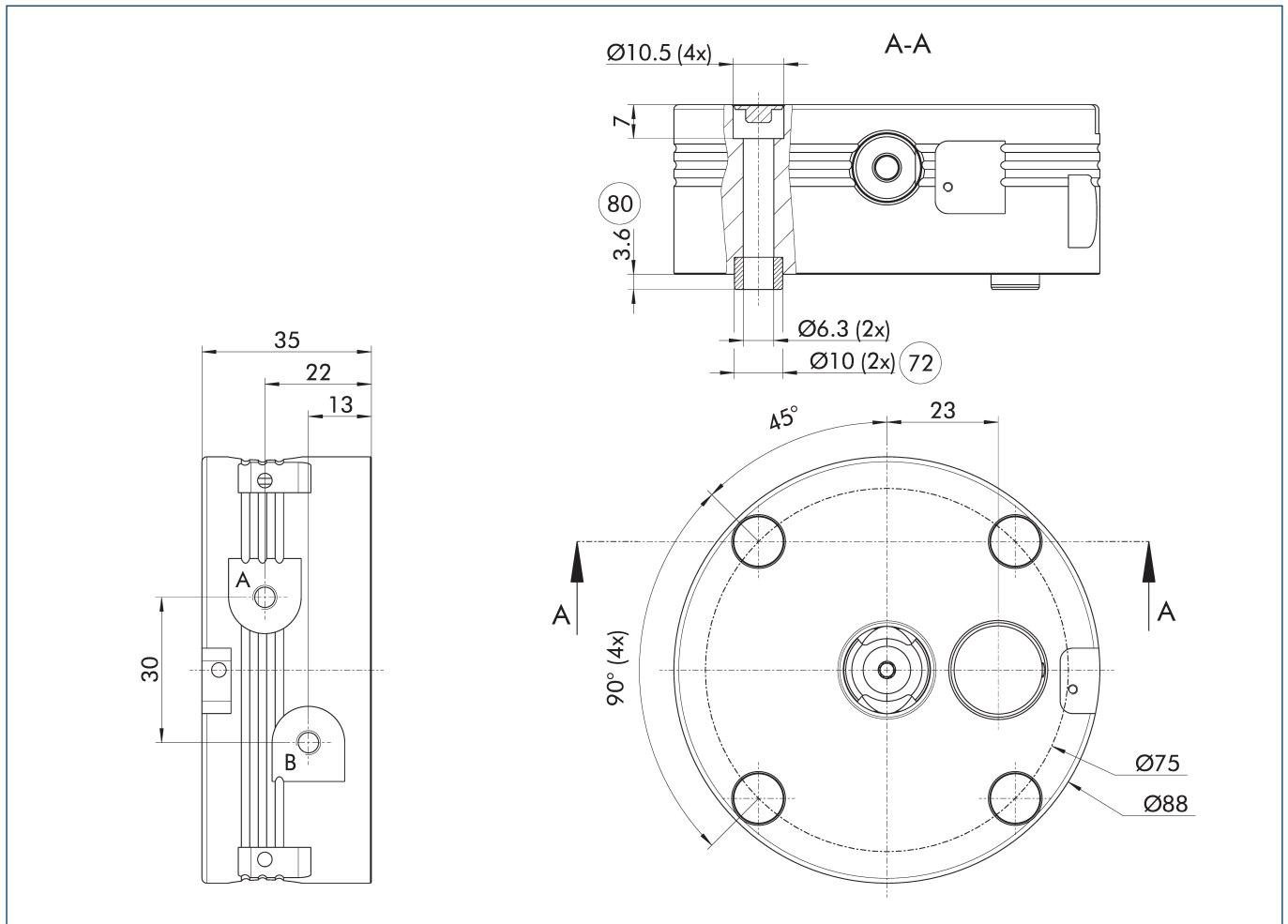
72 Fit for centering sleeves

80 Depth of the centering sleeve hole in the counter part

CTS B-100

Storage module

Main view CTS B-100-MM-V

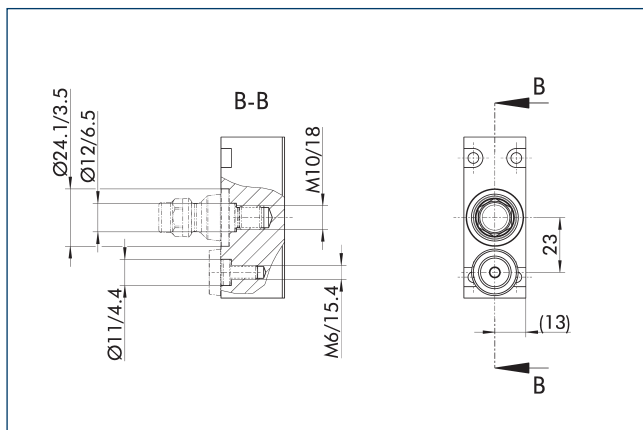


The drawing shows the storage module in the basic version.

A Unlocking
B Locking

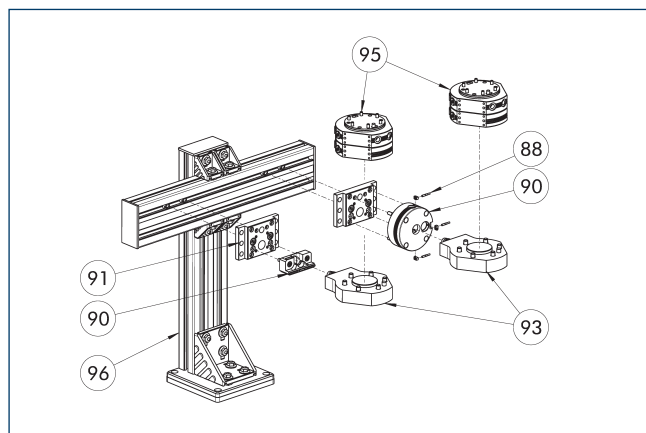
72 Fit for centering sleeves
80 Depth of the centering sleeve hole in the counter part

Adapter plate design CTS-B



Instead of using a standard adapter plate, the storage pin and anti-twist protection can also be attached to a customized adapter plate. For error-free function, all dimensions according to the drawing must be taken into account, in particular the distances between the anti-twist protections to the storage pin. The drawing is also valid for all the standard plates listed below.

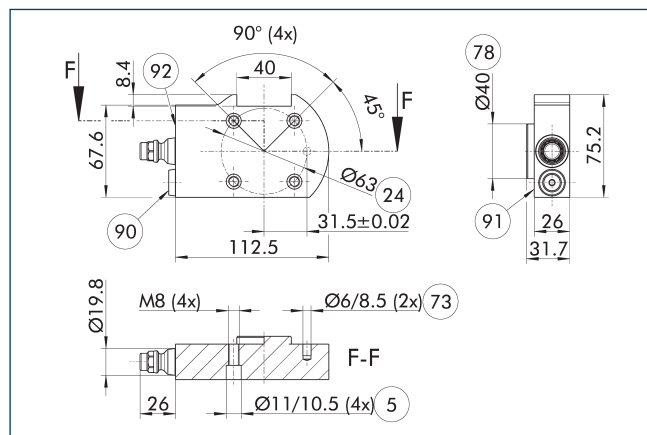
Modular storage rack CTS B



- | | |
|-------------------|--------------------------------|
| 88 Sensor system | 93 Adapter plate |
| 90 Storage module | 95 Automatic tool changers CPS |
| 91 Mounting plate | 96 Profile structure CTS |

Description	ID	
Storage pins		
CTS B-100-AB	1529834	
Adapter plates		
CTS B-100-AH-CPS020-021	1523816	
CTS B-100-AH-CPS040	1523817	
CTS B-100-AH-CPS041	1523819	
CTS B-100-AH-CPS060	1523828	
CTS B-100-AH-CPS071	1523830	
CTS B-100-AH-CPS076	1523831	
CTS B-100-AH-V-CPS020-021	1523845	
CTS B-100-AH-V-CPS040	1523846	
CTS B-100-AH-V-CPS041	1523860	
CTS B-100-AH-V-CPS060	1523862	
CTS B-100-AH-V-CPS071	1523865	
CTS B-100-AH-V-CPS076	1523869	
CTS B-100-AV-CPB063-080	1622631	
CTS B-100-AV-J	1523836	
CTS B-100-AV-V-CPB063-080	1624154	
CTS B-100-AV-V-J	1523875	
Mounting plate		
CTS B-MP-0	1489443	
CTS B-MP-1	1594752	
Anti-rotation protection		
CTS B-100-V-AR	1542889	

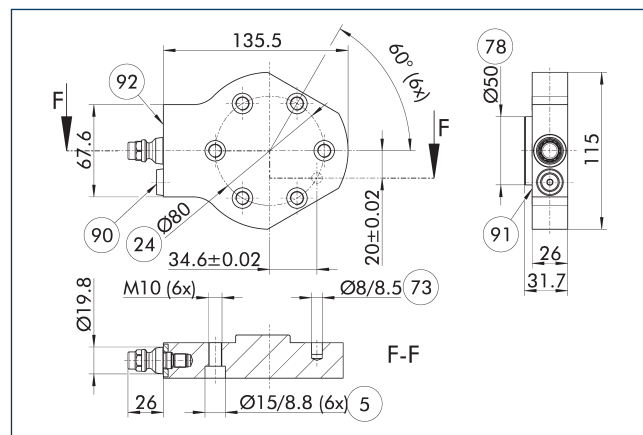
Adapter plate CTS B-100-AH-CPS020-021



- ⑤ Through hole for connection with screws
- ②④ Bolt circle
- ⑦③ Fit for centering pins
- ⑦⑧ Fit for centering
- ⑨⑩ Anti-twist protection (only with the adapter plate for CTS B -V)
- ⑨① Mounting side CPS-A
- ⑨② Mounting side CTS B (-V)

Description	ID	matching tool changer
Adapter plates		
CTS B-100-AH-CPS020-021	1523816	CPS 020, CPS 021
CTS B-100-AH-V-CPS020-021	1523845	CPS 020, CPS 021

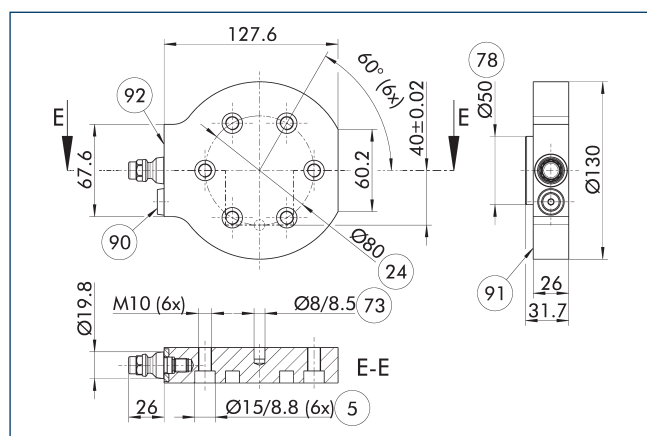
Adapter plate CTS B-100-AH-CPS040



- ⑤ Through hole for connection with screws
- ②④ Bolt circle
- ⑦③ Fit for centering pins
- ⑦⑧ Fit for centering
- ⑨⑩ Anti-twist protection (only with the adapter plate for CTS B -V)
- ⑨① Mounting side CPS-A
- ⑨② Mounting side CTS B (-V)

Description	ID	matching tool changer
Adapter plates		
CTS B-100-AH-CPS040	1523817	CPS 040
CTS B-100-AH-V-CPS040	1523846	CPS 040

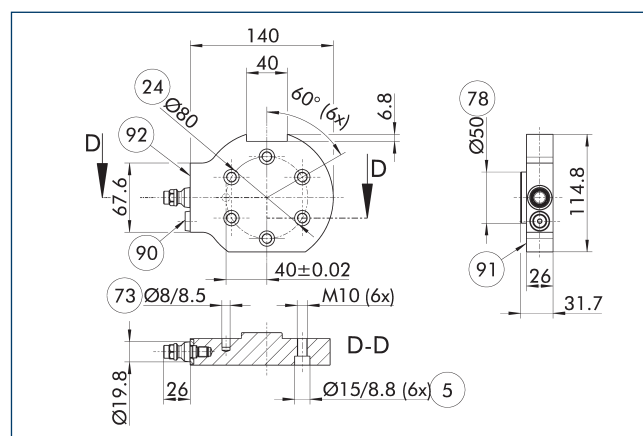
Adapter plate CTS B-100-AH-CPS041



- ⑤ Through hole for connection with screws
- ②④ Bolt circle
- ⑦③ Fit for centering pins
- ⑦⑧ Fit for centering
- ⑨⑩ Anti-twist protection (only with the adapter plate for CTS B -V)
- ⑨① Mounting side CPS-A
- ⑨② Mounting side CTS B (-V)

Description	ID	matching tool changer
Adapter plates		
CTS B-100-AH-CPS041	1523819	CPS 041
CTS B-100-AH-V-CPS041	1523860	CPS 041

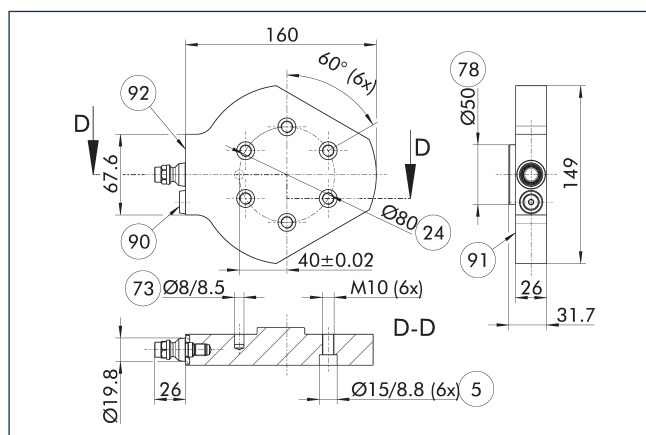
Adapter plate CTS B-100-AH-CPS060



- ⑤ Through hole for connection with screws
- ②④ Bolt circle
- ⑦③ Fit for centering pins
- ⑦⑧ Fit for centering
- ⑨⑩ Anti-twist protection (only with the adapter plate for CTS B -V)
- ⑨① Mounting side CPS-A
- ⑨② Mounting side CTS B (-V)

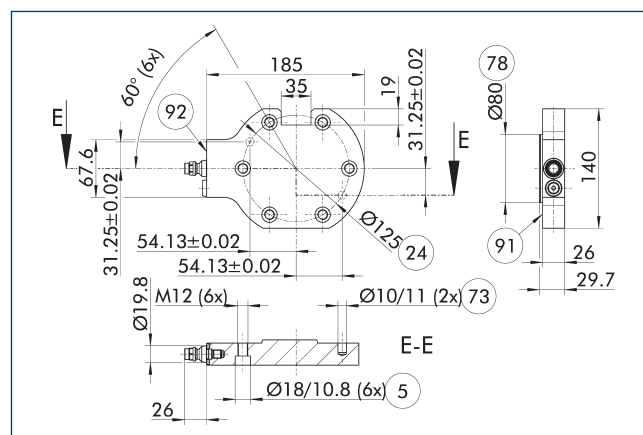
Description	ID	matching tool changer
Adapter plates		
CTS B-100-AH-CPS060	1523828	CPS 060
CTS B-100-AH-V-CPS060	1523862	CPS 060

Adapter plate CTS B-100-AH-CPS076



- ⑤ Through hole for connection with screws
- ②4 Bolt circle
- ⑦3 Fit for centering pins
- ⑦8 Fit for centering
- ⑨0 Anti-twist protection (only with the adapter plate for CTS B -V)
- ⑨1 Mounting side CPS-A
- ⑨2 Mounting side CTS B (-V)

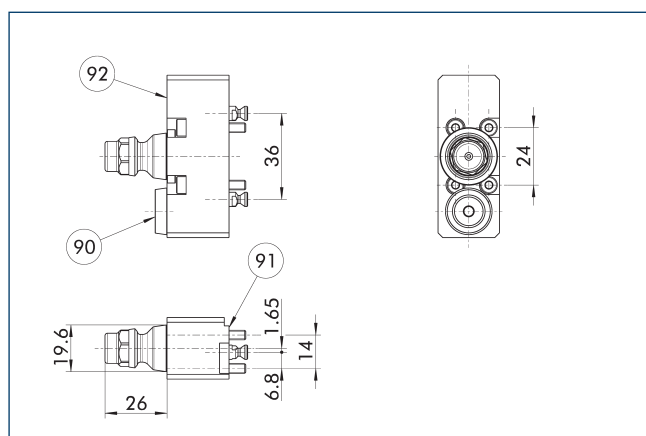
Description	ID	matching tool changer
Adapter plates		
CTS B-100-AH-CPS071	1523830	CPS 071
CTS B-100-AH-V-CPS071	1523865	CPS 071



- ⑤ Through hole for connection with screws
- ②4 Bolt circle
- ⑦3 Fit for centering pins
- ⑦8 Fit for centering
- ⑨0 Anti-twist protection (only with the adapter plate for CTS B -V)
- ⑨1 Mounting side CPS-A
- ⑨2 Mounting side CTS B (-V)

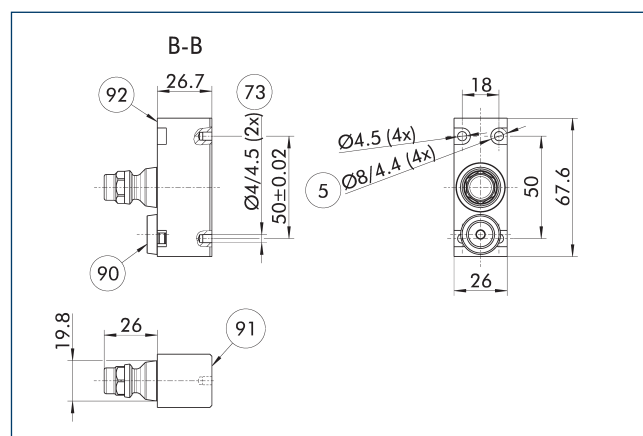
Description	ID	matching tool changer
Adapter plates		
CTS B-100-AH-CPS076	1523831	CPS 076
CTS B-100-AH-V-CPS076	1523869	CPS 076

Adapter plate CTS B-100-AV-J



- 90 Anti-twist protection (only with the adapter plate for CTS B -V)
 91 Mounting side CPB-A
 92 Mounting side CTS B (-V)

Description	ID	matching tool changer
Adapter plates		
CTS B-100-AV-CPB063-080	1622631	CPB 063, CPB 080
CTS B-100-AV-V-CPB063-080	1624154	CPB 063, CPB 080



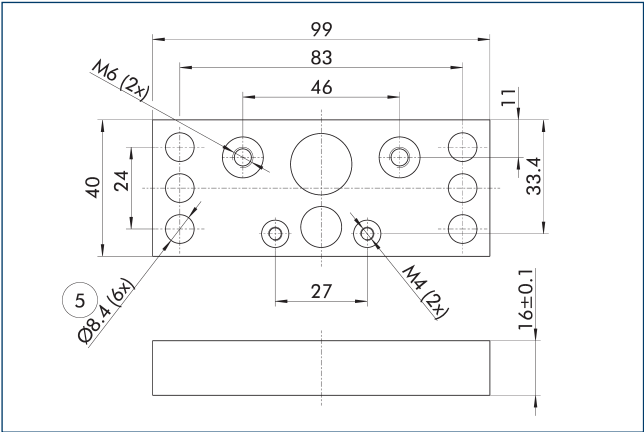
- ⑤ Through hole for connection with screws
- ⑦③ Fit for centering pins
- ⑨0 Anti-twist protection (only with the adapter plate for CTS B -V)
- ⑨1 Mounting side CPS-A
- ⑨2 Mounting side CTS B (-V)

Description	ID	matching tool changer
Adapter plates		
CTS B-100-AV-J	1523836	CPS 029, CPS 040, CPS 041, CPS 046, CPS 060, CPS 071, 076, CPB 100
CTS B-100-AV-V-J	1523875	CPS 029, CPS 040, CPS 041, CPS 046, CPS 060, CPS 071, 076, CPB 100

CTS B-100

Storage module

Mounting plate CTS B-MP-0



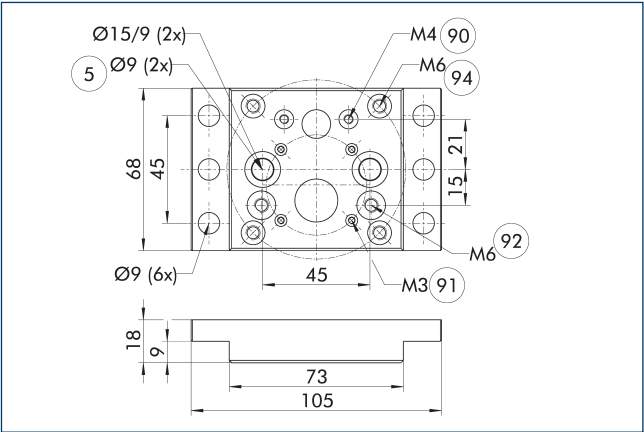
- ⑤ Through hole for connection with screws

Mounting plate for fastening and centering of the CTS B. The mounting plate is optional but recommended to ensure high-precision positioning.

Description	ID	
Mounting plate		
CTS B-MP-0	1489443	

- ① The mounting plate is only suitable for the passive storage module.

Mounting plate CTS B-MP-1

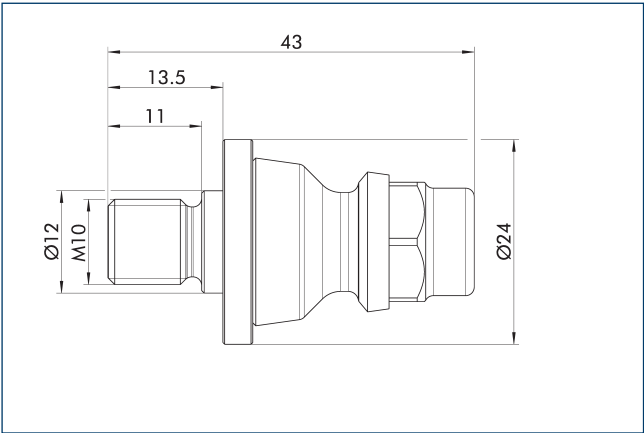


- ⑤ Through hole for connection with screws
⑨① CTS B-MM-016-V
⑨② CTS B-MM-100
⑨③ CTS B-MM-100-V

Mounting plate for fastening and centering of the CTS B. The mounting plate is optional but recommended to ensure high-precision positioning.

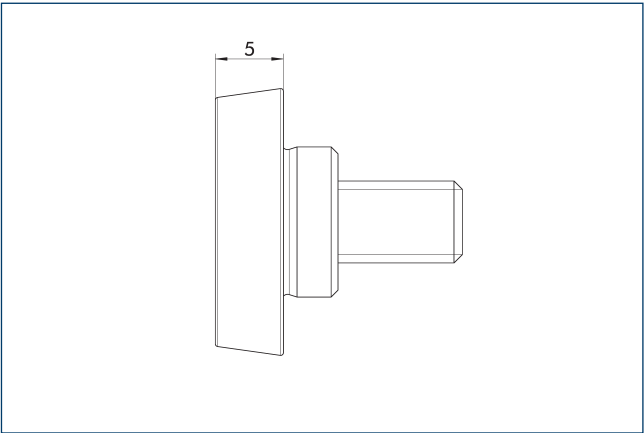
Description	ID	
Mounting plate		
CTS B-MP-1	1594752	

Storage bolt CTS B-100-AB



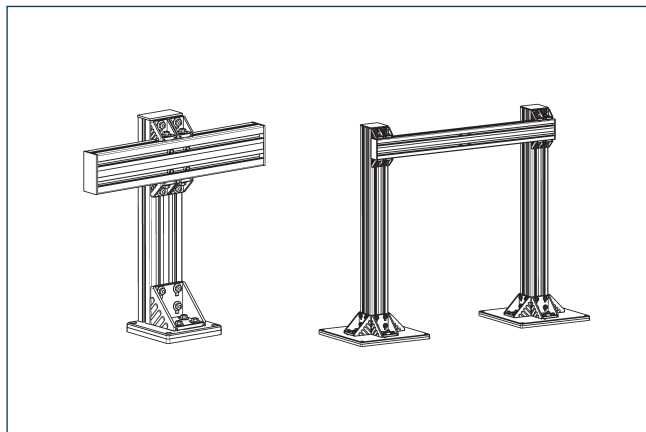
Description	ID	
Storage pins		
CTS B-100-AB	1529834	

Anti-twist protection CTS B-100-V



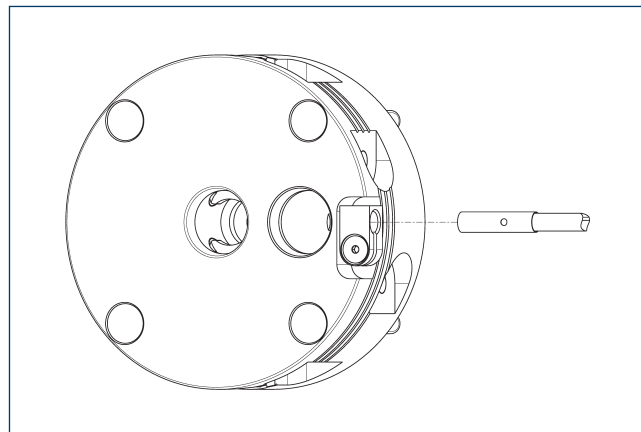
Description	ID	
Anti-rotation protection		
CTS B-100-V-AR	1542889	

Profile



Description	ID	
Mounting bracket		
CTS MB-45x45	1332525	
Base plate		
CTS BP-90x90	1604713	
Cross profile 45 x 90 mm		
CTS PH-45x90-1200	1356073	
CTS PH-45x90-1500	1496166	
CTS PH-45x90-300	1564976	
CTS PH-45x90-460	0303229	
CTS PH-45x90-610	1419762	
CTS PH-45x90-920	0303228	
Stand profile section 90 x 90 mm		
CTS PV-90x90-1220	1564972	
CTS PV-90x90-1830	1564974	
CTS PV-90x90-650	1564970	
CTS PV-90x90-920	1564971	
Attachment bracket		
CTS BB-90x90	0302581	

Tool presence monitoring CTS B-V

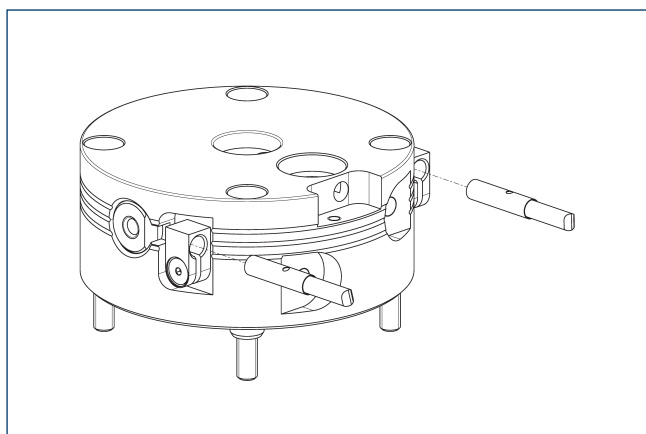


The attachment kit includes one sensor and two brackets.

Description	ID	
Attachment kit for proximity switch		
AS-CTS-B-V-IN30-T	1523878	

① This attachment kit is optional and must be ordered separately as an accessory.

Locking monitoring CTS B -V



One sensor and one bracket are included in each attachment kit. Two attachment kits are required to monitor both states (locked/unlocked).

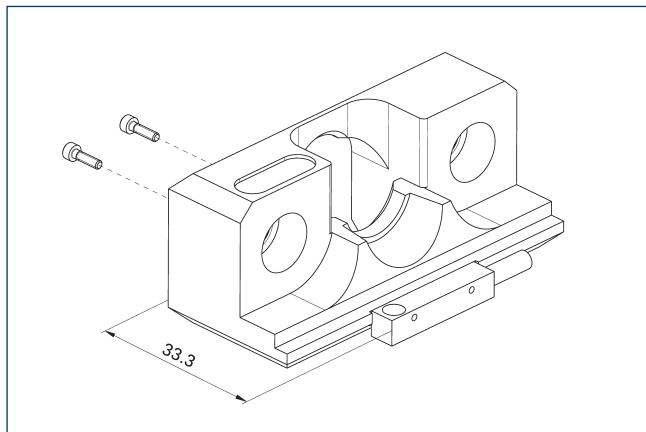
Description	ID	
Attachment kit for proximity switch		
AS-CTS-B-V-IN30K-L	1523876	

① This attachment kit is optional and must be ordered separately as an accessory.

CTS B-100

Storage module

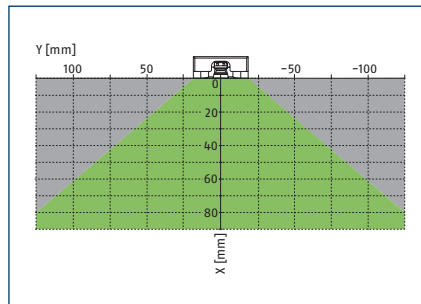
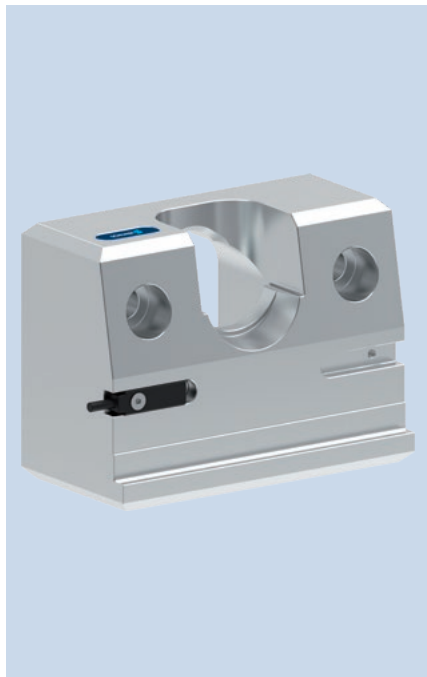
Tool presence monitoring CTS B



The sensor is screwed onto the storage module from behind. When using a sensor system, a mounting plate is recommended.

Description	ID	Often combined
Inductive proximity switch		
IN 5-S-M12	0301569	
IN 5-S-M8	0301469	
Connection cables		
KA BG08-L 3P-0300-PNP	0301622	●
KA BG08-L 3P-0500-PNP	0301623	
KA BG12-L 3P-0500-PNP	30016369	
KA BW08-L 3P-0300-PNP	0301594	
KA BW08-L 3P-0500-PNP	0301502	
KA BW12-L 3P-0300-PNP	0301503	
KA BW12-L 3P-0500-PNP	0301507	
Clip for connector/socket		
CLI-M12	0301464	
CLI-M8	0301463	
Cable extension		
KV BG12-SG12 3P-0030-PNP	0301999	
KV BG12-SG12 3P-0060-PNP	0301998	
KV BW08-SG08 3P-0030-PNP	0301495	
KV BW08-SG08 3P-0100-PNP	0301496	
KV BW08-SG08 3P-0200-PNP	0301497	●
KV BW12-SG12 3P-0030-PNP	0301595	
KV BW12-SG12 3P-0100-PNP	0301596	
KV BW12-SG12 3P-0200-PNP	0301597	
Sensor distributor		
V2-M12	0301776	●
V2-M8	0301775	●
V4-M8	0301746	
V8-M8	0301751	

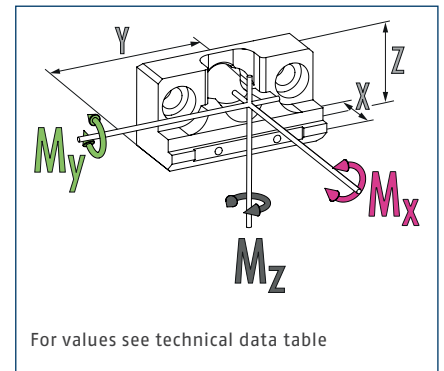
Center of gravity position of tool, passive variant



- Permitted range
- Inadmissible range

For the passive variant, the center of gravity of the tool must be within the permissible range according to the diagram. In addition, the occurring moments must not exceed the permissible values.

Dimensions and maximum loads

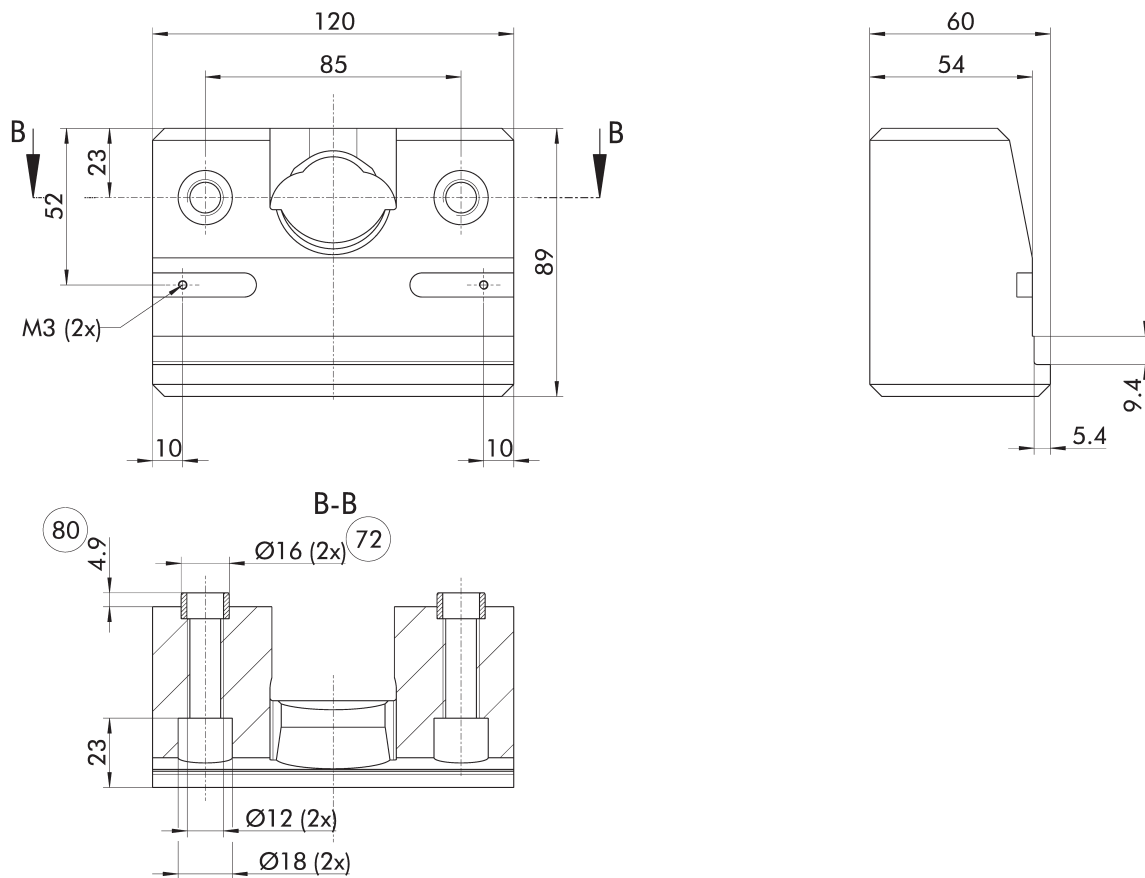


- ① This is the max. sum of all static loads that are permitted to act on the storage system to ensure error-free functioning.

Technical data

Description		CTS B-300-MM	CTS B-300-MM-V
Variant		Passive	Active
ID		1594565	1594567
Recommended CPS size		110, 160, 210	110, 160, 210
Recommended CPB size		125, 160	125, 160
max. load capacity	[kg]	300	300
Installation position		horizontal	any
Pull-down force, spring	[N]		2500
Pull-down force, turbo	[N]		12000
Pneumatic connection thread open			G1/8"
Pneumatic connection thread Turbo			G1/8"
Tool presence monitoring		optional	optional
Unlocking pressure	[bar]		6
Actuation pressure	[bar]		6
Min./max. ambient temperature	[°C]	5/60	5/60
Weight	[kg]	2.87	4.38
Moment load Mx	[Nm]	900	900
Moment load My	[Nm]	900	900
Moment load Mz	[Nm]		900

Main view CTS B-300-MM



The drawing shows the storage module in the basic version.

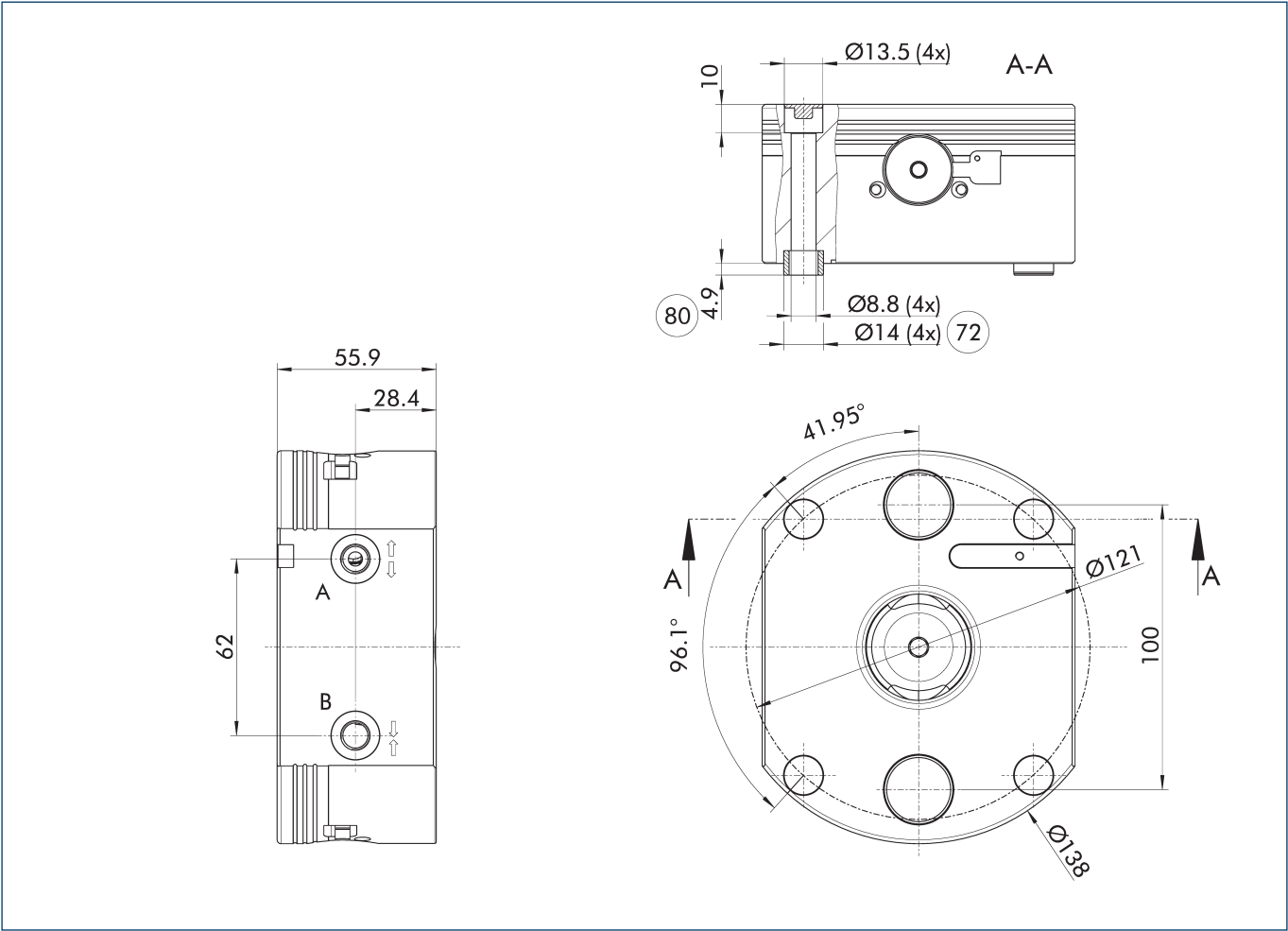
72 Fit for centering sleeves

80 Depth of the centering sleeve hole in the counter part

CTS B-300

Storage module

Main view CTS B-300-MM-V



The drawing shows the storage module in the basic version.

- A

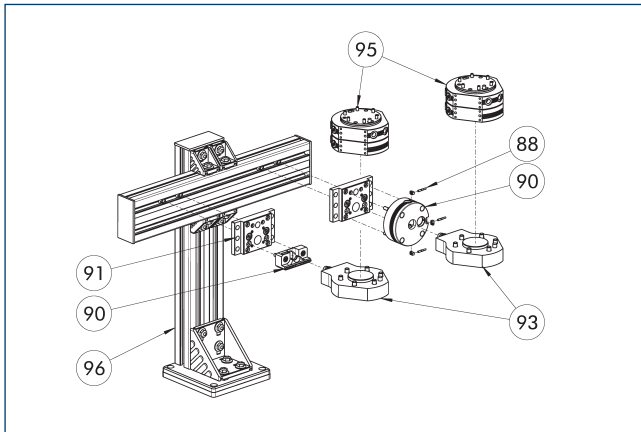
Unlocking
- B

Locking
- 72

Fit for centering sleeves
- 80

Depth of the centering sleeve hole in the counter part

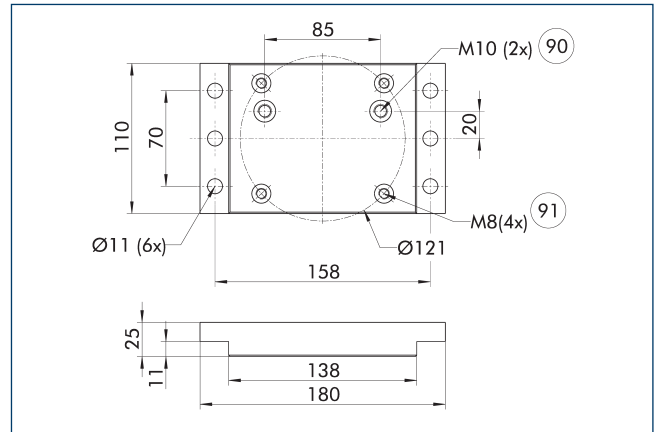
Modular storage rack CTS B



- 88 Sensor system
- 90 Storage module
- 91 Mounting plate
- 93 Adapter plate
- 95 Automatic tool changers CPS
- 96 Profile structure CTS

Description	ID	
Storage pins		
CTS B-300-AB	1594737	
Mounting plate		
CTS B-MP-2	1594753	
Anti-rotation protection		
CTS B-300-V-AR	1594750	

Mounting plate CTS B-MP-2

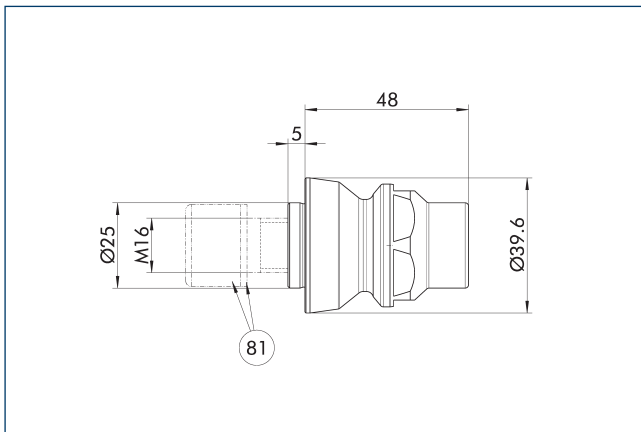


- 5 Through hole for connection with screws
- 90 CTS B-MM-300
- 91 CTS B-MM-300-V

Mounting plate for fastening and centering of the CTS B. The mounting plate is optional but recommended to ensure high-precision positioning.

Description	ID	
Mounting plate		
CTS B-MP-2	1594753	

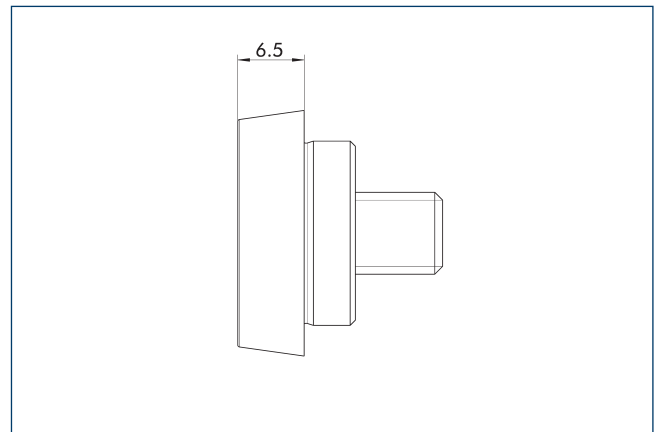
Storage pin CTS B-300-AB



- 81 Not included in the scope of delivery

Description	ID	
Storage pins		
CTS B-300-AB	1594737	

Anti-twist protection CTS B-300-V

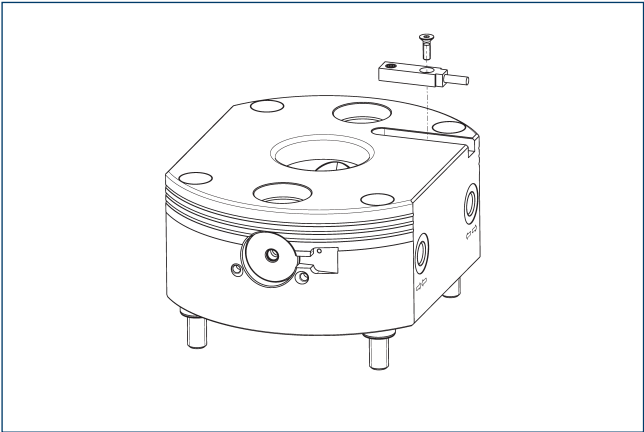


Description	ID	
Anti-rotation protection		
CTS B-300-V-AR	1594750	

CTS B-300

Storage module

Tool presence monitoring CTS B-V

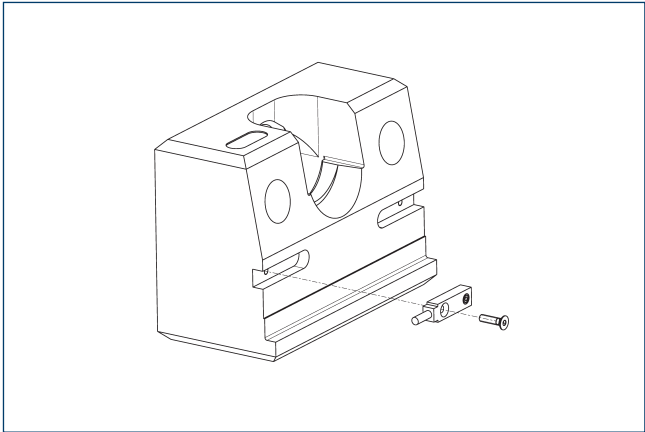


The attachment kit includes one sensor and two brackets.

Description	ID	
Attachment kit for proximity switch		
AS-CTS-B-V-IN30-T	1523878	

- ⓘ This attachment kit is optional and must be ordered separately as an accessory.

Tool presence monitoring CTS B

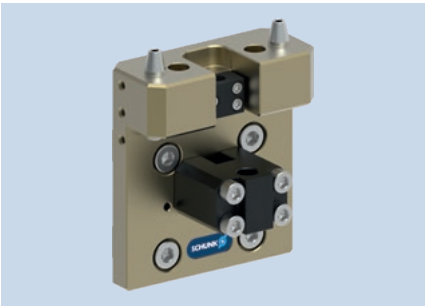


The sensor is screwed onto the storage module from behind. When using a sensor system, a mounting plate is recommended.

Description	ID	
Inductive proximity switch		
INK 8-SL	0302456	

CTS P-050

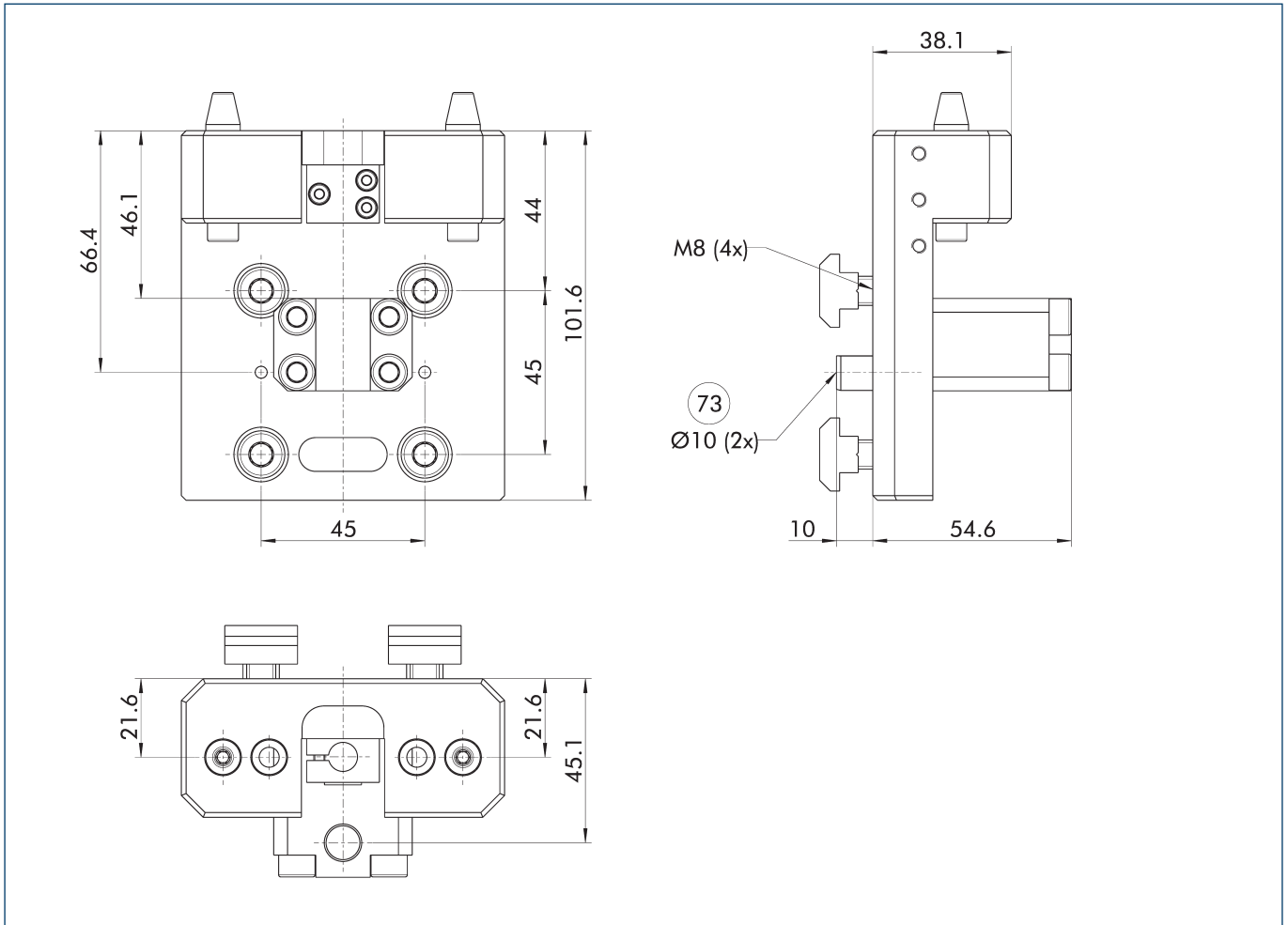
Storage module



Technical data

Description		CTS P-050-MM
ID		1594545
Recommended CPS size		007, 020, 021, 029, 040, 041, 046
max. load capacity	[kg]	50
Installation position		horizontal
Tool presence monitoring		optional
Min./max. ambient temperature	[°C]	5/60
Weight	[kg]	0.875

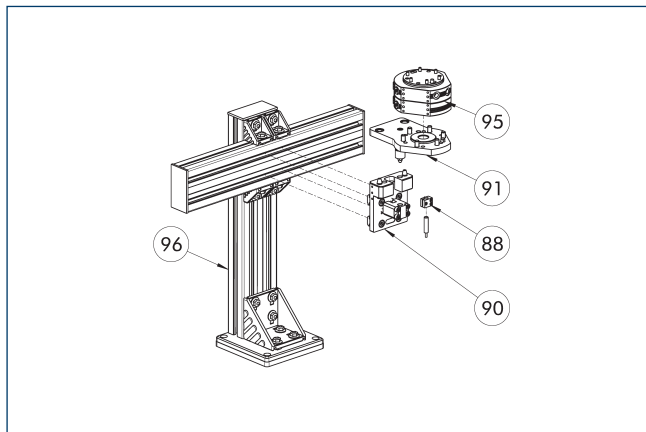
Main view CTS P-050-MM



The drawing shows the storage module in the basic version.

73 Fit for centering pins

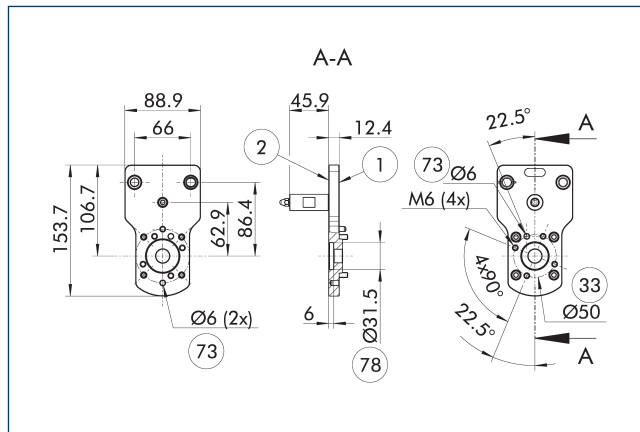
Modular storage rack CTS P



- 88 Sensor system
- 90 Storage module
- 91 Adapter plate
- 95 Tool changer
- 96 Profile structure CTS

Description	ID	
Adapter plates		
CTS P-050-AH-CPS020-021/ISO050	1594592	
CTS P-050-AH-CPS029/ISO050	1594594	
CTS P-050-AH-CPS040/ISO080	1594598	
CTS P-050-AH-CPS041/ISO080	1594601	
CTS P-050-AH-CPS046/ISO100	1594603	
CTS P-050-AV-J	1594590	
CTS P-050-AV-S7	1594578	

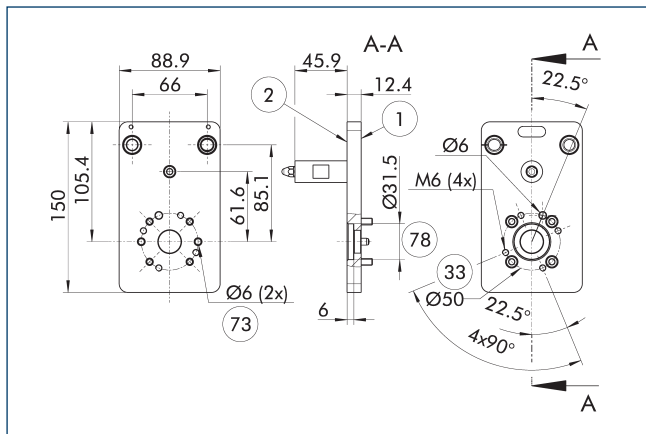
Adapter plate CTS P-050-AH-CPS020-021/ISO050



- 1 Robot-side connection
- 2 Tool-side connection
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins
- 78 Fit for centering

Description	ID	
Adapter plates		
CTS P-050-AH-CPS020-021/ISO050	1594592	

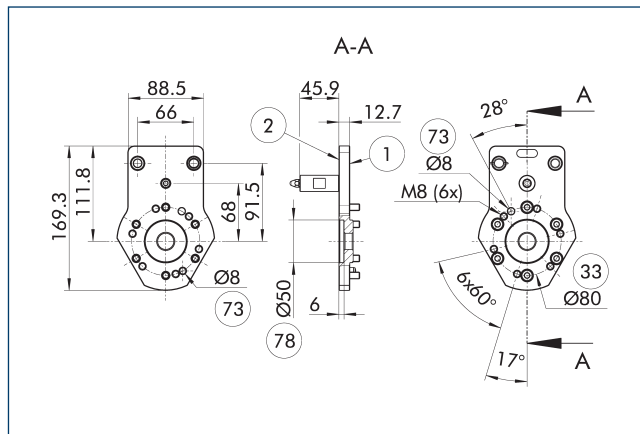
Adapter plate CTS P-050-AH-CPS029/ISO050



- 1 Robot-side connection
- 2 Tool-side connection
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins

Description	ID	
Adapter plates		
CTS P-050-AH-CPS029/ISO050	1594594	

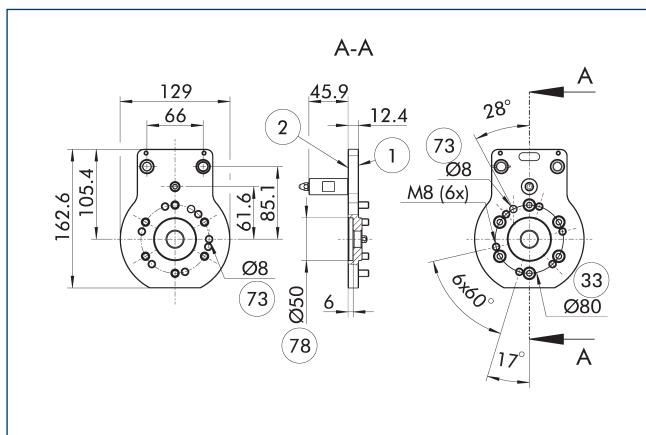
Adapter plate CTS P-050-AH-CPS040/ISO080



- 1 Robot-side connection
- 2 Tool-side connection
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins
- 78 Fit for centering

Description	ID	
Adapter plates		
CTS P-050-AH-CPS040/ISO080	1594598	

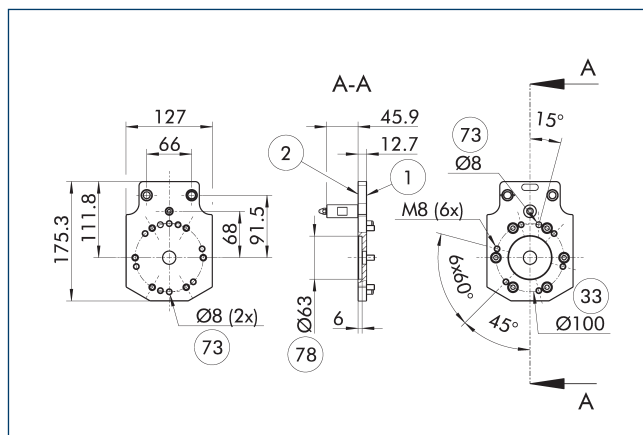
Adapter plate CTS P-050-AH-CPS041/ISO080



- ① Robot-side connection
- ② Tool-side connection
- ③ DIN ISO-9409 bolt circle
- ⑦③ Fit for centering pins
- ⑦⑧ Fit for centering

Description	ID	
Adapter plates		
CTS P-050-AH-CPS041/ISO080	1594601	

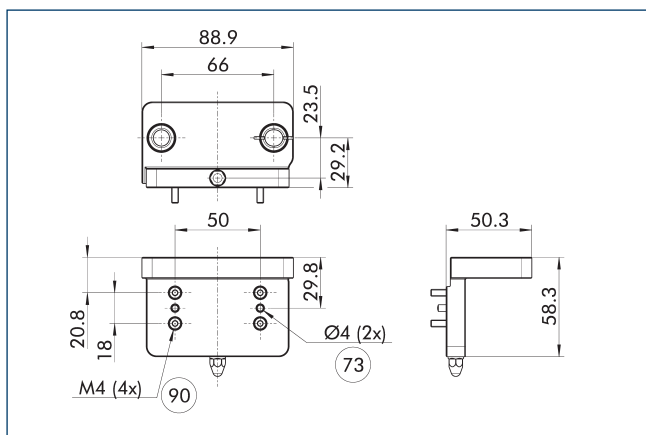
Adapter plate CTS P-050-AH-CPS046/ISO100



- ① Robot-side connection
- ② Tool-side connection
- ③③ DIN ISO-9409 bolt circle
- ⑦③ Fit for centering pins

Description	ID	
Adapter plates		
CTS P-050-AH-CPS046/ISO100	1594603	

Adapter plate CTS P-050-AV-J

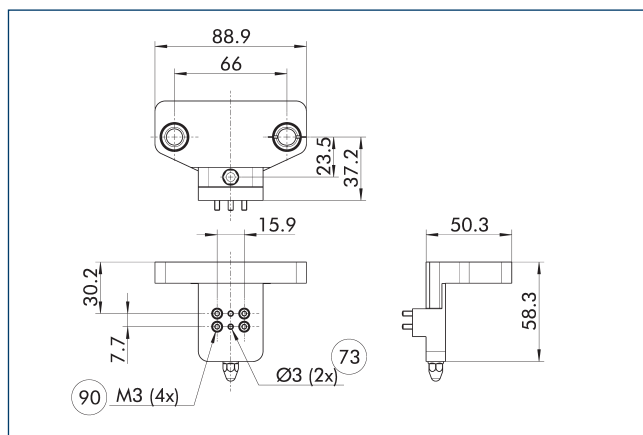


- ⑦③ Fit for centering pins
- ⑨⑩ Tool changer position

Description	ID	
Adapter plates		
CTS P-050-AV-J	1594590	

- ① Adapter plate for direct mounting on the J-interface of the CPS-A

Adapter plate CTS P-050-AV-S7



- ⑦③ Fit for centering pins
- ⑨⑩ Tool changer position

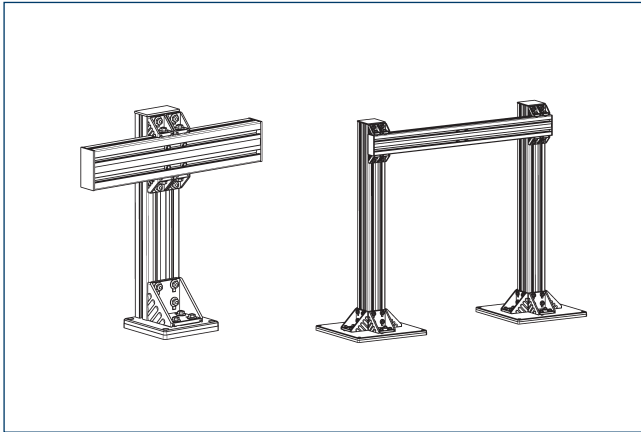
Description	ID	
Adapter plates		
CTS P-050-AV-S7	1594578	

- ① Adapter plate for direct mounting on the S7-interface of the CPS-A

CTS P-050

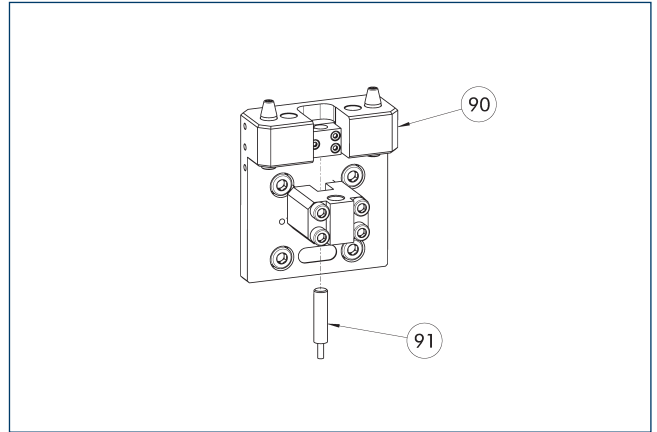
Storage module

Profile



Description	ID	
Mounting bracket		
CTS MB-45x45	1332525	
Base plate		
CTS BP-45x90	0302580	
CTS BP-90x90	1604713	
Cross profile 45 x 90 mm		
CTS PH-45x90-1200	1356073	
CTS PH-45x90-1500	1496166	
CTS PH-45x90-300	1564976	
CTS PH-45x90-460	0303229	
CTS PH-45x90-610	1419762	
CTS PH-45x90-920	0303228	
Stand profile section 45 x 90 mm		
CTS PV-45x90-1300	30070338	
CTS PV-45x90-300	30077021	
CTS PV-45x90-460	1564977	
CTS PV-45x90-610	0302586	
CTS PV-45x90-890	30046674	
Stand profile section 90 x 90 mm		
CTS PV-90x90-1220	1564972	
CTS PV-90x90-1830	1564974	
CTS PV-90x90-650	1564970	
CTS PV-90x90-920	1564971	
Attachment bracket		
CTS BB-90x90	0302581	

Tool presence monitoring CTS P



90 Storage module

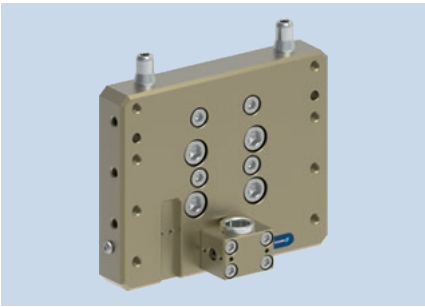
91 Sensor

Description	ID	Often combined
Inductive proximity switch		
IN 80-S-M8	0301478	
Connection cables		
KA BG08-L 3P-0300-PNP	0301622	●
KA BG08-L 3P-0500-PNP	0301623	
KA BW08-L 3P-0300-PNP	0301594	
KA BW08-L 3P-0500-PNP	0301502	
Clip for connector/socket		
CLI-M8	0301463	
Cable extension		
KV BW08-SG08 3P-0030-PNP	0301495	
KV BW08-SG08 3P-0100-PNP	0301496	
KV BW08-SG08 3P-0200-PNP	0301497	●
Sensor distributor		
V2-M8	0301775	●
V4-M8	0301746	
V8-M8	0301751	

① The proximity switches must be ordered separately.

CTS P-150

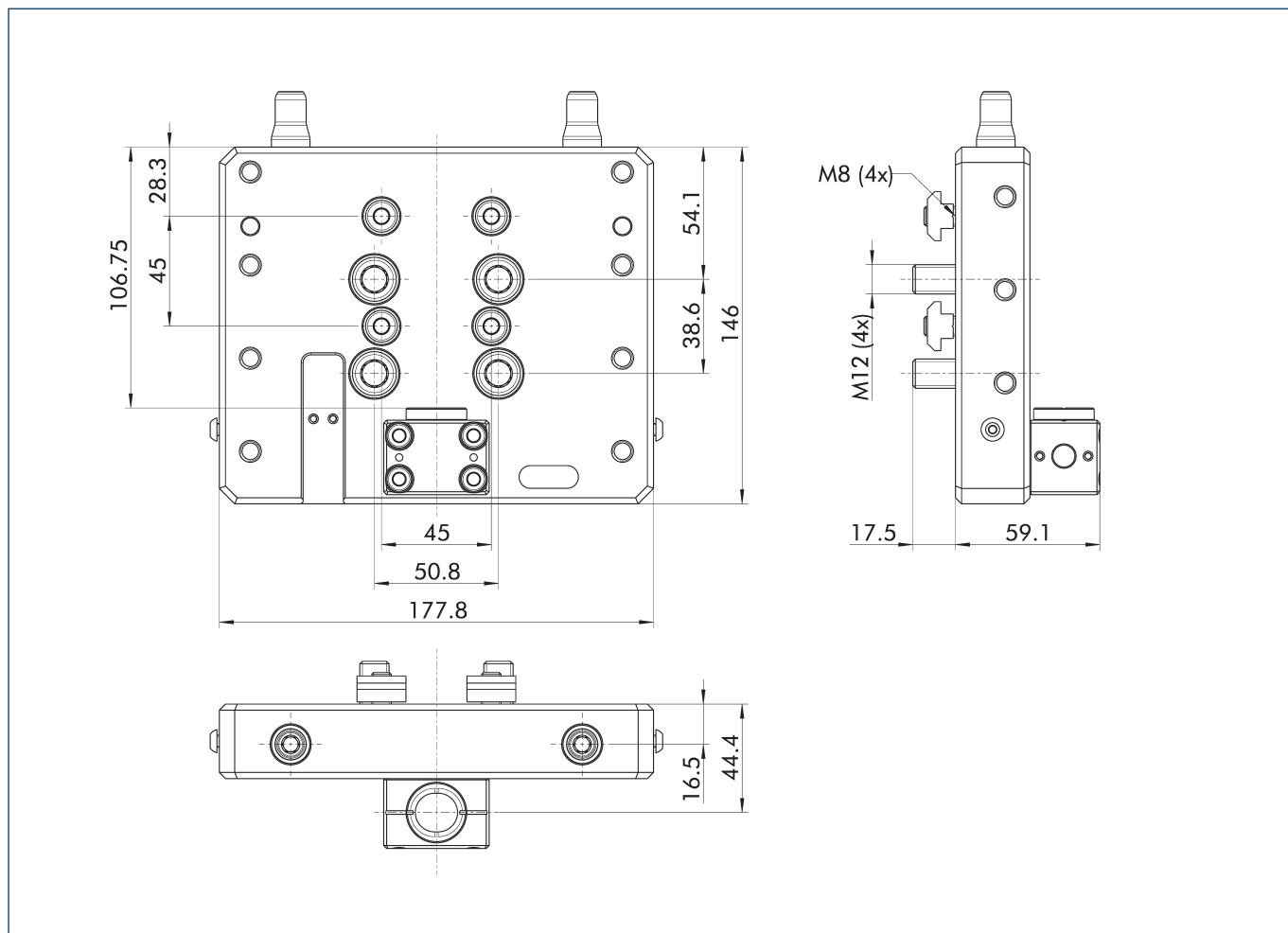
Storage module



Technical data

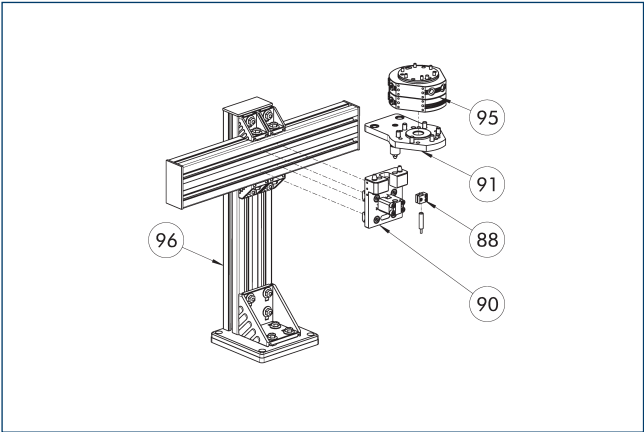
Description		CTS P-150-MM
ID		1594547
Recommended CPS size		060, 071, 076, 110
max. load capacity	[kg]	150
Installation position		horizontal
Tool presence monitoring		optional
Min./max. ambient temperature	[°C]	5/60
Weight	[kg]	2.52

Main view CTS P-150-MM



The drawing shows the storage module in the basic version.

Modular storage rack CTS P



- 88 Sensor system

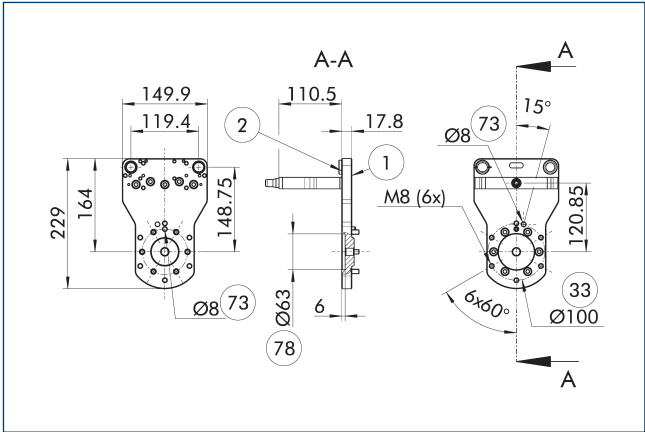
90 Storage module

91 Adapter plate
- 95 Tool changer

96 Profile structure CTS

Description	ID	
Adapter plates		
CTS P-150-AH-CPS060/ISO100	1594604	
CTS P-150-AH-CPS071/ISO100	1594605	
CTS P-150-AH-CPS076/ISO125	1594606	
CTS P-150-AH-CPS110/ISO125	1594607	
CTS P-150-AV-J	1594608	

Adapter plate CTS P-150-AH-CPS060/ISO100



- 1 Robot-side connection

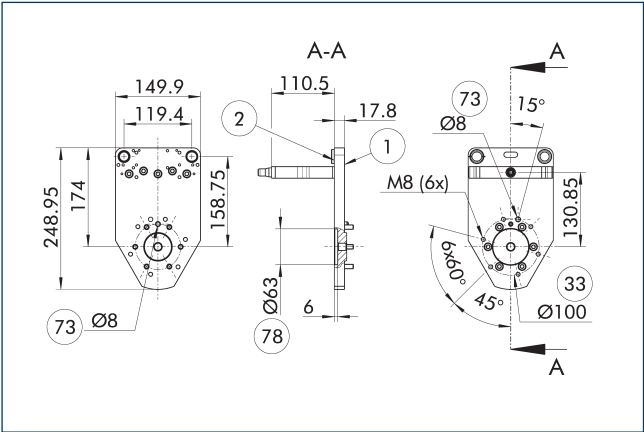
2 Tool-side connection

33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins

78 Fit for centering

Description	ID	
Adapter plates		
CTS P-150-AH-CPS060/ISO100	1594604	

Adapter plate CTS P-150-AH-CPS071/ISO100



- 1 Robot-side connection

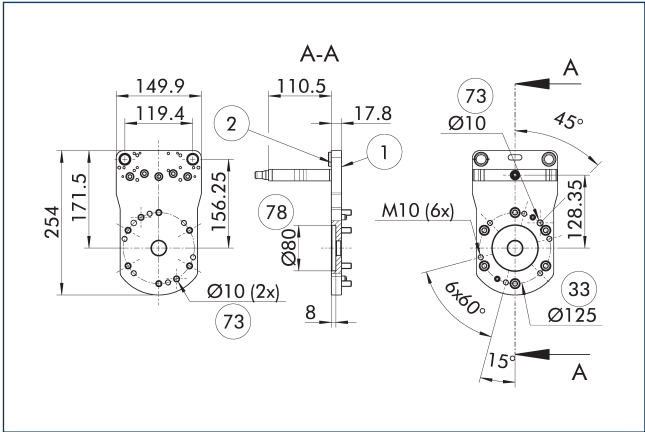
2 Tool-side connection

33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins

78 Fit for centering

Description	ID	
Adapter plates		
CTS P-150-AH-CPS071/ISO100	1594605	

Adapter plate CTS P-150-AH-CPS076/ISO125



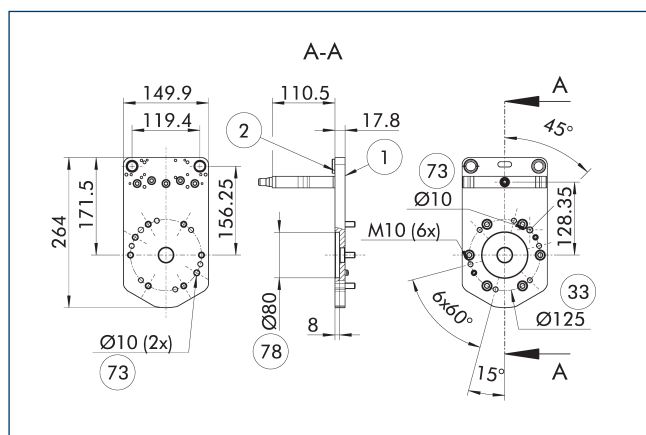
- 1 Robot-side connection

2 Tool-side connection
- 33 DIN ISO-9409 bolt circle

73 Fit for centering pins

Description	ID	
Adapter plates		
CTS P-150-AH-CPS076/ISO125	1594606	

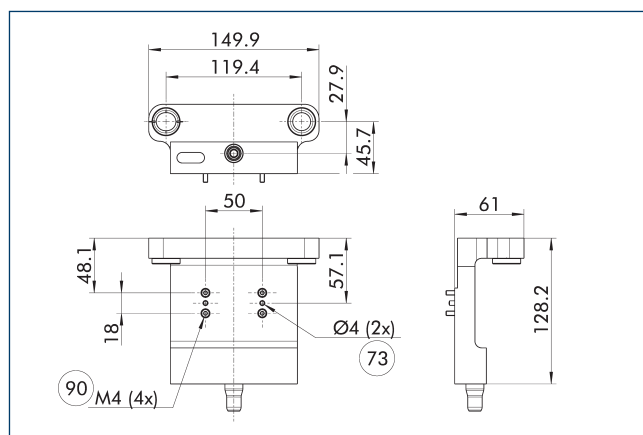
Adapter plate CTS P-150-AH-CPS110/ISO125



- ① Robot-side connection
- ② Tool-side connection
- ③③ DIN ISO-9409 bolt circle
- ⑦③ Fit for centering pins

Description	ID	
Adapter plates		
CTS P-150-AH-CPS110/ISO125	1594607	

Adapter plate CTS P-150-AV-J

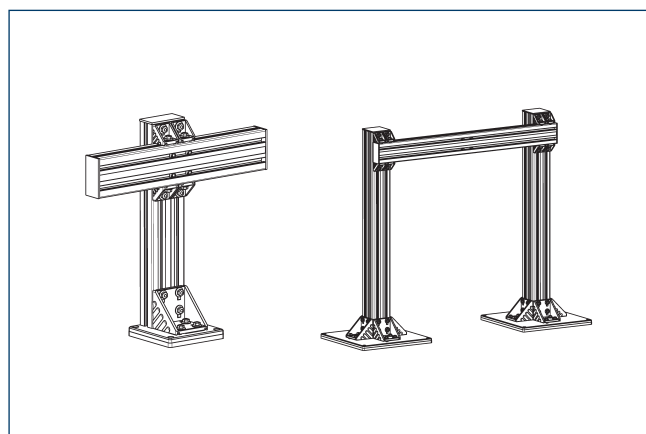


- ⑦③ Fit for centering pins
- ⑨⑨ Tool changer position

Description	ID	
Adapter plates		
CTS P-150-AV-J	1594608	

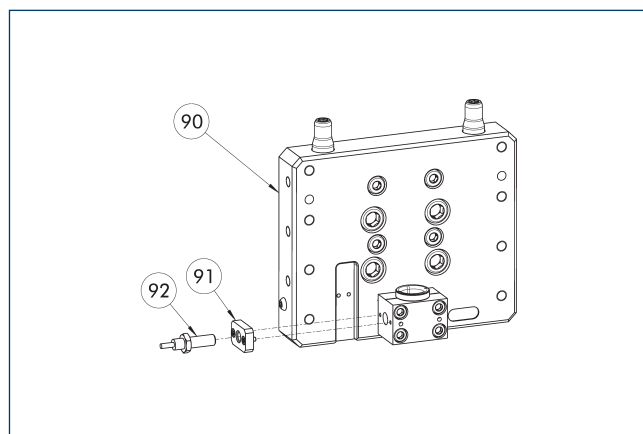
- ① Adapter plate for direct mounting on the J-interface of the CPS-A

Profile



Description	ID	
Mounting bracket		
CTS MB-45x45	1332525	
Base plate		
CTS BP-90x90	1604713	
Cross profile 45 x 90 mm		
CTS PH-45x90-1200	1356073	
CTS PH-45x90-1500	1496166	
CTS PH-45x90-300	1564976	
CTS PH-45x90-460	0303229	
CTS PH-45x90-610	1419762	
CTS PH-45x90-920	0303228	
Stand profile section 90 x 90 mm		
CTS PV-90x90-1220	1564972	
CTS PV-90x90-1830	1564974	
CTS PV-90x90-650	1564970	
CTS PV-90x90-920	1564971	
Attachment bracket		
CTS BB-90x90	0302581	

Tool presence monitoring CTS P



- ⑨⑨ Storage module
- ⑨① Attachment kit
- ⑨② Sensor

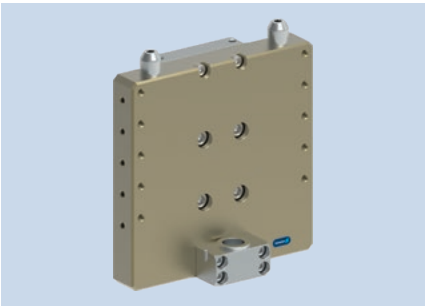
End position monitoring can be mounted with an attachment kit.

Description	ID	
Attachment kit for proximity switch		
AS-CTS-P-150	1594627	
Inductive proximity switch		
IN-C 80-SL-M8-PNP	1619110	

- ① This attachment kit is optional and must be ordered separately as an accessory.

CTS P-500

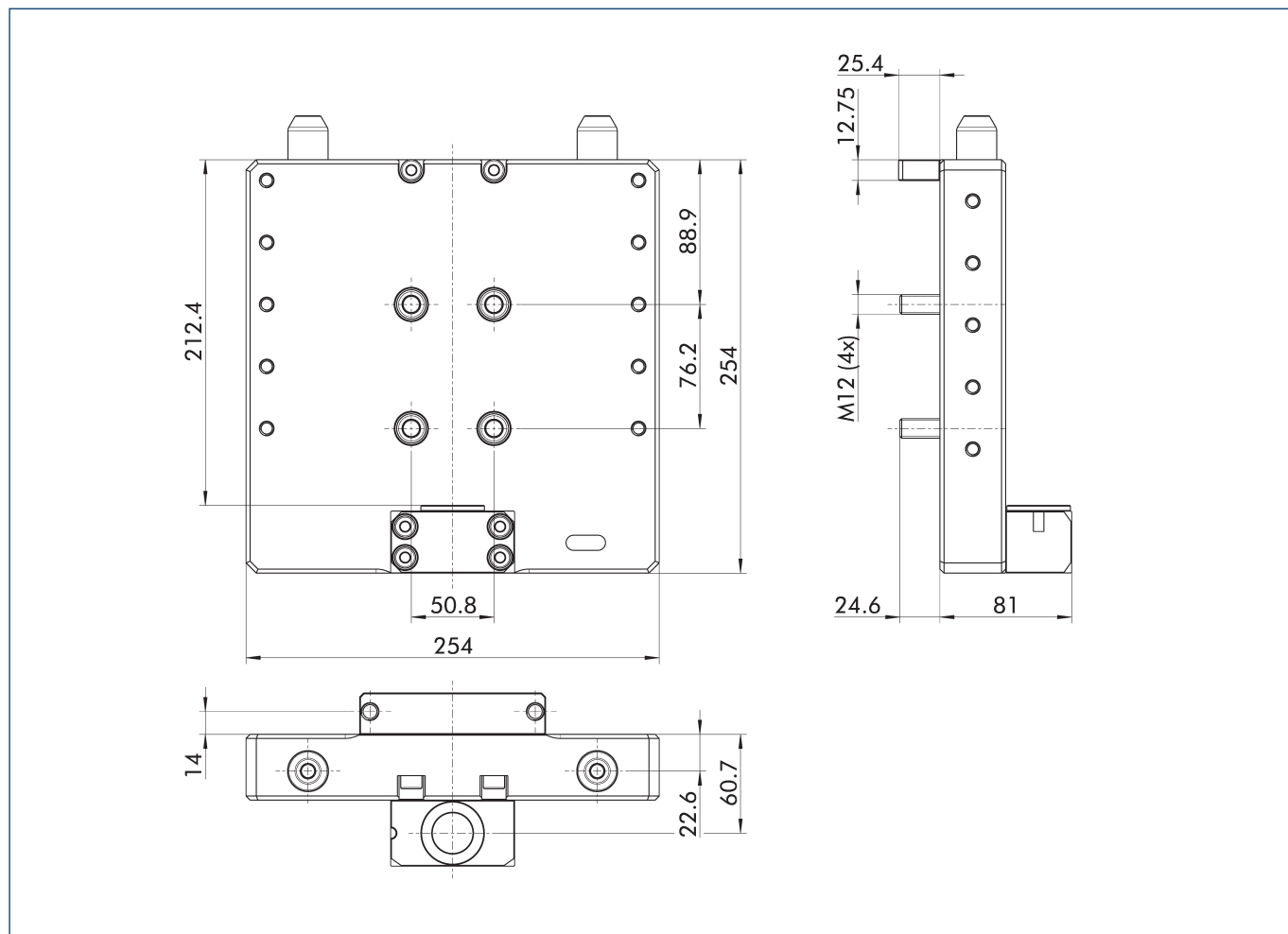
Storage module



Technical data

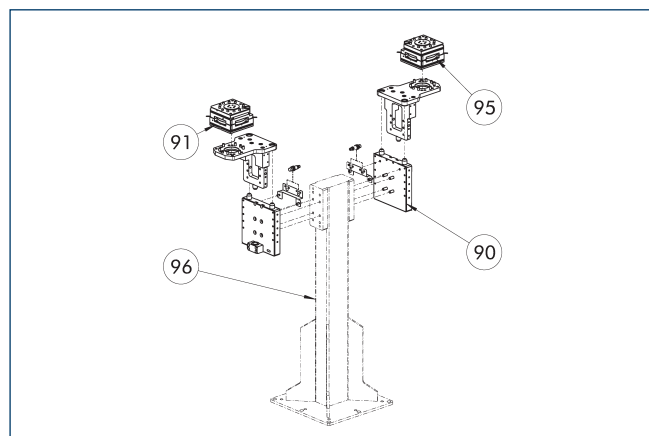
Description		CTS P-500-MM
ID		1594549
Recommended CPS size		160, 210, 310
max. load capacity	[kg]	500
Installation position		horizontal
Tool presence monitoring		optional
Min./max. ambient temperature	[°C]	5/60
Weight	[kg]	8

Main view CTS P-500-MM



The drawing shows the storage module in the basic version.

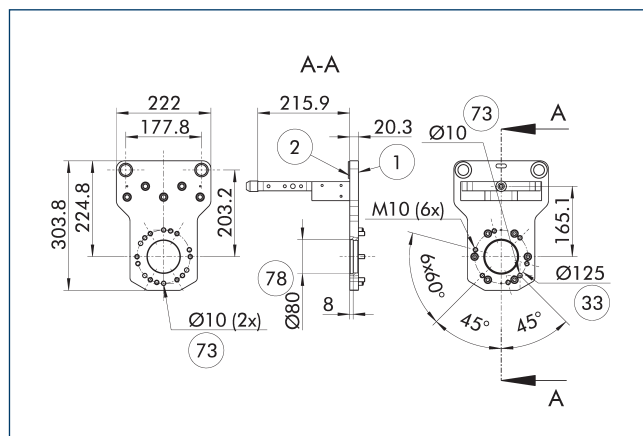
Modular storage rack CTS P



- 90 Storage module
- 91 Adapter plate
- 95 Automatic tool changers CPS
- 96 Tool stand

Description	ID	
Adapter plates		
CTS P-150-AH-CPS160-210/ISO125	1594609	
CTS P-500-AH-CPS310/ISO160	1594620	
CTS P-500-AV-ISO125	1594621	

Adapter plate CTS P-500-AH-CPS160-210/ISO125



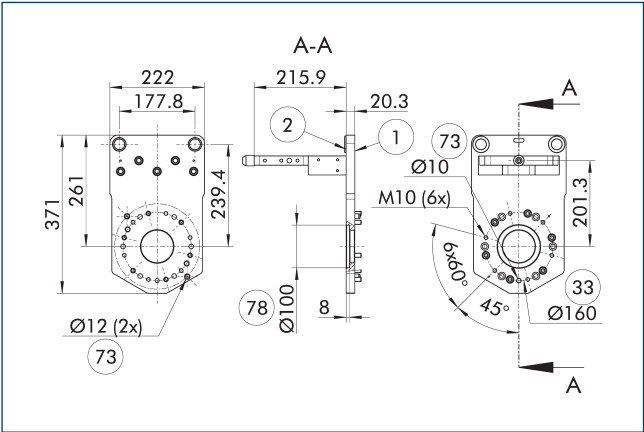
- 1 Robot-side connection
- 2 Tool-side connection
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins

Description	ID	
Adapter plates		
CTS P-150-AH-CPS160-210/ISO125	1594609	

CTS P-500

Storage module

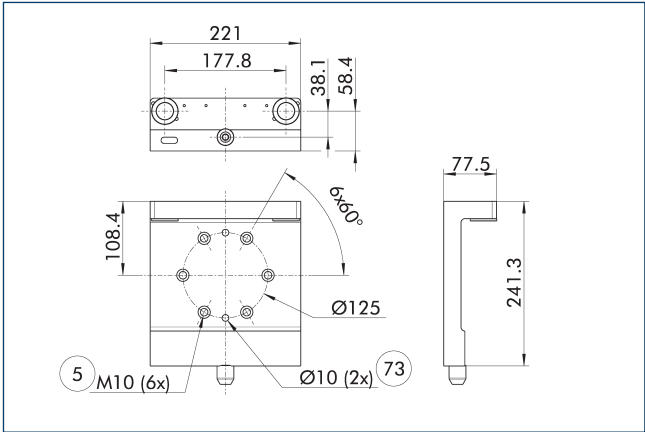
Adapter plate CTS P-500-AH-CPS310/ISO160



- ① Robot-side connection
- ② Tool-side connection
- ③③ DIN ISO-9409 bolt circle
- ⑦⑦ Fit for centering pins

Description	ID	
Adapter plates		
CTS P-500-AH-CPS310/ISO160	1594620	

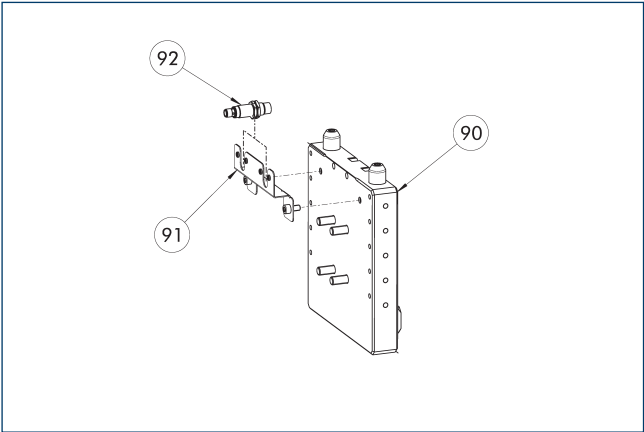
Adapter plate CTS P-500-AV-ISO125



- ⑦⑦ Fit for centering pins
- ⑨⑨ Tool changer position

Description	ID	
Adapter plates		
CTS P-500-AV-ISO125	1594621	

Tool presence monitoring CTS P



- ⑨⑨ Storage module
- ⑨① Attachment kit
- ⑨② Sensor

End position monitoring can be mounted with an attachment kit.

Description	ID	
Attachment kit for proximity switch		
AS-CTS-P-500	1594628	
Inductive proximity switch		
IN-B 180 S-M8	0303244	

ⓘ This attachment kit is optional and must be ordered separately as an accessory.



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