

Seventh Axis

Advantages



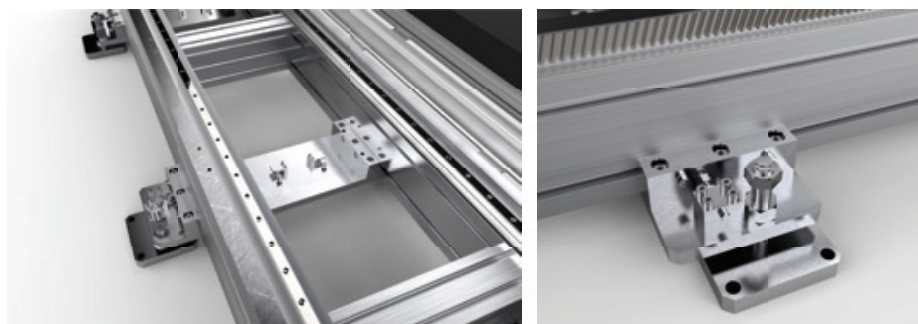
Increase a robot's range of motion.

By utilizing a shuttle system, a robot can be moved over long distances with a high range of dynamics. Available in 7 different sizes, Rollon Seventh Axis is easy to integrate and can move any type of robot weighing up to 2000 Kg.



Simplified mounting and alignment

Due to a system of steel crosspieces and feet with two different adjustment systems.



Protection for every work environment

The Seventh Axis can be configured with different options to protect it from different types of environmental factors.



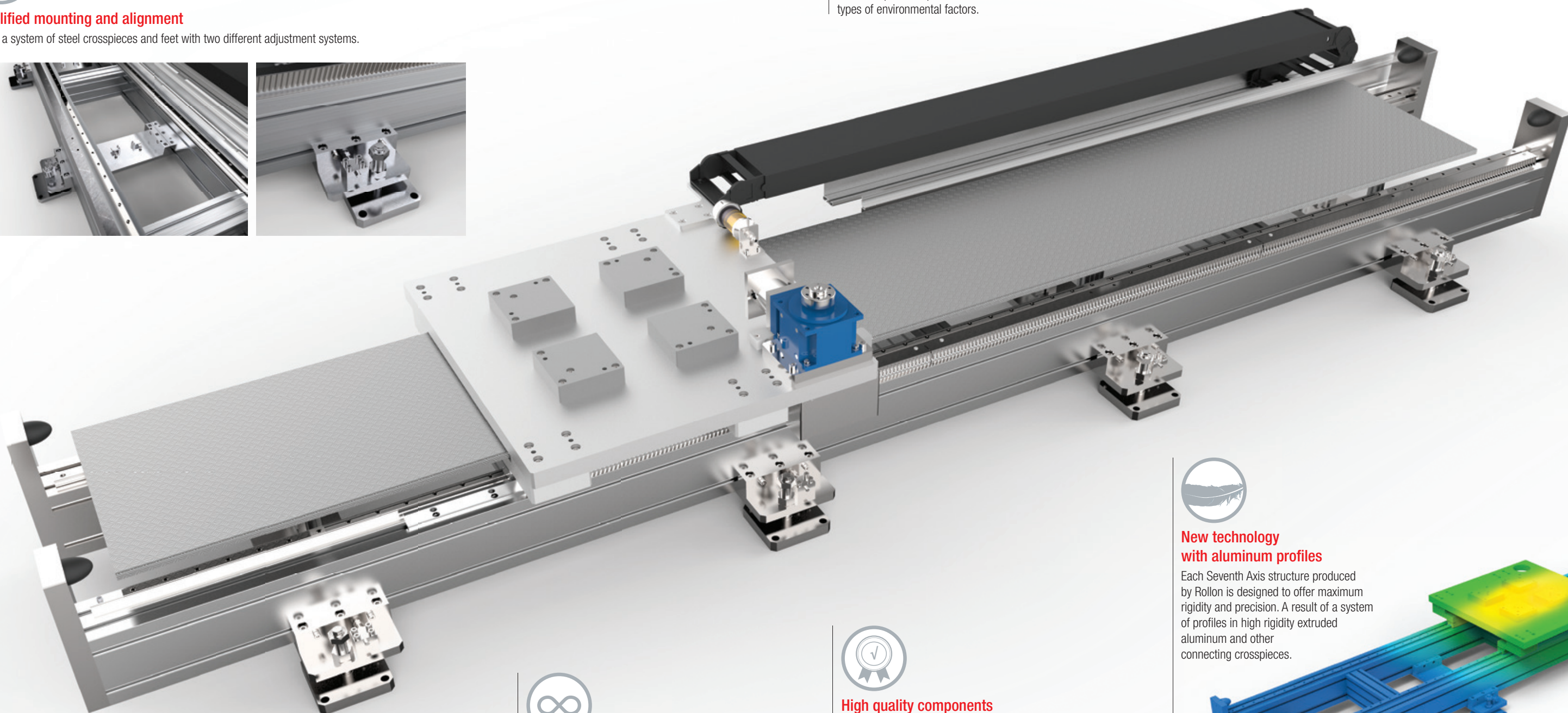
Easily integrated with any type of robot

A complete range of 7 different sizes guarantees simple integration for any type of robot, weighing up to 2000 Kg.



Reliability backed by decades of experience

Seventh Axis by Rollon was created from 40 years of expertise in designing and producing linear motion systems.



Potentially infinite strokes

Thanks to jointable, self-centering inserts.



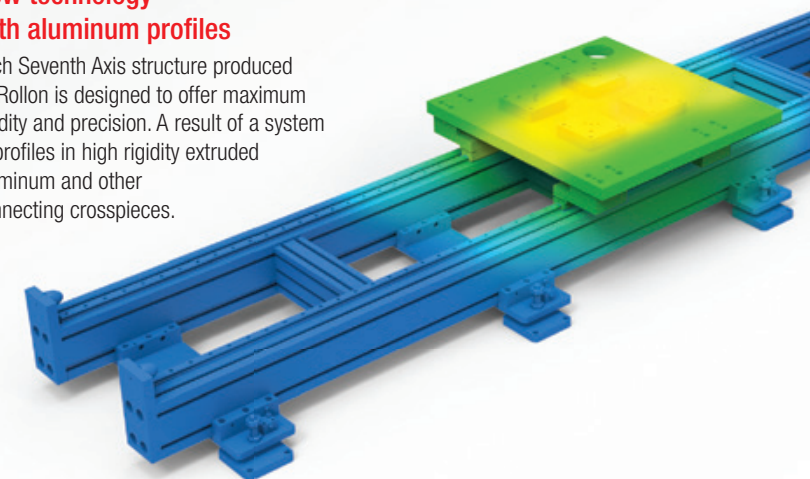
High quality components

Designed with carefully selected high quality components: tempered racks with helical teeth, rails with recirculating rollers and planetary or hypoid bevel gearboxes.

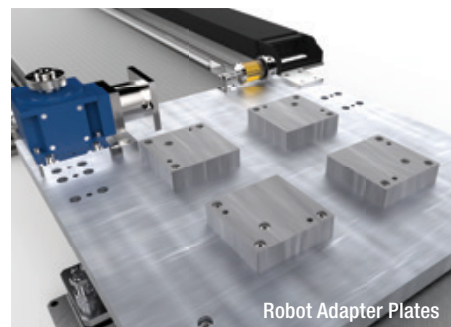


New technology with aluminum profiles

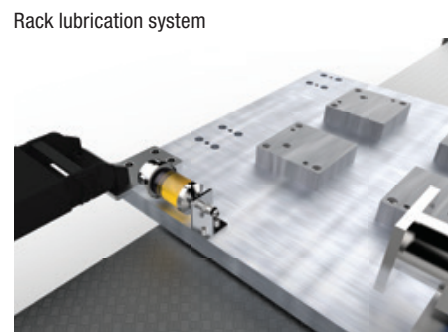
Each Seventh Axis structure produced by Rollon is designed to offer maximum rigidity and precision. A result of a system of profiles in high rigidity extruded aluminum and other connecting crosspieces.



Components and Accessories



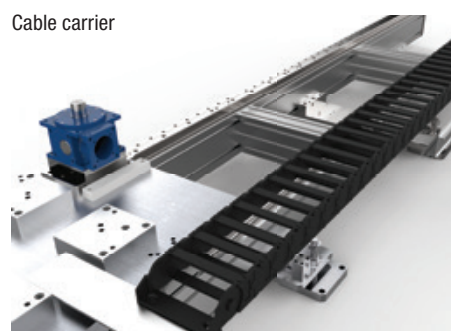
Robot Adapter Plates



Rack lubrication system



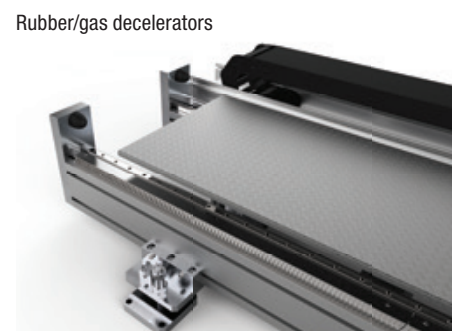
Rack lubrication system



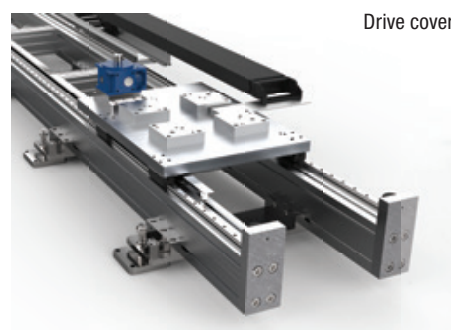
Cable carrier



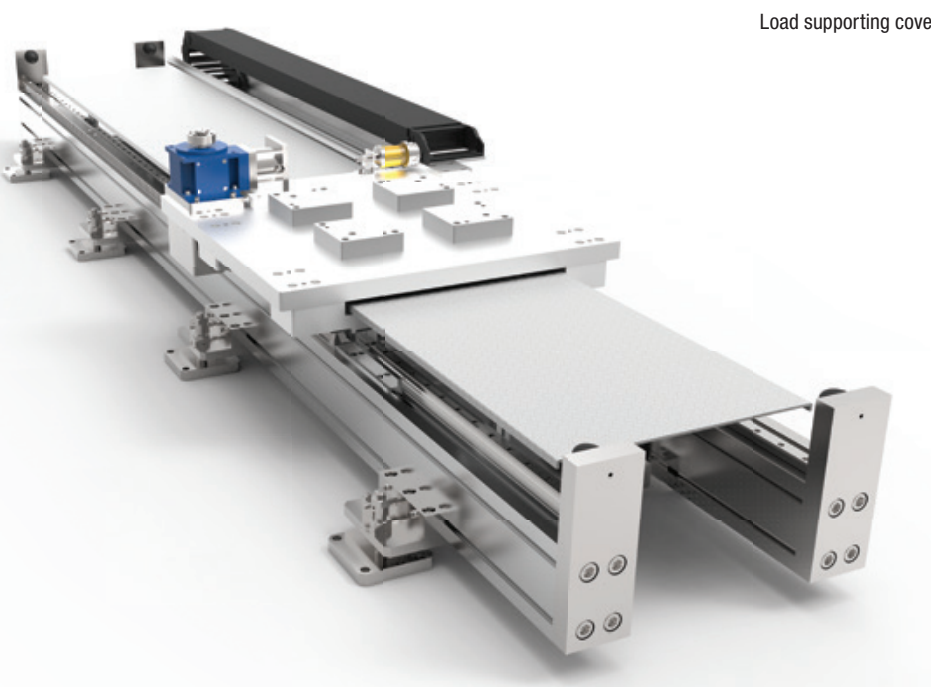
Proximity switches



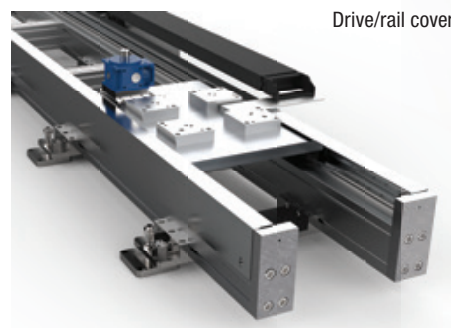
Rubber/gas decelerators



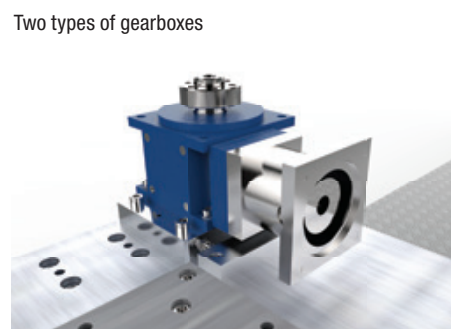
Drive cover



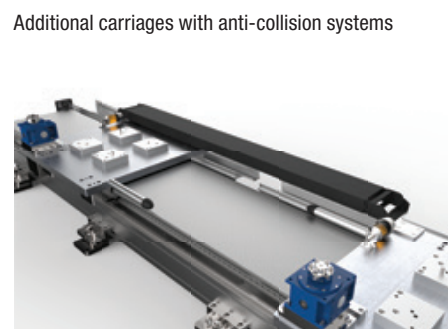
Load supporting cover



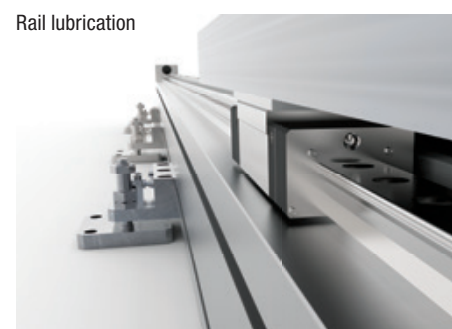
Drive/rail cover



Two types of gearboxes

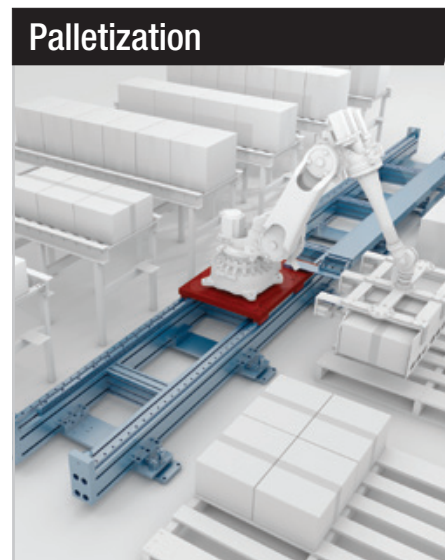


Additional carriages with anti-collision systems

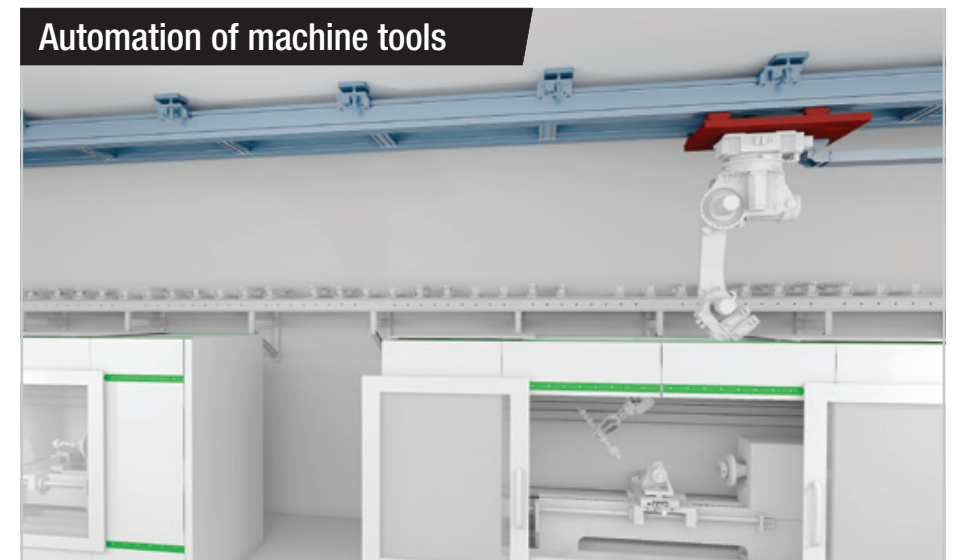


Rail lubrication

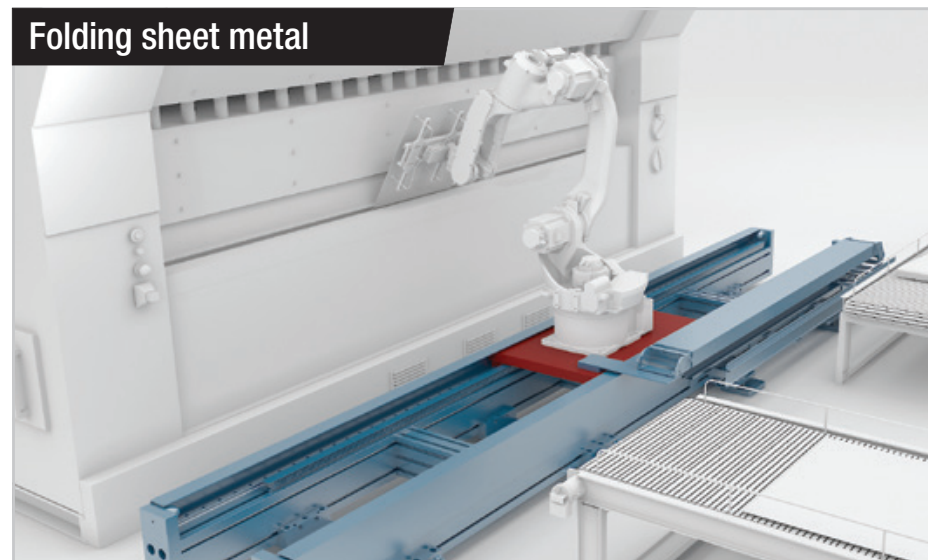
Examples of Applications



Palletization



Automation of machine tools



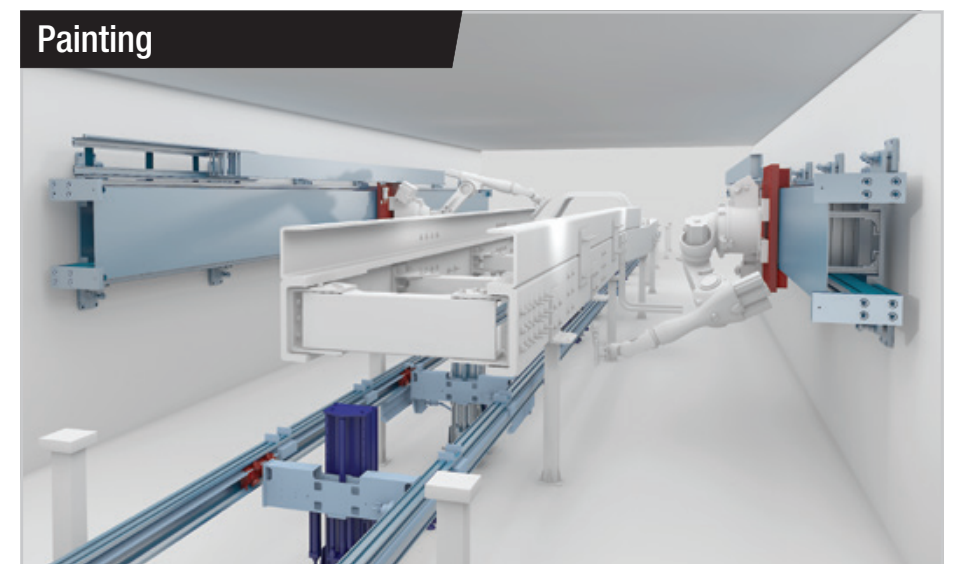
Folding sheet metal



Welding



Gluing



Painting

Seventh Axis

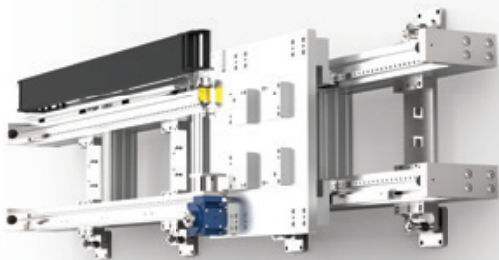
Technical Features



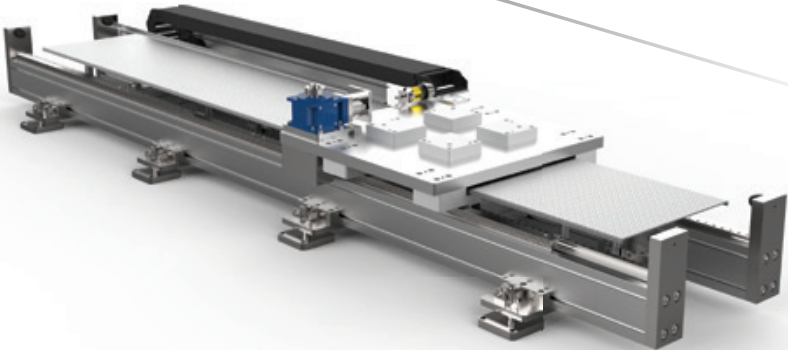
Reference		Section		Drive		Anti-corrosion	Protection			Size	Number of profiles	Load capacity with high dynamics* [Kg]	Load capacity with low dynamics** [Kg]	Maximum speed [m/s]	Maximum acceleration [m/s²]	Repeatability [mm]	Maximum stroke [mm]	Examples of Robots***	
Family	Product	Rollers	Ball Bearings	Rack	Belt		Drive	Drive and rails	Load supporting cover										
Seventh Axis	SEV220-1						√			220X100	1	15	50	3	4	+/-0,05	6000	MITSUBISHI NACHI	RV-2S MZ04
	SEV80-2						√	√		80x80	2	25	100	3	4	+/-0,05	6000	FANUC MITSUBISHI COMAU NACHI	LR Mate 200 RV-5F, RH-3FH Rebel S6, Racer 5 MZ07
	SEV280-1						√	√	√	170x280	1	50	300	3	4	+/-0,05	46000	ABB FANUC KUKA MITSUBISHI COMAU	IRB120 LR MATE200iD KR6 Agilus RH20FH, RV-6F Racer 5
	SEV170-2						√	√	√	170x120	2	100	500	4	4	+/-0,05	46000	ABB FANUC KUKA MITSUBISHI COMAU	IRB1600, IRB2600 M-10iA KR16, KR20 RV-7F, RV-20F Racer 7, SIX 6
	SEV220-2						√	√	√	220x120	2	300	800	4	4	+/-0,05	46000	ABB FANUC KUKA COMAU	IRB260 M-20iA KR30 NS12, NJ16
	SEV280-2						√	√	√	280x170	2	500	1200	3	3	+/-0,05	46000	ABB FANUC KUKA COMAU	IRB460 M-710iC KR30, KR60 NJ40, NJ60
	SEV360-2						√	√	√	360x200	2	800	2000	2	2	+/-0,05	46000	ABB FANUC KUKA COMAU	IRB460, IRB6620 R2000iC 165F KR QuanteK 120-150 NJ130 2.6

The data shown must be verified on the basis of the application.
* The values shown refer to the maximum dynamics reported in this table. The load capacities refer to floor mount version.
** The load capacities refer to floor mount version. For more information, contact the Rollon technical office.
*** Robot example mentioned are approximate. For a correct choice and size of the robot contact the Rollon technical office.

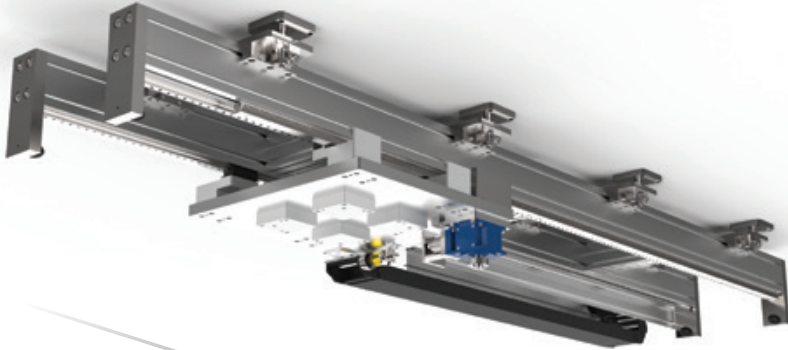
Mounting Options



Wall mount



Floor mount



Ceiling mount



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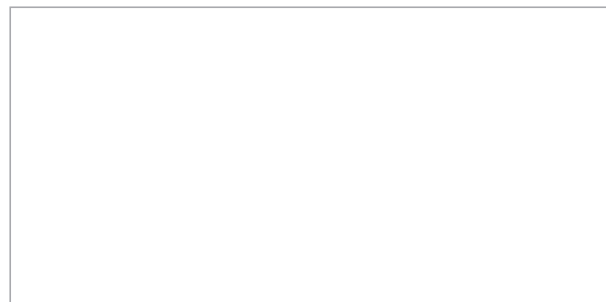
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