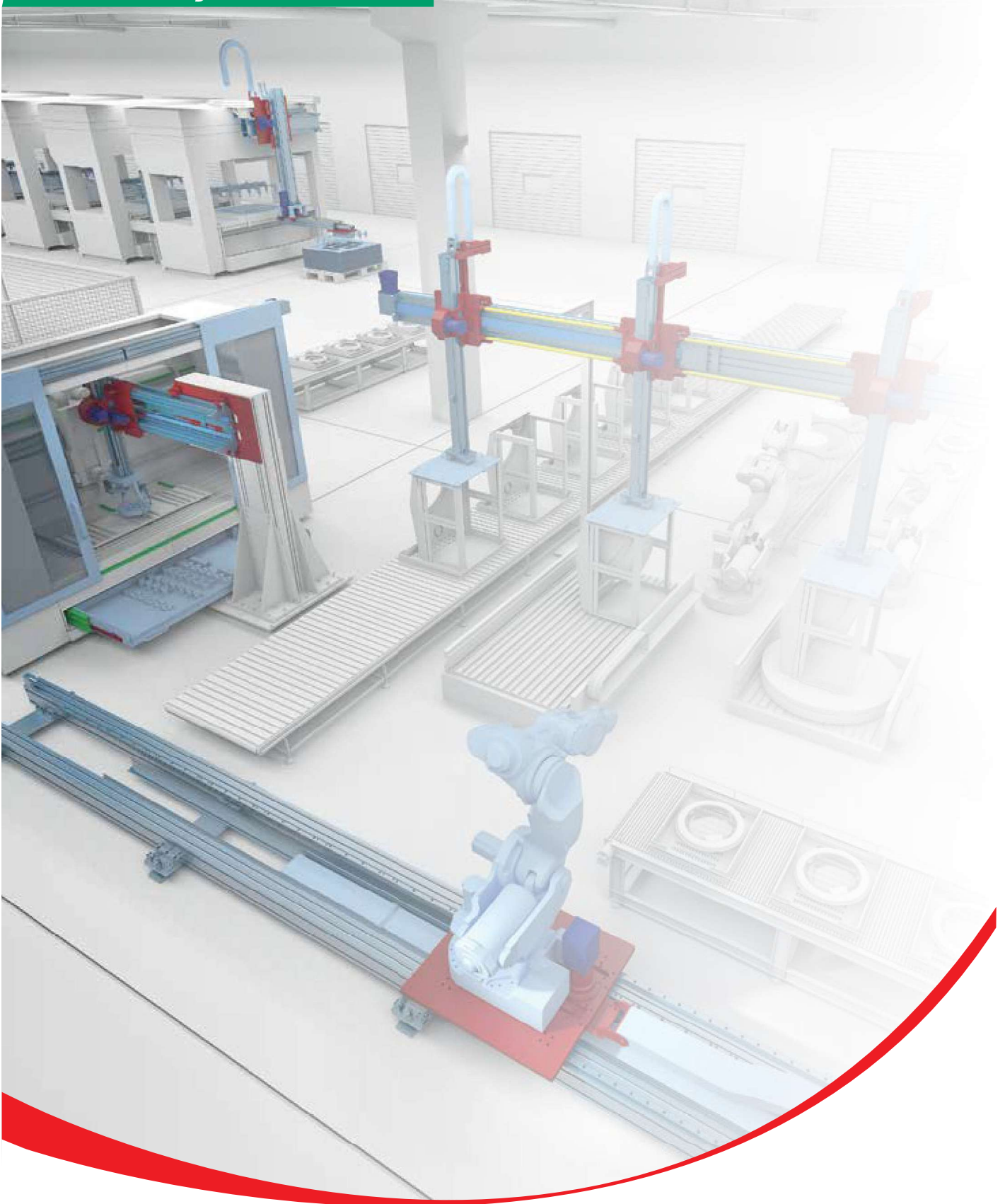
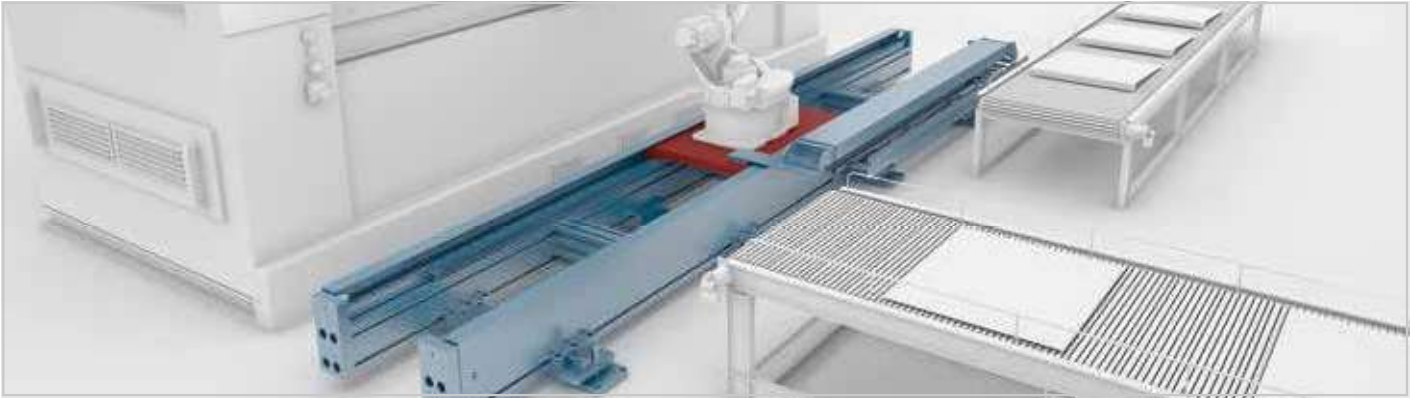


# Actuator System Line



# Seventh Axis

Increase a robot's range of motion. Available in 11 different sizes, Rollon Seventh Axis is easy to integrate and can move any type of robot weighing up to 1500 Kg.



Potentially infinite strokes due to jointable versions with self-centering inserts.



Different protections available for operation in dirty environments



Easily integrated with any type of robot thanks to a complete range of 11 different sizes.



Carefully engineered design with selected high quality components.



Simplified mounting and alignment due to adjustable leveling systems integrated into the rigid, factory-aligned cross-members.



Light and stiff aluminum beams engineered with elaborate geometries that allow high dynamics along with wall or ceiling mounting.



Ready to use solution with high reliability backed by 40 years of experience in linear motion.



Cable carriers, safety systems and other accessories available.

Floor mount



Wall mount



Ceiling mount



# Technical Features



Reference		Linear guides		Drive		Anticorrosion option available	Protection				Size	Number of profiles
Family	Product	Rollers	Balls	Rack	Belt		Sealing Strip	Simple	Partial	Total		
Seventh Axis	SEV120-1S							√			120x65	1
	SEV160-1S							√			160x90	1
	SEV220-1S							√			220x100	1
	SEV80-2						√				80x80	2
	SEV110-2						√				110x110	2
	SEV280-1							√			170x280	1
	SEV170-2							√	√	√	170x120	2
	SEV170P-2 							√	√	√	170x120	2
	SEV280-2							√	√	√	280x170	2
	SEV280P-2 							√	√	√	280x170	2
SEV360-2							√	√	√	360x200	2	

The data shown must be verified on the basis of the application.

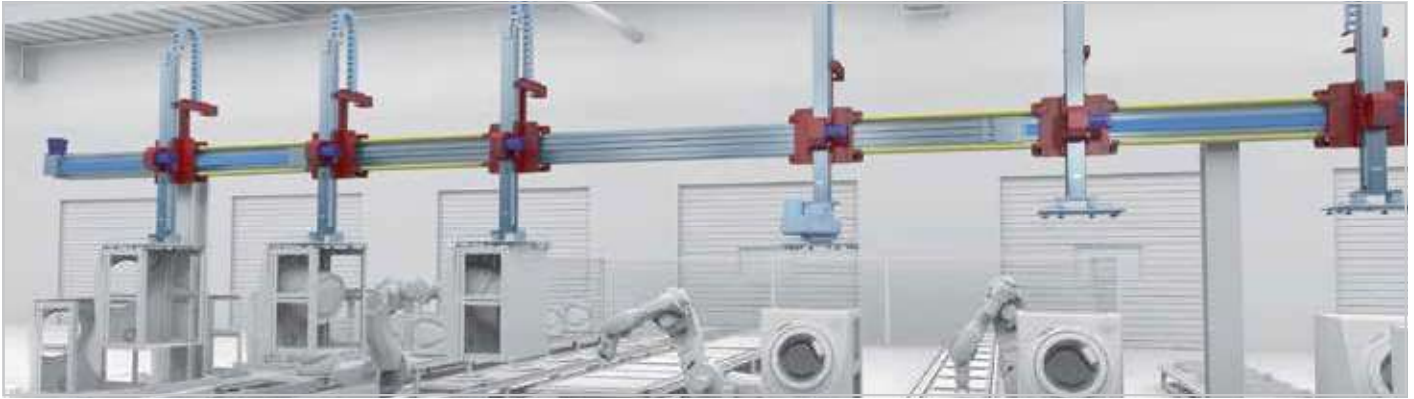
\*1 The total repeatability of the system depends on the gearbox. If the gearbox is ordered with the axis, our Technical Department can provide the total precision value.

Maximum speed [m/s]	Maximum acceleration [m/s <sup>2</sup> ]	Repeatability [mm]	Maximum stroke [mm]	Robot examples*1			
				Brand	Model	Payload [Kg]	Weight [Kg]
2	4	± 0.05**	6000	DENSO	VP-6242	2.5	15
				UNIVERSAL ROBOTS	UR3	3	11
2	4	± 0.05**	6000	ABB	IRB 1100 ; IRB 120	3-4	21-25
				DOOSAN	M0609	6	17
				EPSON	Prosix C3	3	27
				KASSOW ROBOTS	KR810; KR1205	3-10	23.5-25
				KAWASAKI	RS03N; MC004N	3-4	20-25
				KUKA	KR 3 R540; LBR iiwa 7 R800; LBR iiwa 7 R820	3-14	22-29
				NACHI	Nachi MZ04; Nachi MZ07	4-7	26-30
				OMRON	TM5-700; TM5-900	4-6	21.8-22.6
				STÄUBLI	TX2-40	2	29
				UNIVERSAL ROBOTS	UR5	5	21
YASKAWA	MH3F	3	27				
2	4	± 0.05**	5750	DOOSAN	M0617; M1013; M1509	6-15	24-32
				FANUC	CR-4ia; CR-7ia; CRX-10ia; CR-14ia/L; LR Mate 200id; LR Mate 200id/4S; LR Mate 200id/14L	4-14	17-53
				KASSOW ROBOTS	KR1018	18	34
				KUKA	KR 6 R700-2; KR 6 R900-2; KR 10 R1100-2	6-10	53-55
				NACHI	Nachi MZ03EL	10	47
				STÄUBLI	TX2-60	4.5	51
				UNIVERSAL ROBOTS	UR10; UR10e; UR16e	10-16	31.5-33.5
				YASKAWA	HC10; GP7; GP8	7-10	32-47
2	4	± 0.05	5750	KASSOW ROBOTS	KR1410; KR1805	5-10	35-38
				KAWASAKI	RS003N; RS005N; RS005L; RS007N; RS007L	3-7	20-37
				KUKA	Agilus Serie KR3; KR6; KR10	3-10	26-57
				MITSUBISHI	RV-2FR; RV-2FRL; RV-4FR; RV-4FRL; RV-7FR; RV-7FRL; RV-7FRLL	3-7	19-130
				NACHI	MZ07-01; MZ07L-01; MZ07P-01; MZ07LP-01;	7	30-32
				STÄUBLI	TX2-40; TX2-60; TX2-60L	2-4.5	29-53
				UNIVERSAL ROBOTS	UR3/3e; UR5/5e; UR10/10e; UR16e	3-16	11-34
				YASKAWA	GP7; GP8	7-8	32-34
2	4	± 0.05	5750	ABB	IRB 1300; IRB 1300; IRB 1300; IRB 140	7-11	74.5-78.5
				DENSO	VP-6083	6	82
				MITSUBISHI	RV-13F; RV-20F	13-20	120-137
				STÄUBLI	TX2-90	7	111
				YASKAWA	SIA20D	20	120
2	4	± 0.05	∞	COMAU	Racer 7-1.0; Racer-7-1.4; SIX-6-1.4	6-7	160-180
				FANUC	ARC Mate 100IC/12; M-10iA/10M; M-10iA/12; M-10iD 12	10-12	130-145
				KAWASAKI	RS010N; RS006L	6-10	150
				KUKA	KR6 – KR10 CYBERTECH nano; KR6 – KR8 CYBERTECH ARC nano	6-10	145-180
				MITSUBISHI	RV13FR(-L); RV20FR	13-20	120-130
				NACHI	NB04; NV06;	10	160-170
				STÄUBLI	TP80; TX2-90; TX2-90L; TX2-90XL	7-14	111-119
				YASKAWA	MH12/-F; GP12	12	130-150
2	4	± 0.05	∞	ABB	IRB 1600; IRB 1660ID; IRB 2600-12/-20; IRB 2600ID-8/-15;	4-20	250-284
				FANUC	M-20iA; M-20iA/20M; ARC Mate 120C; M-20iB/25; M-20iB/25C; M-20iA/35M	20-25	210-250
				KAWASAKI	RS020N; RS010L	10-20	230
				KUKA	KR CYBERTECH / KR CYBERTECH arc	8-22	250-270
				NACHI	MC10L; MC20; MR20-02; MR20L-01; NB04L; NV06L	10-20	220-280
				STÄUBLI	RX160; RX160HD; RX160L;	14-20	248-250
YASKAWA	GP25; GP25-12; HP20F/-RD 2	12-25	250-268				
2	4	± 0.05	∞	ABB	IRB 2400; IRB 4600; IRB 6620LX;	10-150	380-610
				COMAU	NS-12-1.85; NS-16-1.65; NJ-16-3.1; NJ-40-2.5; NJ-60-2.2	12-60	333-680
				FANUC	M-710 all types	12-70	410-570
				KAWASAKI	RS030N; RS050N; RS080N; RS15X	30-80	555
NACHI	MC35-01; MC50-01; MC70-01	35-70	640				
2	2	± 0.05	∞	ABB	IRB460	110	925
				FANUC	M-710 all types	12-70	410-570
				KUKA	KR 30 and KR 60 - all types	16-60	600-700
2	2	± 0.05	∞	ABB	IRB460, IRB6620	110-150	900-925
				COMAU	NJ130 2.6	130	1050
				FANUC	R2000 100FH, 125L, 165F, 165FH, 165R	100-165	1090-1360
				KUKA	KR 120, 150, 180	120-180	677-1093
STÄUBLI	TX200L	80	1000				
2	2	± 0.05	∞	FANUC	M900ib/360; R2000ic/210L; R2000ic/270F	210-360	1320-1540
				KUKA	KR 210, 240, 270, 300	210-300	1068-1154

# Actuator System Line

## Multi-Axes Pick and Place

Multi-axes system for automated feeding of production and assembly lines.



Ready to use solution with high reliability due to 40 years experience.



Short belt technology (patent) system allows very long Y axis.



Both rack and pinion and belt driving systems allow to move independent groups of carriages.



Z axis with pneumatic counterbalance allows energy saving and smaller motors.



Energy chains, safety systems and other accessories are available.



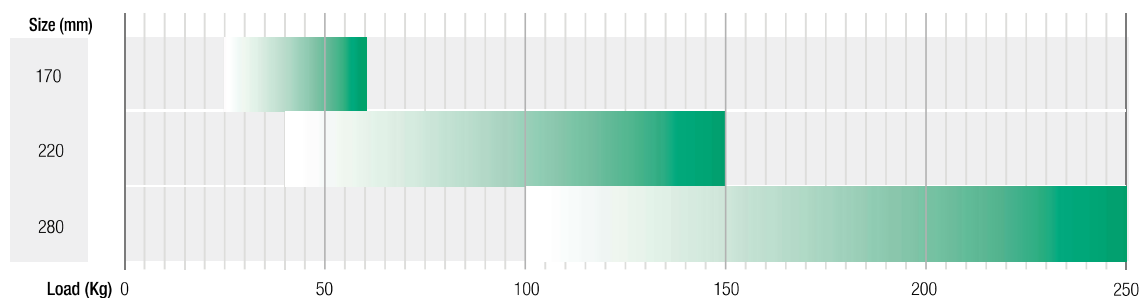
Integrated lubrication system allows long life and low maintenance.



Light and stiff aluminum beams allow high dynamics and fast duty cycles.

## LOAD CAPACITY ACCORDING TO DYNAMICS

Reported data must be verified according to the application. For more information, please contact our technical department.

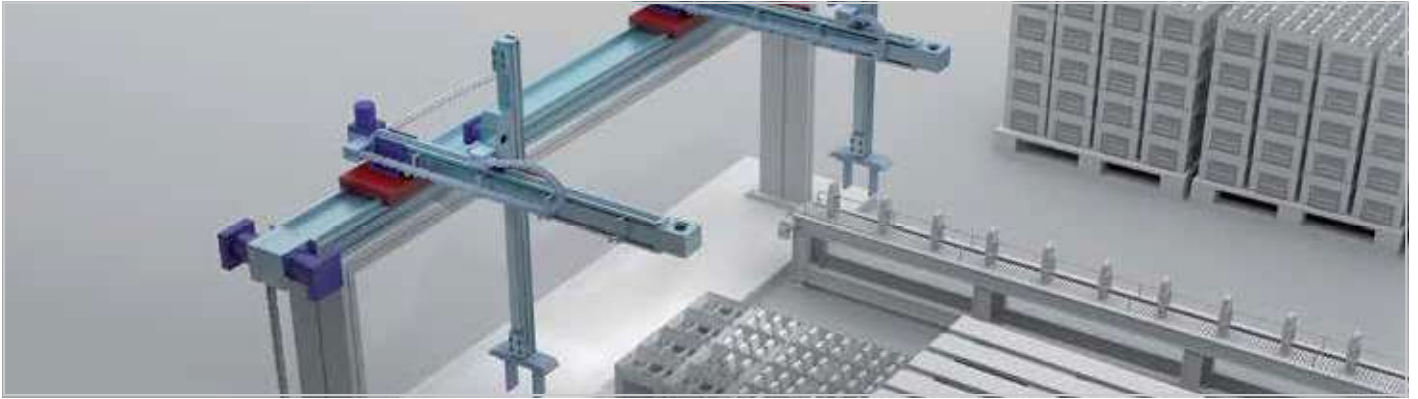


Lower load - Higher dynamics

Higher load - Lower dynamics

# Multi Gantry

Gantry solutions designed for each specific application in different industrial sectors.



Wide range of stiff aluminum beams allow to have a long span or to use less columns for the structure.



Light and stiff aluminum beams allow high dynamics and fast duty cycles.



Recirculating balls guides or prismatic roller guides allow to match different needs in terms of dirty environments, precision, dynamics and smoothness.



Self-alignment technologies allow cost effective mounting for parallel axes in very long systems.



Dedicated omega technology for Z axis allows space saving and higher dynamics.



Belt, ball screw and rack and pinion driving systems allow to achieve the right precision and dynamics for any application.

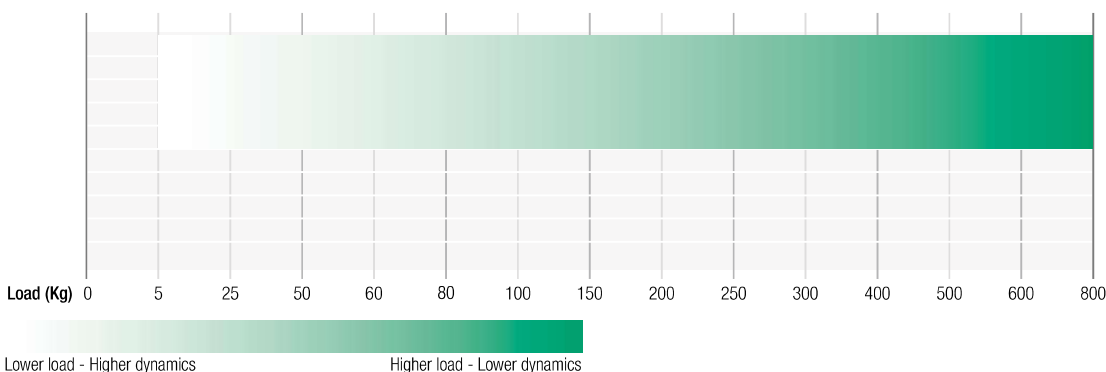


Integrated lubrication system allows long life and low maintenance.



## LOAD CAPACITY ACCORDING TO DYNAMICS

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# Actuator System Line

## Transfer Press

Dedicated solution for transfer press.



Ready to use solution with high reliability due to 40 years experience.



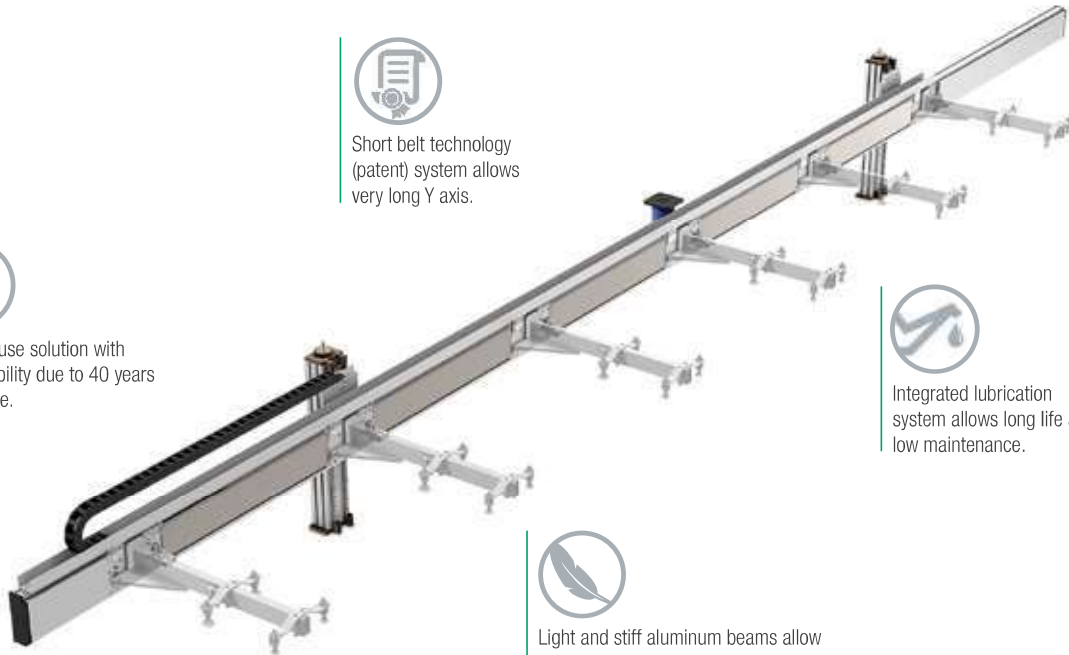
Short belt technology (patent) system allows very long Y axis.



Integrated lubrication system allows long life and low maintenance.

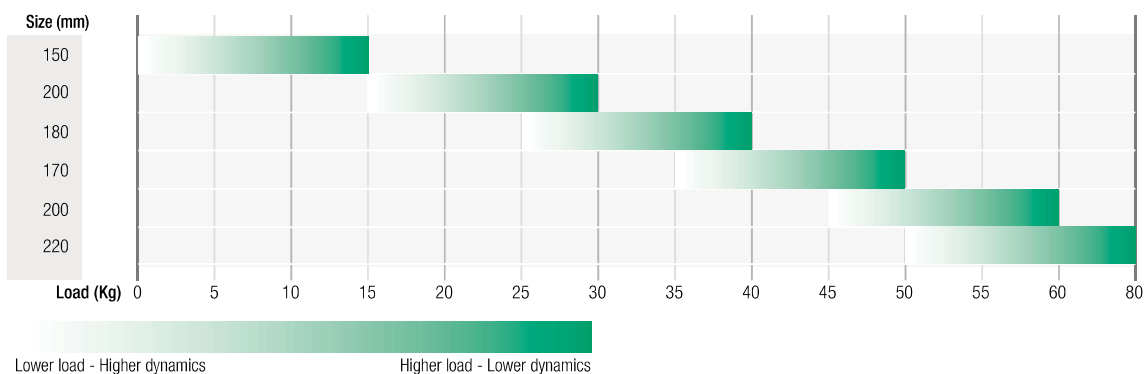


Light and stiff aluminum beams allow high dynamics and fast duty cycles.



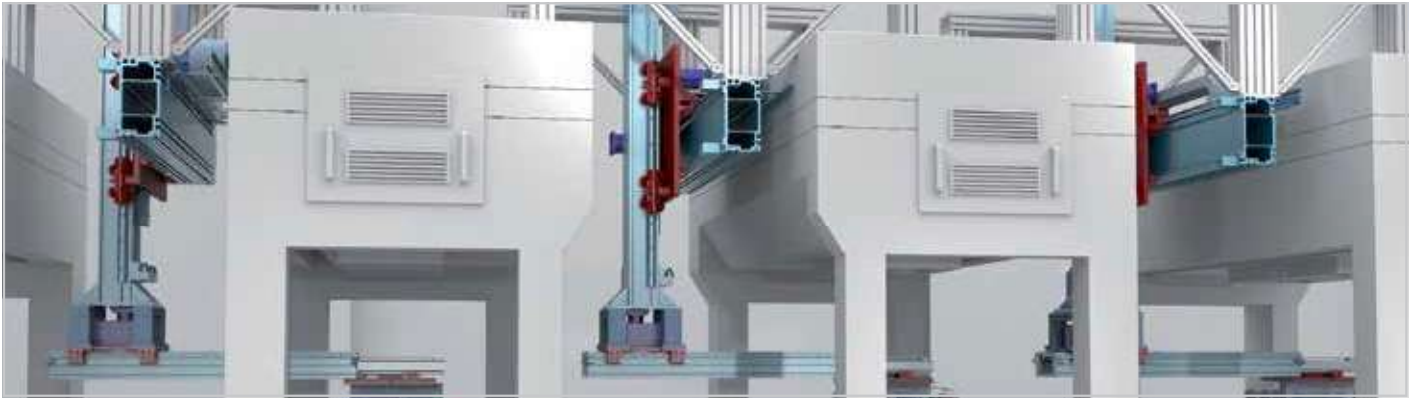
## LOAD CAPACITY ACCORDING TO DYNAMICS

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# Telescopic Actuator - Horizontal

Double stroke telescopic actuator for metal sheets handling.



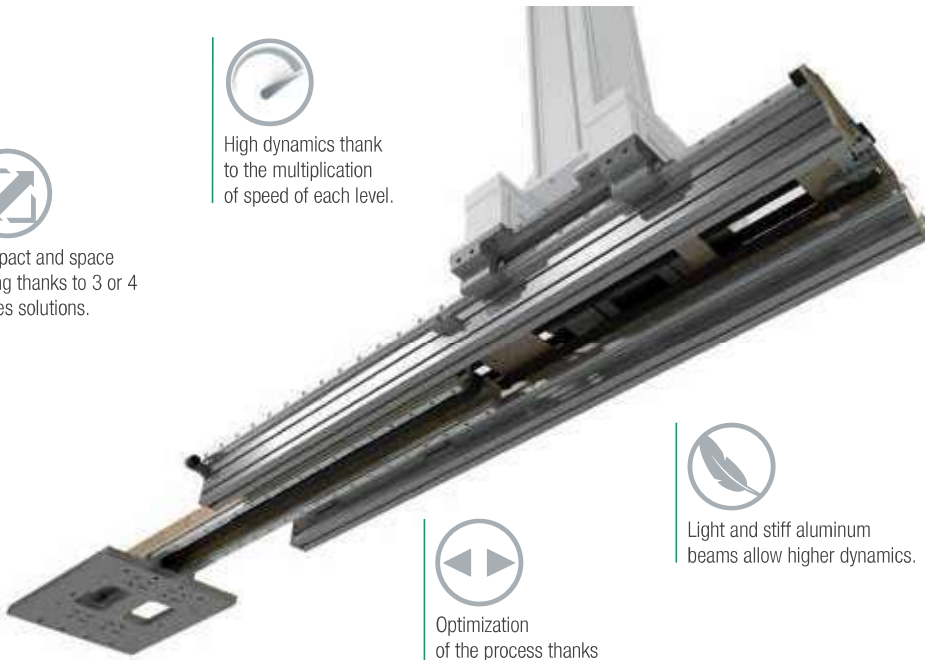
Compact and space saving thanks to 3 or 4 stages solutions.



High dynamics thank to the multiplication of speed of each level.



Connectable with vertical linear axes.



Synchronized belt system allows an optimized extension.



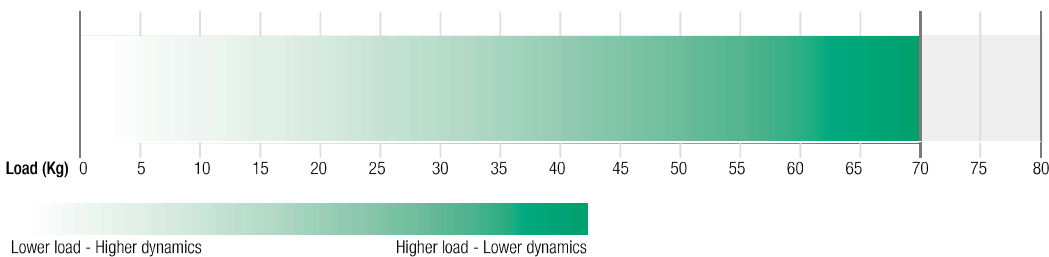
Light and stiff aluminum beams allow higher dynamics.



Optimization of the process thanks to double stroke.

## LOAD CAPACITY ACCORDING TO DYNAMICS

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# Actuator System Line

## Telescopic Actuator - Wall Mounted

Double stroke telescopic actuator with vertical axis for pick and place in limited spaces.



Compact and space saving thanks to 3 or 4 stages solutions.



High dynamics thank to the multiplication of speed of each level.



Synchronized belt system allows an optimized extension.



Vertical linear axes can be mounted on the end carriage.



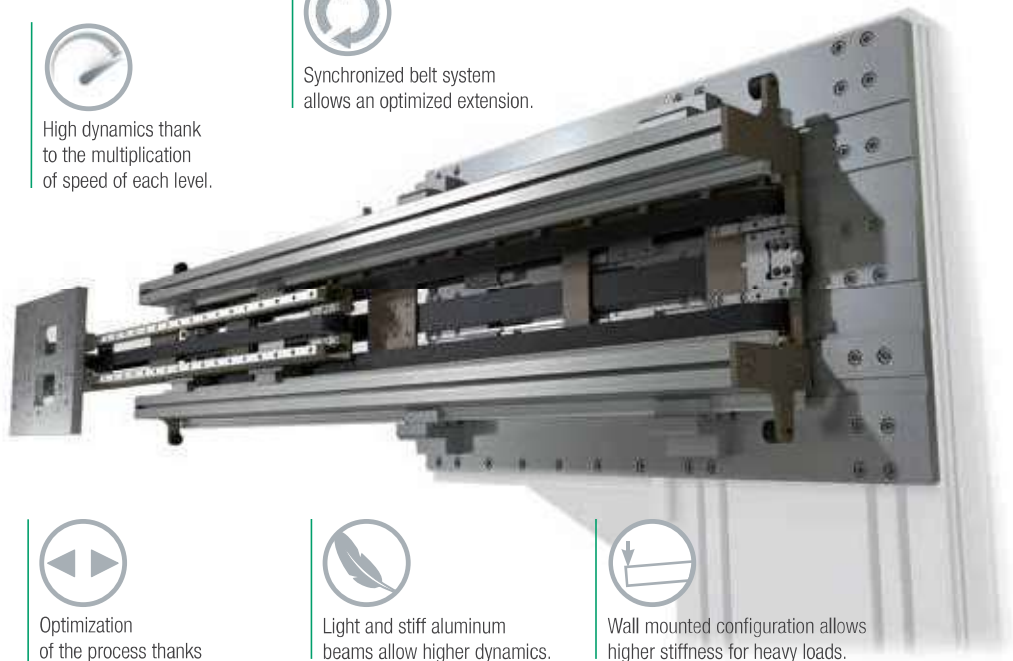
Optimization of the process thanks to double stroke.



Light and stiff aluminum beams allow higher dynamics.

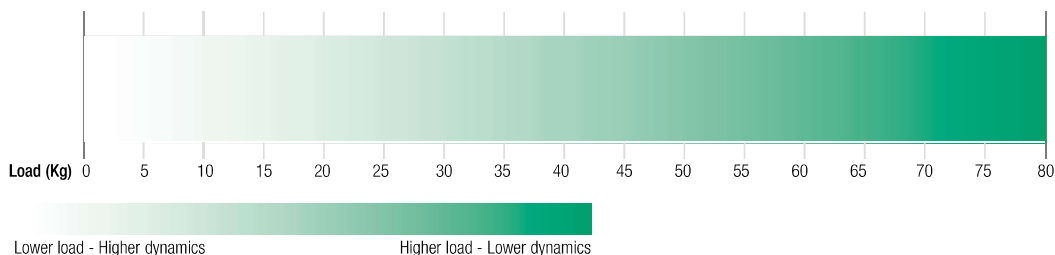


Wall mounted configuration allows higher stiffness for heavy loads.



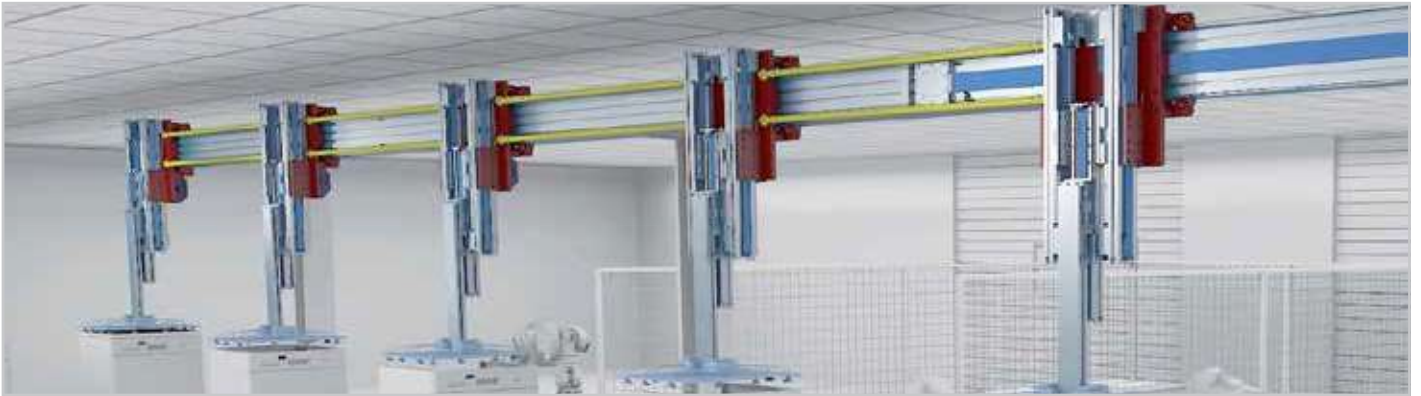
## LOAD CAPACITY ACCORDING TO DYNAMICS

Reported data must be verified according to the application. For more information, please contact our technical department.



## Telescopic Actuator - Z

Vertical telescopic actuator for pick and place in limited ceiling height.



Compact and space saving thanks to 3 or 4 stages solutions.



Synchronized belt system allows an optimized extension.



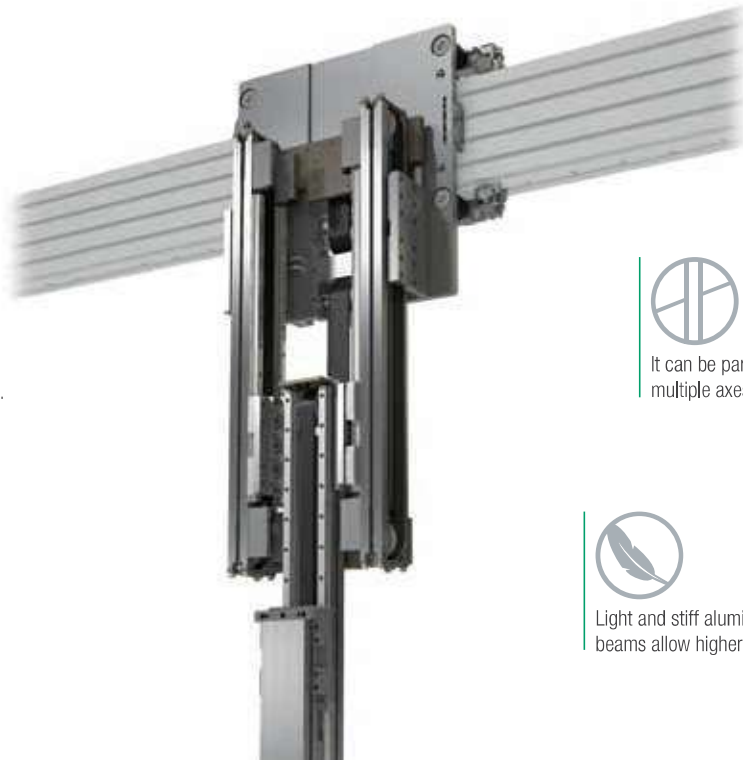
High dynamics thank to the multiplication of speed of each level.



It can be part of multiple axes configurations.



Light and stiff aluminum beams allow higher dynamics.



### LOAD CAPACITY ACCORDING TO DYNAMICS

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