

Program summary

DRIVE TECHNOLOGY

Electro-mechanical linear actuators

voltage 12 or 24 VDC

max. lifting force from 300 to 6,000 N

strokes from 100 to 600 mm

Hydro-mechanical linear actuators

operation with foot pedal or hand lever

max. lifting force from 4,500 to 12,500 N

strokes from 80 to 250 mm



Program summary DRIVE TECHNOLOGY

Electro-mechanical linear actuators

Data sheet L1.101 L4.202 Supply and control voltage Ax. push force 1,000 12,000 14,000 16,000 N 300 1600 N Max. push force 125% of the max. push force 100 150 1200 1300 1400 1500 1600 mm 100 150 1200 1300 1400 1500 1600 mm Speed 37 8.5 mm/s (lock-ent) 28 16 mm/s (lock-ent) 29 5 mm/s (lock-ent) 18 7	Line	RA 600	RA 60 K
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Material Housing polyamide, black, glass fibre reinforced polyamide, black, glass fibre reinforced Guiding tube anodized aluminium aluminium, anodized and powder coated Pushing rod stainless steel stainless steel Accessories Control modules for 1, 2, 3 or 4 linear actuators no Foot switch or hand panel yes no Electric connection plug plug-type connector set Bearing sleeve inner Ø 10 mm no Versions on request 12 VDC version 24 VDC version Supply and control voltage 12 VDC version 24 VDC version Bus systems LIN or CAN bus LIN or CAN bus Absolute stroke measuring system (up to 200 mm stroke) on request standard	Code class	IP66 or IP69K	IP69K
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Accessories Control modules for 1, 2, 3 or 4 linear actuators no Foot switch or hand panel Electric connection Bearing sleeve Versions on request Supply and control voltage Bus systems Absolute stroke measuring system (up to 200 mm stroke) for 1, 2, 3 or 4 linear actuators no yes no plug plug-type connector set no no 2 d VDC version 24 VDC version LIN or CAN bus standard	Guiding tube	anodized aluminium	aluminium, anodized and powder coated
Control modulesfor 1, 2, 3 or 4 linear actuatorsnoFoot switch or hand panelyesnoElectric connectionplugplug-type connector setBearing sleeveinner Ø 10 mmnoVersions on request12 VDC version24 VDC versionSupply and control voltage12 VDC version24 VDC versionBus systemsLIN or CAN busLIN or CAN busAbsolute stroke measuring system (up to 200 mm stroke)on requeststandard	Pushing rod	stainless steel	stainless steel
Foot switch or hand panel Security connection		for 1, 2, 3 or 4 linear actuators	no
Electric connection plug plug-type connector set Bearing sleeve inner Ø 10 mm no Versions on request Supply and control voltage 12 VDC version 24 VDC version Bus systems LIN or CAN bus LIN or CAN bus Absolute stroke measuring system (up to 200 mm stroke) on request standard		· ·	
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Absolute stroke measuring system (up to 200 mm stroke) on request standard			
	Absolute stroke measuring system		
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Especially protected against corrosion on request standard	-	·	standard

Synchronization:

RA linear actuators can also be operated with synchronization control. For this purpose, they must be equipped with a stroke measuring system.



Hydro-mechanical linear actuators

Line	RH 1250	
Data sheet	L 7.101	
Operation (extend and retract)	manually with a foot pedal or hand lever	
Max. push force	4,500 6,500 9,500 12,500 N	
Max. pull force	pull forces cannot be generated	
Strokes	80 140 200 250 mm	
Pump strokes to extend per 100 mm stroke	7 22	
Maximum torque for pumping	160 120 Nm	
Force required to retract	at least 100 N	
Descent speed	4.5 ±1 s / 100 mm stroke	
Installation length (retracted)	192 431 mm	
Mounting positions	2 (dependent on the operating direction of the lever)	
Admissible ambient temperature [°C]	+ 10° to + 40 °C	
Resistant to	corrosion, cleaning agents and disinfectants up to +70 °C	
Valve technology	with speed control and pressure relief valve	
Mounting variants	centring pivot at the housing Ø 38 mm fork or flange mounting Ø 12.1 mm (up to a lifting force of 6.500 N)	
Fixation on the plunger	bore hole Ø 12.1 mm	
Operating shaft	self-resetting Ø 18 f8 mm with bore hole Ø 6 H12 mm perpendicular or parallel to the plunger or undrilled	
Material		
Housing	aluminium	
Plunger	steel, corrosion resistant, chromium plated	
Operating shaft	stainless steel	
Lacquering	unlacquered or lacquered in traffic white I white aluminium I black I light gray I agate gray	
Accessories		
Foot pedal or hand lever	with bore hole Ø 18 mm F7 or undrilled	
Bearing block	for centring pivot Ø 38 mm	
Pedal cover (black)	for user-specific lever or as spare part	
Versions on request		
Strokes	in increments of 50 mm up to 600 mm (up to lifting force of 6,500 N)	
Plunger	with thread M8 at the front face	
Lacquering colour	as per customer specification	
Descent actuation	descent actuation by pushing or turning	
Descent speeds	as per customer specification	
Versions for MRI applications	with low residual magnetism	
Customer-specific linear actuators	as per customer specification	



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Römheld GmbH Friedrichshütte

Römheldstraße 1-5

35321 Laubach, Germany +49 (0) 6405 / 89-0 Tel.: Fax: +49 (0) 6405 / 89-211 E-mail: info@roemheld.de www.roemheld.com