

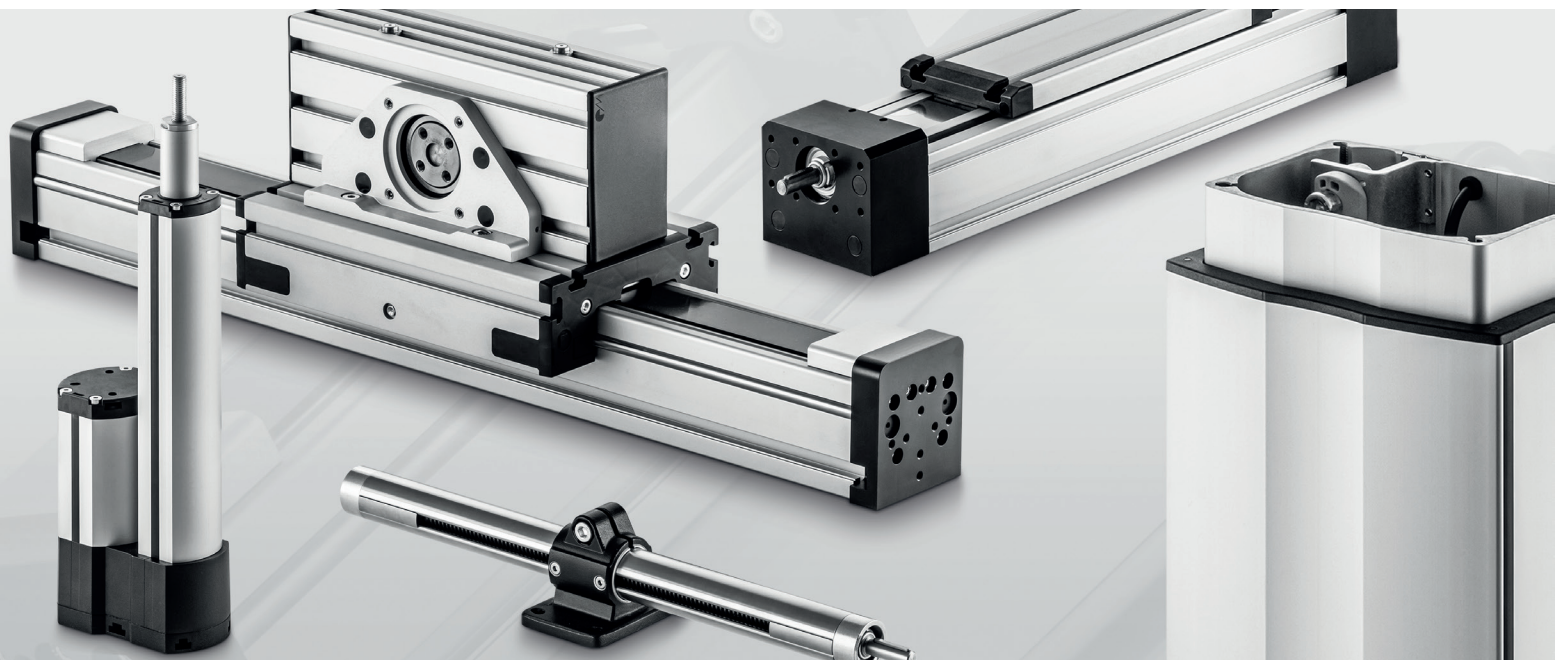


PHOENIX MECANO

LINEAR TECHNOLOGY

Efficient moving and positioning

> **LINEAR UNITS** > **LIFTING COLUMNS** > **ELECTRIC CYLINDERS** > **MULTI-AXIS SOLUTIONS**



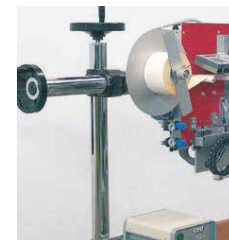
Linear Technology

Application examples

Move - Tec

Width, length and height adjustment

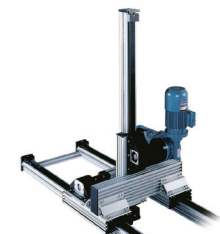
- > Manual or electric drive
- > Occasional to multiple adjustments daily
- > Low duty cycle
- > Low Speed
- > Medium to high stability



Place - Tec

Loading and unloading, palletising, pick and place

- > High repeatability
- > Short cycle times
- > High cycle rates
- > 3 shift operations
- > High reliability



Control - Tec

Numerically controlled positioning applications

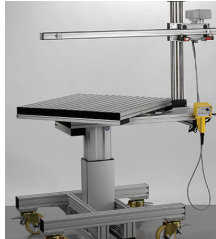
- > High positioning accuracy
- > Uniform motion
- > High drive stiffness
- > 3 shift operation
- > IP 40 protection class



Lifting Columns

Height adjustment made easy

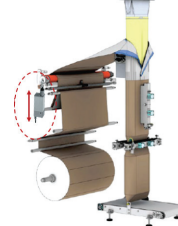
- > Workplace ergonomics
- > Industrial automation
- > Medical technology
- > Media technology



Electric Cylinder

The alternative to pneumatic / hydraulic cylinders

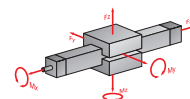
- > Fully integrated technology / maintenance-free
- > Self-locking, even under max.load
- > Can be installed in any position
- > Various stroke lengths and speeds



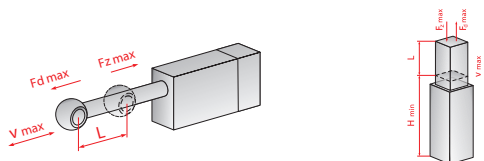
Selection aid

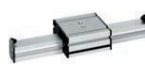
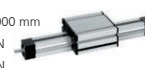
Move - Tec

Width, length and height adjustment



Rodless style (up to 6m travel)	Guide	Twin-tube-guide	
		RE Max. travel: 3,000 mm Fy max: 600 N Fz max: 2,400 N 	
Rodstyle (bis2m Hub)	Drive+ Guide (linear actuator)	Single-tube-guide	Twin-tube-actuators
		RK LightUnit Max. travel: 920 mm Fx max: 300 N Fy max: 550 N Fz max: 1,210 N 	E/E-II / E-II-stainless Max. travel: 2,740 mm Fx max: 4,500 N Fy max: 5,500 N Fz max: 5,650 N 
Rodstyle (bis2m Hub)	Drive (E-Cylinder)	Cylinders-performance Class 1	Cylinders
		M9 E-cylinder Travel: 50 mm Fd max: 300 N Fz max: 300 N Vmax: 14 mm/s 	010 E-cylinder Max. travel: 140 mm Fd max: 500 N Fz max: 500 N Vmax: 22 mm/s 
	Drive+ Guide (lifting column)	Two Stage	
		RK Multilift Max. travel: 498 mm Fd max: 3,000 N Fz max: 1,000 N Vmax: 16 mm/s 	RK Slimlift Max. travel: 500 mm Fd max: 4,000 N Fz max: 2,000 N Vmax: 32 mm/s 

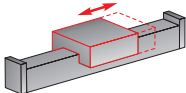
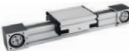


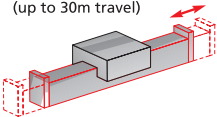
Profile Guides				
PLM-G Max. travel: 2,935 mm Fy max: 200 N Fz max: 220 N		RK Compact-G Max. travel: 400 mm Fy max: 1,150 N Fz max: 1,150 N		SQL Max. travel: 5,750 mm Fy max: 2,500 N Fz max: 1,500 N
PL Max. travel: 5,860 mm Fy max: 2,550 N Fz max: 2,550 N		RK DuoLine R Max. travel: 7,692 mm Fy max: 5,100 N Fz max: 8,900 N		
Profile actuators				
PLM Max. travel: 855 mm Fx max: 125 N Fy max: 200 N Fz max: 220 N		RK Compact Max. travel: 400 mm Fx max: 215 N Fy max: 1,150 N Fz max: 1,150 N		quad® EV Max. travel: 2,850 mm Fx max: 2,500 N Fy max: 6,000 N Fz max: 6,000 N
	PLS Max. travel: 3,000 mm Fx max: 3,050 N Fy max: 2,550 N Fz max: 2,550 N		RK DuoLine S Max. travel: 2,924 mm Fx max: 3,400 N Fy max: 5,000 N Fz max: 6,000 N	
Cylinders-performance Class 2		Heavy Duty Cylinders		
LAMBDA E-cylinder Max. travel: 600 mm Fd max: 6,000 N Fz max: 4,000 N Vmax: 21 mm/s		LZ 60 E-cylinder Max. travel: 597 mm Fd max: 4,000 N Fz max: 2,000 N Vmax: 50 mm/s		LZ 80 E-cylinder Max. travel: 1,005 mm Fd max: 10,000 N Fz max: 10,000 N Vmax: 13 mm/s
	SLZ 63 TR FL/PL E-cylinder Max. travel: 1,000 mm Fd max: 15,000 N Fz max: 15,000 N Vmax: 58 mm/s		SLZ 90 E-cylinder Max. travel: 2,000 mm Fd max: 25,000 N Fz max: 25,000 N Vmax: 77 mm/s	
Columns		Multi Stage lifting columns		
RK Powerlift Max. travel: 500 mm Fd max: 3,000 N Fz max: 4,000 N Vmax: 50 mm/s		Multilift II telescope Max. travel: 650 mm Fd max: 3,000 N Fz max: 2,000 N Vmax: 16 mm/s		RK Powerlift telescope Max. travel: 650 mm Fd max: 1,600 N Fz max: 800 N Vmax: 30 mm/s
	Alpha Colonne Max. travel: 600 mm Fd max: 3,000 N Fz max: 3,000 N Vmax: 18 mm/s		LAMBDA Colonne Max. travel: 600 mm Fd max: 4,500 N Fz max: 4,500 N Vmax: 20 mm/s	

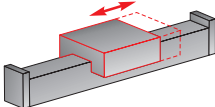
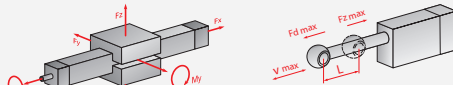
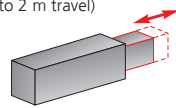
Selection aid

Place-Tec

Loading and unloading, palletising, pick & place

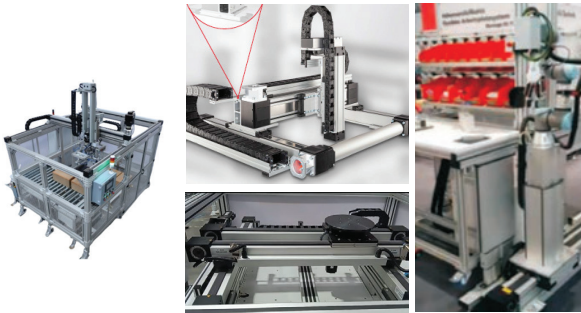
Rodless style (up to 6 m travel) (D-Line 50 m travel) 	Guide Drive+ Guide (linear actuator)	Roller Guide RK MonoLine Max. travel: 5,780 mm Fy max: 4,367 N Fz max: 2,509 N v max: 10 m/s a max: 20 m/s² 	Ball rail guide MultiLine R Max. travel: 5,620 mm Fy max: 8,200 N Fz max: 12,000 N v max: 5 m/s a max: 50 m/s²  RK DuoLine R Max. travel: 7,692 mm Fy max: 5,100 N Fz max: 8,900 N v max: 5 m/s a max: 50 m/s² 	
		Roller Guide actuators RK MonoLine Max. travel: 5,780 mm Fx max: 4,800 N Fy max: 9,400 N Fz max: 5,200 N v max: 10 m/s a max: 20 m/s² Repeatability ±0.05 mm 	Ball Rail guide actuators MultiLine Max. travel: 5,620 mm Fx max: 4,700 N Fy max: 8,200 N Fz max: 12,000 N v max: 5 m/s a max: 50 m/s² Repeatability ±0.05 mm  RK DuoLine Z Max. travel: 9,010 mm Fx max: 6,000 N Fy max: 5,100 N Fz max: 8,900 N v max: 5 m/s a max: 50 m/s² Repeatability ±0.05 mm 	

Rodstyle (up to 30m travel) 	Drive+ Guide (linear actuator)	CLB		
		CLB 40 Max. travel : 4,000 mm Fx max: 450 N Fy max: 500 N Fz max: 500 N v max: 5 m/s a max: 50 m/s² Repeatability ± 0.05 mm 	CLB 50 R Max. travel : 4,000 mm Fx max: 900 N Fy max: 850 N Fz max: 700 N v max: 5 m/s a max: 50 m/s² Repeatability ± 0.05 mm 	CLB 50 LM Max. travel : 1,750 mm Fx max: 900 N Fy max: 600 N Fz max: 1500 N v max: 5 m/s a max: 50 m/s² Repeatability ± 0.05 mm 
		Roller Guide actuators RK MonoLine MT Max. travel: 5,614 mm Fx max: 1,500 N Fy max: 4,367 N Fz max: 2,509 N v max: 5 m/s / a max: 15 m/s² Repeatability ±0.05 mm  SQ MT Max. travel: 5,623 mm Fx max: 2,810 N Fy max: 2,550 N Fz max: 2,550 N v max: 10 m/s / a max: 20 m/s² Repeatability ±0.05 mm  SQ ZST Hub Max: 29,530 mm Fx max: 1,132 N Fy max: 2,550 N Fz max: 2,550 N v max: 5 m/s / a max: 20 m/s² Repeatability ±0.05 mm 		

Rodless style (up to 4.4 m travel) 	Guide	Ball rail guide RK DuoLine R Max. travel: 7,692 mm Fy max: 5,100 N Fz max: 8,900 N v max: 5 m/s a max: 50 m/s²  		
	Drive+ Guide (linear actuator)	Ball rail guide actuators DuoLine S Max. travel: 4,440 mm Fx max: 8,000 N / Fy max: 5,100 N Fz max: 8,900 N Mx max: 500 Nm / My max: 1,200 N Mz max: 1,150 Nm v max: 2.5 m/s / a max: 20 m/s² Positioning accuracy ± 0.05 mm  Ball bushing guide shafts actuators EP(X)H KG Max. travel: 2,520 mm Fx max: 1,200 N / Fy max: 2,400 N Fz max: 2,400 N Mx max: 160 Nm / My max: 250 Nm Mz max: 280 Nm v max: 0.24 m/s / a max: 10 m/s² Positioning accuracy ± 0.1 mm 		
CLB CLB 80 Travel max: 4,000 mm Fx max: 2,000 N Fy max: 1,000 N Fz max: 3,000 N v max: 5 m/s a max: 50 m/s² Repeatability ± 0.05 mm  				
Rodstyle (up to 2 m travel) 	Drive (E-Cylinder)	Heavy duty cylinders SLZ 63 KG FI/PL E-Cylinder Max. travel: 1,000 mm Fd max: 10,000 N Fz max: 10,000 N v max: 1,250 mm/s Mechanical Positioning accuracy ± 0.08 mm  SLZ 90 E-Cylinder Max. travel: 1,900 mm Fd mx: 25,000 N Fz max: 25,000 N v max: 993 mm/s Mechanical Positioning accuracy ± 0.142 mm 		

Linear Multi-axis Solutions

- > Customized multiaxis solution
- > Customized Pick and place solutions
- > Palletization solution
- > Roborail for Robots and Cobots



Other Products & Solutions



Aluminium Profile Technology

- > Structural Profiles
- > Heavy Duty Profiles
- > Functional Profiles

Connecting Technology

- > Light Clamps
- > Robust Clamps
- > Solid Clamps

Pipe Racking System

- > Various Roller Tracks
- > Mounting Accessories
- > Dcoated, Aluminium and SS Pipes

Conveyor Technology

- > Pallet Conveyor Systems, Pallet Lifters
- > Modular Chain Conveyors
- > Belt, Roller Conveyors

Head Office and Manufacturing Plant



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