

FAST MOVING TECHNOLOGY

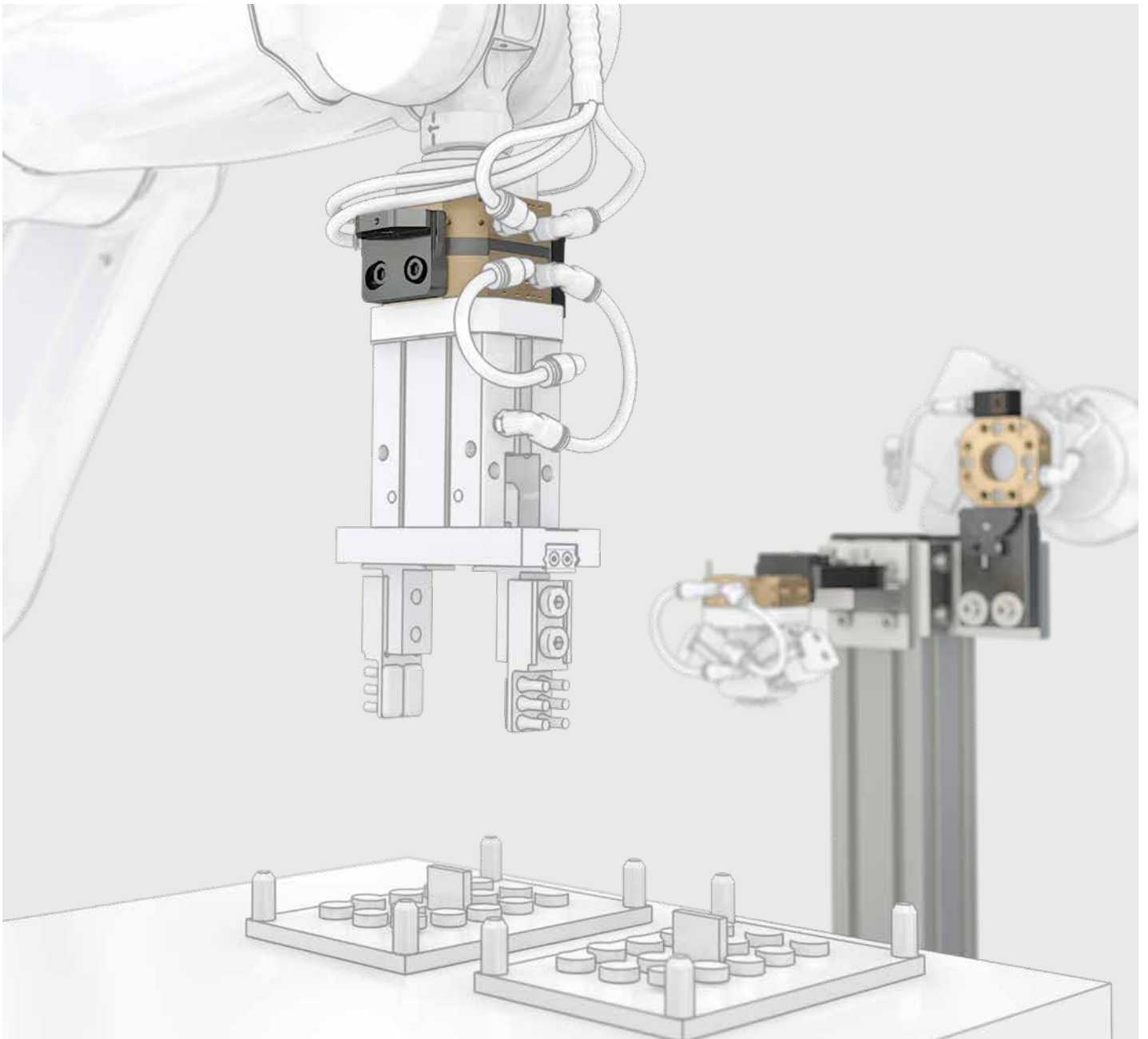
STÄUBLI



RAM SOLUTIONS, LLC

Robotic tool changing systems for all applications

Productivity for all industrial sectors





ROBOTIC TOOL CHANGER

Perfect solutions for your automated production

Stäubli's robotic tool changing systems are based on a modular product concept. All transfer technologies can be flexibly combined to create customised solutions for any robot. Benefit from optimised functionality and easy integration into your production processes.

- 1

Broad technology portfolio
Versatile and flexible transfer technologies for all robotic applications.
- 2

Smart configuration
Quick and easy to configure tool changing systems for maximum robot flexibility.
- 3

High-quality locking system
Highly accurate, efficient and durable locking technology for maximum repeatability over life.
- 4

Maximum safety
Safety technology certified to Performance Level d, Category 3 for comprehensive protection of personnel and installation.
- 5

Global solution partner
Local technical support around the world to help you choose the best robotic tool changing system for your application.
- 6

Customised solutions
For special requirements: Base units with special features, redesigned transfer modules or special tool stand systems.

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Robotic tool changing systems for all payload ranges



Payloads up to 55 kg



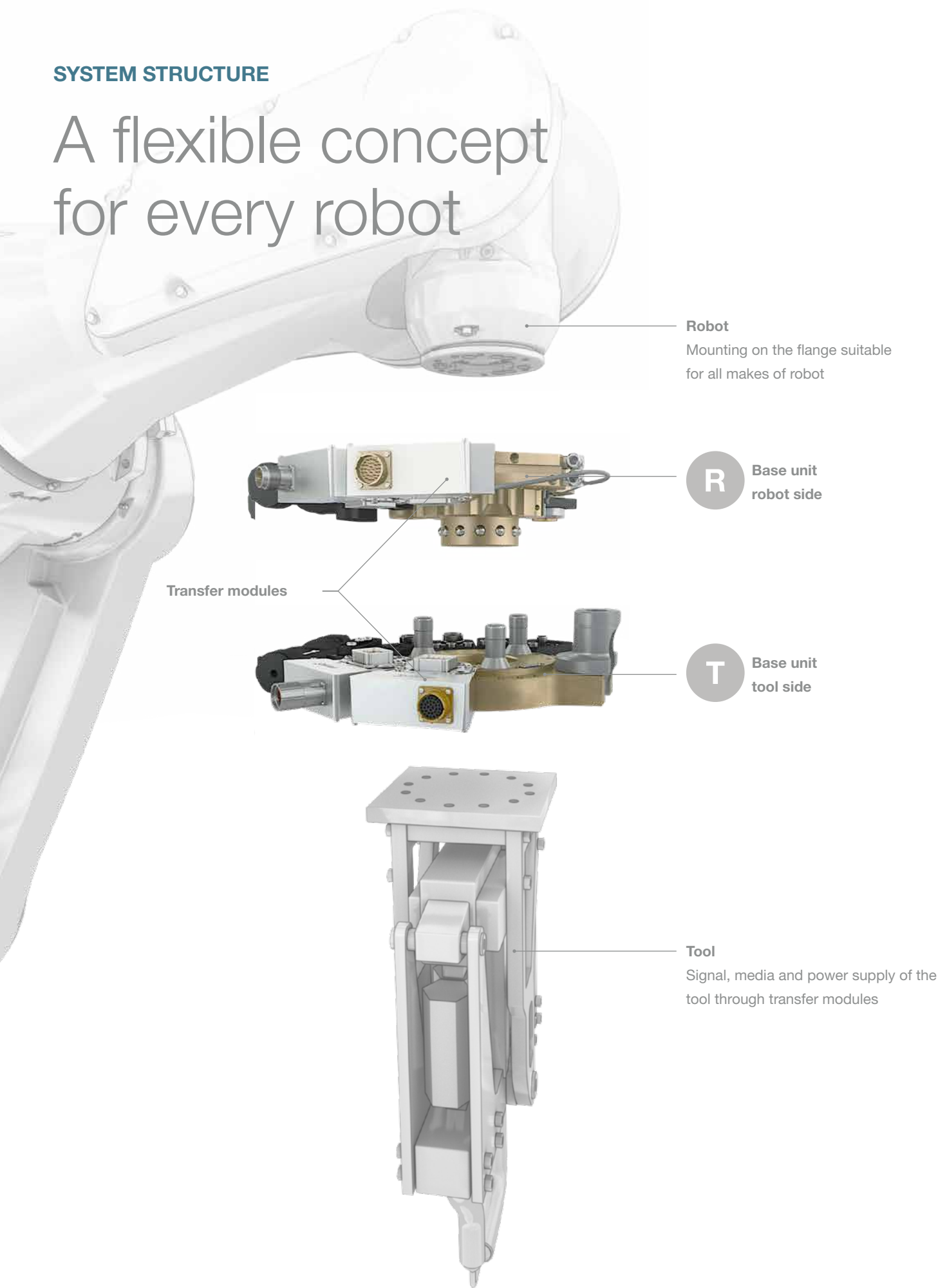
Payloads up to 350 kg



Payloads up to 2500 kg

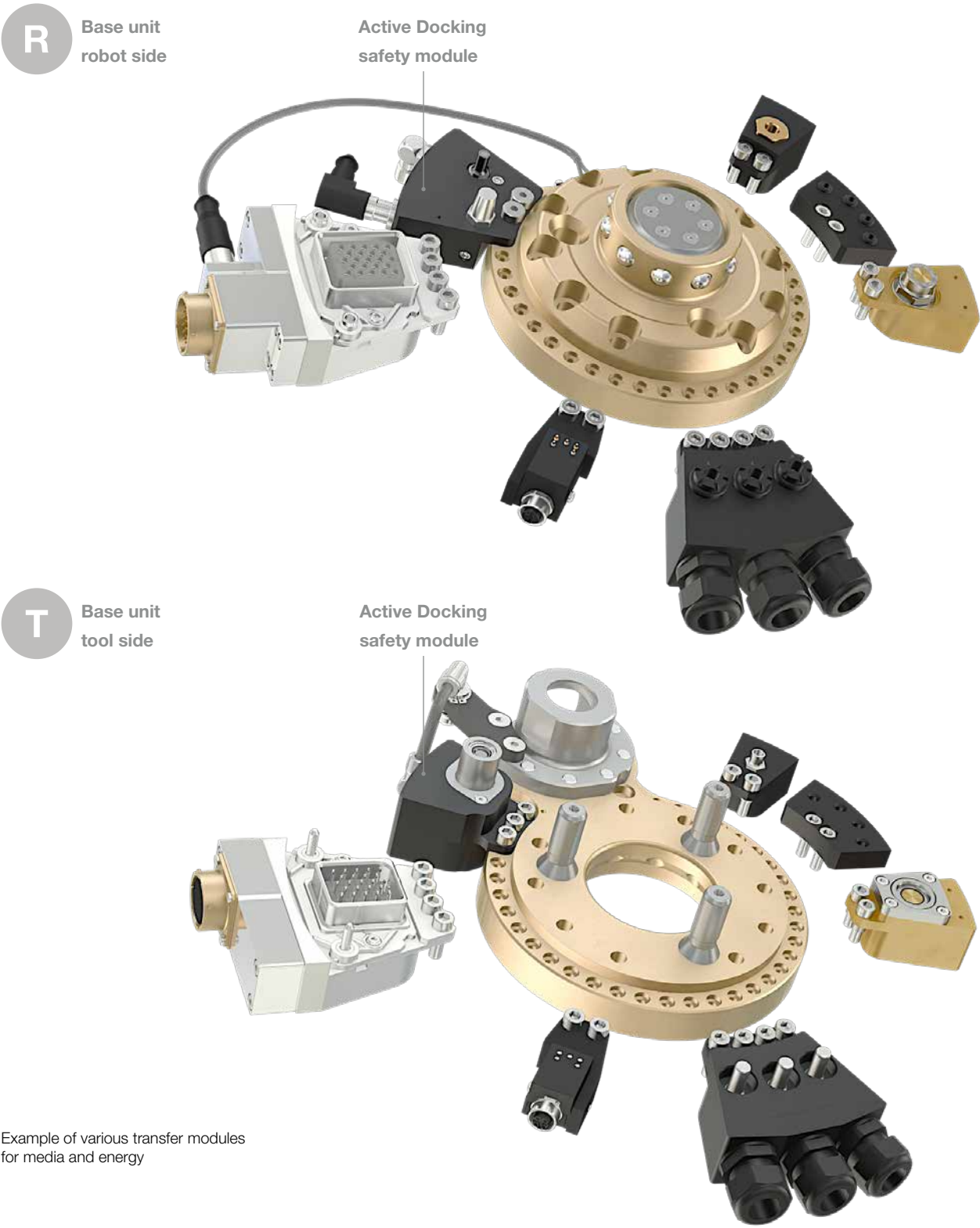
SYSTEM STRUCTURE

A flexible concept
for every robot

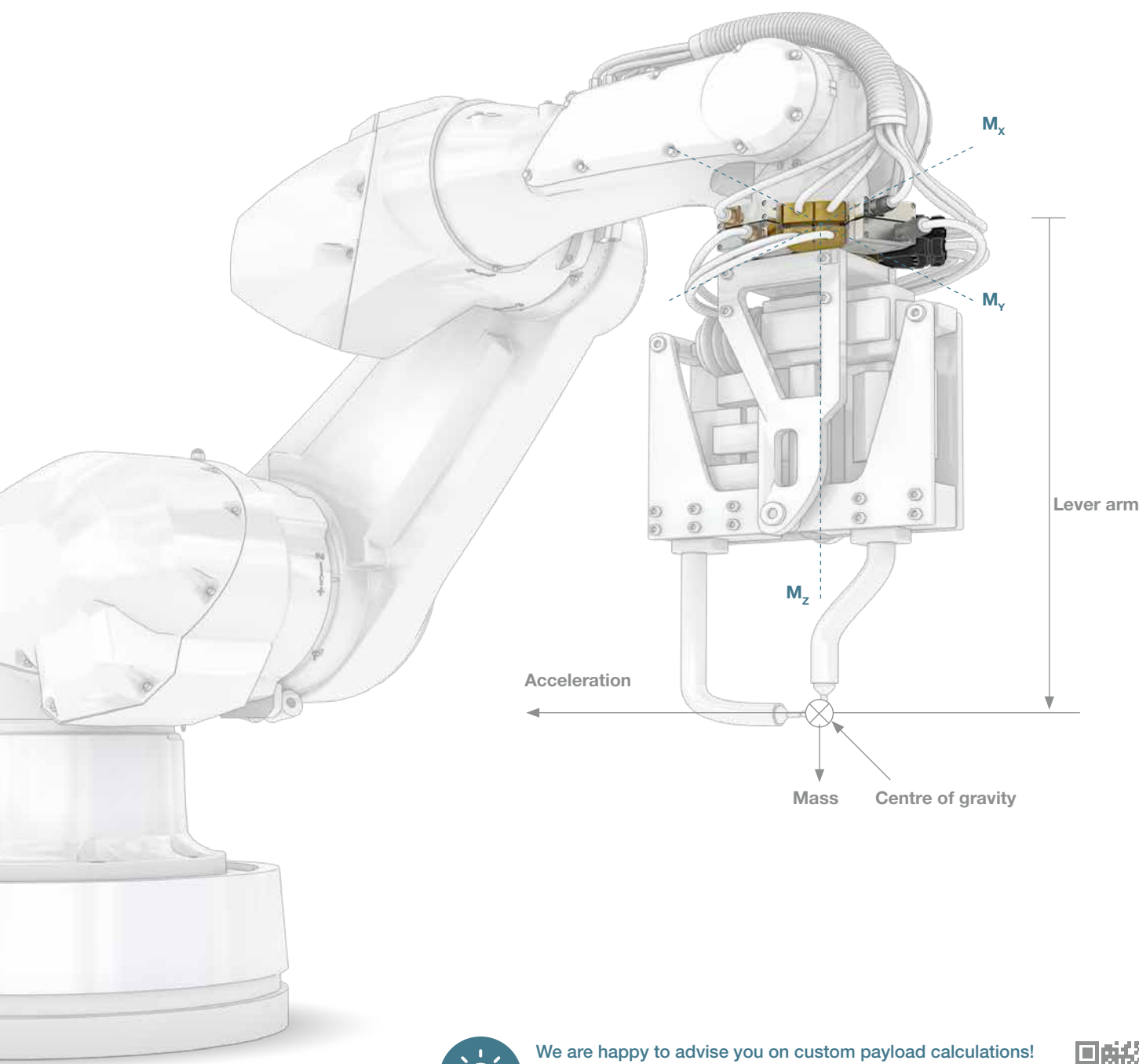


ROBOTIC TOOL CHANGER TECHNOLOGY

Tool changing system –
robot and tool side



From robot performance data to system selection



We are happy to advise you on custom payload calculations! Simply contact us and provide the following information: manufacturer, type and year of manufacture of your robot.

www.staubli.com



The perfect system for every requirement



	Small payloads				Medium payloads			High payloads		
	MPS 015	MPS 025	MPS 035	MPS 055	MPS 080	MPS 130	MPS 260 / MPS 260S	MPS 631 / MPS 631S	MPS 1530	MPS 2531
Max. payload (kg)	10	20	35	55	80	100	350	630	1530	2500
Flange sizes in accordance with ISO9401-1 (mm)	Ø 31.5	Ø 40	Ø 50	Ø 63	Ø 80	Ø 100	Ø 125	Ø 160	Ø 200	Ø 315
Max. static moment Mx/My (Nm)	15	34	80	145	286	900	2000 / 2500	3200 / 5000	12500	44000
Max. static moment Mz (Nm)	15	34	80	106	286	800	2000 / 2500	3200 / 5000	12500	33000
Max. dynamic moment Mx/My (Nm)	52	119	280	507	1001	3150	7000 / 8750	11200 / 17500	43750	110000
Max. dynamic moment Mz (Nm)	52	119	280	371	1001	2800	7000 / 8750	11200 / 17500	43750	66000
Height coupled (mm)	46				67			100		110
Repeatability (mm)	+/- 0.0015				+/- 0.01			+/- 0.01		
Identical transfer modules	MPS 015 / MPS 025 / MPS 035 / MPS 055				MPS 080 / MPS 130 / MPS 260 / MPS 260S			MPS 631 / MPS 631S / MPS 1530 / MPS 2531		

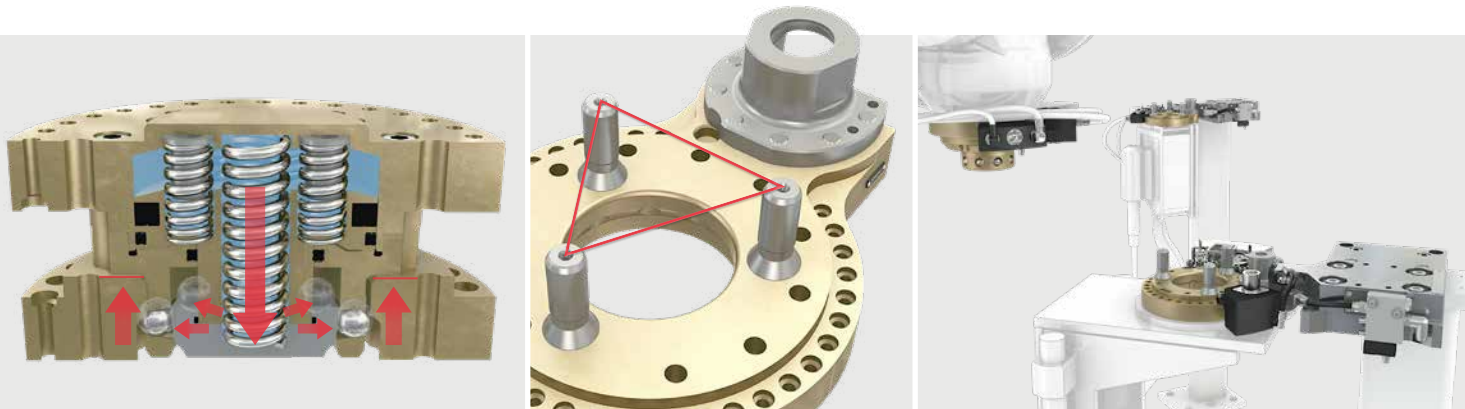
Select base unit:

According to robot load data:
The maximum permissible torques of the tool changing system exceed the torques of the robot.

According to pitch circle diameter and/or load capacity:
The application must be calculated using the formula torque = mass x lever arm x acceleration. The maximum permissible torques of the tool changing system must not be exceeded. If the

permissible torques of the tool changing system are exceeded, the mass, lever arm and/or acceleration parameters must be adjusted.

High-quality locking – certified safety technology



Powerful and precise interlocking for safe and error-free processes.
Shown for systems MPS 080 to MPS 2531, for MPS 015 to MPS 055 see product brochure.

The powerful base units of Stäubli tool changers ensure a high-precision connection between the robot and the tool. The intelligent design ensures absolute precision and a long service life for the robotic tool changers.

High-strength locking balls ensure a force-locking, high-precision connection between the robot and the tool side. This results in very precise repeatability of the tool changing system in all axes. Even with a high number of change cycles, the tools achieve their 100 per cent accurate insertion position.

Stäubli’s robotic tool changing systems have a comprehensive safety concept of Performance Level d, Category 3 for the comprehensive protection of personnel and installations.

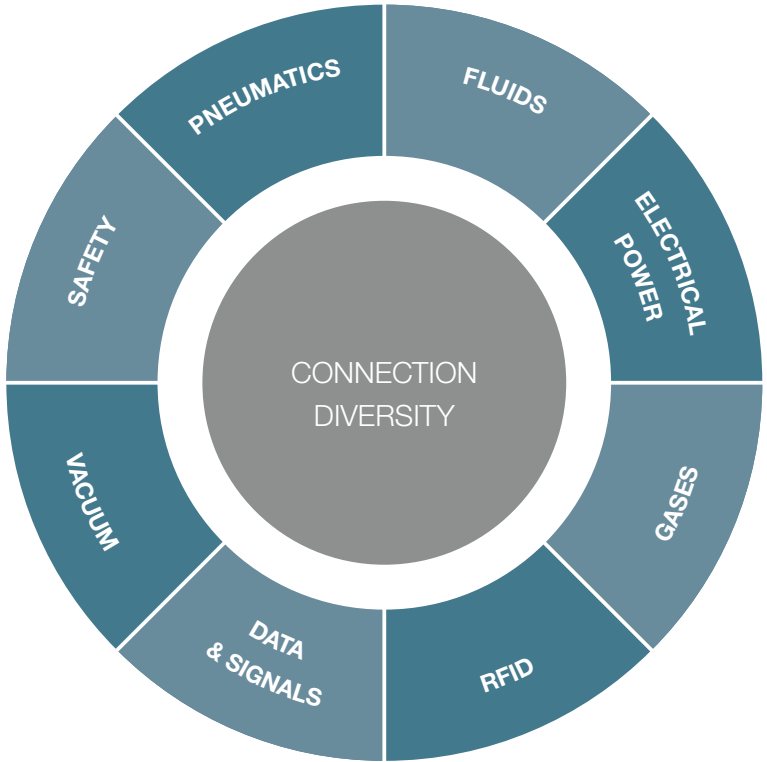
Our robotic tool changing systems ensure this high level of safety through safety systems developed by Stäubli. When using our systems, it is ensured that accidental unlocking during use is impossible.

Special safety concepts can also be developed together with our team of experts on request.



Detailed information on the safety concept can be found in the respective product brochures.

Broad technology portfolio – smart configuration



The variety and flexibility of the available transfer technologies are decisive for the high efficiency of the robotic tool changing system. Stäubli offers the right high-quality transfer technology for every robot application worldwide.

All technologies can be flexibly integrated. With this versatility, future requirements for your robotic tool changer can be adapted at any time. Your investment is low-risk and remains profitable in the long term.

The key to this high level of flexibility is Smart Config, the smart configuration system for our robotic tool changing systems. Smart Config allows you to place the transfer technology you want in exactly the right position on your tool changing system.

Robotic tool changers from Stäubli guarantee maximum technological diversity and guarantee maximum productivity. Their functionality can be flexibly expanded at any time with a wide range of modules for media, signal, data and power transmission.



You can find an overview of all transfer technologies and smart configuration options in the respective product brochures.

Expert knowledge - at your location worldwide



Stäubli's broad international presence enables the efficient implementation of robotic tool changing systems in your production processes worldwide. Our training programme ensures consistently high system productivity.

Stäubli has subsidiaries in all the world's industrial centres. Experienced teams of specialists have detailed, product-specific expertise and application knowledge. This guarantees the highest quality of advice and fast response times, even for transnational production concepts.

In addition, Stäubli offers worldwide training courses on all aspects of our robotic tool changing systems. Participants will learn important skills for commissioning, operating, maintaining and servicing the systems.

With this knowledge, production with robotic tool changing systems from Stäubli remains trouble-free and at a consistently high level. Trained personnel are the prerequisite for reliable and productive operation of your systems.



Contact Stäubli

Find your nearest Stäubli specialist. Contact us through our website. Our team will be happy to assist you.

www.staubli.com

Customised solutions for your individual needs



Our passion for innovation and extensive expertise is particularly evident in the customised solutions we develop for our customers worldwide. Precise, tailor-made systems are created in close partnership.

Talk to us about your specific challenges.

The open product concept of our robotic tool changers allows you to create customised systems. Whether basic units with special features, transfer modules redesigned for specific processes or special solutions for storage systems, Stäubli transforms your individual requirements into perfectly tailored, high-quality solutions for your robotic tool changer.

Customised transfer modules are available for almost all product parameters:

- Increased flow rate due to larger nominal diameter
- Customised additions to the product range for plug & play solutions
- Special media resistance and robustness through the use of use of highly resistant materials
- Specially designed electrical connectors
- Development of new transfer modules for specific production technologies



● Stäubli Units

○ Representatives / Agents

Global presence of the Stäubli Group

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