FAST MOVING TECHNOLOGY

STÄUBLI

MPS
Robotic Tool Changing Systems

Productivity for all industrial sectors

Table of contents

R **Base unit robot side**

T **Base unit tool side**

Process safety
Maximum process safety for equipment and personnel

Flexibility
for maximum function diversity in robotic manufacturing processes

Economic efficiency
for cost-effective and sustainable production processes

Productivity
for innovative and quality-optimised production processes

THREE SOLUTIONS

Our systems are just as flexible as your processes

Stäubli robotic tool changing systems are designed according to a modular product concept that guarantees variable multifunctionality and optimum integration into all industrial robot manufacturing processes.
Payload-dependent base units on the robot and tool side are the basis for the three Stäubli tool changing system solutions.

MPS COMPLETE
Ready-to-use application solutions

Our preconfigured complete solutions provide you with ready-to-use robotic tool changing systems:

- The transfer modules are selected on the basis of the global production processes that most often use robotic tool changing systems.
- The products in this range can be delivered at very short notice.
- Additional transfer modules can be added at any time.
- Internationally standardised interfaces ensure the simple and foolproof connection of the robot's dress pack.

MPS MODULAR
Individually configurable solutions

Our individually configurable solutions offer you the full benefits of our modular system by allowing you to configure a robotic tool changer to your specific application:

- You make your selection from our large portfolio of transfer modules and we deliver the fully assembled tool changer to you.
- A simple configuration tool guides you through the entire order process.
- The transfer modules can be positioned for easy connection of the dress pack.
- You can reposition the transfer modules and adapt them to new production technologies as required.

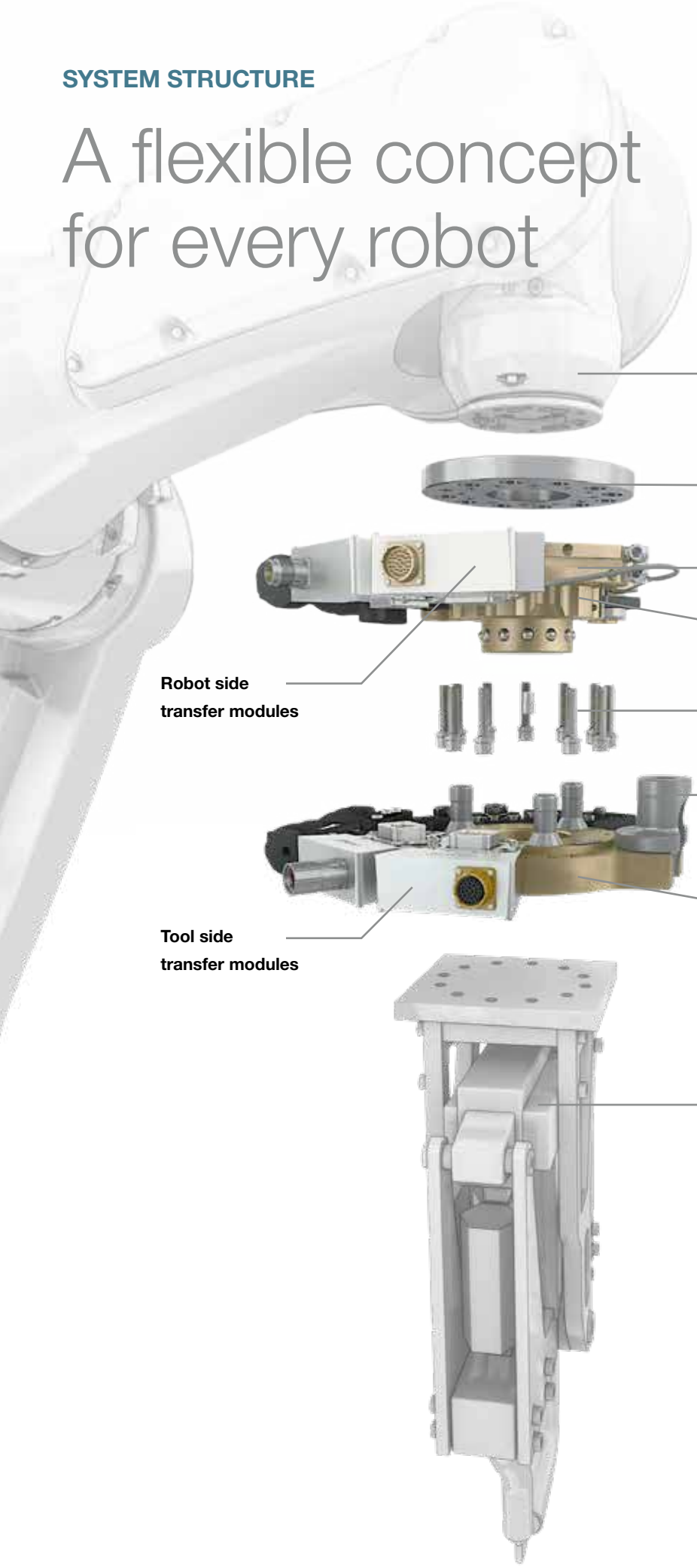
MPS CUSTOMIZED
Customised designs

We custom-make tool changing systems for complex applications requiring special base units or extra equipment:

- The basic units on the robot and tool side, as well as the transfer and safety modules, are optimally adapted to the applications.
- You get a system that is perfectly tailored to all your performance data, material quality and connection requirements.
- Individual tool stands enable the optimum integration of the system into your robot line.

SYSTEM STRUCTURE

A flexible concept for every robot



Robot
Mounting on the robot flange for all makes of robot

Robot adapter flange*

R **Base unit robot side**

Sensors

Robot side transfer modules

Mounting kit robot side

Tool side docking hook

T **Base unit tool side**

Tool side transfer modules

Tool
Connection to the system of applications enabled by the changer modules: welding, die cutting, riveting, gripping, handling, etc.

* Including mounting materials.

TOOL STAND TECHNOLOGY

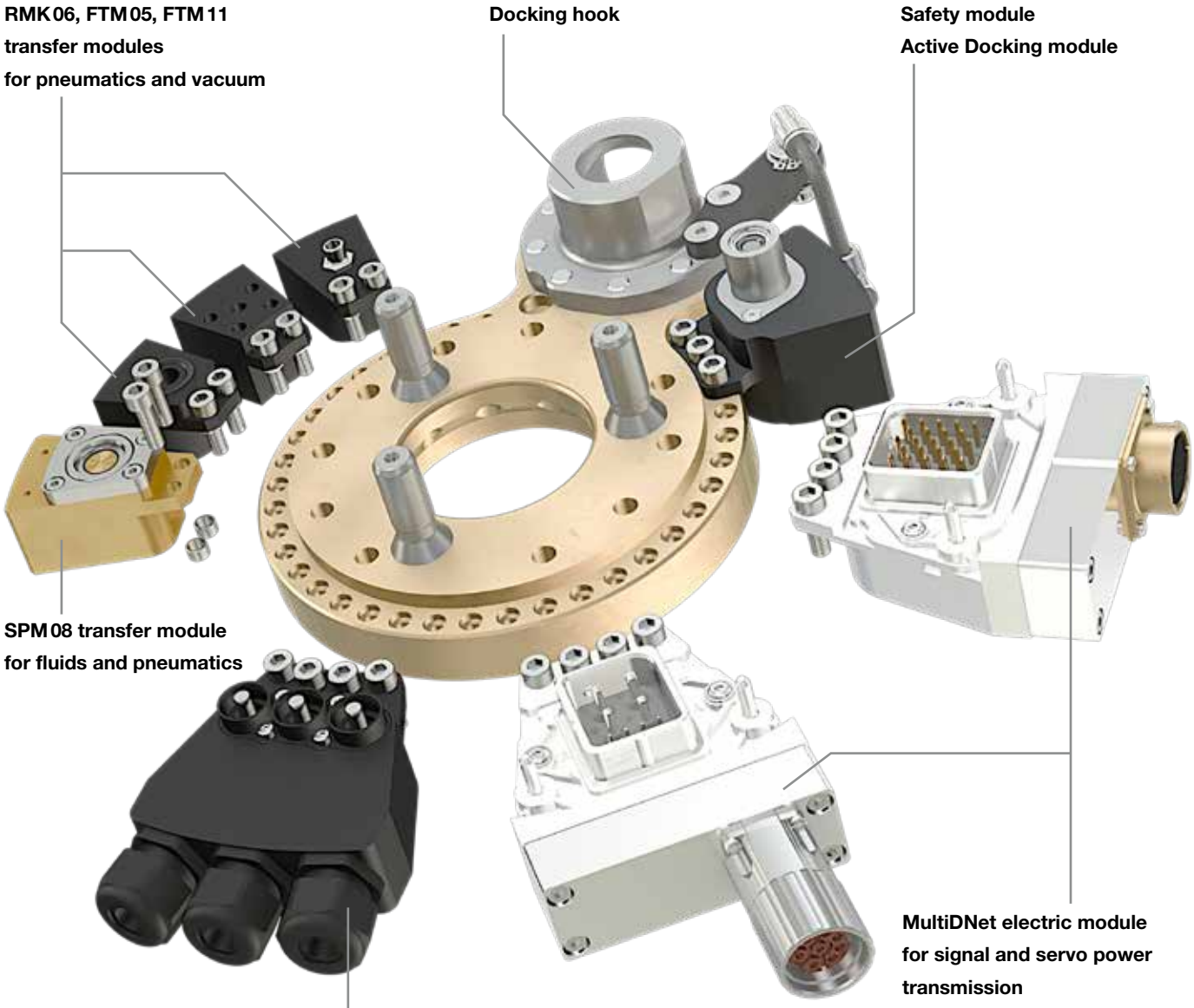
Optimal system integration for maximum efficiency

Further information about tool stand technology can be found here:
for MPS 130 page 34
for MPS 260 page 58.

Tool changing system – robot and tool side

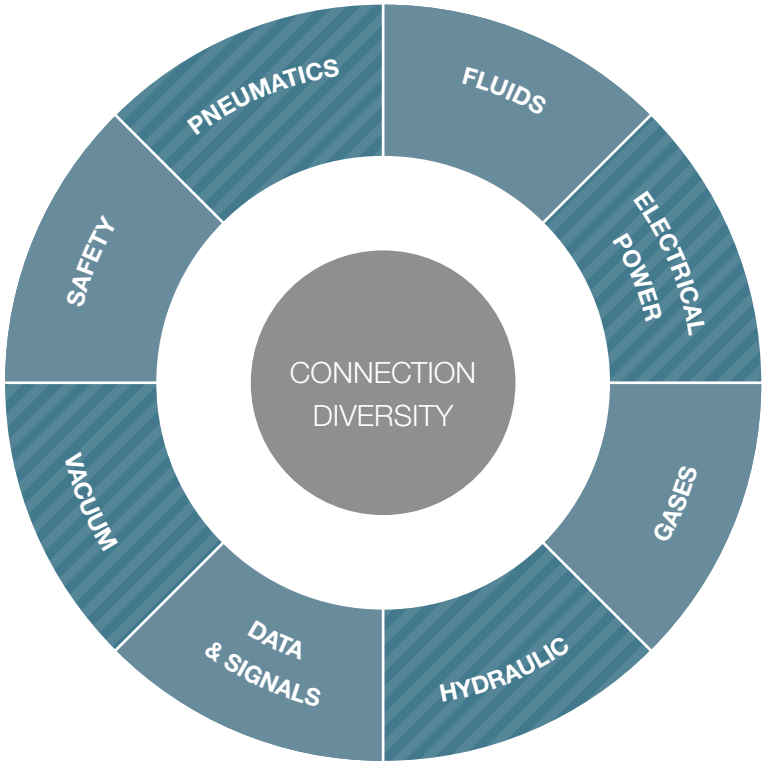
R **Base unit**
robot side

T **Base unit**
tool side



MPS SOLUTION COMPETENCE

Multifunctionality – for technology diversity



Stäubli MPS systems can be equipped with a wide range of transfer modules for different applications. This multifunctional design maximises production efficiency because it covers the entire spectrum of industrial robot applications. The Stäubli MPS systems incorporate more than 60 years of expertise in coupling technology for electrical and other media – and they exploit the full potential of robotic production technology.

The basic units on the robot and tool side are round in design to maximise flexibility in equipping the tool changer system with a variety of transfer modules.

Flexibility

Robot versatility is guaranteed because diverse modules for media, energy and data transfer can be added to the robotic tool changing systems at any time. As a pioneer in coupling technology with decades of experience, Stäubli can also design individual coupling and connection solutions for very specific requirements.

Productivity

Stäubli robotic tool changers guarantee maximum technology diversity and productivity in a wide range of scenarios: from simple handling applications to various welding methods, punch riveting, screwing, gluing and material transfer applications.

Needs-oriented modularity

The MPS systems are based on a modular concept that provides the ideal platform for a flexible and versatile system. Media and transfer modules developed by Stäubli are easily integrated into the changers for all robot applications.

On the robot side, the tool changers are already equipped with the maximum configuration of transfer modules for your applications on delivery, and the tool side is equipped with the transfer modules that you actually need for the respective tool.

Flexibility

The modular design makes it possible to adapt the system at any time. This allows you to make unlimited, flexible changes to your robot manufacturing processes. The robotic tool changer's scope of function can be adapted to changing requirements and new technologies at any time.

Economic efficiency

You only populate the MPS base units on the tool side with the transfer modules that are necessary for the respective tool's production technology. This reduces the investment volume to a minimum.

Gripping/ welding

R

Gripping

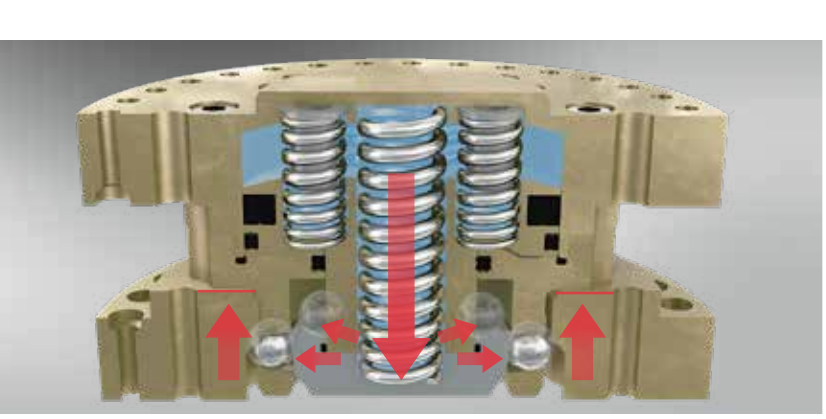
T

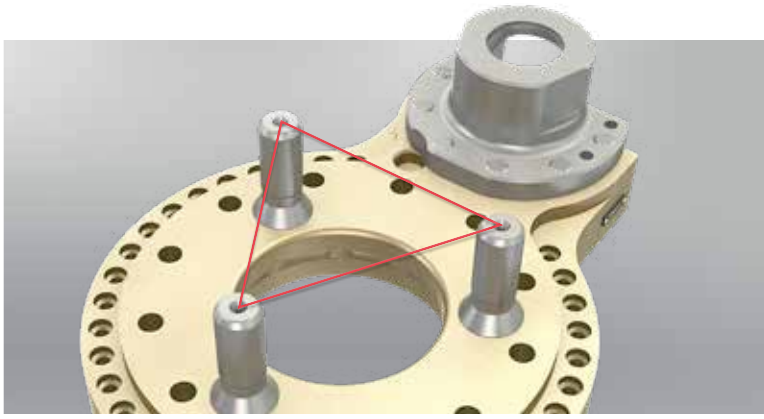
Welding

T

MPS SOLUTION COMPETENCE

Powerful base unit – completely backlash-free locking





Powerful and precise locking for safe and error-free processes

Stäubli tool changing systems ensure a friction-locked and absolutely backlash-free connection between the robot and the tool. The smart design of the robotic tool changer ensures absolute precision and a long service life.

The robot and tool side are pre-cantered and brought together via three guide columns. The conical locking surfaces ensure high-precision and backlash-free locking. A large number of high-strength locking balls maintain the friction lock between robot and tool.

Process safety

You benefit from the precise repeatability of the changer system (+/- 0.01 mm). Even when the number of change cycles is high, the tools are brought to their exact operating position, and precisely placed on the tool stand. Designed for horizontal or vertical use, the tool stand with optional tool support is an integral part of the system.

Economic efficiency

Backlash-free locking means that even extremely bulky tools can be precisely positioned in the respective manufacturing process for consistent product quality.

Productivity

The lock is designed for a very high number of change cycles. This guarantees permanent precision and maximises production output.

Smart details – for perfect connections

Coupling technology that guarantees maximum power transmission

As the global market leader in high-quality coupling technology, Stäubli has been developing and designing connection solutions for media, data and energy transmission for decades. In industrial applications these solutions have proven to be reliable over time and demonstrate a low level of wear and tear, even under tough operating conditions.

Stäubli designs durable and robust transfer modules for robotic tool changing systems that conform to a high level of quality. As a result of their highly efficient and intelligent design concepts, both the media couplings and the electrical plug connections guarantee 100% power transmission. For example, MULTILAM technology minimises contact resistance and maximises contact intensity in electrical signal transmission – even with high-power current.

The sophisticated valve technology of the liquid and gas transfer modules ensures high flow rates and prevents contamination on the production line due to media leakage.

Process safety

Constant and maximum media and energy transfer is guaranteed in the long term.

Economic efficiency

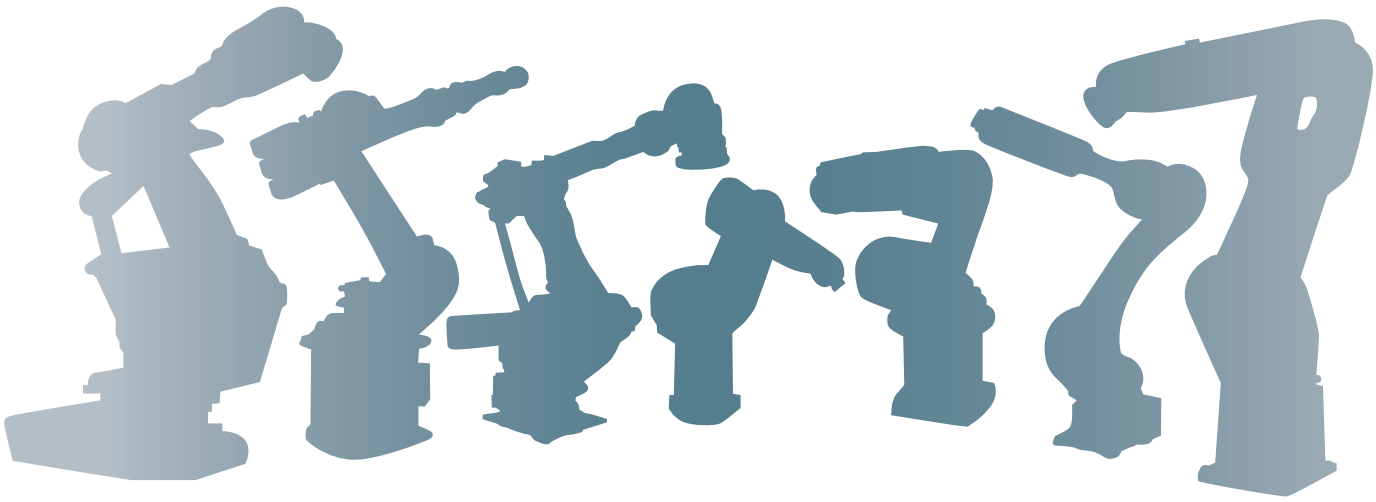
The Stäubli transfer modules are designed for an extremely high number of mating cycles and therefore have a very long service life.

MPS SOLUTION COMPETENCE

One system for all robots

Stäubli's competence in all aspects of robotic tool changing systems draws on its decades of experience as a robot and coupling manufacturer. Based on its in-depth technical know-how relating to the industrial requirements of robotic production lines, it has developed versatile tool changer solutions that are suitable for robots of all makes.

The MPS systems developed by Stäubli can be installed on any robotic arm anywhere in the world, whatever its type, make or year of production. The changer mounting flanges are based on ISO-standard drilling patterns, but can easily be adapted to other robot flange patterns. The maximum height of the tool changing system in coupled state is restricted to the minimum so that its full load bearing capacity can be exploited.



Certified safety technology for people and plants

Maximum personnel and plant safety is essential in automated processes. Manufacturers and operators of robots and robotic devices have to ensure compliance with the ISO 10218-21 standard. Stäubli robotic tool changers satisfy the demanding requirements of "Performance Level d, Category 3". The safety concept for the Stäubli MPS systems provides very reliable protection for operators and safeguards process quality.

This MPS system safety level can either be achieved by electromechanical transponder technology or with the Active Docking System developed by Stäubli. Both are integral aspects of the product concept. The **transponder option** consists of a safety switch in combination with the Stäubli ISB 200 logic module acting as a bus system-independent safety circuit.

The **Active Docking System** is a proprietary development by Stäubli. The compressed air supply for the decoupling process is provided as a self-sufficient circuit that is only available in the tool stand. This means that the tool can only be unlocked there. Once the robot has picked up a tool and begun using it, the tool cannot be accidentally unlocked because there is no connection to the compressed air supply.

Process safety

Maximum safety of robot systems operators and automated tool change processes are guaranteed.

MPS SOLUTION COMPETENCE

Easy maintenance for maximum productivity

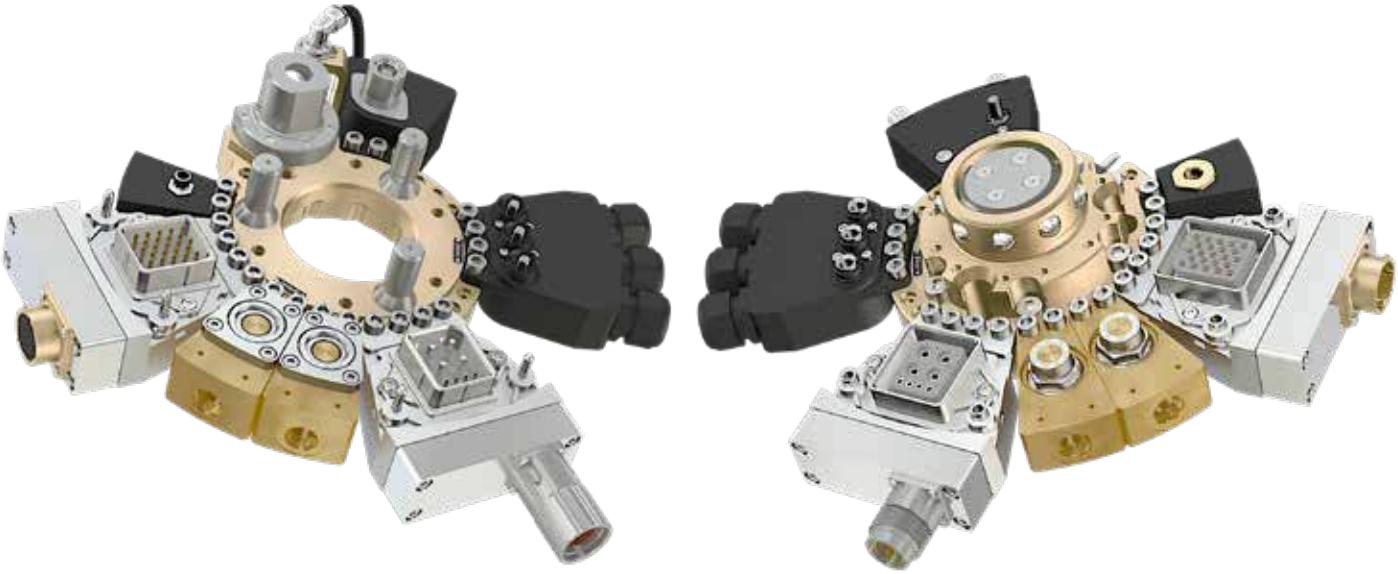
One of the most impressive features of Stäubli MPS systems is that they facilitate the fast replacement of wear parts with the shortest possible interruption of the robot workflow. Stäubli's extensive experience in the development and manufacture of coupling and connecting elements is reflected in the robotic tool changers' service-friendly technologies for simple maintenance.

All transfer modules and connectors can be replaced directly on the MPS system without any need to disassemble the robotic tool changer or disconnect cables and hoses. Complete modules can be quickly replaced on both the robot and the tool side, and wear parts in the modules can also be replaced with a cartridge system (Quick Change Inserts). The cartridges are simply removed from the coupling and connector sleeves and replaced with new ones.

Economic efficiency
The long life of Stäubli components maximises service intervals.

Productivity
The service-friendly design ensures fast maintenance and short downtimes.

Constant precision in millions of dock cycles



All the transfer modules and electrical connectors that are integrated into the various modules have „Floating Contact Technology“ developed by Stäubli. It reduces wear to a minimum and ensures precise and reliable couplings and connections.

The plug nipples and pins in the couplings and connectors are adjusted to each other during the coupling process. This means that, when they dock, the pin enters the socket, and the plug nipple enters the coupling without tilting.

Process safety

The guide columns with high-precision locking surfaces ensure wear-free coupling processes, even with millions of repetitions. This guarantees high productivity in the long term.

Economic efficiency

The long life of the couplings and connectors reduces maintenance – which means less downtime and costs for repairs and replacement parts.

MPS SOLUTION COMPETENCE

Stäubli's global competence and local presence

Stäubli has subsidiaries at major industrial hubs around the world. The experienced engineers there have the detailed, product-specific know-how and application expertise to provide the highest quality of advice to our customers and guarantee fast response times worldwide.

Robotic tool changers are variable systems that have to be efficiently implemented in production processes, so advice to customers on the correct basic and special configurations, adaptations and optimisations is essential. Our global warehousing concept ensures that components and spare parts are quickly delivered to customers around the world.

Flexibility

You receive solutions that comply with all country-specific guidelines and standards. The robotic tool changing systems are adapted to national industrial norms, such as thread standards or information retrieval technologies in sensor systems. Our customers can implement multilateral production concepts thanks to our global network.

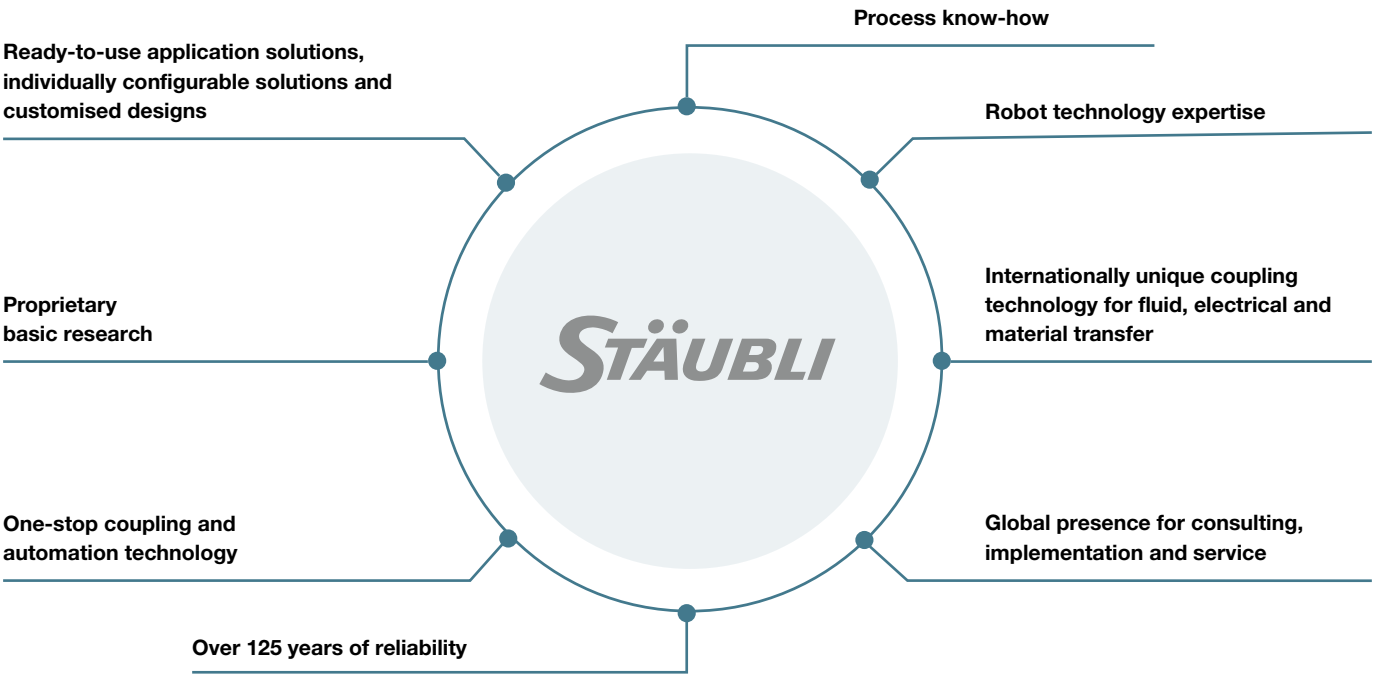
Productivity

You receive specialist advice on your applications anywhere in the world. This guarantees the best possible implementation of the tool changing processes on your robot lines at every production site. You also have access to our global know-how so that you can maximise the productivity of new plants and achieve optimum results in retrofit and maintenance situations.

Economic efficiency

Single point of contact: we designate one customer consultant to you for the entire duration of your project. This makes the cooperation more efficient and reduces the complexity of project coordination and implementation. You also benefit from our consulting expertise at your premises when you implement tool changing systems.

100 percent Stäubli performance



Robotic tool changers are complex systems. All the components of the Stäubli MPS systems come from a single source and are perfectly harmonised. 100 percent Stäubli performance is based on a combination of products, expertise and know-how.

All individual components – from base unit to transfer module – are developed and manufactured by Stäubli. As the exclusive contact we are responsible for the entire MPS system, and our customers can count on us supporting them with our competence and experience.

Process safety

You have the assurance of integrating well-engineered and comprehensively tested robotic tool changers into your production line. All systems and components are designed and manufactured by Stäubli to the highest global industry standards. We support you with our process analysis and optimisation know-how.

Flexibility

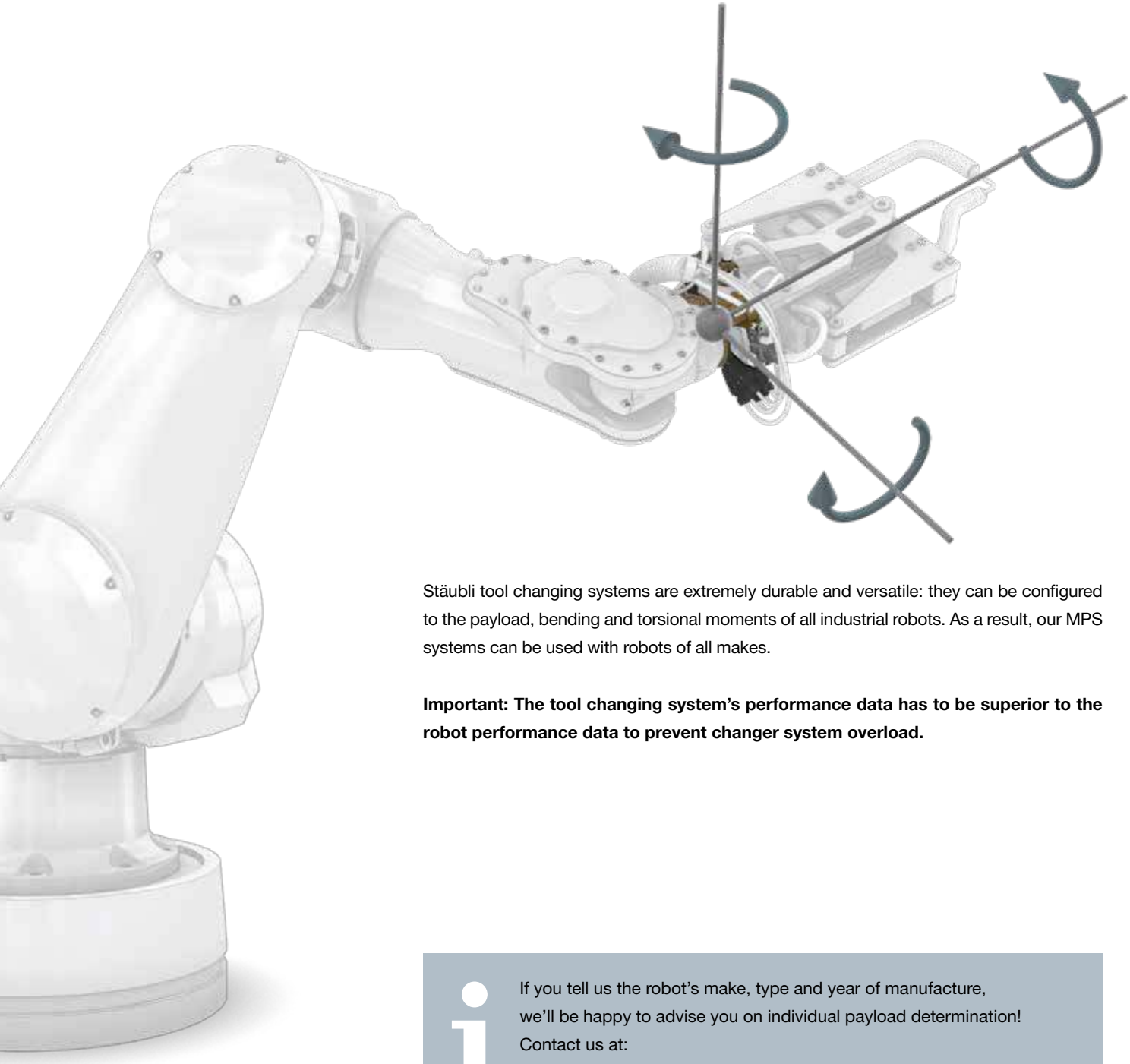
Stäubli's robotic tool changing systems are designed for simple application-specific module and component configuration. The product concept makes complete ready-to-use systems (MPS - COMPLETE), individually configurable systems (MPS - MODULAR) and CUSTOMISED designs (MPS - CUSTOMISED) possible.

Economic efficiency

With over 60 years of experience as a global manufacturer in coupling technology for media and power connections, Stäubli delivers unprecedented performance and longevity. Component compatibility is guaranteed – eliminating the risk of bad investments.

MPS SOLUTION COMPETENCE

For all payloads and robot types



Stäubli tool changing systems are extremely durable and versatile: they can be configured to the payload, bending and torsional moments of all industrial robots. As a result, our MPS systems can be used with robots of all makes.

Important: The tool changing system's performance data has to be superior to the robot performance data to prevent changer system overload.

If you tell us the robot's make, type and year of manufacture, we'll be happy to advise you on individual payload determination! Contact us at:

www.staubli.com

PAYLOAD OVERVIEW

	MPS 130	MPS 260
max. bending moment	900 Nm	2000 Nm
max. torsional moment	800 Nm	2000 Nm
max. payload	100 kg	350 kg
max. repulsion force	16 kN	25 kN
max. connection force	16 kN	25 kN
max. lateral force	10 kN	18 kN
max. permissible acceleration	50 m/s^2	50 m/s^2
Pitch circle diameter (PCD) robot adapter flange	ISO 9409-1-100-6-M8	ISO 9409-1-125-11-M10
Height (coupled)	67 mm	67 mm
Weight - robot side	1.8 kg	3.8 kg
Weight - tool side	1.1 kg (included adapter)	2.2 kg (included adapter)
Compressed air connection	Push-lock hose-Ø 6 mm	Push-lock hose-Ø 6 mm
Pneumatic ball locking	0.45 - 0.8 MPa 0.6 Nl/cycle	0.5 - 1.0 MPa 0.8 Nl/cycle
Repeatability at same base unit	+/- 0.01 mm	+/- 0.01 mm
Repeatability at different base unit	+/- 0.025 mm	+/- 0.025 mm
Query	locked/unlocked/coupled	locked/unlocked/coupled
Emergency release	yes	yes
Safety in case of drive medium failure	yes, by compression spring	yes, by compression spring

Check out our comprehensive MPS range.
Contact us for other **payloads** and **special designs.**

www.staubli.com

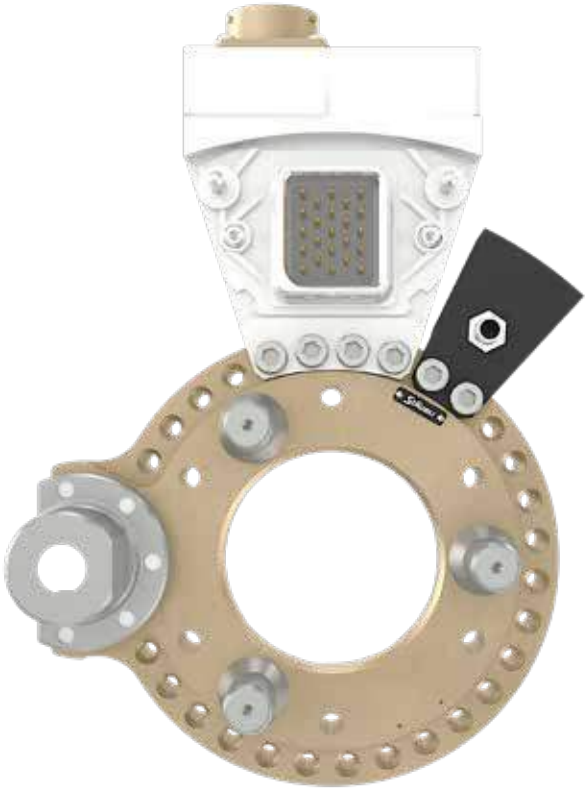
MPS 130 - COMPLETE

MPS 130/1

For handling and gripping applications

R

T



Application		Sensors	Pneumatic connection*	Data module connection*	Order no.
Gripping/handling	R	PNP	1x G 1/8	Connection KPT2E16-23P-A240	MPS130RC-0000-0000-0000-0000-00WB-ECAB
Gripping/handling	R	NPN			MPS130RG-0000-0000-0000-0000-00WB-ECAB
Gripping/handling	T	–		Connection KPT2E16-23S-A240	MPS130TA-0000-0000-0000-0000-00WB-ECAB

* Technical data for all transfer modules can be found from page 66 onwards.

Transfer modules with other thread and plug connections can be customised using our simple **configuration system** (see page 26).

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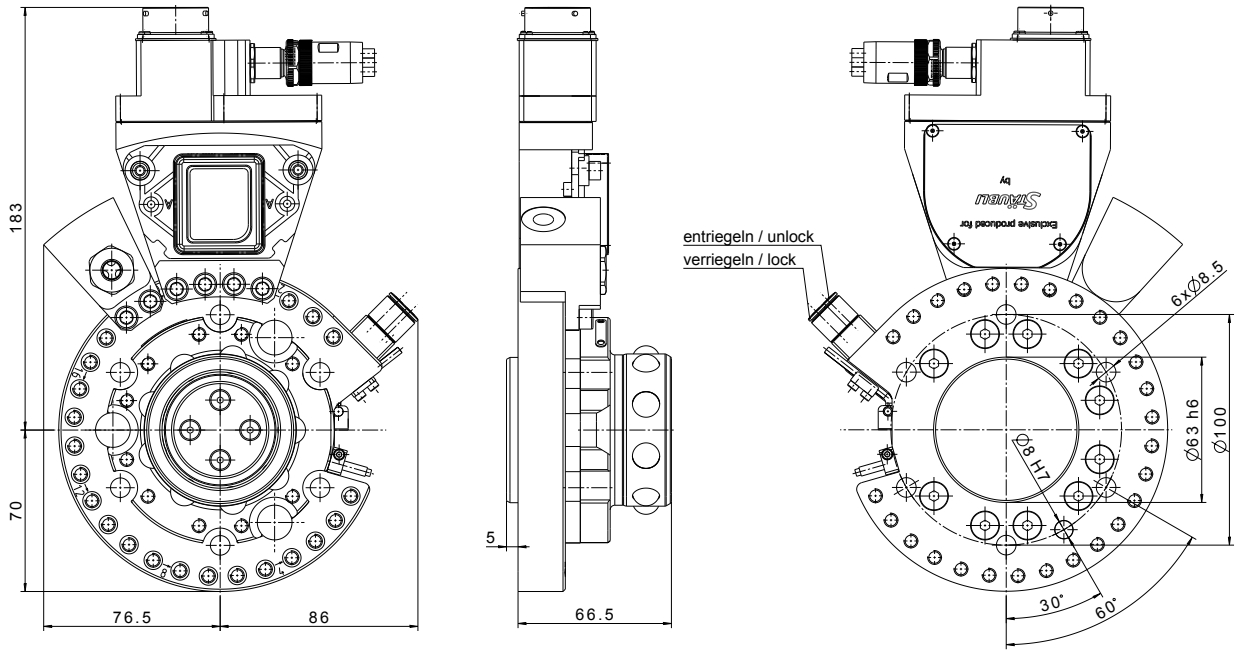
183
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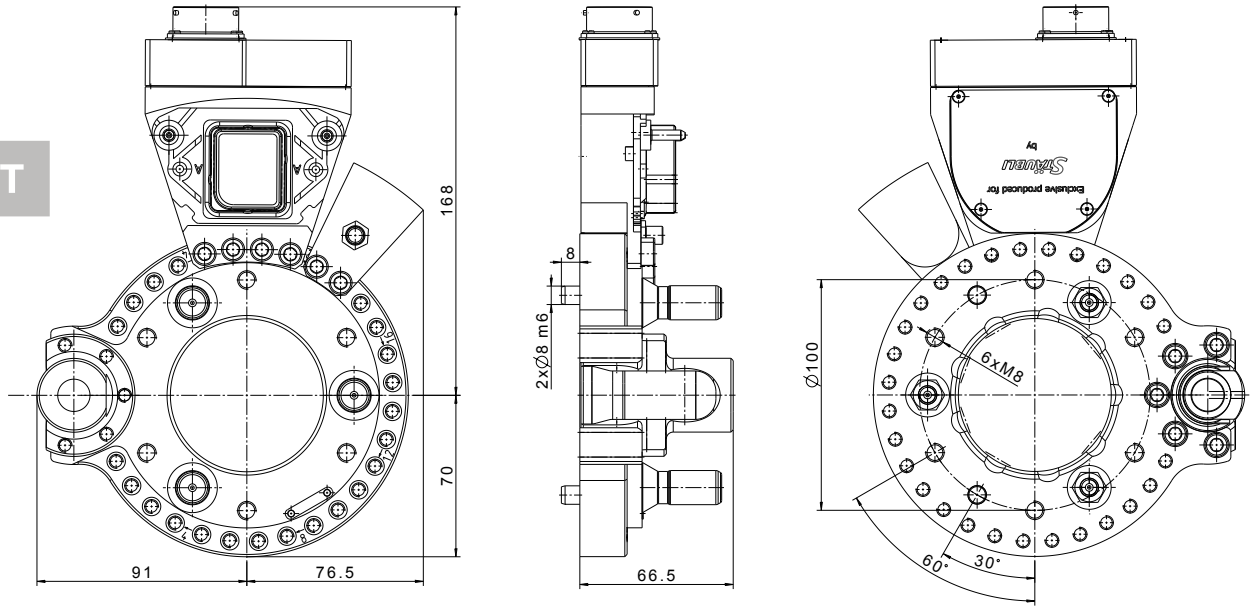
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MPS 130 - COMPLETE

MPS 130/2

For handling, gripping and vacuum applications

R

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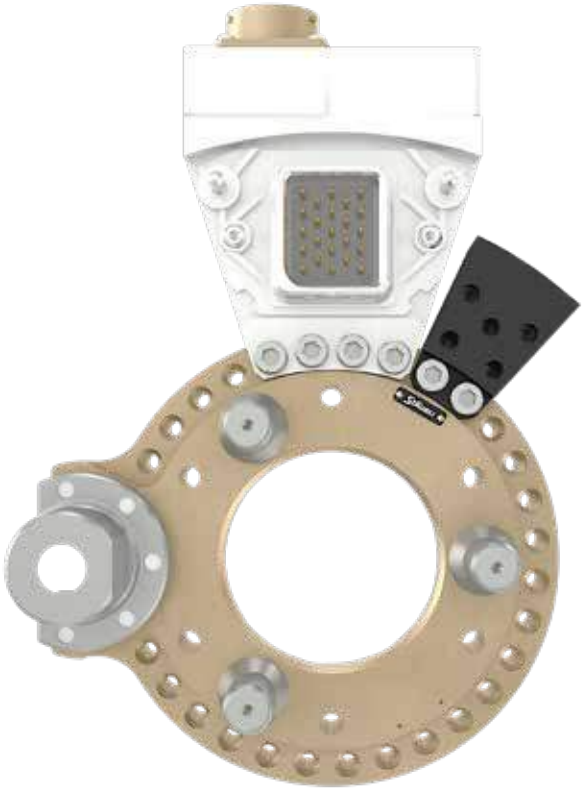
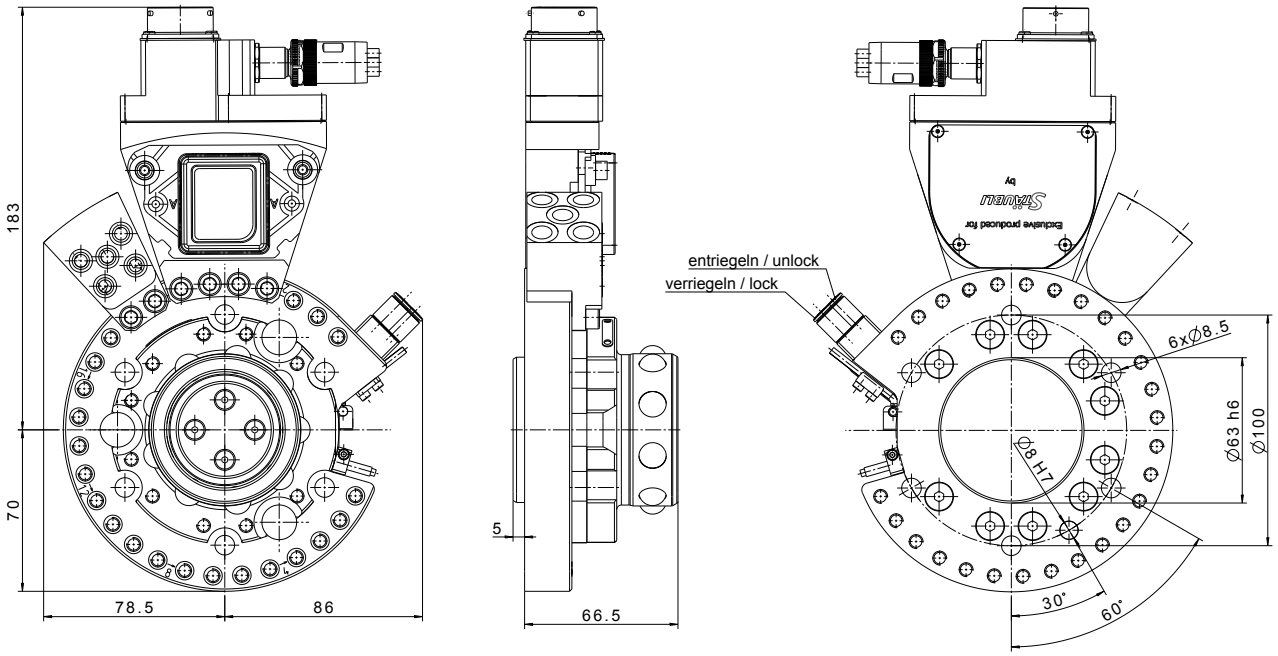


Application		Sensors	Pneumatic connection*	Data module connection*	Order no.
Gripping/handling/vacuum	R	PNP	5x G 1/8	Connection KPT2E16-23P-A240	MPS130RC-0000-0000-0000-0000-00WC-ECAB
Gripping/handling/vacuum	R	NPN			MPS130RG-0000-0000-0000-0000-00WC-ECAB
Gripping/handling/vacuum	T	–		Connection KPT2E16-23S-A240	MPS130TA-0000-0000-0000-0000-00WC-ECAB

* Technical data for all transfer modules can be found from page 66 onwards.

Transfer modules with other thread and plug connections can be customised using our simple **configuration system** (see page 26).

R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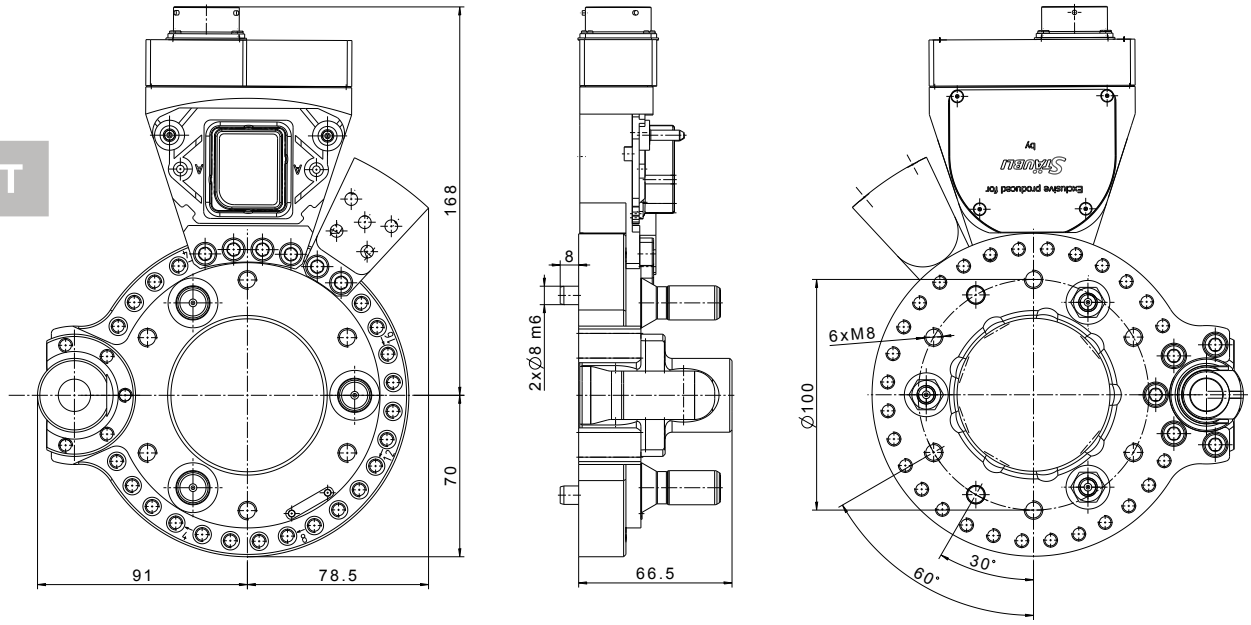
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6xM8
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30°
60°

MPS 130 - COMPLETE

MPS 130/3

For handling, gripping and vacuum applications

Application		Sensors	Pneumatic connection*	Data module connection*	Order no.
Gripping/handling/vacuum	R	PNP	6x G 3/8	Connection KPT2E16-23P-A240	MPS130RC-0000-WEWE-WEWE-WEWE-0000-ECAB
Gripping/handling/vacuum	R	NPN			MPS130RG-0000-WEWE-WEWE-WEWE-0000-ECAB
Gripping/handling/vacuum	T	–		Connection KPT2E16-23S-A240	MPS130TA-0000-WEWE-WEWE-WEWE-0000-ECAB

* Technical data for all transfer modules can be found from page 66 onwards.

Transfer modules with other thread and plug connections can be customised using our simple **configuration system** (see page 26).

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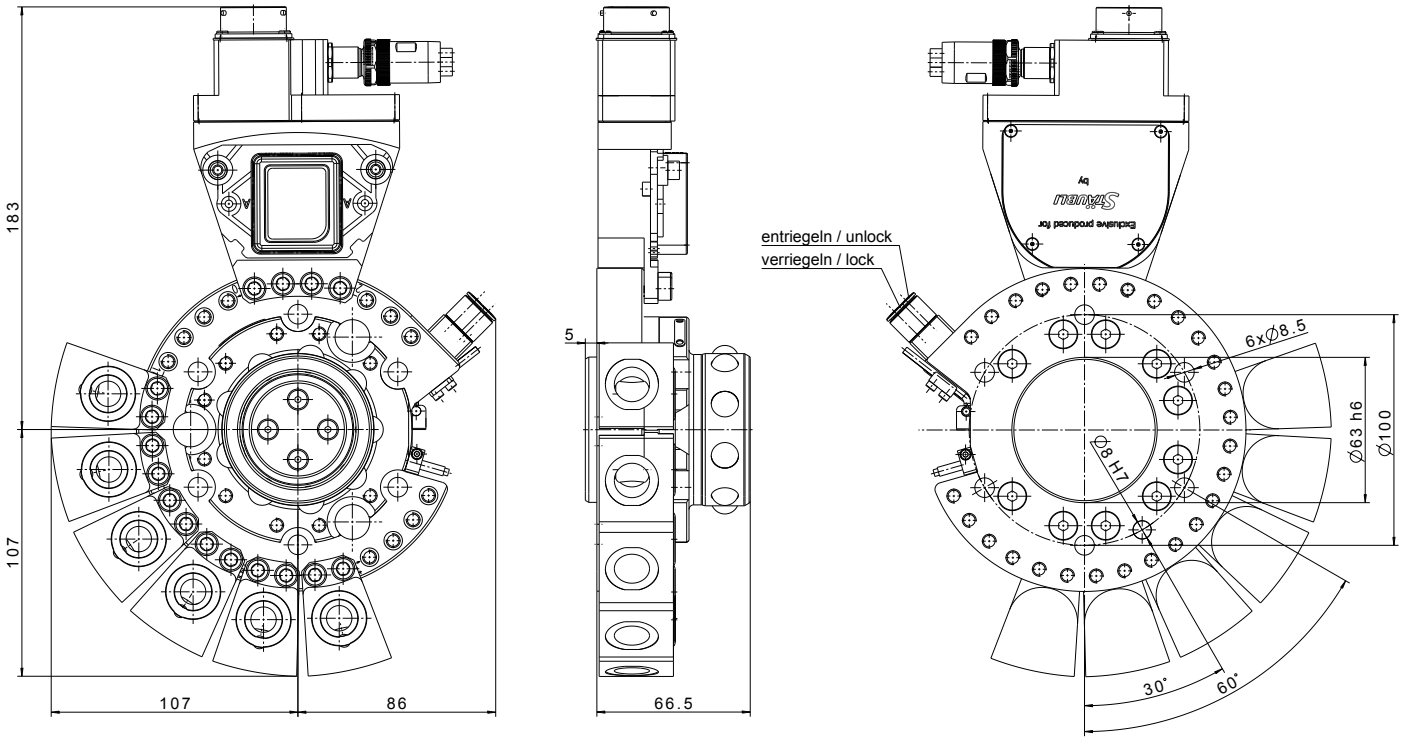
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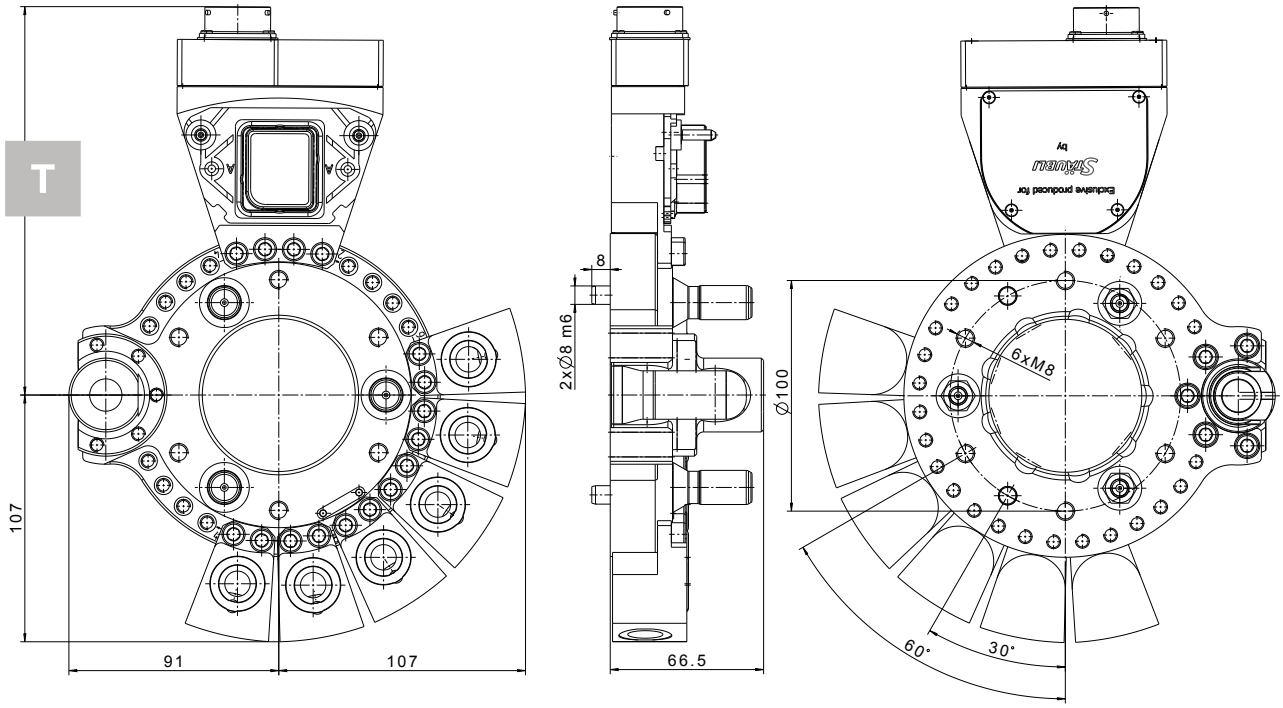
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6xM8
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MPS 130 - MODULAR

4 easy steps to your modular solution

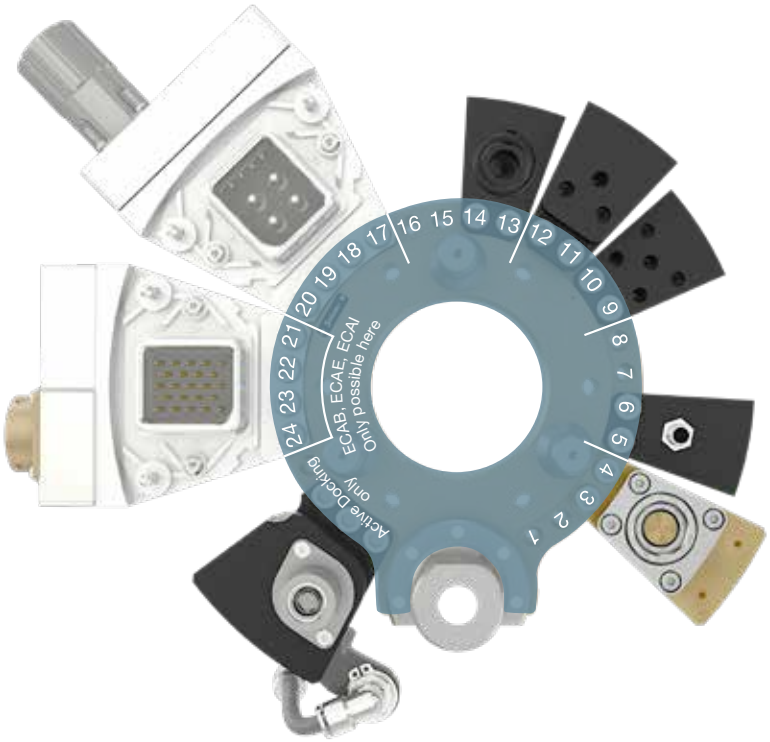
Take advantage of Staubli's modular product concept for maximum design freedom.
Configure your perfect tool changing system in just 4 easy steps.

R

1 **Choose** your **base unit** (page 28) and note the module order code.

2 Choose your **transfer modules** (from page 66 onwards).
Position the modules on the mounting holes 1 to 24 by entering the module order code.
Only ECAB, ECAE and ECAI possible for mounting holes 21 to 24.

M	P	S	1	3	0	R	D	-	0	0	W	A	-	W	B	0	0	-	W	C	W	D	-	W	E	0	0	-	E	C	A	C	-	E	C	A	B
									1	2	3	4		5	6	7	8		9	10	11	12		13	14	15	16		17	18	19	20		21	22	23	24

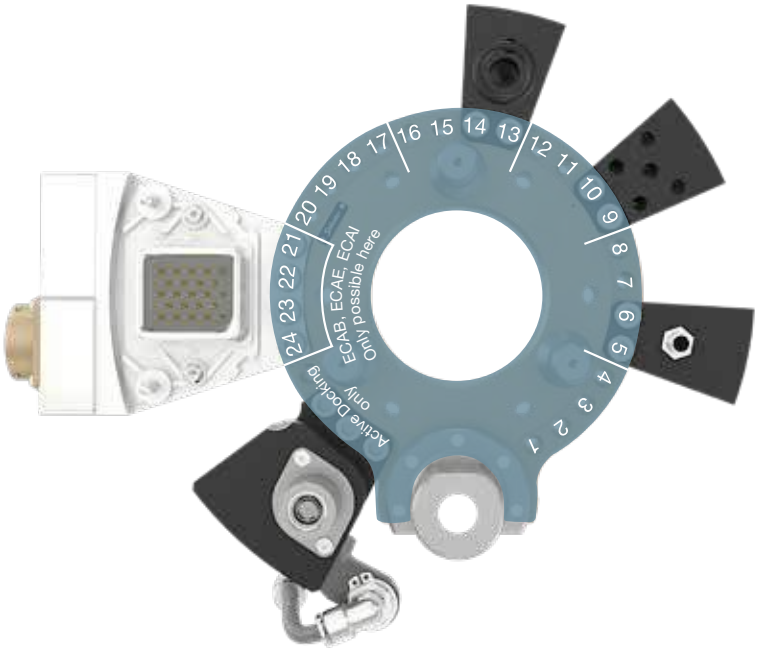


T

3

Select the appropriate **base unit** for your tool side (from page 30).
Transfer the module order codes of the **transfer modules** analogously from the robot side.

MPS130TC-	00WA-	WB00-	WCWD-	WE00-	ECAC-	ECAB
	1 2 3 4	5 6 7 8	9 10 11 12	13 14 15 16	17 18 19 20	21 22 23 24



T

4

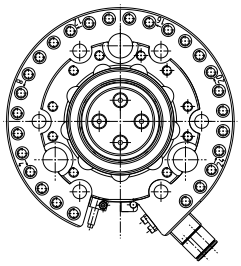
Reduce your investment by varying your tool side and removing any transfer modules that aren't needed on the tool side (Replace module order code with 00 or 0000).

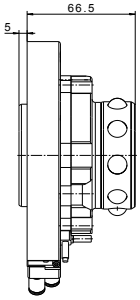
MPS130TC-	0000-	WB00-	WC00-	WE00-	0000-	ECAB
	1 2 3 4	5 6 7 8	9 10 11 12	13 14 15 16	17 18 19 20	21 22 23 24

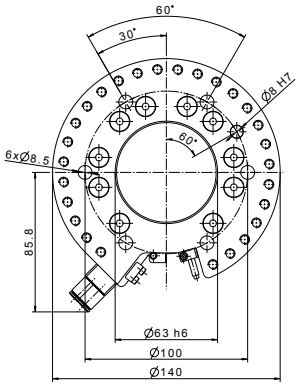
MPS 130 base unit robot side

MPS 130RA/RE

R

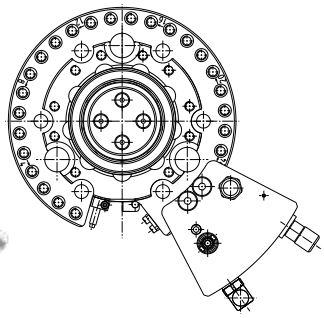


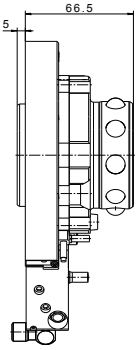


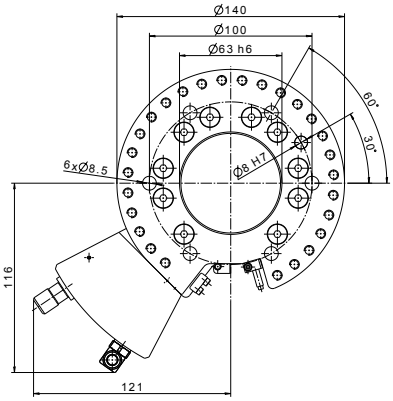


MPS 130RB/RF

R





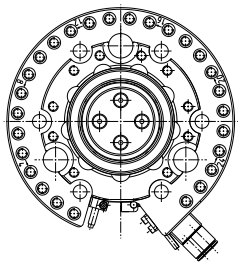


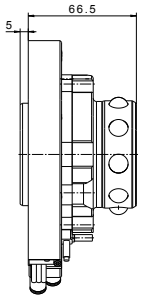
	Order no.	Pitch circle diameter (PCD)	Bending moment	Torsional moment	Payload	Compressed air connection	Safety module	Sensors/ connection	Module order code
R	K81557713	Ø 100 mm	900 Nm	800 Nm	100 kg	Push-In AD-Ø 6 mm	–	3x PNP/ 3x M12	MPS130RA
	K81557739							3x NPN/ 3x M12	MPS130RE
R	K81557714	Ø 100 mm	900 Nm	800 Nm	100 kg	Push-In AD-Ø 6 mm	Pressure switch PNP/NPN 1x M12	3x PNP/ 3x M12	MPS130RB
	K81557740							3x NPN/ 3x M12	MPS130RF

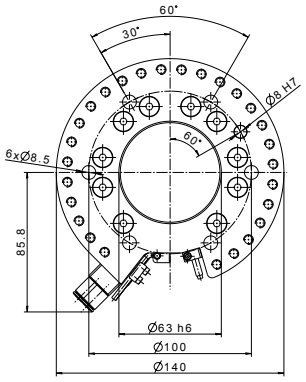
Base units can be operated with PNP or NPN sensors
according to your standard.

MPS 130RC/RG

R

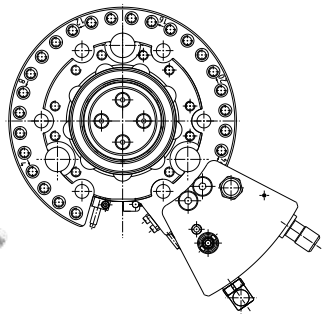


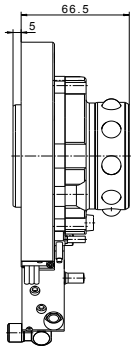


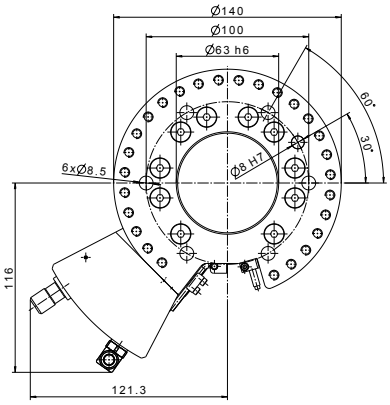


MPS 130RD/RH

R







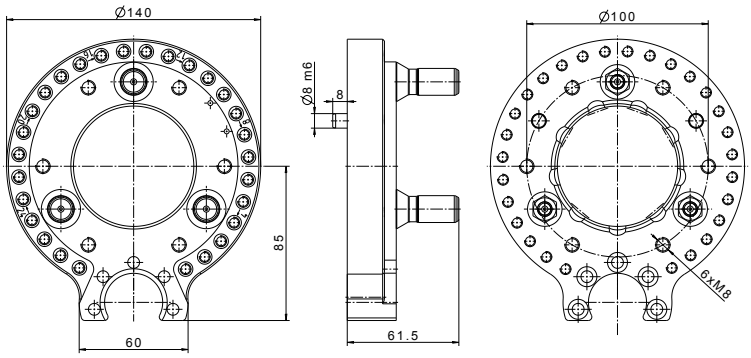
	Order no.	Pitch circle diameter (PCD)	Bending moment	Torsional moment	Payload	Compressed air connection	Safety module	Sensors/ connection	Module order code
R	K81557715	Ø 100 mm	900 Nm	800 Nm	100 kg	Push-In AD-Ø 6 mm	–	3x PNP/ 1x M12	MPS130RC
	K81557741							3x NPN/ 1x M12	MPS130RG
R	K81557716	Ø 100 mm	900 Nm	800 Nm	100 kg	Push-In AD-Ø 6 mm	Pressure switch PNP/NPN 1x M12	3x PNP/ 1x M12	MPS130RD
	K81557737							3x NPN/ 1x M12	MPS130RH

MPS 130 - MODULAR

MPS 130 base unit tool side

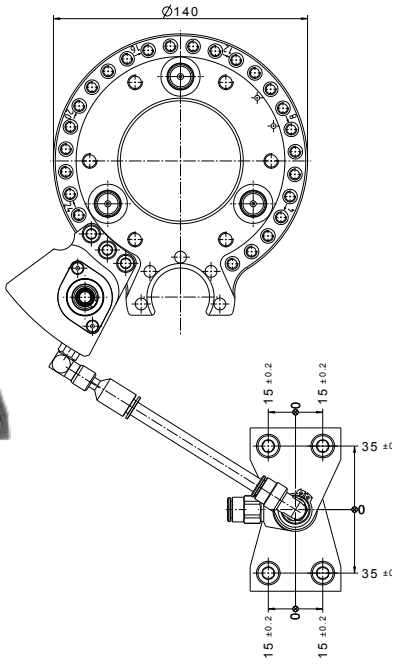
MPS 130TO

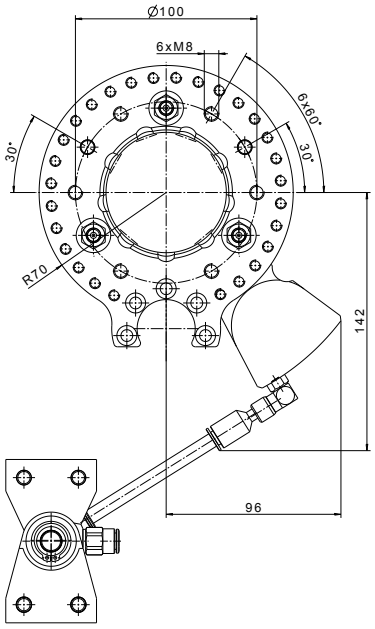
T

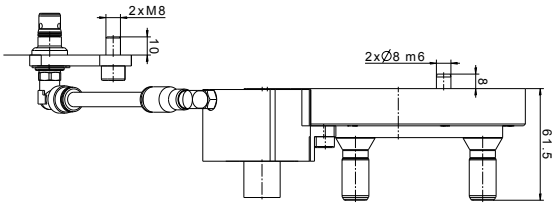


MPS 130TB

T

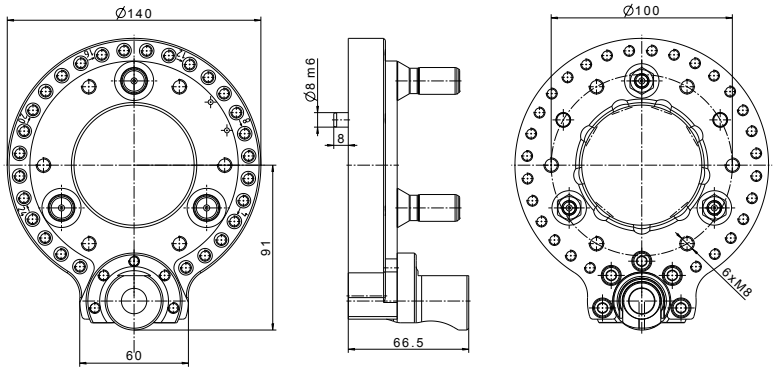






MPS 130TA

T



MPS 130TC

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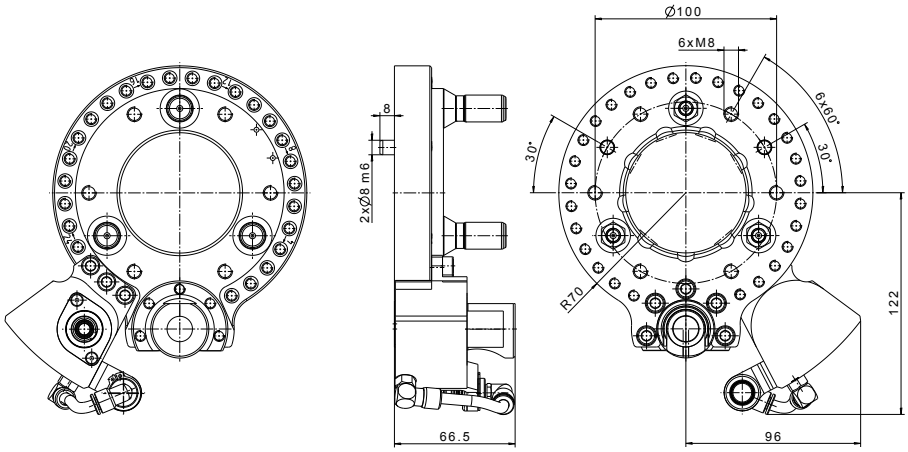
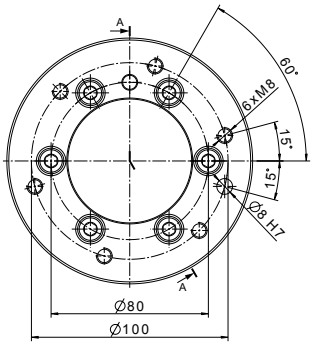
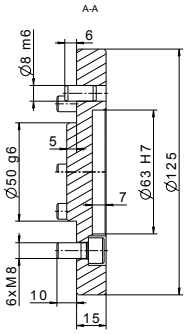


	Order no.	Pitch circle diameter (PCD)	Bending moment	Torsional moment	Docking hook	Safety module	Module order code
T	K81557661	Ø 100 mm	900 Nm	800 Nm	no	no	MPS130TO
T	K81557667	Ø 100 mm	900 Nm	800 Nm	no	yes	MPS130TB
T	K81557664	Ø 100 mm	900 Nm	800 Nm	yes	no	MPS130TA
T	K81557668	Ø 100 mm	900 Nm	800 Nm	yes	yes	MPS130TC

MPS 130
Robot adapter flange

R





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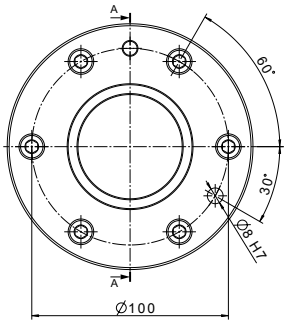
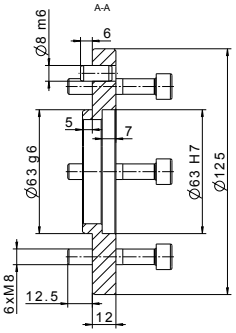
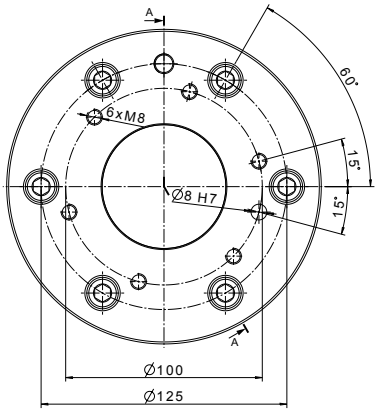
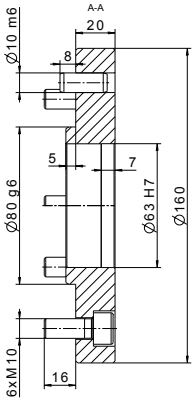




ill.2





ill.3

	ill.	Order no.*	Adaption to	Zero offset
R	1	K81558262	ISO 9409-1-80-6-M8	15°
R	2	K81558261	ISO 9409-1-100-6-M8	0°
R	3	K81558263	ISO 9409-1-125-6-M10	15°

* including mounting material.

MPS 130 Accessories

Mounting set robot side

Order no.	Pitch diameter	Mounting materials	Locating pin
K81560778	Ø 100 mm	(6x) M8x30	(1x) 8/16

Emergency release

Order no.	Description
K81558229	Tool for emergency release

Teaching aid

Order no.	Description
K81557695	Convenient teaching aid for the robot tool change system
K81557691	Storage case including convenient teaching aid for the robot tool change system

MPS 130 – Tool stand

Flexibility and efficiency due to integrated tool storage

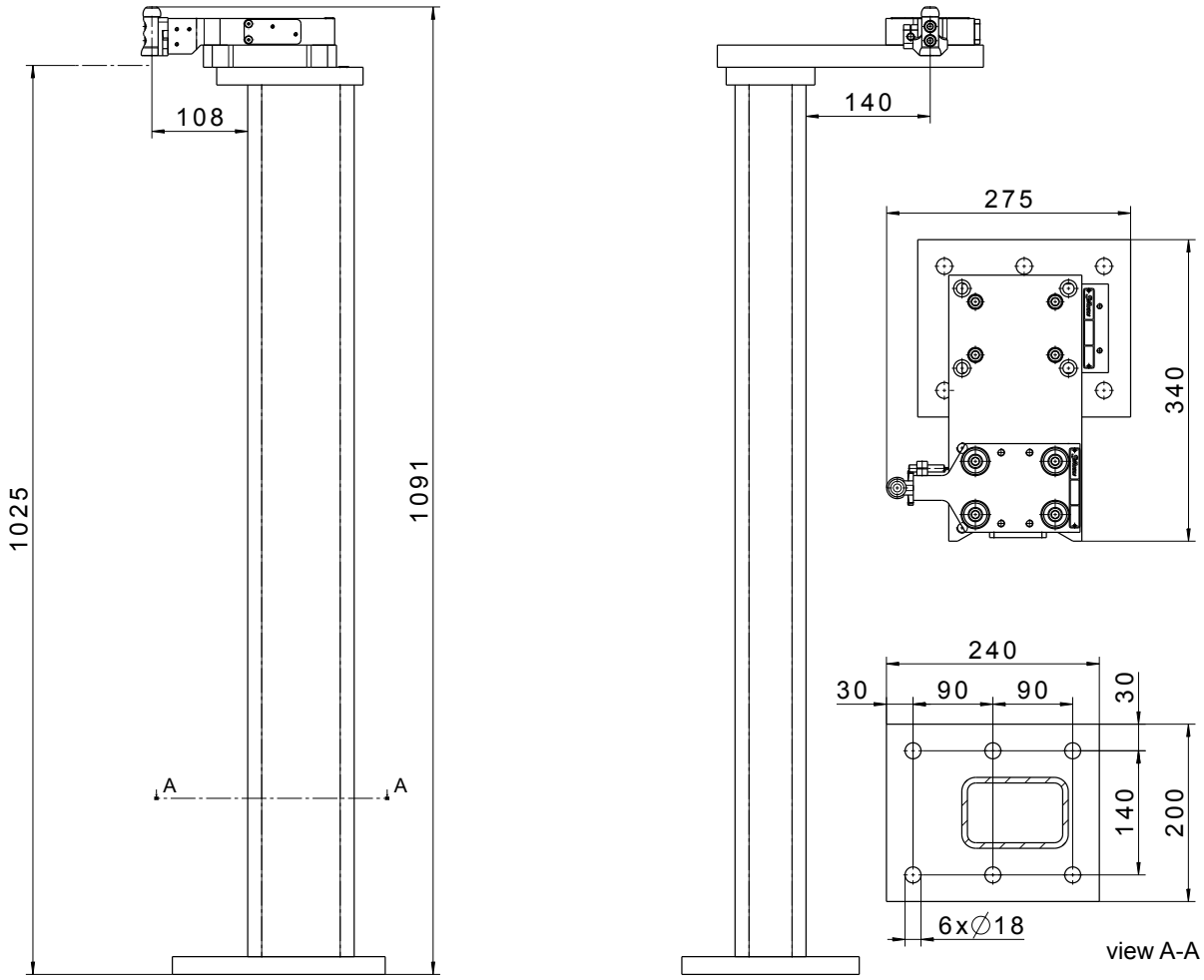
The tool stand is consistent with Stäubli's modular tool changer concept. Its individual components are designed to provide maximum scope for flexible process adaptation.

- Flexibility: the separate system components allow you to compile your own individual storage solutions.
- Optimally coordinated: the complete systems are already perfectly dimensioned and calibrated for tool weights.
- Performance Level d, Category 3-compliant: the optional Active Docking System with self-sufficient compressed air circuit ensures that tool locking and unlocking can only take place at the tool stand.
- Longevity: the floating bearing of the docking pin optimally holds the tool in the vertical storage position and minimises the load on the components.
- Function protection: a protective cover prevents any particles from getting into the transfer module couplings and connectors.

Contact us for **individual solutions** or **custom designs.**

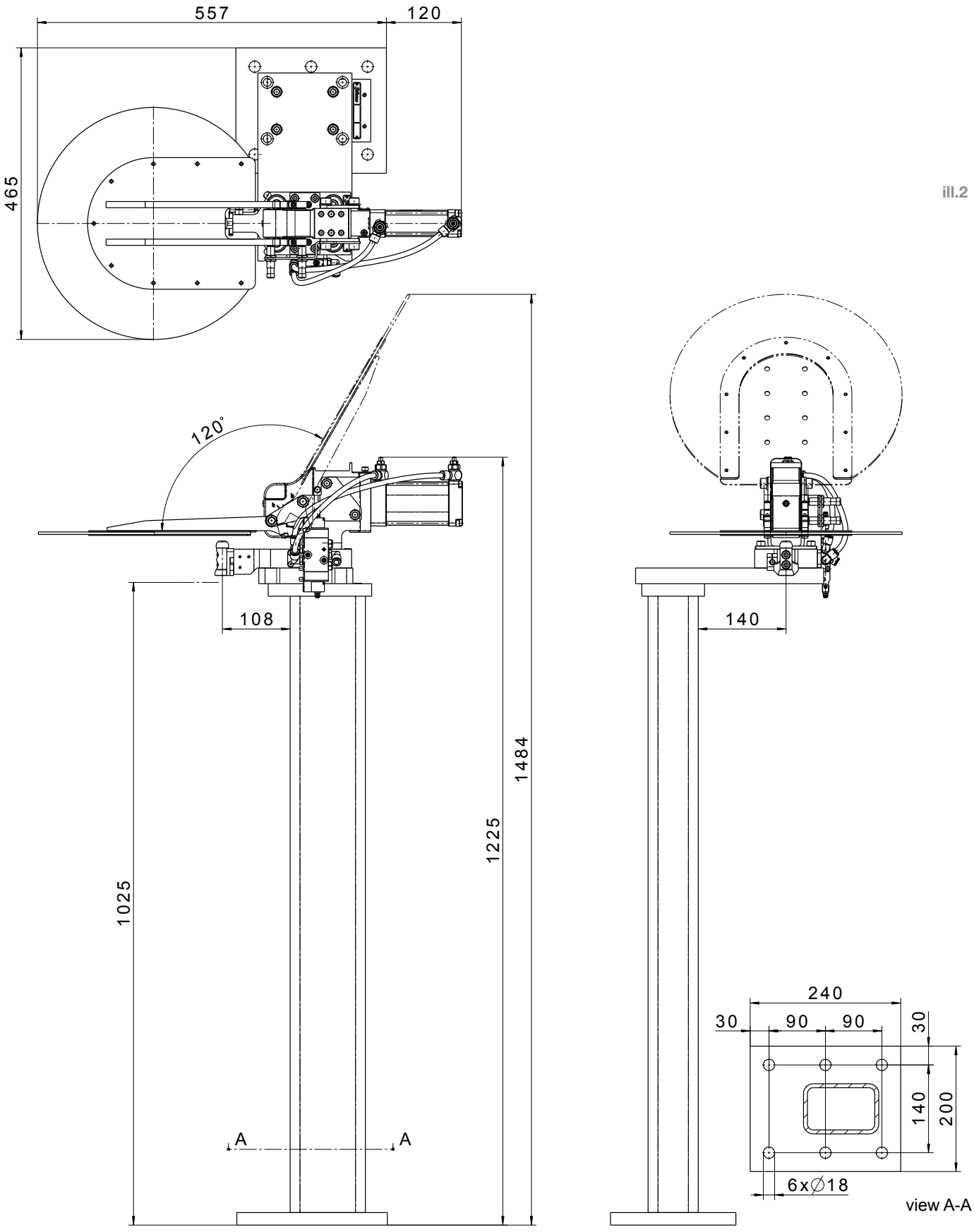
Tool stand base	Positioning plate	Tool stand upper part	Protective cover	Sensors/ connection	Valve/ connection	Order no.	ill.
H = 1000 mm	with	without Active Docking	without	1x PNP / 1x M12	without	MPS130DA-OP01-UP01-0000	1
				1x NPN / 1x M12	without	MPS130DA-OP01-UP05-0000	-
			with	3x PNP / 3x M12	1x M8	MPS130DA-OP01-UP01-PC01	2
				3x NPN / 3x M12	1x M8	MPS130DA-OP01-UP05-PC03	-
H = 1000 mm	with	with Active Docking	without	1x PNP / 1x M12	1x M8	MPS130DA-OP01-UP02-0000	-
				1x NPN / 1x M12	1x M8	MPS130DA-OP01-UP06-0000	-
			with	3x PNP / 3x M12	2x M8	MPS130DA-OP01-UP02-PC01	-
				3x NPN / 3x M12	2x M8	MPS130DA-OP01-UP06-PC03	-
H = 1000 mm	without	without Active Docking	without	1x PNP / 1x M12	without	MPS130DA-0000-UP01-0000	3
				1x NPN / 1x M12	without	MPS130DA-0000-UP05-0000	-
			with	3x PNP / 3x M12	1x M8	MPS130DA-0000-UP01-PC01	4
				3x NPN / 3x M12	1x M8	MPS130DA-0000-UP05-PC03	-
H = 1000 mm	without	with Active Docking	without	1x PNP / 1x M12	1x M8	MPS130DA-0000-UP02-0000	-
				1x NPN / 1x M12	1x M8	MPS130DA-0000-UP06-0000	-
			with	3x PNP / 3x M12	2x M8	MPS130DA-0000-UP02-PC01	-
				3x NPN / 3x M12	2x M8	MPS130DA-0000-UP06-PC03	-

ill.1

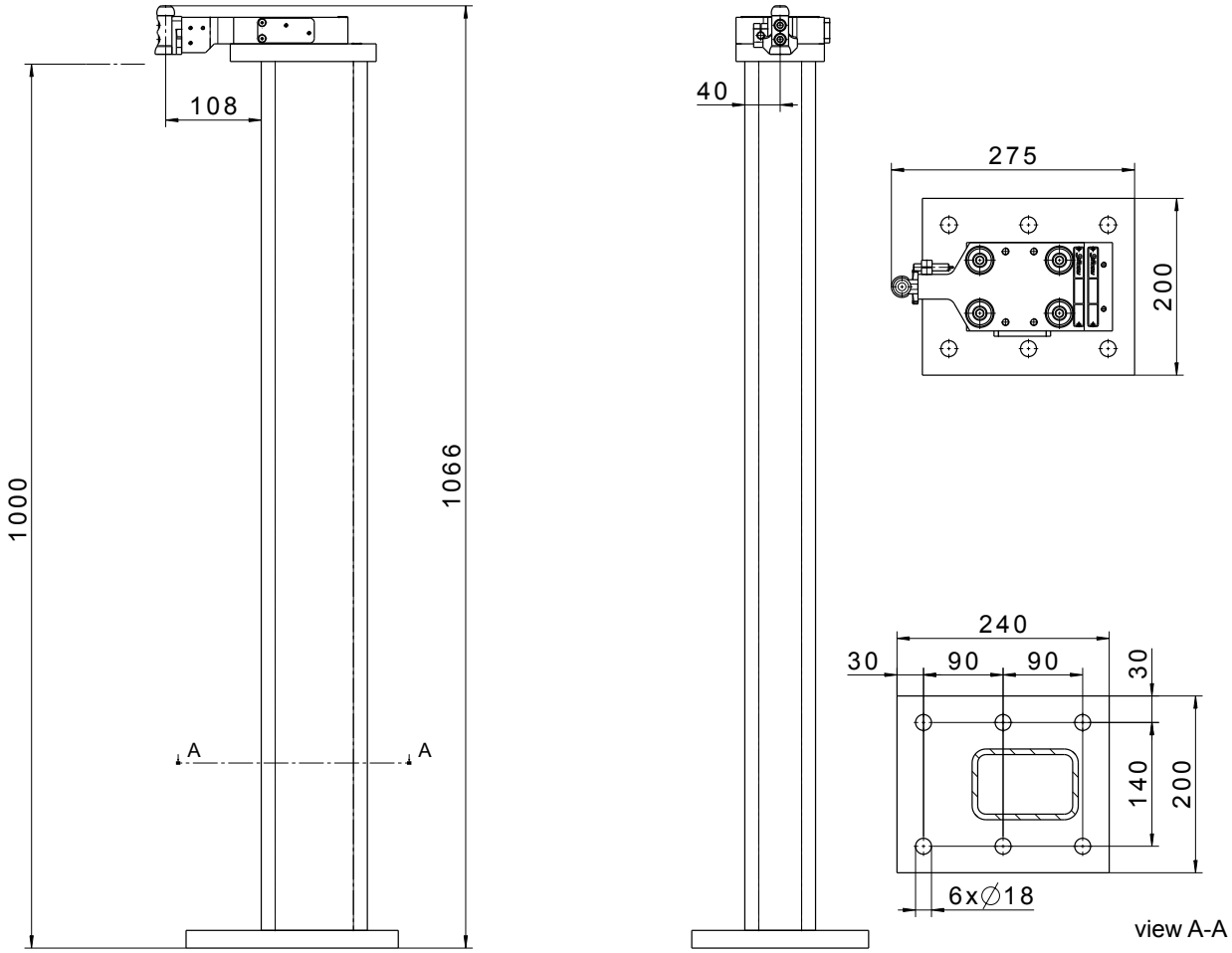


MPS 130 TOOL STAND

ill.2

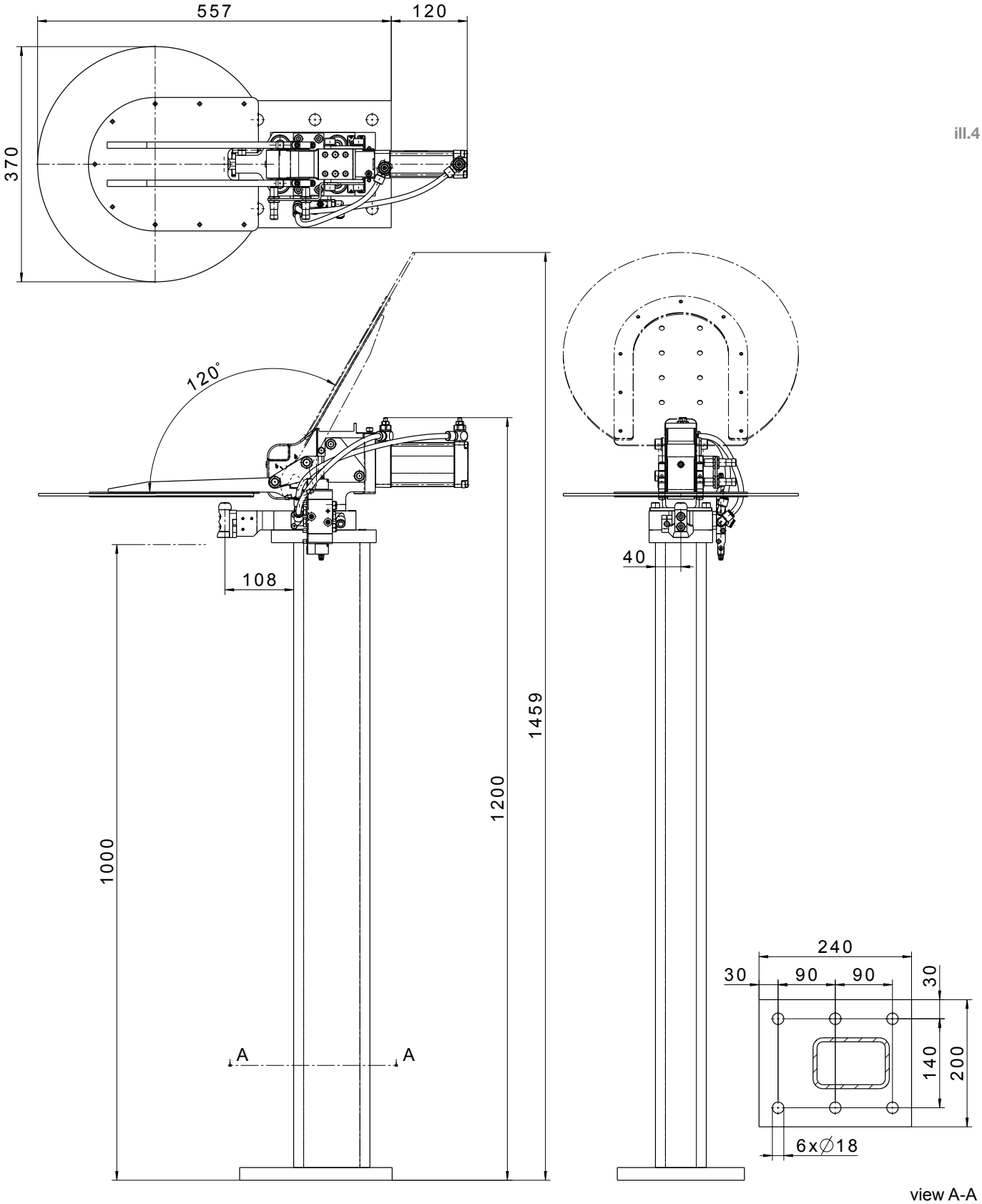


ill.3



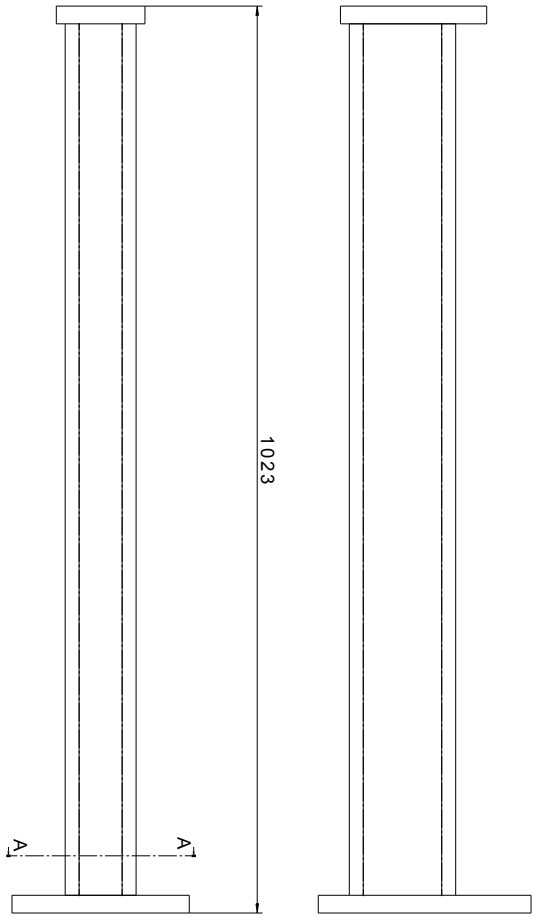
MPS 130 TOOL STAND

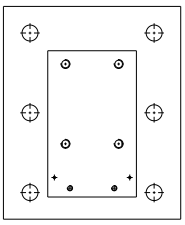
ill.4

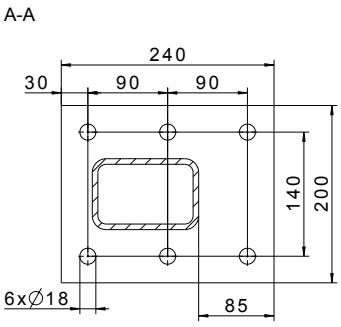


view A-A

Tool stand base

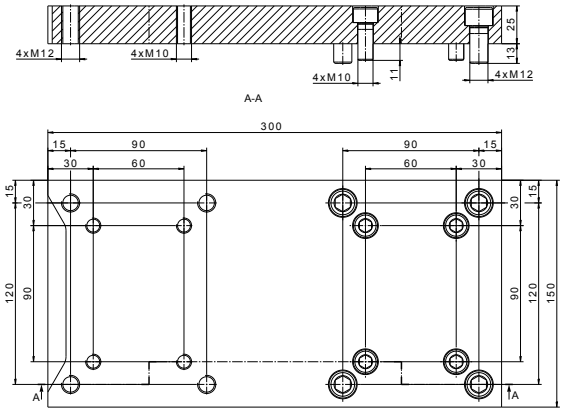






Order no	Description	Module order code
K81904351	Tool stand base H = 1000 mm, RAL 9003	MPS130DA

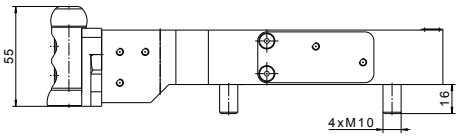
Positioning plate

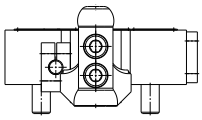


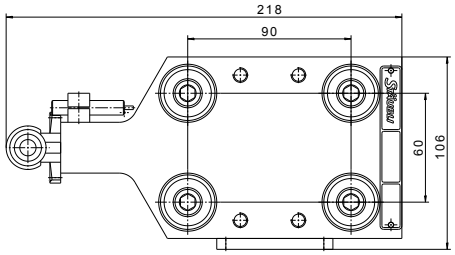
Order no	Description	Module order code
K81565881	Positioning plate for expanding the storage options includes mounting materials	OP01

MPS 130 TOOL STAND

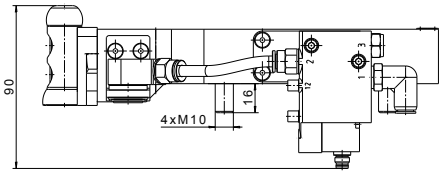
Tool stand upper part

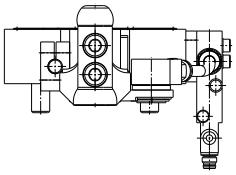


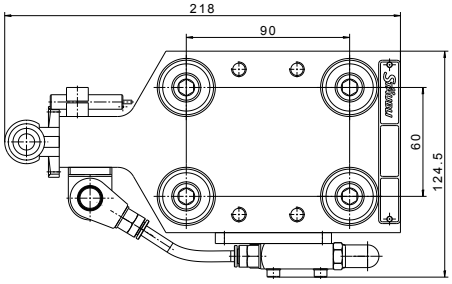




Order no.	Description	Sensors/ connection	Module order code
K86500907	Tool stand upper part includes mounting materials	1x PNP/ 1x M12	UP01
K86500916	Tool stand upper part includes mounting materials	1x NPN/ 1x M12	UP05

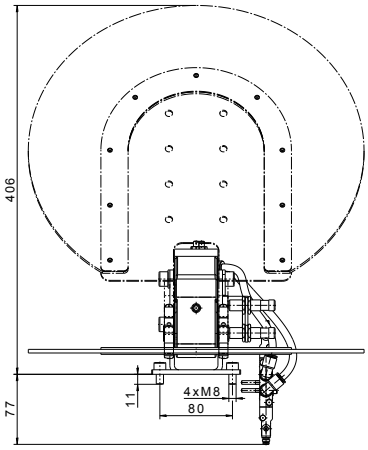


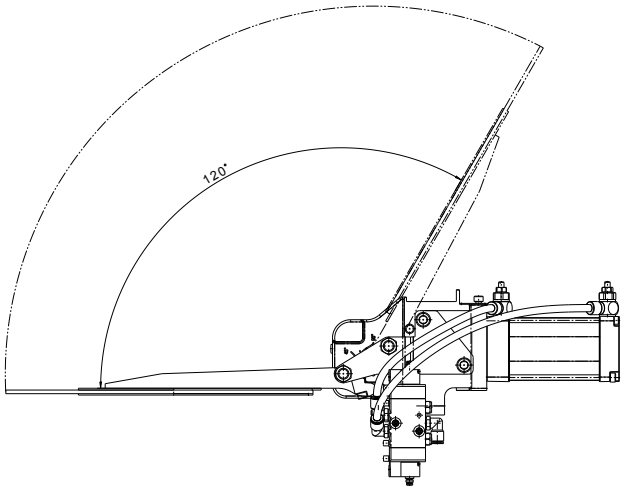


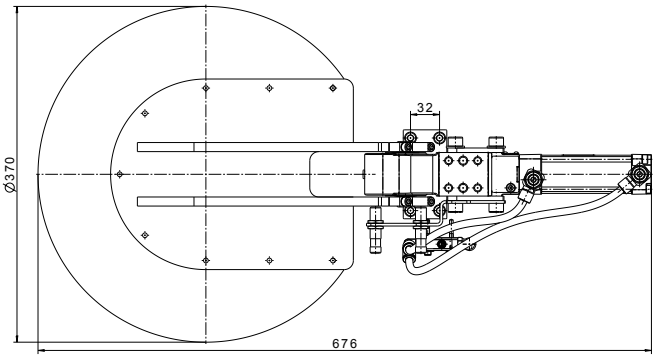


Order no.	Description	Sensors/ connection	Valve/ connection	Module order code
K86500904	Tool stand upper part with Active Docking includes mounting materials	1x PNP/ 1x M12	1x M8	UP02
K86500912	Tool stand upper part with Active Docking includes mounting materials	1x NPN/ 1x M12	1x M8	UP06

Protective cover

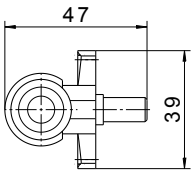


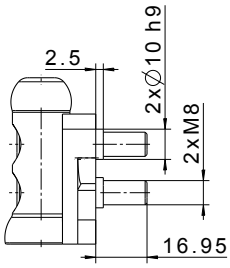


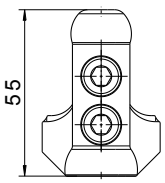


Order no.	Description	Sensors/ connection	Valve/ connection	Module order code
K81562439	Protective cover for harsh working environments; RAL 1004 includes mounting materials	PNP/M12	1x M8	PC01
K81562442		NPN/M12	1x M8	PC03

Accessories







Order no.	Description
K81565636	Mounting bolts for self-assembly, includes mounting materials

MPS 260 - COMPLETE

MPS 260/1

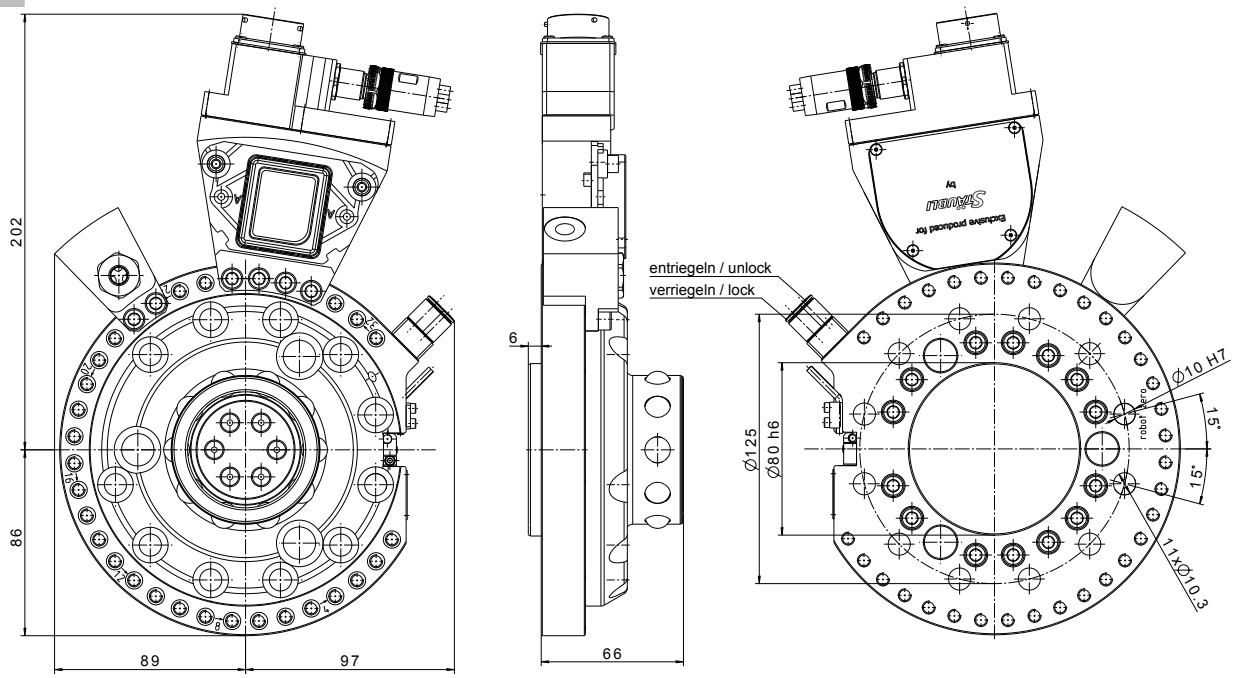
For handling and gripping applications

Application		Sensors	Pneumatic connection*	Data module connection*	Order no.
Gripping/ Handling/ Vacuum	R	PNP	1x G 1/8	Connection KPT2E16-23P-A240	MPS260RC-0000-0000-0000-0000-0000-00WB-ECAB
	R	NPN			MPS260RG-0000-0000-0000-0000-0000-00WB-ECAB
	T	–		Connection KPT2E16-23S-A240	MPS260TA-0000-0000-0000-0000-0000-00WB-ECAB

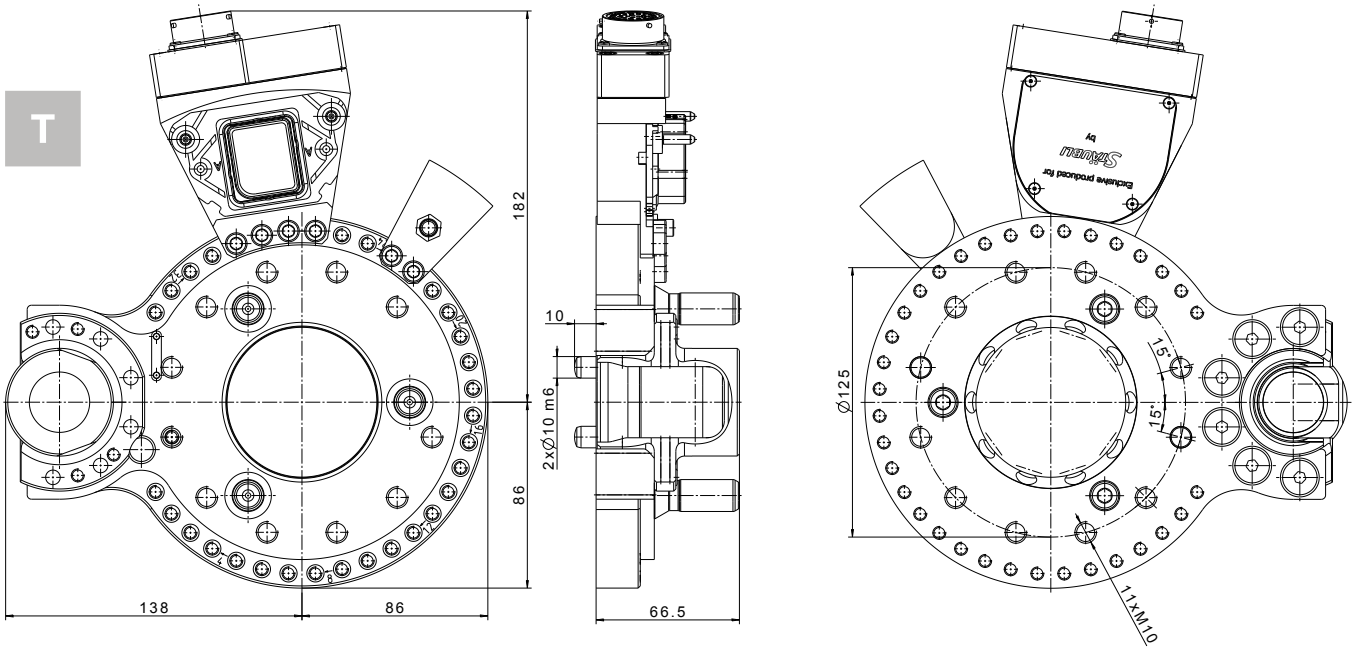
* Technical data for all transfer modules can be found from page 66 onwards.

Transfer modules with other thread and plug connections can be customised using our simple **configuration system** (see page 50).

R


202
86
89
97
6
66
entriegeln / unlock
verriegeln / lock
Ø125
Ø80 h6
Ø10 H7
15°
15°
11xØ10.3
Exclusive produced for
by
robot zero

T


182
86
138
86
10
2xØ10 m6
66.5
Ø125
15°
15°
11xM10
Exclusive produced for
by

MPS 260 - COMPLETE

MPS 260/2

For handling, gripping and vacuum applications

R

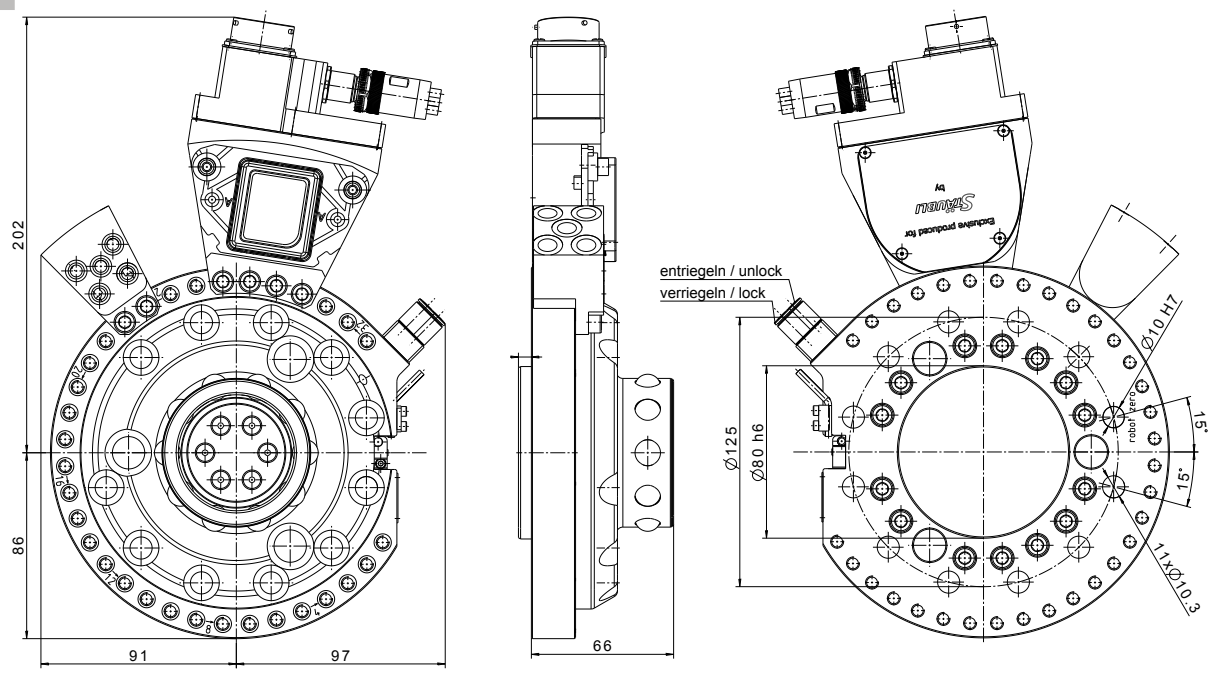
T

Application		Sensors	Pneumatic connection*	Data module connection*	Order no.
Gripping/ Handling/ Vacuum	R	PNP	5x G 1/8	Connection KPT2E16-23P-A240	MPS260RC-0000-0000-0000-0000-0000-00WC-ECAB
	R	NPN			MPS260RG-0000-0000-0000-0000-0000-00WC-ECAB
	T	–		Connection KPT2E16-23S-A240	MPS260TA-0000-0000-0000-0000-0000-00WC-ECAB

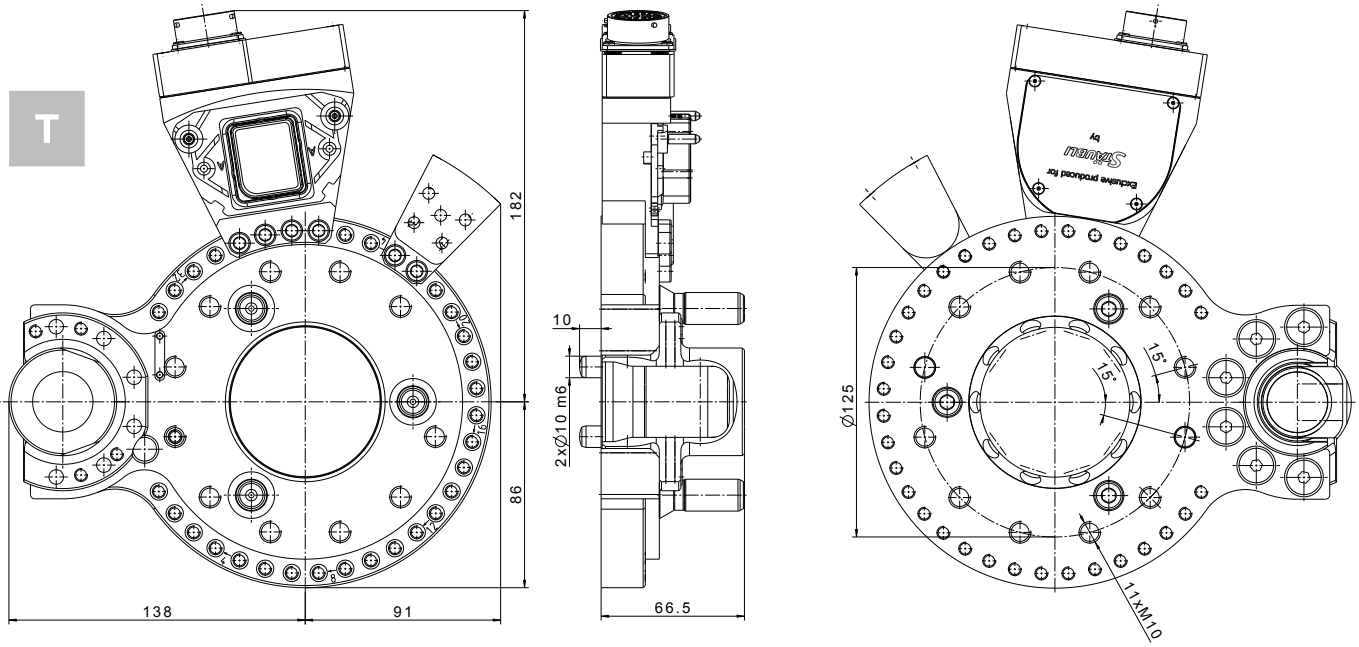
* Technical data for all transfer modules can be found from page 66 onwards.

Transfer modules with other thread and plug connections can be customised using our simple **configuration system** (see page 50).

R


202
86
91
97
66
entriegeln / unlock
verriegeln / lock
Ø125
Ø80 h6
Ø10 H7
15°
15°
11xØ10.3

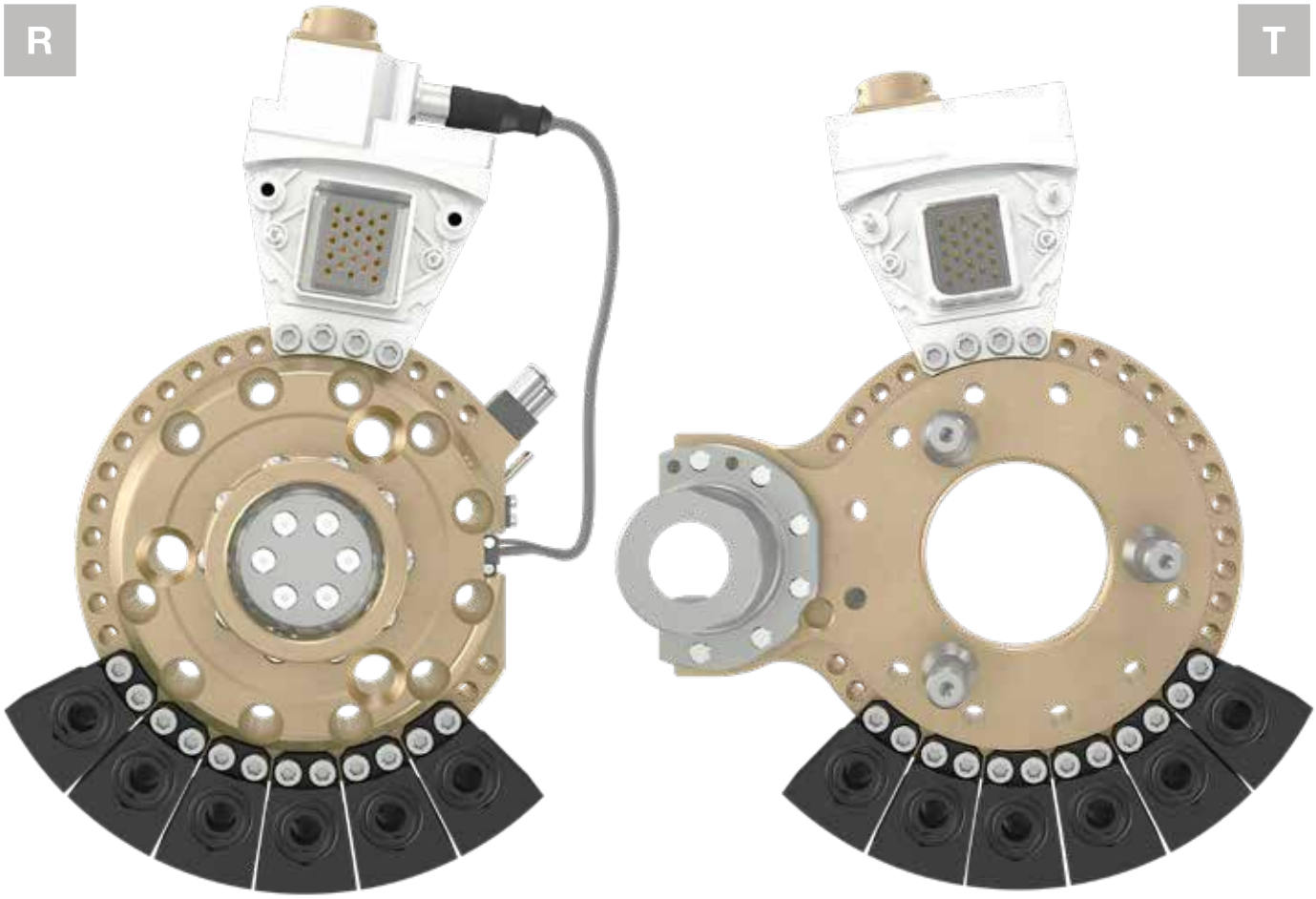
T


182
86
138
91
10
2xØ10 m6
66.5
Ø125
15°
15°
11xM10

MPS 260 - COMPLETE

MPS 260/3

For handling, gripping and vacuum applications

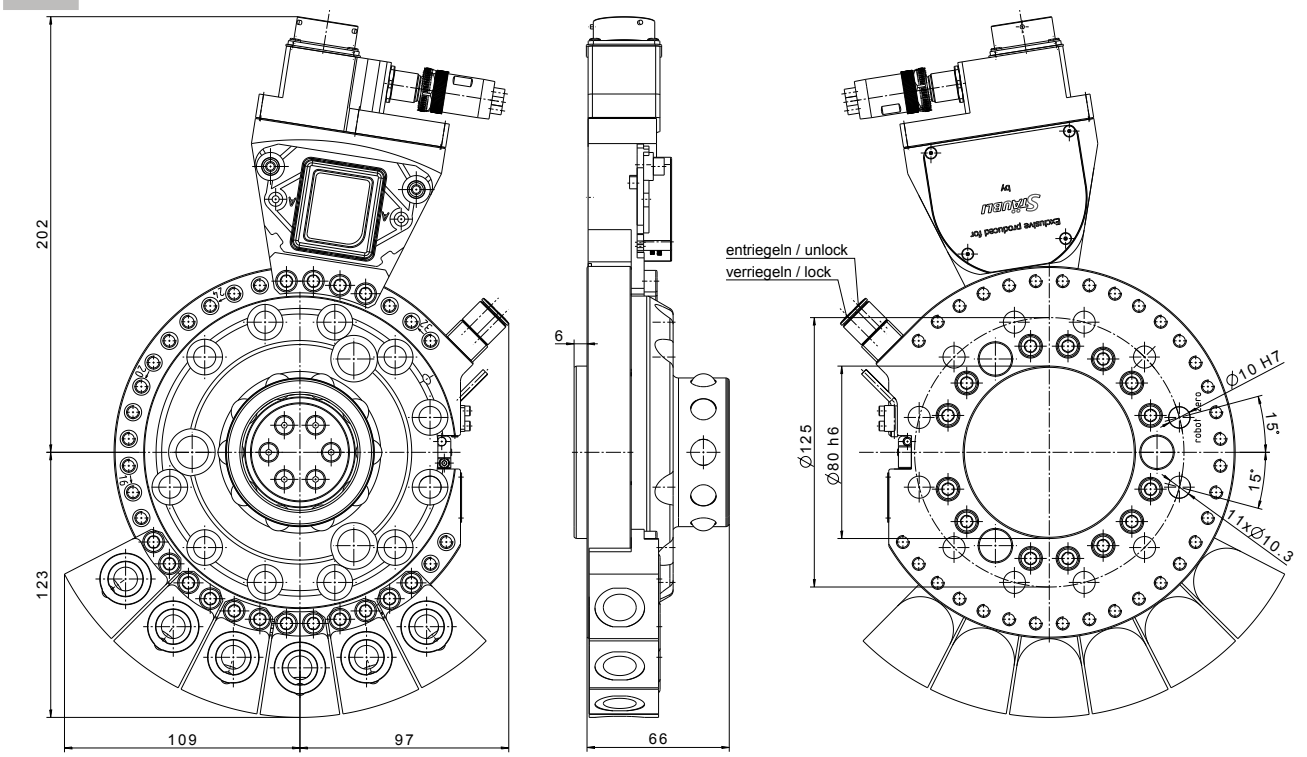


Application		Sensors	Pneumatic connection*	Data module connection*	Order no.
Gripping/ Handling/ Vacuum	R	PNP	6x G 3/8	Connection KPT2E16-23P-A240	MPS260RC-00WE-WEWE-WEWE-WE00-0000-0000-ECAB
	R	NPN			MPS260RG-00WE-WEWE-WEWE-WE00-0000-0000-ECAB
	T	–		Connection KPT2E16-23S-A240	MPS260TA-00WE-WEWE-WEWE-WE00-0000-0000-ECAB

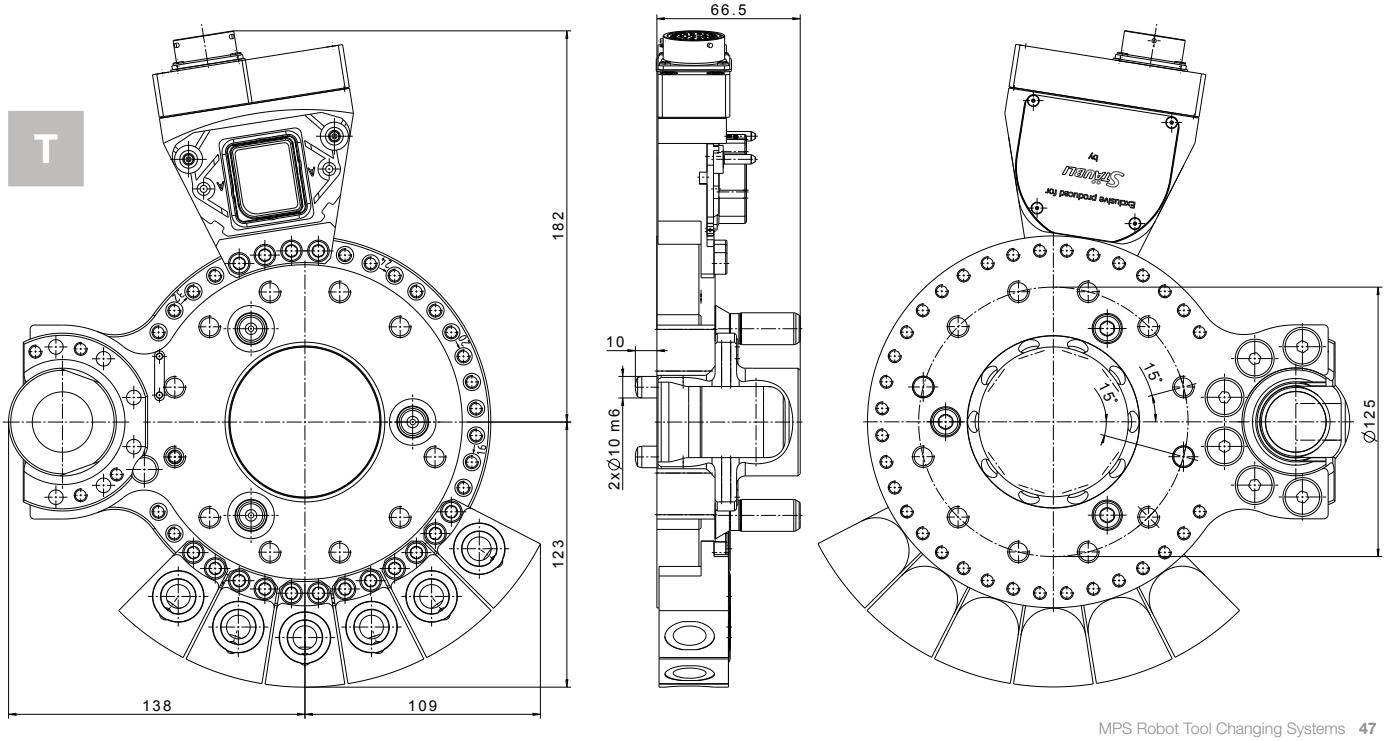
* Technical data for all transfer modules can be found from page 66 onwards.

Transfer modules with other thread and plug connections can be customised using our simple **configuration system** (see page 50).

R


202
123
109
97
6
66
entriegeln / unlock
verriegeln / lock
Ø125
Ø80 h6
Ø10 H7
15°
15°
11xØ10.3

T


182
123
138
109
66.5
10
2xØ10 m6
15°
15°
15°
Ø125

MPS 260 - COMPLETE

MPS 260/4

For handling, gripping and welding applications

R T T

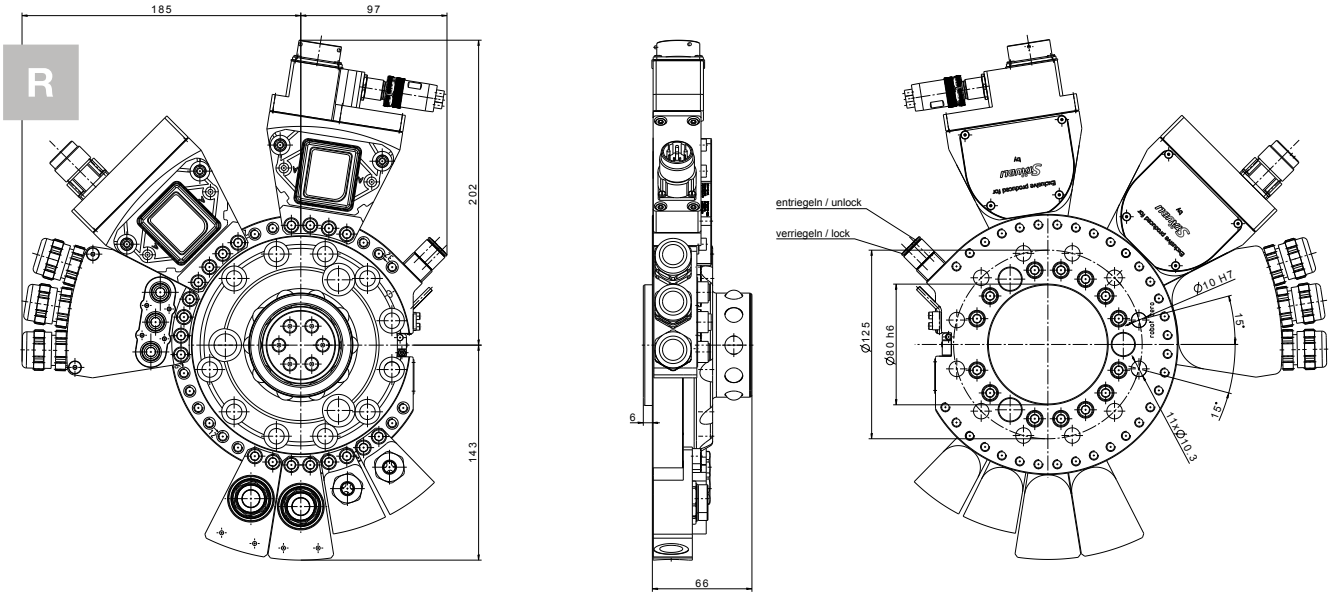
Application		Sensors	Pneumatic connection*	Data module connection*	Cooling	Servo	Primary circuit
Welding/gripping	R	PNP	2x G 1/8	Connection KPT2E16-23P-A240	2x G 3/8	Connection B EG A 120 MR 11 00 0200 400	3x M20
Welding/gripping	R	NPN					3x M20
Welding	T	–		Connection KPT2E16-23S-A240		Connection B DF A 108 FR 05 00 0150 000	3x M20
Gripping	T	–			–	–	–

* Technical data for all transfer modules can be found from page 66 onwards.

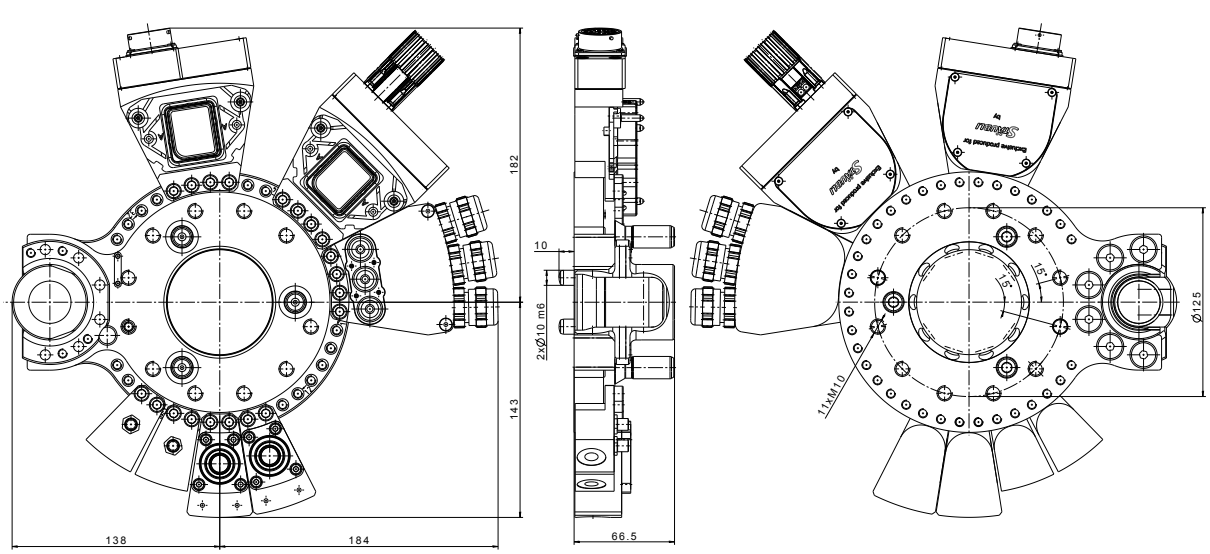
Application		Sensors	Order no.
Welding/gripping	R	PNP	MPS260RC-00WB-WBWA-WA00-0000-WPAA-ECAC-ECAB
Welding/gripping	R	NPN	MPS260RG-00WB-WBWA-WA00-0000-WPAA-ECAC-ECAB
Welding	T	–	MPS260TA-00WB-WBWA-WA00-0000-WPAA-ECAC-ECAB
Gripping	T	–	MPS260TA-00WB-WB00-0000-0000-0000-0000-ECAB

Transfer modules with other thread and plug connections can be customised using our simple **configuration system** (see page 50).

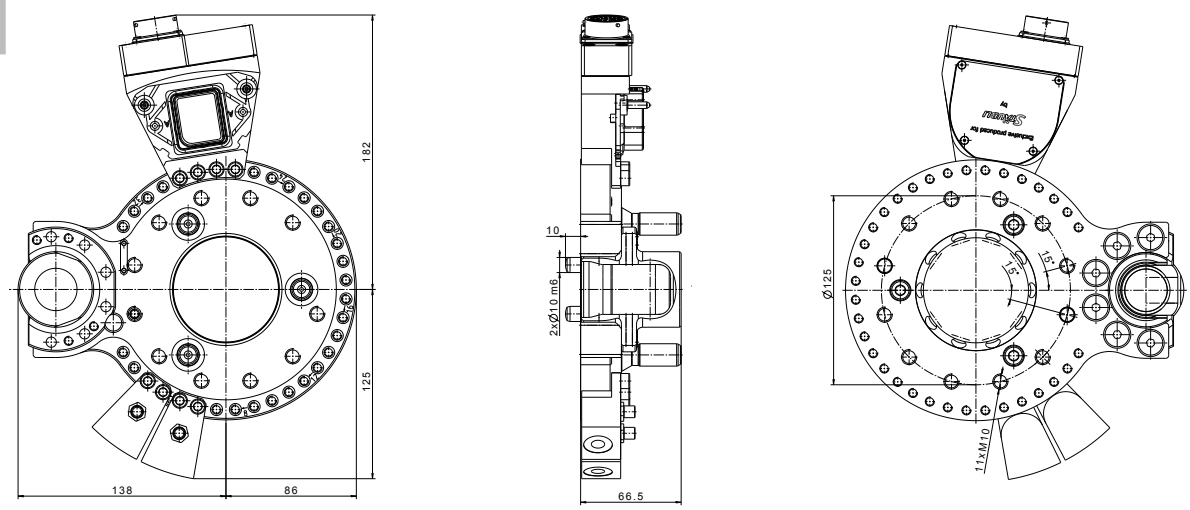
R


185
97
202
143
6
66
entriegeln / unlock
verriegeln / lock
Ø125
Ø80 h6
Ø10 H7
15°
11xØ10.3

T


182
143
138
184
10
2xØ10 m6
66.5
11xM10
Ø125
15°

T


182
125
138
86
10
2xØ10 m6
66.5
11xM10
Ø125
15°

MPS 260 - MODULAR

4 easy steps to your modular solution

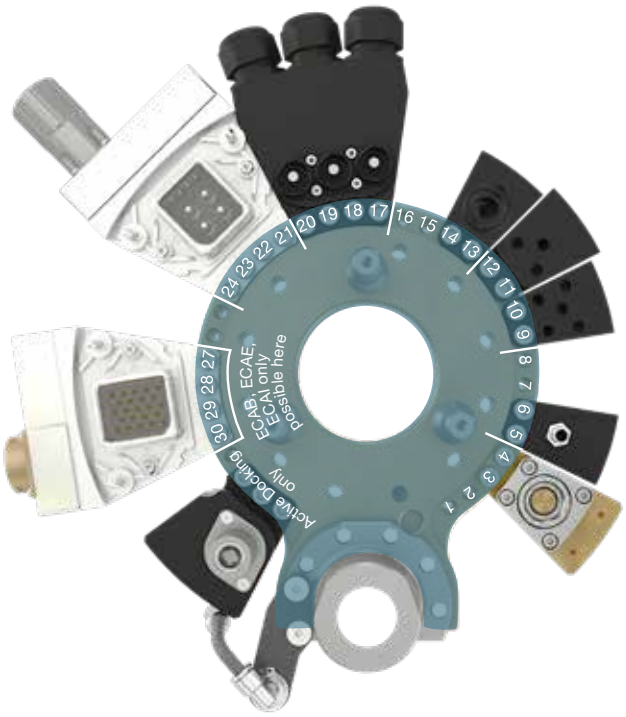
Take advantage of Staubli's modular product concept for maximum design freedom.
Configure your perfect tool changing system in just 4 easy steps.

R

1 **Choose your base unit** (page 52) and note the module order code.

2 Choose your **transfer modules** (from page 66 onwards).
Position the modules on the mounting holes 1 to 24 by entering the module order code.
The mounting holes 25 and 26 cannot be used for technical reasons.
Only ECAB, ECAE and ECAI possible for mounting holes 27 to 30.

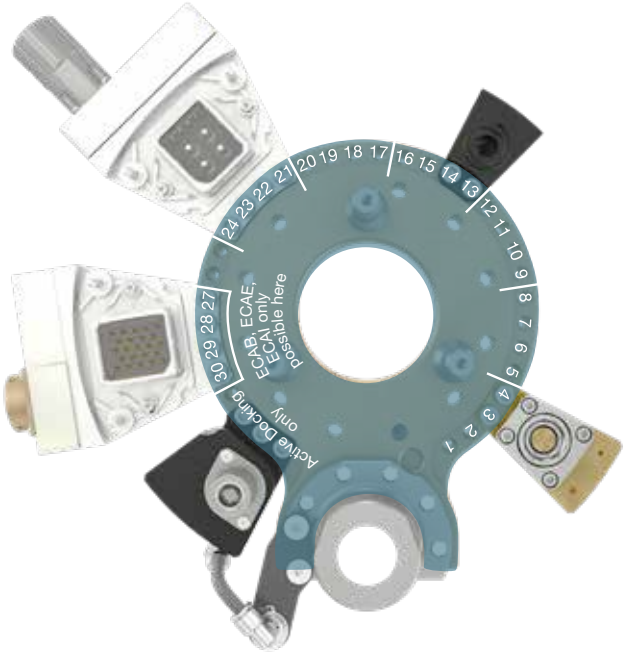
M	P	S	2	6	0	R	D	-	0	0	W	A	-	W	B	0	0	-	W	C	W	D	-	W	E	0	0	-	W	P	A	A	-	E	C	A	C	-	E	C	A	B
									1	2	3	4		5	6	7	8		9	10	11	12		13	14	15	16		17	18	19	20		21	22	23	24		27	28	29	30



T

3 Select the appropriate **base unit** for your tool side (from page 54).
Transfer the module order codes of the **transfer modules** analogously from the robot side.

MPS260TC-	00WA-	WB00-	WCWD-	WE00-	WPAA-	ECAC-	ECAB
1 2 3 4	5 6 7 8	9 10 11 12	13 14 15 16	17 18 19 20	21 22 23 24	27 28 29 30	



T

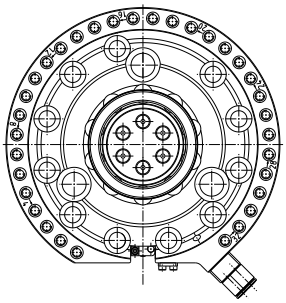
4 **Reduce your investment** by varying your tool side and removing any transfer modules that aren't needed on the tool side (Replace module order code with 00 or 0000).

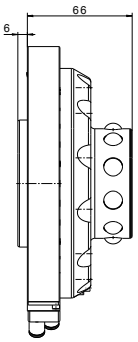
MPS260TC-	00WA-	0000-	0000-	WE00-	0000-	ECAC-	ECAB
1 2 3 4	5 6 7 8	9 10 11 12	13 14 15 16	17 18 19 20	21 22 23 24	27 28 29 30	

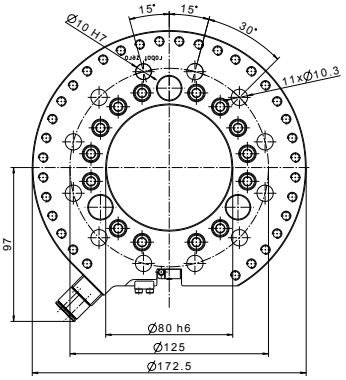
MPS 260 base unit robot side

MPS 260RA/RE

R

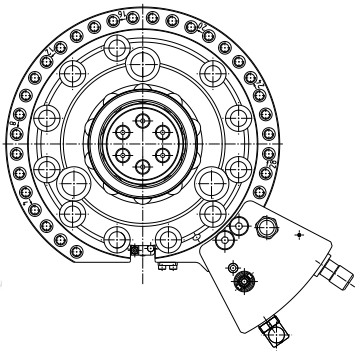


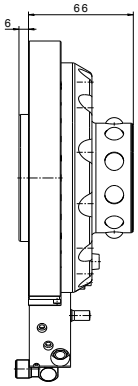


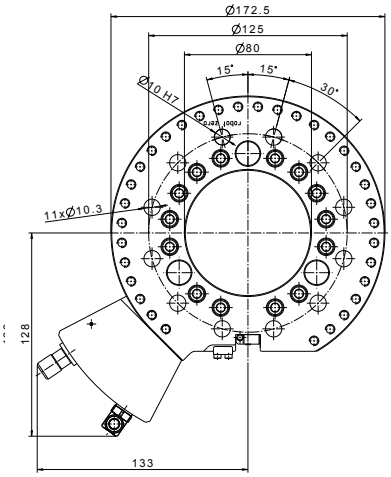


MPS 260RB/RF

R





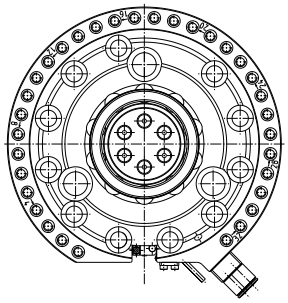


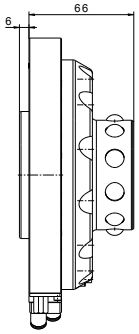
	Order no.	Pitch circle diameter (PCD)	Bending moment	Torsional moment	Payload	Compressed air connection	Safety module	Sensors/ connection	Module order code
R	K81557717	Ø 125 mm	2000 Nm	2000 Nm	350 kg	Push-In AD-Ø 6 mm	–	3x PNP/ 3x M12	MPS260RA
	K81557742							3x NPN/ 3x M12	MPS260RE
R	K81557718	Ø 125 mm	2000 Nm	2000 Nm	350 kg	Push-In AD-Ø 6 mm	Pressure switch PNP/NPN 1x M12	3x PNP/ 3x M12	MPS260RB
	K81557743							3x NPN/ 3x M12	MPS260RF

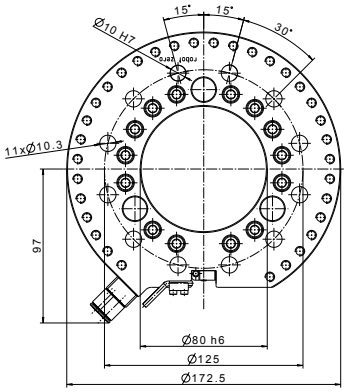
Base units can be operated with PNP or NPN sensors
according to your standard.

MPS 260RC/RG

R

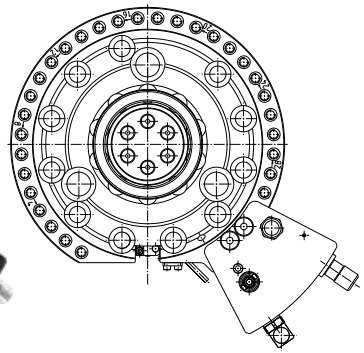


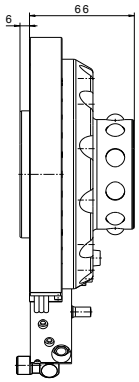


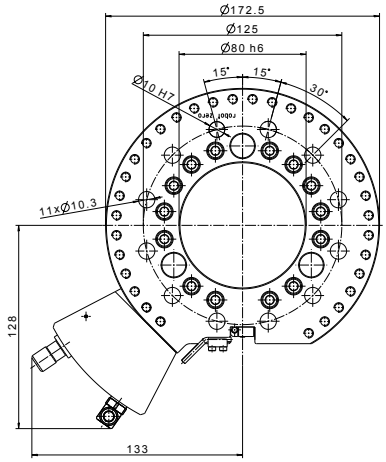


MPS 260RD/RH

R







	Order no.	Pitch circle diameter (PCD)	Bending moment	Torsional moment	Payload	Compressed air connection	Safety module	Sensors/ connection	Module order code
R	K81557719	Ø 125 mm	2000 Nm	2000 Nm	350 kg	Push-In AD-Ø 6 mm	–	3x PNP/ 1x M12	MPS260RC
	K81557738							3x NPN/ 1x M12	MPS260RG
R	K81557720	Ø 125 mm	2000 Nm	2000 Nm	350 kg	Push-In AD-Ø 6 mm	Pressure switch PNP/NPN 1x M12	3x PNP/ 1x M12	MPS260RD
	K81557744							3x NPN/ 1x M12	MPS260RH

MPS 260 - MODULAR

MPS 260 base unit tool side

MPS 260TO

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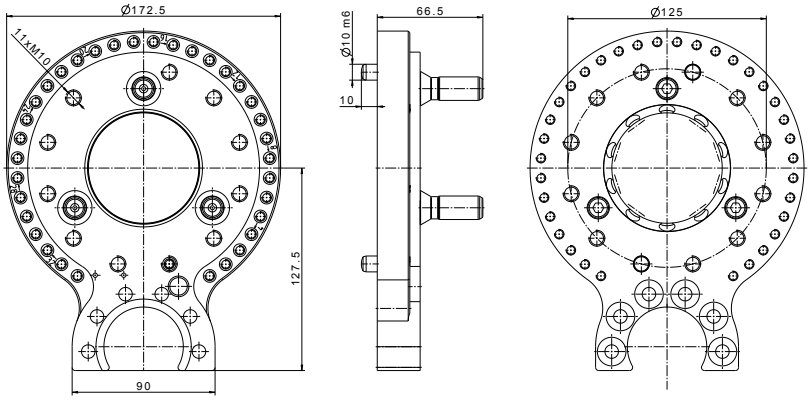

MPS 260TB

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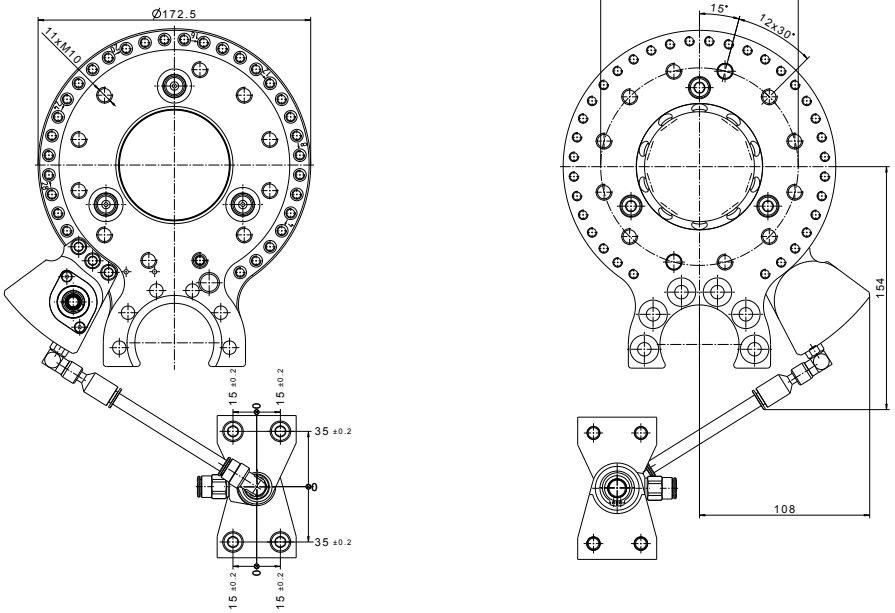

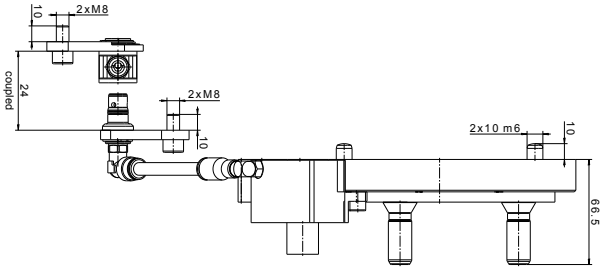

MPS 260TA

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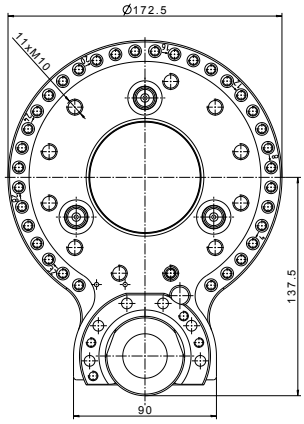

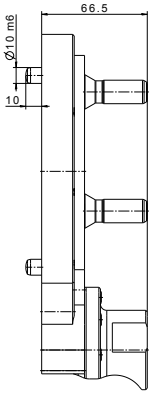

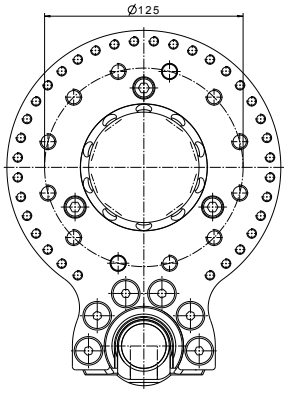

MPS 260TC

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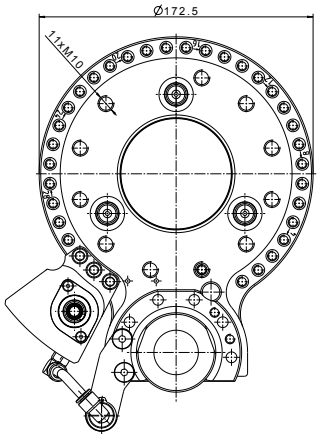
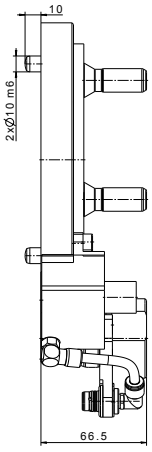
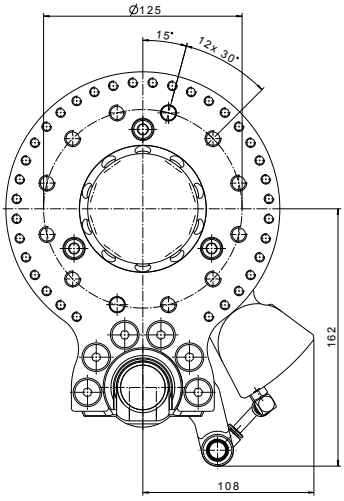


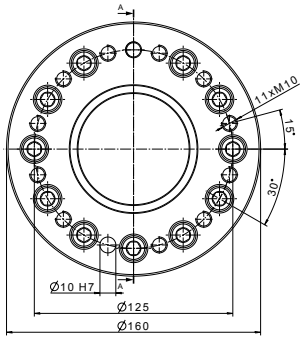


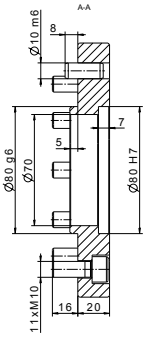


	Order no.	Pitch circle diameter (PCD)	Bending moment	Torsional moment	Docking hook	Safety module	Module order code
T	K81557665	Ø 125 mm	2000 Nm	2000 Nm	no	no	MPS260TO
T	K81557669	Ø 125 mm	2000 Nm	2000 Nm	no	yes	MPS260TB
T	K81557662	Ø 125 mm	2000 Nm	2000 Nm	yes	no	MPS260TA
T	K81557670	Ø 125 mm	2000 Nm	2000 Nm	yes	yes	MPS260TC

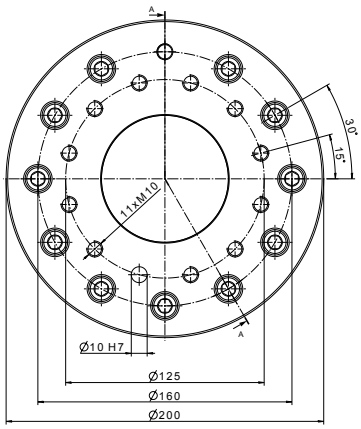
MPS 260
Robot adapter flange

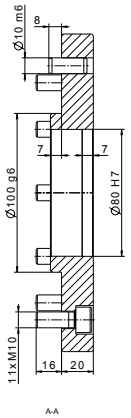
R



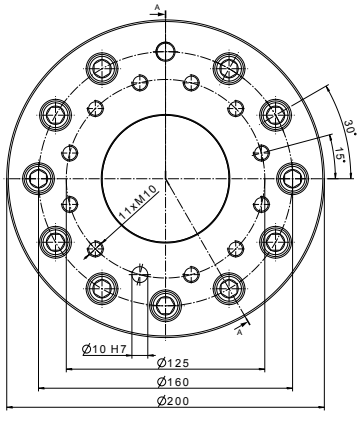


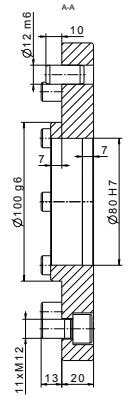
ill.1





ill.2





ill.3

	ill.	Order no.*	Adaption to	Zero offset
R	1	K81558258	ISO 9409-1-125-11-M10	0°
R	2	K81558259	ISO 9409-1-160-6-M10	15°
R	3	K81558260	ISO 9409-1-160-11-M12	15°

* including mounting material.

MPS 260 Accessories

Mounting set robot side

Order no.	Pitch diameter	Mounting materials	Locating pin
K81560779	Ø 125 mm	(11x) M10x40	(1x) 10/24

Emergency release

Order no.	Description
K81558229	Tool for emergency release

Teaching aid

Order no.	Description
K81557699	Convenient teaching aid for the robot tool change system
K81557692	Storage case including convenient teaching aid for the robot tool change system

MPS 260 – Tool stand

Flexibility and efficiency due to integrated tool storage

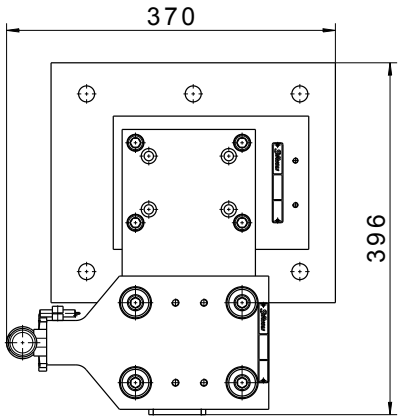
The tool stand is consistent with Stäubli's modular tool changer concept. Its individual components are designed to provide maximum scope for flexible process adaptation.

- Flexibility: the separate system components allow you to compile your own individual storage solutions.
- Optimally coordinated: the complete systems are already perfectly dimensioned and calibrated for tool weights.
- Performance Level d, Category 3-compliant: the optional Active Docking System with self-sufficient compressed air circuit ensures that tool locking and unlocking can only take place at the tool stand.
- Longevity: the floating bearing of the docking pin optimally holds the tool in the vertical storage position and minimises the load on the components.
- Function protection: a protective cover prevents any particles from getting into the transfer module couplings and connectors.

Contact us for **individual solutions** or **custom designs.**

Tool stand base	Positioning plate	Tool stand upper part	Protective cover	Sensors/ connection	Valve/ connection	Order no.	ill.
H = 1000 mm	with	without Active Docking	without	1x PNP / 1x M12	without	MPS260DA-OP01-UP03-0000	1
				1x NPN / 1x M12	without	MPS260DA-OP01-UP07-0000	-
			with	3x PNP / 3x M12	1x M8	MPS260DA-OP01-UP03-PC02	2
				3x NPN / 3x M12	1x M8	MPS260DA-OP01-UP07-PC04	-
H = 1000 mm	with	with Active Docking	without	1x PNP / 1x M12	1x M8	MPS260DA-OP01-UP04-0000	-
				1x NPN / 1x M12	1x M8	MPS260DA-OP01-UP08-0000	-
			with	3x PNP / 3x M12	2x M8	MPS260DA-OP01-UP04-PC02	-
				3x NPN / 3x M12	2x M8	MPS260DA-OP01-UP08-PC04	-
H = 1000 mm	without	without Active Docking	without	1x PNP / 1x M12	without	MPS260DA-0000-UP03-0000	3
				1x NPN / 1x M12	without	MPS260DA-0000-UP07-0000	-
			with	3x PNP / 3x M12	1x M8	MPS260DA-0000-UP03-PC02	4
				3x NPN / 3x M12	1x M8	MPS260DA-0000-UP07-PC04	-
H = 1000 mm	without	with Active Docking	without	1x PNP / 1x M12	1x M8	MPS260DA-0000-UP04-0000	-
				1x NPN / 1x M12	1x M8	MPS260DA-0000-UP08-0000	-
			with	3x PNP / 3x M12	2x M8	MPS260DA-0000-UP04-PC02	-
				3x NPN / 3x M12	2x M8	MPS260DA-0000-UP08-PC04	-

ill.1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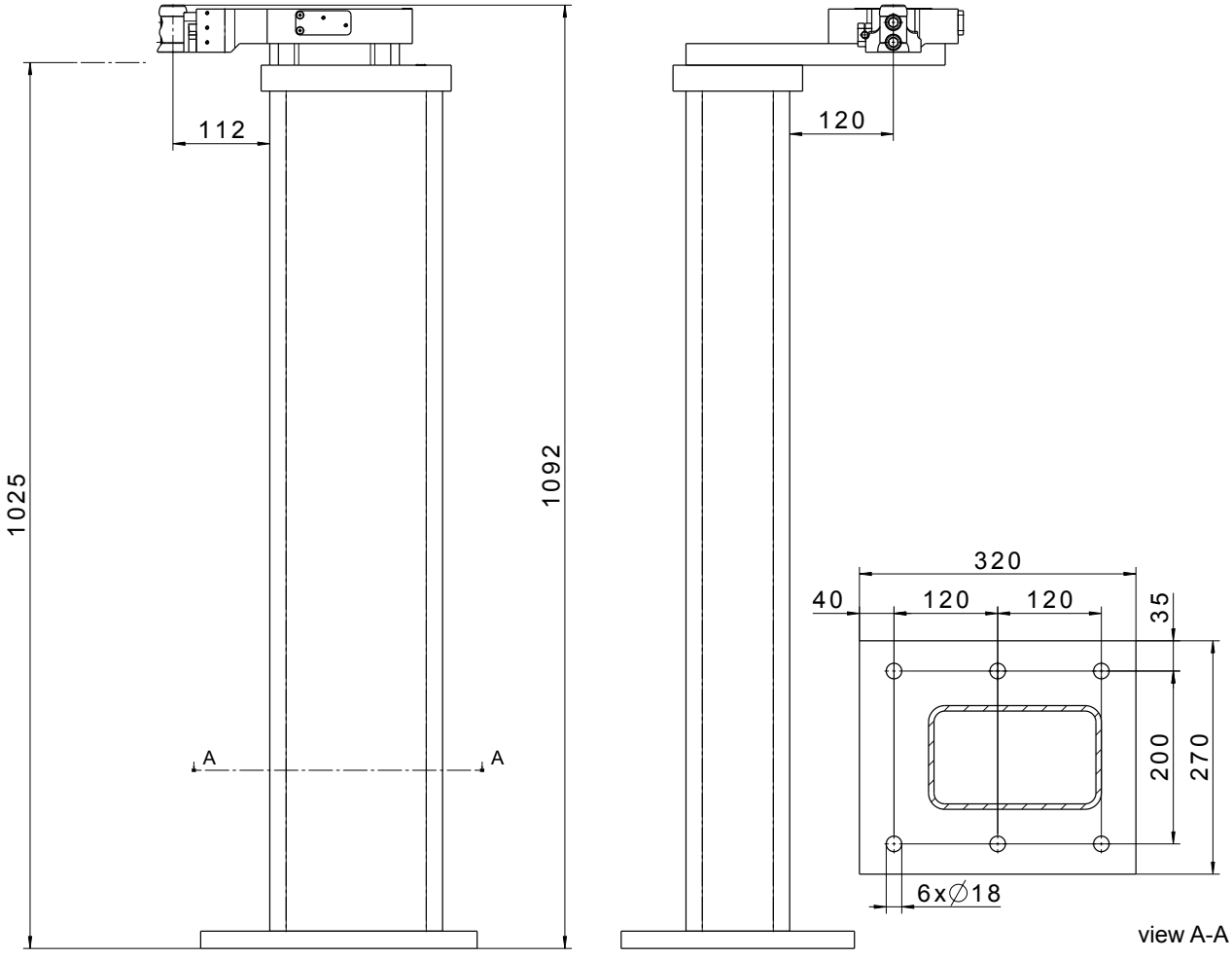
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120
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40
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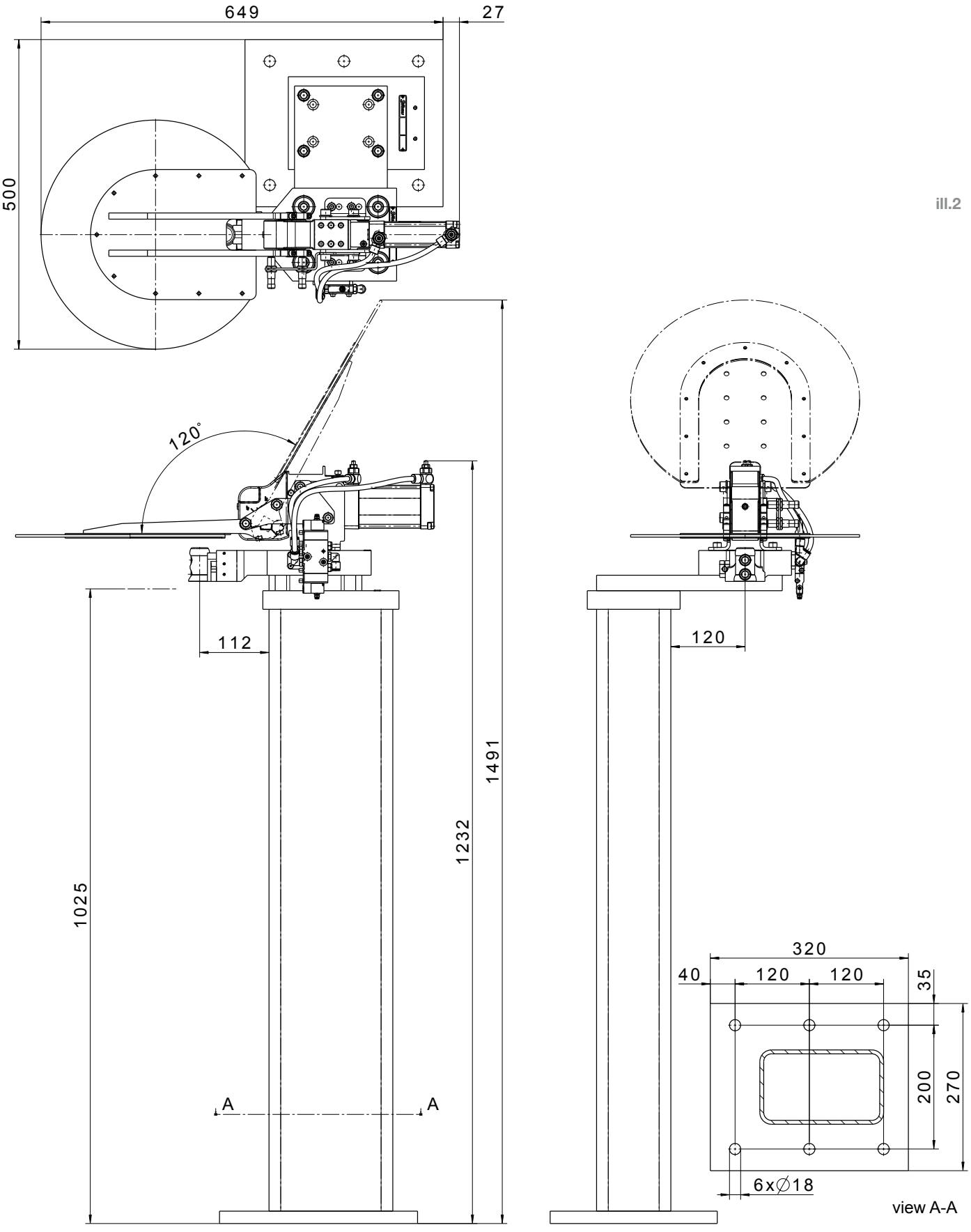
120
35
200
270
6x∅18
view A-A

MPS 260 TOOL STAND



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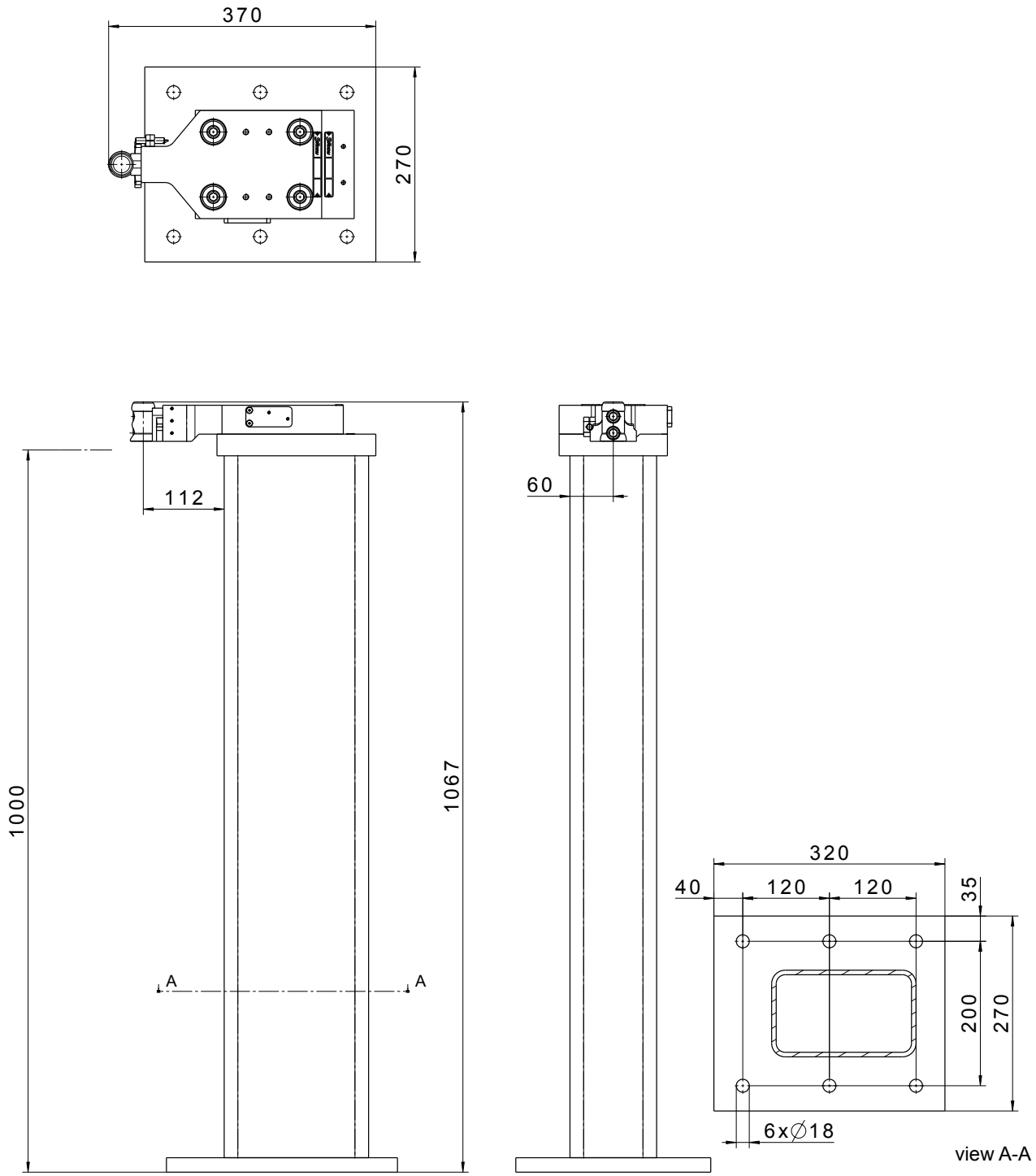
ill.3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1067
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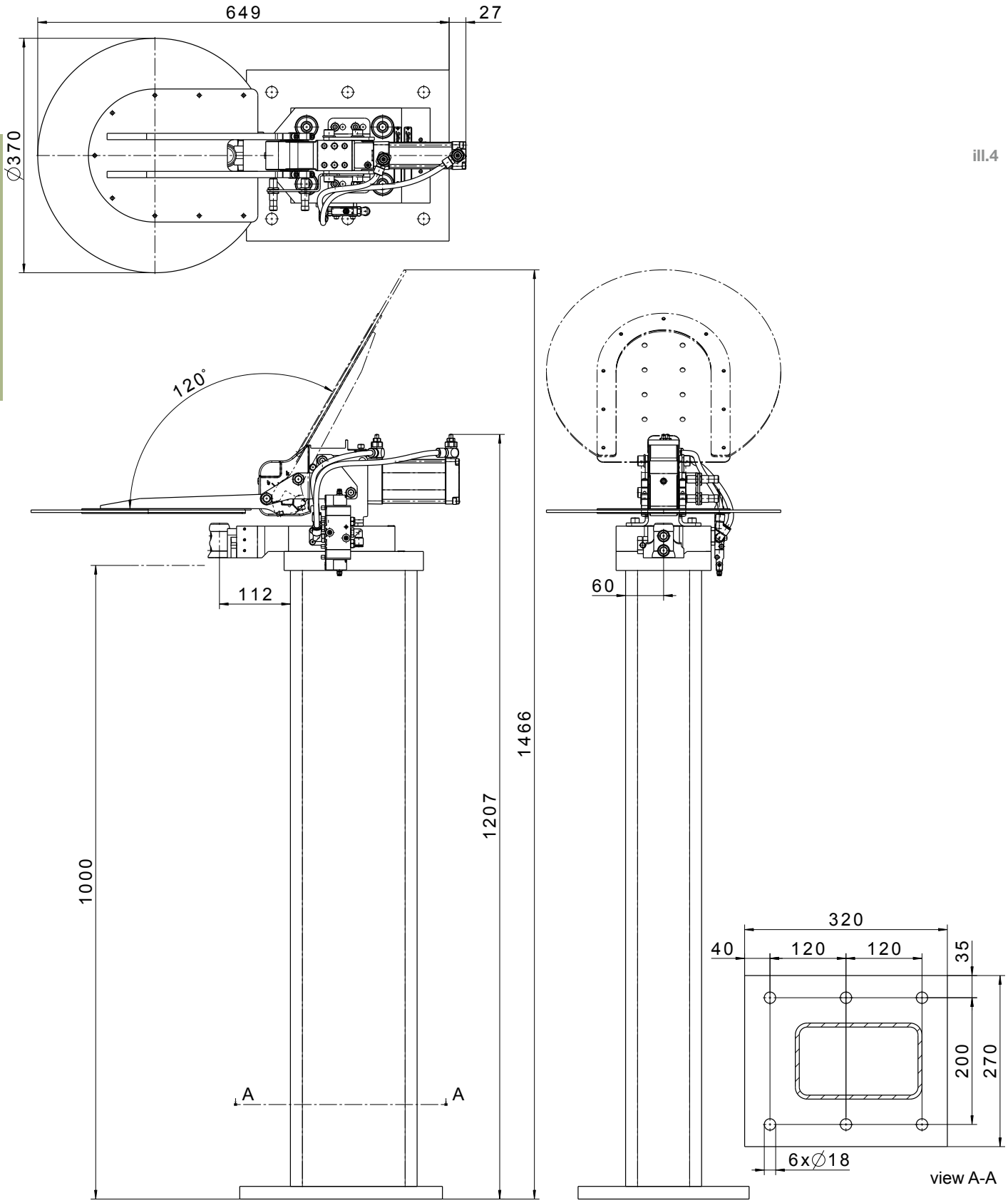
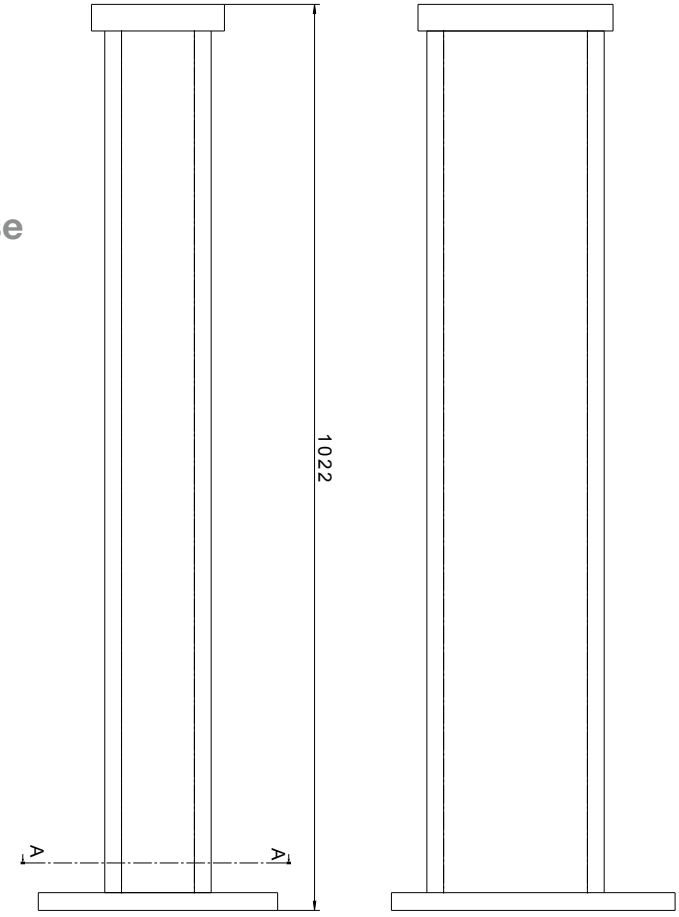
200
270
6x∅18
view A-A

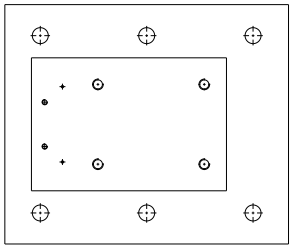
MPS 260 TOOL STAND

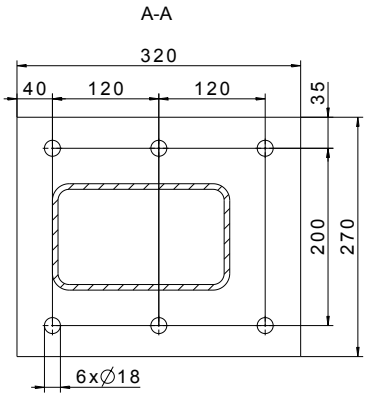
ill.4



Tool stand base

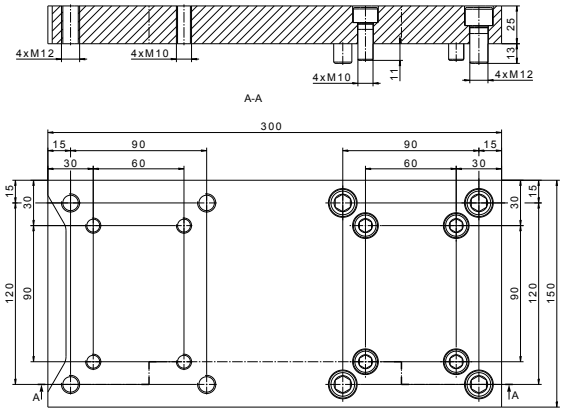






Order no	Description	Module order code
K81904350	Tool stand base H = 1000 mm, RAL 9003	MPS260DA

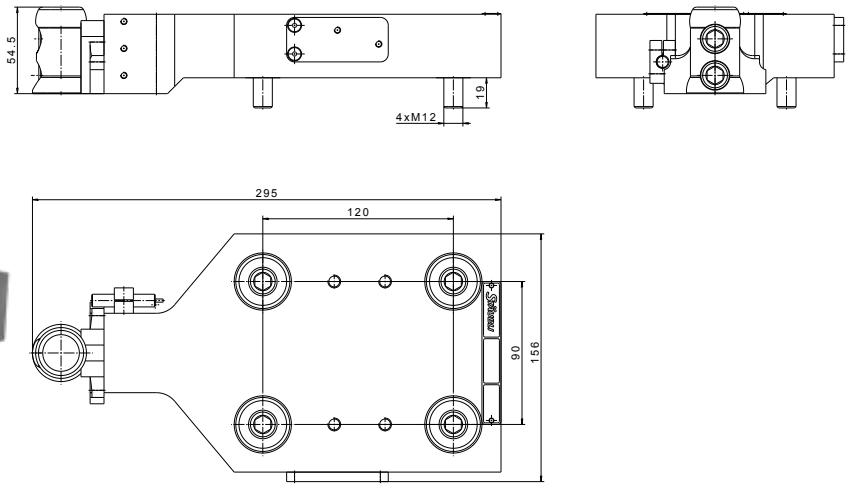
Positioning plate



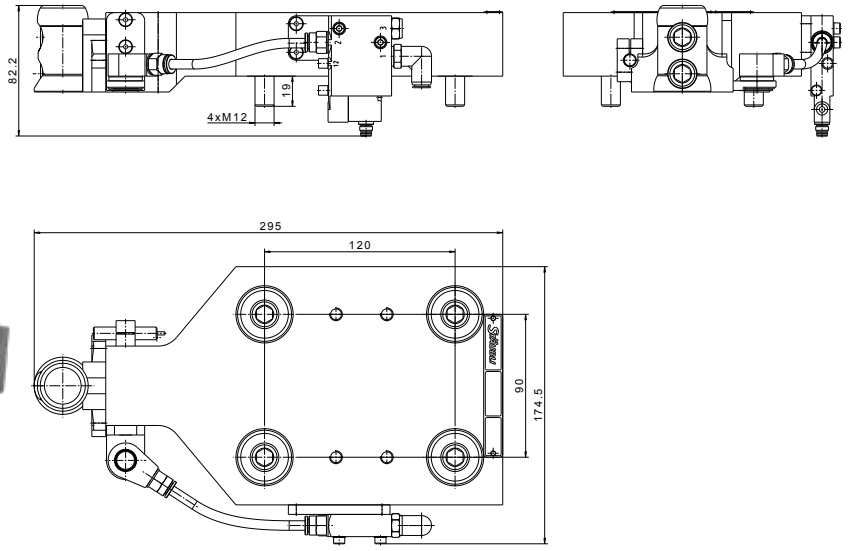
Order no	Description	Module order code
K81565881	Positioning plate for expanding the storage options includes mounting materials	OP01

MPS 260 TOOL STAND

Tool stand upper part

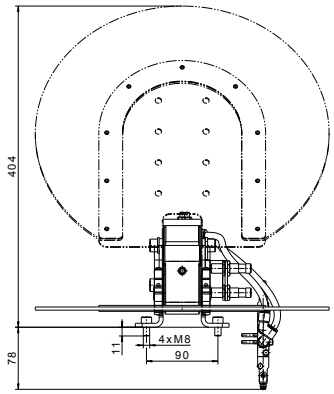


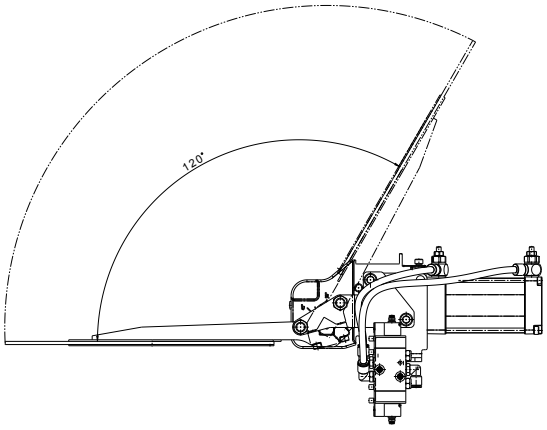
Order no.	Description	Sensors/ connection	Module order code
K86500908	Tool stand upper part includes mounting materials	1x PNP/ 1x M12	UP03
K86500914	Tool stand upper part includes mounting materials	1x NPN/ 1x M12	UP07

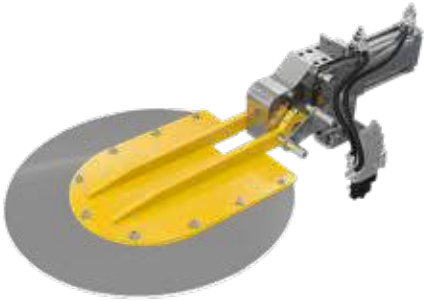


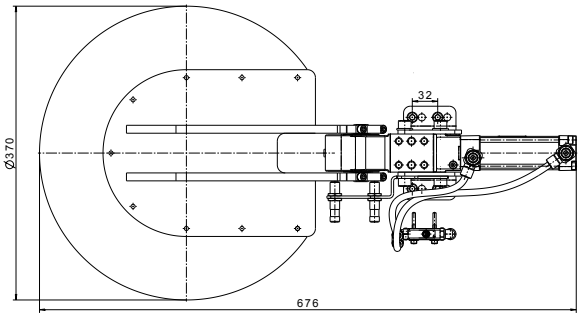
Order no.	Description	Sensors/ connection	Valve/ connection	Module order code
K86500903	Tool stand upper part with Active Docking includes mounting materials	1x PNP/ 1x M12	1x M8	UP04
K86500915	Tool stand upper part with Active Docking includes mounting materials	1x NPN/ 1x M12	1x M8	UP08

Protective cover



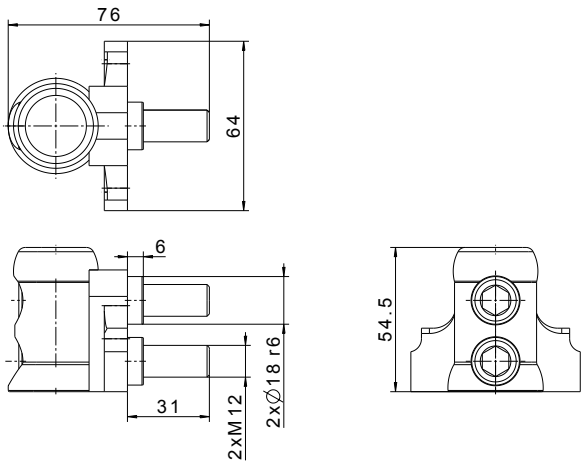






Order no.	Description	Sensors/ connection	Valve/ connection	Module order code
K81562434	Protective cover for harsh working environments; RAL 1004 includes mounting materials	PNP/M12	1x M8	PC02
K81562436		NPN/M12	1x M8	PC04

Accessories



Order no.	Description
K81560450	Mounting bolts for self-assembly, includes mounting materials

MPS 130/260 TRANSFER MODULE

Transfer modules for your production technology

Fluid, pneumatic and vacuum connectors

from page 68 onwards

Ground pin module for shielding and earth connection

from page 72 onwards

Primary circuit module for welding power transmission

from page 73 onwards

MultiDNet electrical module for signal and energy transmission

from page 74 onwards

Active Docking safety module Performance Level d, Category 3

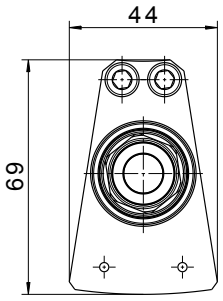
from page 78 onwards

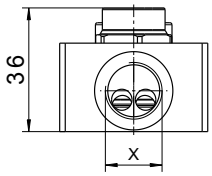
SPM 08 transfer module for fluids and pneumatics

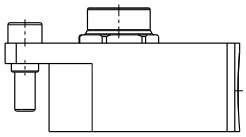
Technical description

- Clean-break technology for safe, leak-free media transfer
- no soiling of the workplace, no entry of air into the media circuits
- Quick change system for fast and easy maintenance
- large volume flows, low flow resistance

R







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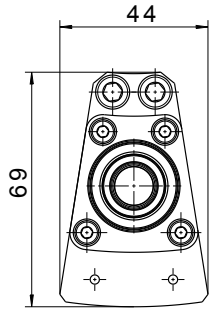
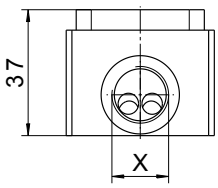
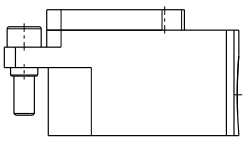






	Order no.	Nominal width	Circuits	Valve	Pressure (max.)	Flow rate	Connection (x)	Module order code
R	K81565679	8 mm	1	Double-sided Clean-Break	1.6 MPa	15 l/min* 131 Nm³/h**	G 3/8 Inner thread	WA
T	K81565680							
R	K81560810	8 mm	1	Double-sided Clean-Break	1.6 MPa	15 l/min* 131 Nm³/h**	NPT 3/8 Inner thread	WF
T	K81560811							
R	K81560808	8 mm	1	Double-sided Clean-Break	1.6 MPa	15 l/min* 131 Nm³/h**	Rc 3/8 Inner thread	WK
T	K81560809							

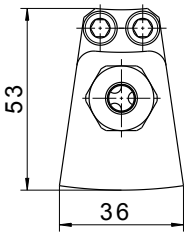
* for liquids, ** for gases.

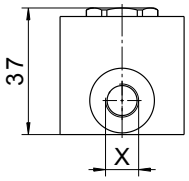
RMK 06 transfer module for pneumatics

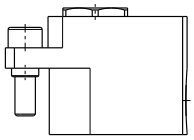
Technical description

- quick and easy replacement of the couplings during services
- large volume flows, low flow resistance
- extremely robust design guaranteeing a high number of mating cycles

R







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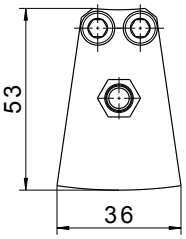
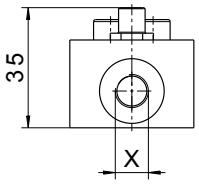
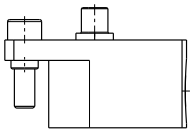






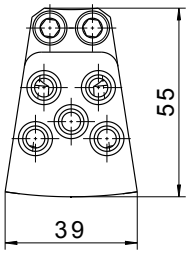
	Order no.	Nominal width	Circuits	Valve	Pressure (max.)	Flow rate	Connection (x)	Module order code
R	K81560467	6 mm	1	One-sided	1.0 MPa	25 Nm³/h	G 1/8 Inner thread	WB
T	K81560468			Free passage				
R	K81560814	6 mm	1	One-sided	1.0 MPa	25 Nm³/h	NPT 1/8 Inner thread	WG
T	K81560815			Free passage				
R	K81560812	6 mm	1	Free passage	1.0 MPa	25 Nm³/h	Rc 1/8 Inner thread	WL
T	K81560813			freier Durchgang				

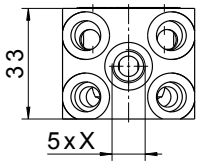
FTM transfer modules for pneumatics and vacuum

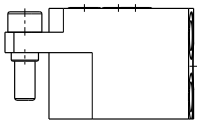
Technical description

- free passage guarantees high volume flows with low flow resistance
- suitable for the transfer of up to 90% vacuum
- extremely robust design guaranteeing a high number of mating cycles

R







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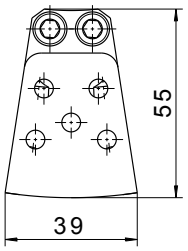
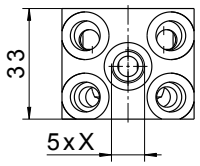
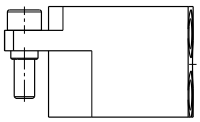
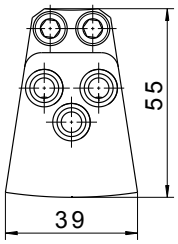


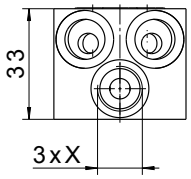


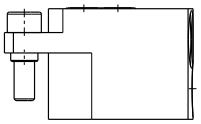


	Order no	Nominal width	Circuits	Valve	Pressure (max.)	Flow rate	Connection (x)	Module order code
R	K81565746	5.5 mm	5	Free passage	1.0 MPa	36.94 Nm³/h	G 1/8 Inner thread	WC
T	K81565747							
R	K81560818	5.5 mm	5	Free passage	1.0 MPa	36.94 Nm³/h	NPT 1/8 Inner thread	WH
T	K81560819							
R	K81560816	5.5 mm	5	Free passage	1.0 MPa	36.94 Nm³/h	Rc 1/8 Inner thread	WM
T	K81560817							

R







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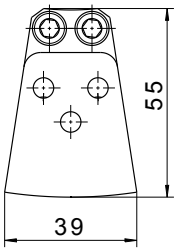
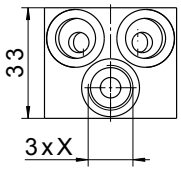
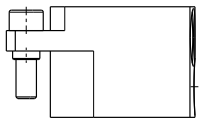
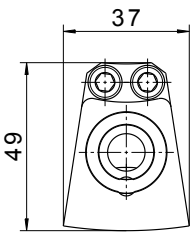


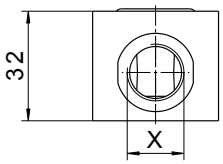


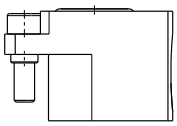


	Order no	Nominal width	Circuits	Valve	Pressure (max.)	Flow rate	Connection (x)	Module order code
R	K81560806	6 mm	3	Free passage	1.0 MPa	43.97 Nm³/h	G 1/4 Inner thread	WD
T	K81560807							
R	K81560822	6 mm	3	Free passage	1.0 MPa	43.97 Nm³/h	NPT 1/4 Inner thread	WJ
T	K81560823							
R	K81560820	6 mm	3	Free passage	1.0 MPa	43.97 Nm³/h	Rc 1/4 Inner thread	WO
T	K81560821							

R T







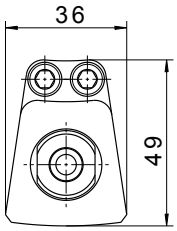
	Order no	Nominal width	Circuits	Valve	Pressure (max.)	Flow rate	Connection (x)	Module order code
R	K81565682	11 mm	1	Free passage	1.0 MPa	215.02 Nm³/h	G 3/8 Inner thread	WE
T								
R	K81560825	11 mm	1	Free passage	1.0 MPa	215.02 Nm³/h	NPT 3/8 Inner thread	WI
T								
R	K81560824	11 mm	1	Free passage	1.0 MPa	215.02 Nm³/h	Rc 3/8 Inner thread	WN
T								

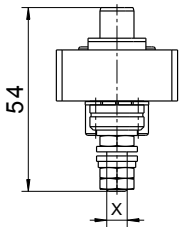
Ground pin module for shielding and earth connection

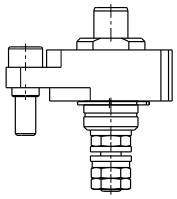
Technical description

- excellent power transmission with patented Stäubli MULTILAM technology
- Stäubli “Floating Contact Technology” guarantees wear-free coupling processes
- protection class: IP 65 (in a coupled state)
- low weight

R







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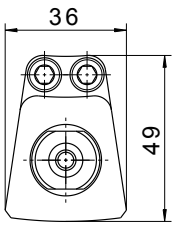
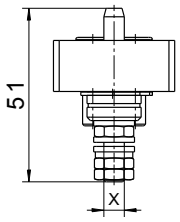
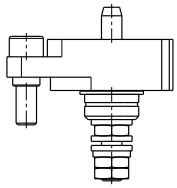






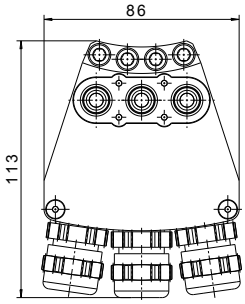
	Order no.	Number of Pins	Voltage/current or execution	Cable cross-section	Connection (x)	Module order code
R	K81565744	1	55VAC/75A	10 mm²	M6	MQ
T	K81565745					

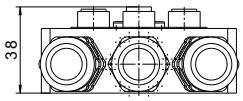
MGK2 Primary circuit module for welding power transmission

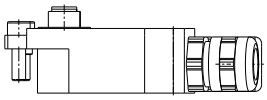
Technical description

- excellent power transmission with patented Stäubli MULTILAM technology
- suitable for high frequency transmission of up to 10 kHz with HF cables
- optional quick-change contact insert for fast & simple contact changes without rewiring during services
- Stäubli “Floating Contact Technology” guarantees wear-free coupling processes
- protection class: IP 65 (in a coupled state)

R







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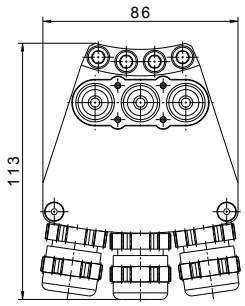
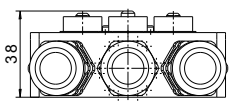
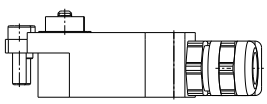






	Order no.	Number of Pins	Voltage/current or execution	Cable cross-section	Screw	Module order code
R	K81565882	2+PE	1000VAC/135A	16 mm²/22 mm² (4AWG)/25 mm²	3x M20	WPAA
T	K81565883					

MPS 130/260 TRANSFER MODULE

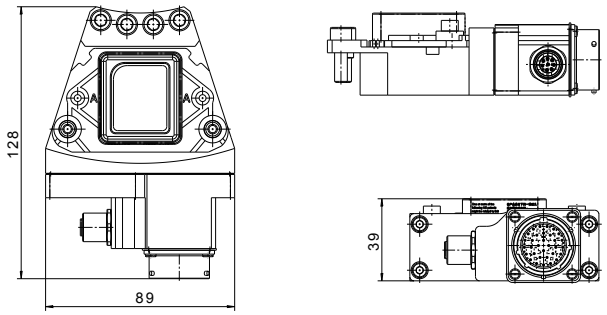
MultiDNet electrical module for signal and energy transmission

Technical description

- two different modules for servo and signal version
- excellent power transmission with patented Stäubli MULTILAM technology
- problem-free, robust contact technology
- protection class: IP 65 (in a coupled state)
- excellent shielding technology for secure data and power transmission

ill.1

R



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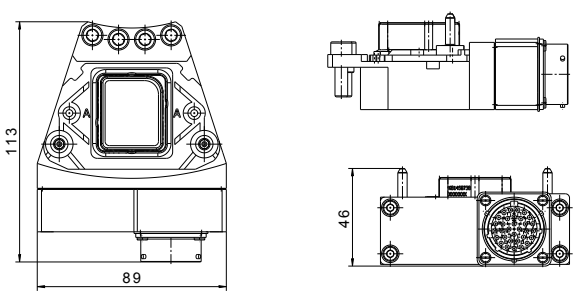
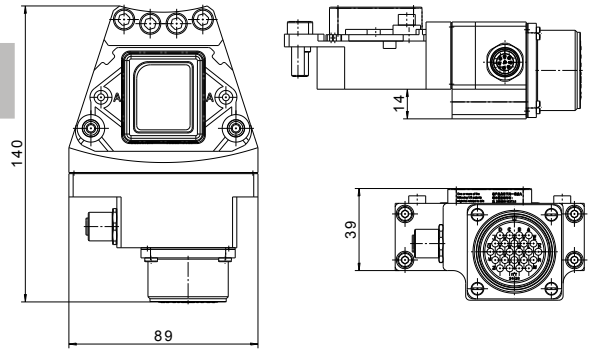
T



Signal transmission and docking signals

ill.3

R



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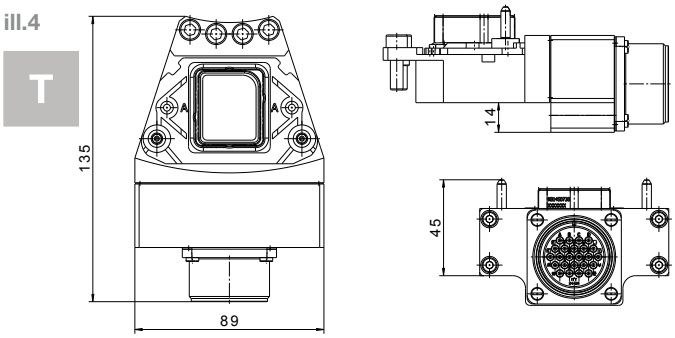

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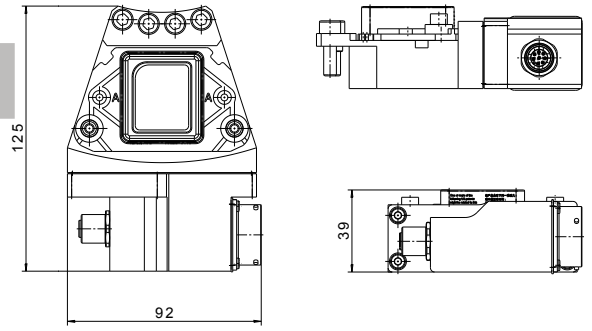

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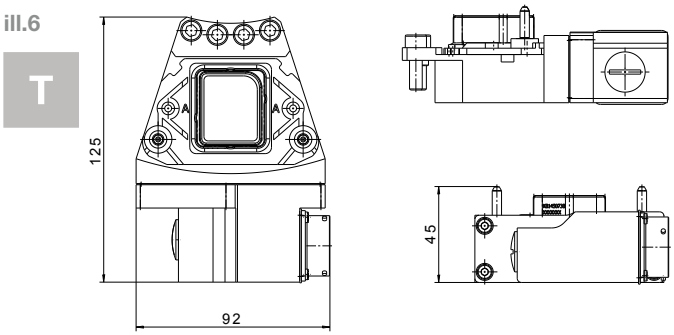


	Order no.	Number of Pins	Voltage/current (max.)	Connection*	Module order code	ill.
R	K81451174	23 + dock signal	60VDC/30VAC - 7.5A	KPT2E18-32P-A240	ECAB	1
T	K81451010	23	60VDC/30VAC - 7.5A	KPT2E18-32S-A240		2
R	K81451266	23 + dock signal	60VDC/30VAC - 7.5A	CA3102E-24-28P-A240	ECAI	3
T	K81451267	23	60VDC/30VAC - 7.5A	CA3102E-24-28S-A240		4
R	K81451231	23 + dock signal	60VDC/30VAC - 7.5A	KPT2E18-32P-A240	ECAE	5
T	K81451232	23	60VDC/30VAC - 7.5A	KPT2E18-32S-A240		6

* ITT Cannon, Amphenol and DDK are standardized connectors and plug-compatible with the same configuration.

Accessories for connectors

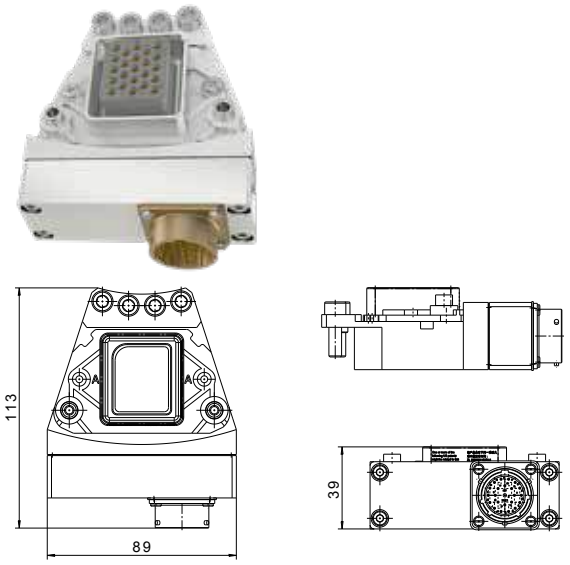
	Order no.	Mating connector	Connection	Suitable for
R	B27597734	straight cable output	KPT6B18-32S-A240	ECAB und ECAE
R	B27597735	90° cable output	KPT8F18-32S-A240	
T	B27597737	straight cable output	KPT6B18-32P-A240	
T	B27597738	90° cable output	KPT8F18-32P-A240	
R	B27597976	straight cable output	CA3106E-24-28S-A240	ECAI
R	B27597978	90° cable output	CA3108E-24-28S-A240	
T	B27597977	straight cable output	CA3106E-24-28P-A240	
T	B27597979	90° cable output	CA3108E-24-28P-A240	

MPS 130/260 TRANSFER MODULE

Signal transmission

ill.1

R



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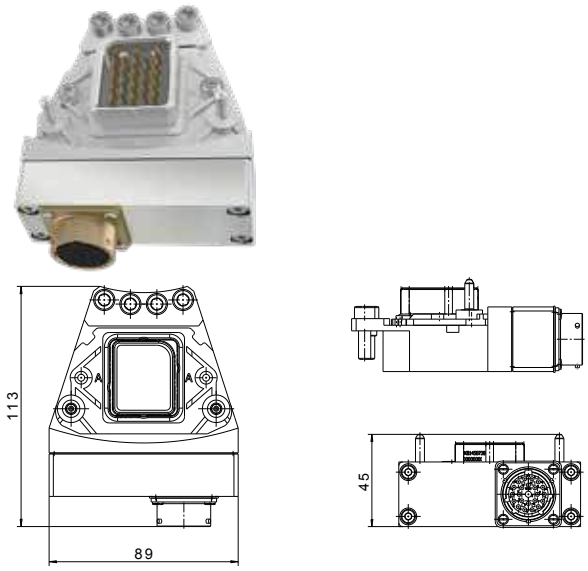

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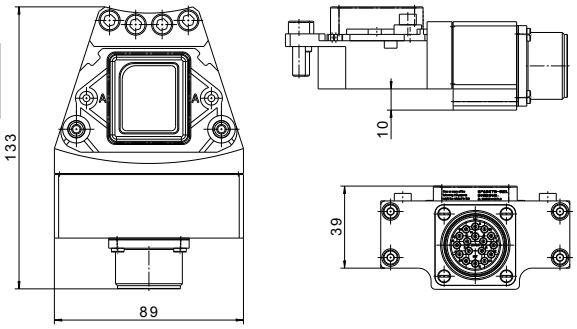
R



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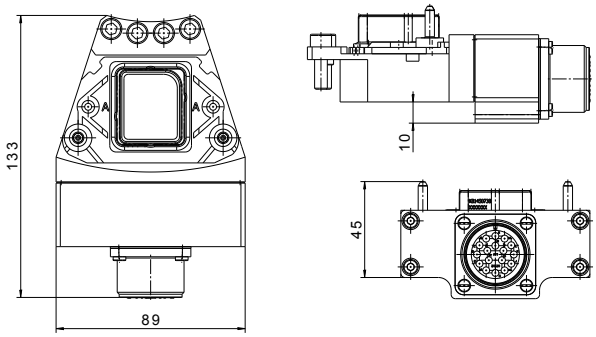


	Order no.	Number of Pins	Voltage/current (max.)	Connection*	Module order code	ill.
R	K81451007	23	60VDC/30VAC - 7.5A	KPT2E16-23P-A240	ECAA	1
T	K81451008			KPT2E16-23S-A240		2
R	K81451264	23	60VDC/30VAC - 7.5A	CA3102E-20-29P-A240	ECAD	3
T	K81451265			CA3102E-20-29S-A240		4

* ITT Cannon, Amphenol and DDK are standardized connectors and plug-compatible with the same configuration.

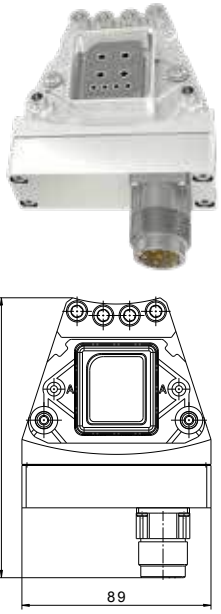
Accessories for connectors

	Order no.	Mating connector	Connection	Suitable for
R	B27597727	straight cable output	KPT6B16-23S-A240	ECAA
R	B27597728	90° cable output	KPT8F16-23S-A240	
T	B27597731	straight cable output	KPT6B16-23P-A240	
T	B27597732	90° cable output	KPT8F16-23P-A240	
R	B27597972	straight cable output	CA3106E-20-29S-A240	ECAD
R	B27597974	90° cable output	CA3108E-20-29S-A240	
T	B27597973	straight cable output	CA3106E-20-29P-A240	
T	B27597975	90° cable output	CA3108E-20-29P-A240	

Servo power transmission

ill.1

R



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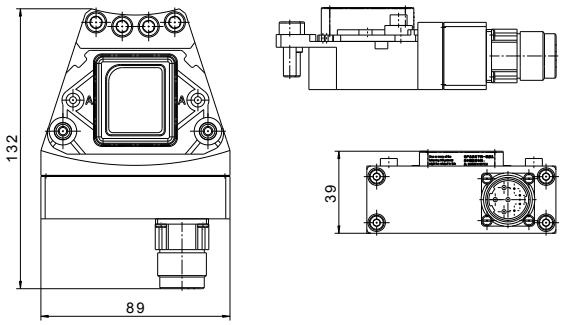

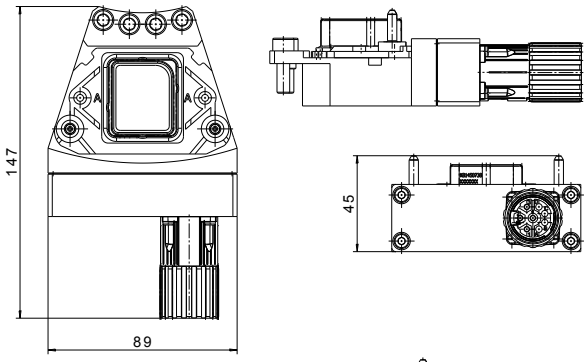

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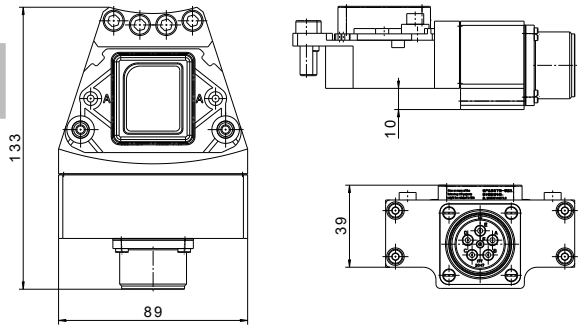

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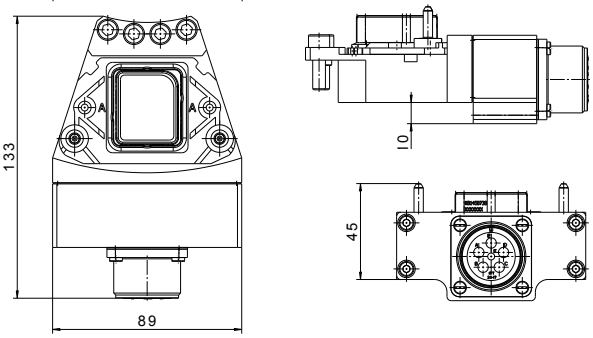


	Order no.	Number of Pins	Voltage/current (max.)	Connection*	Module order code	ill.
R	K81451011	3+PE+4	630VDC/30A - 250VAC/7A	B EG A 120 MR 11 00 0200 400	ECAC	1
T	K81451012			B DF A 108 FR 05 00 0150 000		2
R	K81451268	3+PE+4	630VDC/30A - 250VAC/7A	CA3102E-20-17P-A240	ECAF	3
T	K81451269			CA3102E-20-17S-A240		4

* ITT Cannon, Amphenol and DDK are standardized connectors and plug-compatible with the same configuration.

Accessories for connectors

	Order no.	Mating connector	Connection	Suitable for
R	B27597360	straight cable output	B ST A 078 FR 05 42 0235 400	ECAC
T	B27597414	straight cable output	B KU A 199 MR 38 42 0200 000	
R	B27597980	straight cable output	CA3106E-20-17S-A240	ECAF
R	B27597982	90° cable output	CA3108E-20-17S-A240	
T	B27597981	straight cable output	CA3106E-20-17P-A240	
T	B27597983	90° cable output	CA3108E-20-17P-A240	

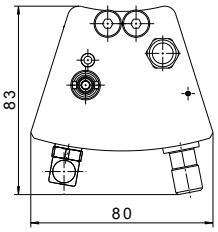
Active Docking Safety module

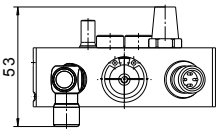
Performance Level d, Category 3

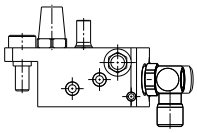
Technical description

- stand-alone system, independent of the bus system
- easy integration, lower system costs
- integrated pressure switch for locking pressure monitoring
- meets the safety requirements of Performance Level d, Category 3

R







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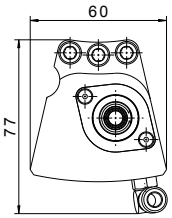
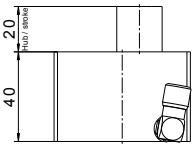
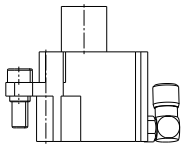


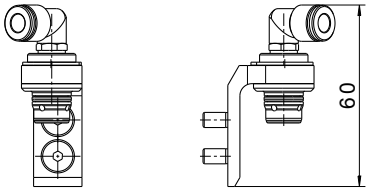




	Order no.	Sensors/connection		Compressed air connection
R	K81560446	Pressure switch 4,5 bar/NO	PNP/ 1x M12	Push-lock hose outer-Ø 6 mm
R	K81565847	Pressure switch 4,5 bar/NO	NPN/ 1x M12	
T	K81560447	none		

ill.1

T



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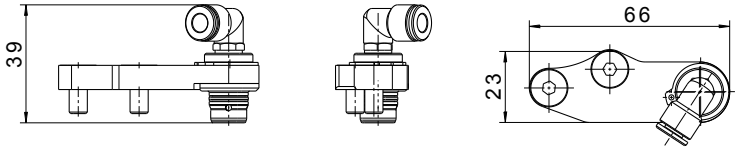

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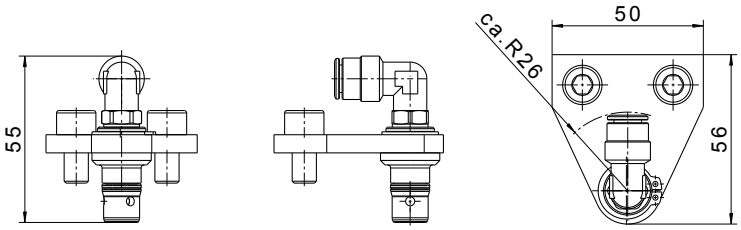
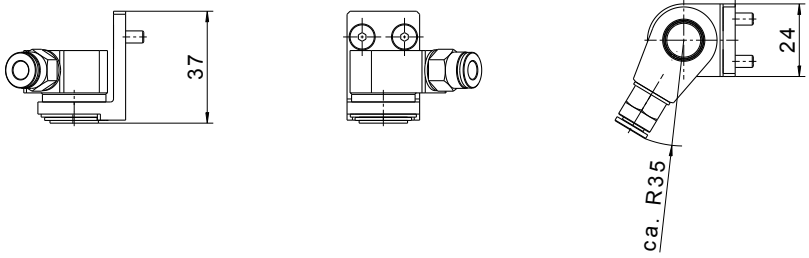


	Order no.	Accessories	Compressed air connection	ill.
T	K81560451	Transfer coupling **only for MPS 130**	Push-lock hose outer-Ø 6 mm	1
T	K81560449	Transfer coupling **only for MPS 260**	Push-lock hose outer-Ø 6 mm	2
T	K81564871	Transfer coupling **for installation to end user tool**	Push-lock hose outer-Ø 8 mm	3

ill.1



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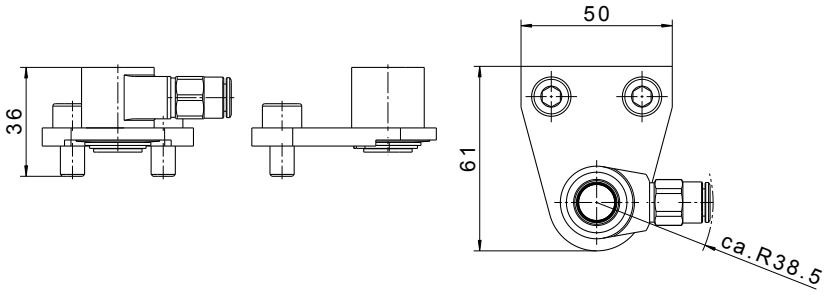

	Order no.	Accessories	Compressed air connection	ill.
	K81560452	Transfer coupling **docking station for MPS 130/260**	Push-lock hose outer-Ø 6 mm	1
	K81564872	Transfer coupling **for installation to external docking system**	Push-lock hose outer-Ø 8 mm	2

MPS CUSTOMIZED

Customer-specific designs



Agile project management
for maximum efficiency

Our 125 year-long commitment to innovation and our extensive expertise in all industrial sectors are reflected in our individual solutions for customers around the world. We liaise closely with our customers to develop custom-made systems that are precisely and flexibly adapted to their requirements.

Over the decades, as a pioneer in the development of robotic tool changing systems, Stäubli has consistently implemented the highest precision and quality standards as well as maximum safety aspects with innovative, sustainable and variable technologies. Reflecting these high standards, the modular tool changers have an open architecture that makes the customer-specific design of perfectly matched systems possible.

Global cost efficiency and quality standards

Companies and corporations rely on standard global production processes so that they can uphold their own quality standards. This enables the optimisation of costs along the entire production resource supply chain. Stäubli consistently supports this approach by developing its own standards for customers with robotic tool changing systems.

Design expertise from a single source

All components of the robotic tool changer systems are developed and manufactured by Stäubli:

- Only proven and certified technologies are used, based on decades of experience, for the comprehensive portfolio of transfer modules and electrical connectors.
- All design, production and quality inspection activities take place at Stäubli.



Know-how from design
to finished product

Individual, on-site advice worldwide

- Stäubli personnel are available for individual consultations at all its worldwide locations.
- Our technical consultants analyse the production and operating conditions at your site with you.
- Our project planning and design specialists configure the MPS system to your needs.

Optimum system customisation for maximum productivity

Stäubli flexibly implements specific requirements, such as locking units for special payloads or new, process-dependent transfer modules, in optimally adapted and technologically mature systems.

The individual adaptation of the transfer modules is possible with almost all product parameters:

- Faster transfer rates due to larger nominal diameters
- Customised additions to the plug & play product range
- Special media resistance and robustness is achieved through the use of highly resistant and premium quality materials
- Customer-specific wiring of electrical connectors with component testing and logging
- Development of new transfer modules for specific production technologies

Comprehensive payload series

Stäubli caters to a broad spectrum of payloads from 20 to 1530 kilogrammes and thus enables a very wide range of applications. Please contact us if the payloads listed in this brochure do not meet your needs.

RZ5520300A

■ Stäubli Units ○ Agents

Global presence of the Stäubli Group

www.staubli.com

STÄUBLI