RK ROSE+KRIEGER

A Phoenix Mecano Company

We are Dedicated to Achieving Customer Satisfaction Through Continuous Improvement.

Rose+Krieger, a division of PMI, manufactures an extensive line of machine tool components in aluminum, steel and stainless steel for assembly, automation, and production environments.

RK FrameWorks®, an easy-to-assemble extruded aluminum construction system consisting of a variety of extruded aluminum beams and hidden hardware connectors, is ideal for building industrial frames, workstations, machine guards, and production lines. The system offers design flexibility using "off-the-shelf" components and permits fast easy assembly of permanent and semi-permanent structures without costly machining or welding.

RK ClampWorks®, a diverse and economical line of cast aluminum, steel or stainless steel clamps and tubing in metric/inch sizes, offers positioning and repositioning of production line structures. RK ClampWorks® is used for constructing or fixturing practically anything permanent or temporary, without the need for machining, welding, threading, fitting or special tools. Just twist the quick-release handle or turn a screw.

RK LinearWorks®, a full complement of linear positioners, is essential to the machine integration process. RK LinearWorks® units are used for X, Y, and Z axes movements to fill many different design needs, whether it be left or right independent movement, single movement, or left and right bi-directional movement. Choose from sliding, lead-screw or motor-driven applications.

RK LiftWorks® includes a series of electronic lifting units and actuators for the industrial market.

About Us

RK ClampWorks®
A veratile tube connection system consisting of cast aluminum clamps and tubing in metric/inch sizes, for fast positioning and repositioning of production line structures.

RK FrameWorks®
An easy to assemble extruded aluminum construction system, ideal for building industrial frames, workstations, machine guards and production lines.

RK StairWorks®
An innovative system of flush-fitting tube and joint clamps for building stairs, stair railings, guard railings, scaffolding, and working platforms of all kinds.

RK LinearWorks®
RK LiftWorks®
LinearWorks, a complete line of linear motion units essential to machine integration. LiftWorks includes electronic lifting units and actuators for the industrial market.

RK Rose+Krieger's product lines include a broad range of electro-mechanical components in aluminum and steel for assembly, automation and production environments. The "Works" from RK Rose+Krieger features RK ClampWorks® with over 1000 die-cast aluminum clamps in metric and inch sizes, complemented by numerous sizes of precise aluminum and steel tubing. RK StairWorks®, an easy to assemble system for constructing stairs, railings, and working platforms requires no special assembly tools. RK FrameWorks® is an aluminum extrusion construction system offering over 100 close-tolerance aluminum extruded profiles and various types of connectors, including RK Rose+Krieger's patented "Hidden Bracket" connection. RK LinearWorks® includes a complete line of linear motion units, including rolling guides, acme spindle units and timing belt linears, and the newest member of the RK Works™ family is RK LiftWorks®, a series of electronic lifting units and actuators for the industrial market.

RK Rose+Krieger is a customer service oriented manufacturer offering standard and customer-specific products and services. No project is too large or too small.

RK Rose+Krieger, a division of Phoenix Mecano, offers the highest quality products and services in the industry, all competitively priced. The North America headquarters, warehouse and manufacturing facilities are located in Frederick, Maryland. Visit our website, www.rose-krieger.com for details on our distributors and sales representative.

RK Rose+Krieger strives to exceed customer expectations through innovative high-quality products. RK Works™ provides the building blocks for sophisticated machine design, automation, and production line construction.

Terms and Conditions

RK ROSE+KRIEGER

	This is an overview of our Terms and Conditions. A full written version is available on request. Terms and Conditions are subject to change without notice.
CATALOG LISTINGS	Most products listed in this catalog are available, at our stocking location in Frederick, Maryland. On occasion slow moving items may have to be brought in from our sister company in Germany. All specifications and descriptions are current, as of the time of publication. Product listings, specifications, availability, and pricing are subject to change without notice. Detailed drawings are available on the internet and directly from the company on request.
PRODUCT WARRANTY	Phoenix Mecano Inc. warrants all its products to be free from defects in materials and workmanship. Phoenix Mecano's liability under this warranty shall be limited to ninety days after delivery of the product to the original purchaser. Disputed product must be returned to Phoenix Mecano with prepaid transportation charges. After examination by Phoenix Mecano, should the product be found to be defective we will repair or replace it from our factory. Any defect is to be determined by accepted testing methods at Phoenix Mecano Inc. Any returned product found to be defective would become the property of Phoenix Mecano, Inc. Phoenix Mecano Inc. shall not be liable to the purchaser for the cost of repairs, alterations, replacement, or any other expenses (including loss of profits, additional labor costs, or injury to persons or property caused by defective material or parts) incurred by the purchaser, their employees, or agents. One exception would be where Phoenix Mecano had previously authorized such repairs, alterations, or consequential damages. This warranty shall not apply to products, which have been altered or repaired, except by Phoenix Mecano, Inc., or which have been subjected to misuse, negligence, or accident, including the use or operation of the products while parts are loose, broken, out of order, or damaged by the elements. This warranty supersedes all other warranties, expressed or implied, including any implied warranty of merchantability, and of all other obligations or liability on the part of Phoenix Mecano, Inc.
PRICING	RK Rose+Krieger offers standard OEM pricing based on quantity price breaks. For pricing information please contact our RK Rose+Krieger sales staff or your local distributor. Prices are subject to change without notice.
RETURNS	1. All returns must be accompanied by an RMA (return merchandise authorization). Please call your inside salesperson for an RMA number. Invoice or Packing Slip number must accompany return. 2. All returns due to customer error must be made within 30 days from the date of the invoice. 3. Warranty returns must be made within 90 days from the date of the invoice. 4. All returned product must be in resalable condition and in the original carton. 5. Off-the-shelf parts, returned due to customer error, are subject to a minimum 15% restocking charge. 6. Defective merchandise returns are evaluated on an individual basis. 7. Parts that have been modified and special order items are not returnable.
METHODS OF PAYMENT	RK Rose+Krieger has four methods of payment; Net 30 day credit, C.O.D, credit card and pre-payment.
NET 30 ACCOUNTS	Net 30-account status is generally granted to qualified customers with appropriate credit and banking references. Terms of payment are net 30 days. Past due accounts are subject to late payment charge of 1½% per month.
C.O.D. ACCOUNTS	C.O.D. orders for product that has value-added operations performed by RK Rose+Krieger require 50% down payment at time of order. The balance will be collected at time of shipment.
CREDIT CARD ACCOUNTS	RK Rose+Krieger accepts American Express, Discover, Master Card, Visa, or electronic funds transfers.
PREPAYMENTS	Payments can be made electronically directly to our bank account. Please contact an Accounts Receivable representative for our banking information.
TO OPEN A NEW ACCOUNT	To open a new account, please complete the credit application form in the back of this catalog. Fill out all references for credit contact. Names, addresses and telephone numbers will speed processing of your application. RK Rose+Krieger must have the credit application filled out in writing and signed BY CUSTOMER ONLY. Applications may be mailed or faxed (301-696-9493) to our Accounting Department in order to process a credit request. Please allow sufficient processing time.
SALES TAX	We are required by law to charge and collect Maryland sales tax. If you wish to avoid us charging state sales tax, you must submit a state sales tax exemption certificate annually to RK Rose+Krieger. Sales tax will always be charged unless otherwise indicated.
MINIMUM ORDER	All orders are subject to a minimum order value of $100.00
SHIPMENT DAMAGE	Our products are inspected and carefully packed for shipment. In the event an item is damaged in shipment, you must submit a claim to the carrier within 15 days of delivery. We advise that you unpack and inspect all merchandise immediately upon receiving it. If damage does not become apparent until the shipment is unpacked, keep the shipping carton and make a request within 72 hours for inspection by the carrier's agent and file a claim with the carrier. Any external evidence of loss or damage must be noted on the freight bill. Failure to do this will result in the carrier refusing to honor the claim. RK Rose+Krieger will not be responsible for shipment damage or lost parts due to such damage.
DELIVERY	Items are shipped F.O.B. Frederick, Maryland. All orders are shipped UPS unless the weight prohibits shipment by this method. On heavier shipments we will attempt to ship by the carrier of your choice.
SAME DAY SHIPMENT	All orders to be shipped Air and received by 4 p.m. EST are shipped the same day. All UPS shipments are prepaid and charges added to the invoice, unless otherwise requested.
LARGE ITEMS AND SPECIAL HANDLING	For heavy shipments, common carrier truck is the most economical. Charges are F.O.B. shipping point and the product is shipped freight prepaid and charges are added to your invoice, unless otherwise requested.
BLANKET ORDERS	1. A "Blanket Purchase Order" is an agreement between two parties, "Seller/Buyer" to purchase a specific quantity of products over a specified period of time "Not to Exceed 12 Months". 2. Blanket Orders cannot be changed or canceled without 90-day advance written notice. Customer will be responsible for all parts manufactured for shipment within this 90-day period. 3. Blanket Orders canceled for standard items will result in customer being billed back for the difference between the price break of quantity received, versus total quantity ordered. 4. Blanket Orders for modified or special order products must state Non-cancelable/Non-returnable on the Purchase Order. 5. All Blanket Orders must have firm ship dates stated on the Purchase Order for every release.

RK LiftWorks®

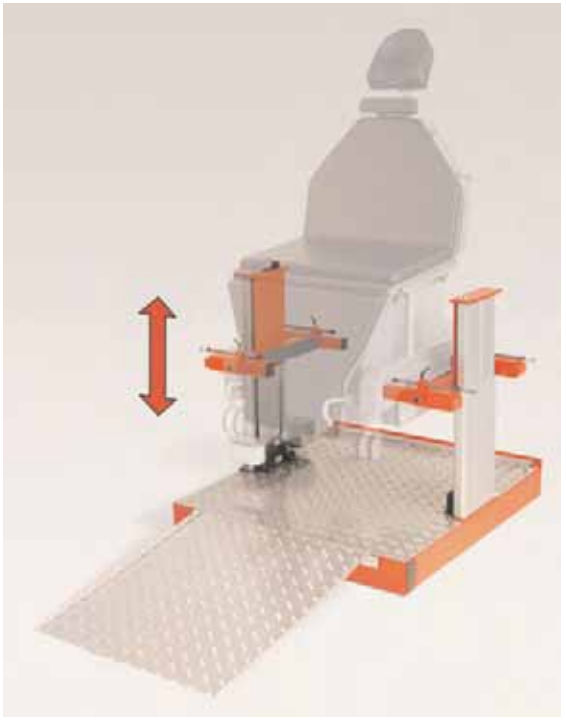
RK Rose+Krieger has been manufacturing assembly and positioning systems for over 25 years.

Lifting devices and electrical cylinders build an important part of our drive product range.

Our lifting devices are particularly suitable for the linear moving of desks, laboratory tables, assembly equipment and handling devices. They allow for optimal ergonomic adjustment of work plateforms and assembly equipment.

Electrical cylinders are a very good alternative to pneumatic cylinders. In particular the following advantages have been ovbserved:

- regular run also at low speed
- no risk of leak; lower power consumption
- expensive supplementary parts such as solenoid valves, chokes or maintenance devices are not necessary
- no evacuation noise



Lifting platform made of MultiLift components.

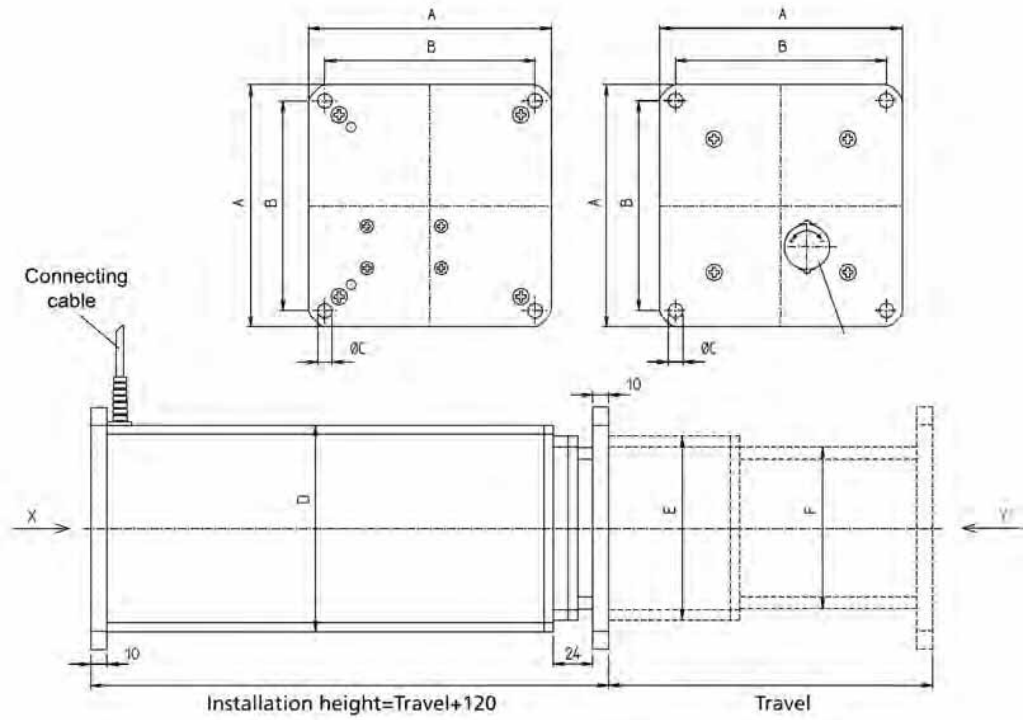
Height adjustable instrument rack with RK PowerLift (special version)

Alpha Colonne

takes both compressive and tensile forces

max. 3000 N

	ACM "Medium"	ACL "Large"
A	150	190
B	130	170
C	9	11
D	128	163
E	114	145
F	100	128



Code Number	Type	Total Travel	Installed Height	Max. Lifting Speed	Max. Compression Tensile Load
ql_08 bc 0_0200	Alpha Colonne AC_-200	200 mm	320 mm	8 mm/s	3.000 N
ql_08 bc 0_0300	Alpha Colonne AC_-300	300 mm	420 mm		
ql_08 bc 0_0400	Alpha Colonne AC_-400	400 mm	520 mm		
ql_08 bc 0_0500	Alpha Colonne AC_-500	500 mm	620 mm		
ql_08 bc 0_0600	Alpha Colonne AC_-600	600 mm	720 mm		
ql_08 bc 0_0700	Alpha Colonne AC_-700	700 mm	820 mm		
ql_12 bb 0_0200	Alpha Colonne AC_-200	200 mm	320 mm	12 mm/s	2.000 N
ql_12 bb 0_0300	Alpha Colonne AC_-300	300 mm	420 mm		
ql_12 bb 0_0400	Alpha Colonne AC_-400	400 mm	520 mm		
ql_12 bb 0_0500	Alpha Colonne AC_-500	500 mm	620 mm		
ql_12 bb 0_0600	Alpha Colonne AC_-600	600 mm	720 mm		
ql_12 bb 0_0700	Alpha Colonna AC_-700	700 mm	820 mm		
ql_18 ba 0_0200	Alpha Colonne AC_-200	200 mm	320 mm	18 mm/s	1.000 N
ql_18 ba 0_0300	Alpha Colonne AC_-300	300 mm	420 mm		
ql_18 ba 0_0400	Alpha Colonna AC_-400	400 mm	520 mm		
ql_18 ba 0_0500	Alpha Colonne AC_-500	500 mm	620 mm		
ql_18 ba 0_0600	Alpha Colonne AC_-600	600 mm	720 mm		
ql_18 ba 0_0700	Alpha Colonne AC_-700	700 mm	820 mm		

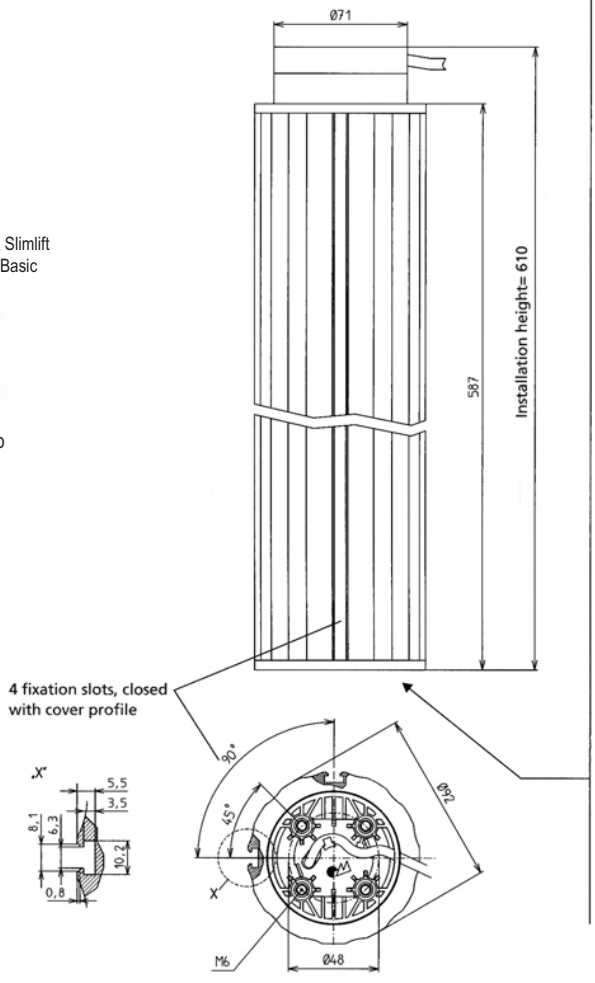
Alpha Colonne
t = Medium ACM
v = Large ACL

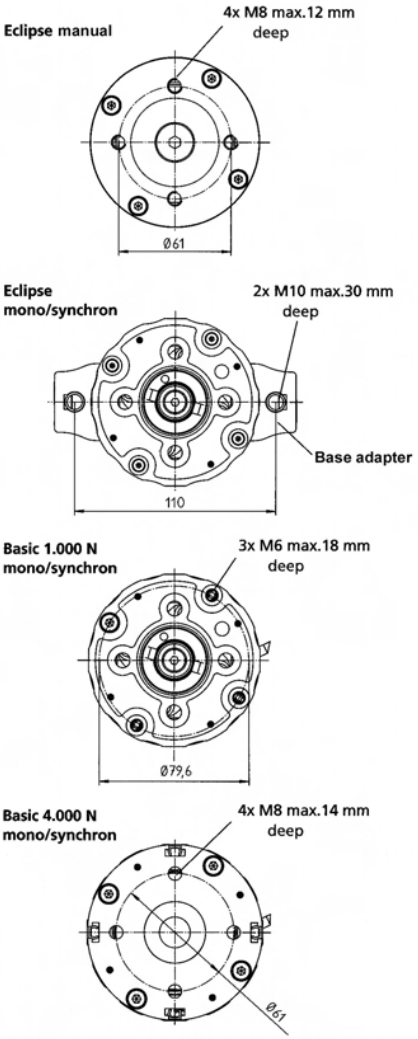
Version
1 = Standard
3 = For Synchronizing Control
4 = Integrated Transformer (ex 300 mm travel)

RK Slimlift

very good traveling/installation height ratio

max. 4000 N



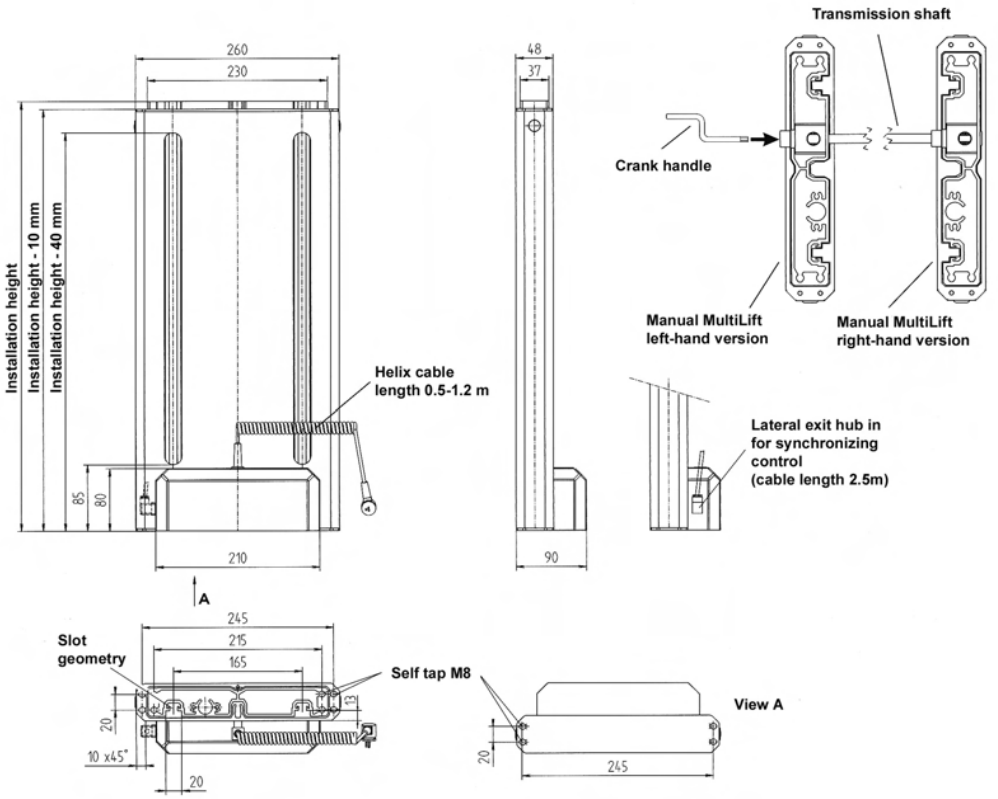


Code Number	Type	Travel Length	Installed Height	Stroke Speed	Compression Load	Tensile Load	Weight kg
qsl00aa140390	Eclipse - manual	390 mm	610 mm	-	1.000 N	1.000 N	4.5
qsl32ba130460	Eclipse - mono/synchron-	460 mm	610 mm	32 mm/s	1.000 N	500 N	6.0
qsl32ba330460	Basic - mono/synchron-	460 mm	610 mm	32 mm/s	1.000 N	500 N	6.0
qsl10bd200285	Basic - mono/synchron-	285 mm	610 mm	8 mm/s	4.000 N	2.000 N	7.0

MultiLift

slim construction

max. 3000 N



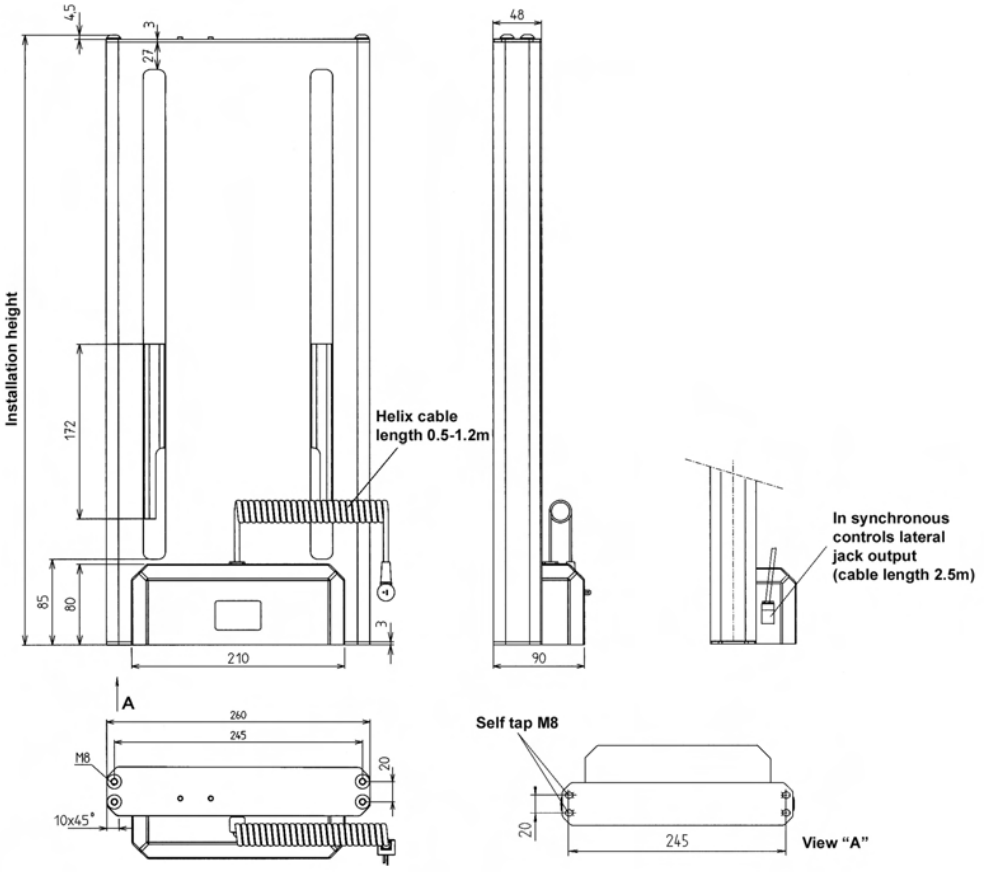
Code Number	Type	Total Travel	Installed Height	Max. Lifting Speed	Max. Compression Load	Max. Tensile Load*	Weight kg
qab00ac10 0470	MultiLift manual version left	470 mm	695 mm	-	1.000 N	1.000 N	11.2
qab00ac11 0470	MultiLift manual version right	470 mm	695 mm	-	1.000 N	1.000 N	11.2
qab13_g0_0 355	MultiLift 350	355 mm	550 mm	8 mm/s	3.000 N	1.000 N	9.1
qab13_g0_0 400	MultiLift 400	400 mm	595 mm				10.0
qab13_g0_0 450	MultiLift 450	452 mm	650 mm				10.8
qab13_g0_0 500	MultiLift 500	498 mm	695 mm				11.5
qab26_g0_0 355	MultiLift 350 s	355 mm	550 mm	16 mm/s	1.000 N	1.000 N	9.1
qab26_g0_0 400	MultiLift 400 s	400 mm	595 mm				10.0
qab26_g0_0 450	MultiLift 450 s	452 mm	650 mm				10.8
qab26_g0_0 500	MultiLift 500 s	498 mm	695 mm				11.5

Versions (see illustrations above)
1 = version B (with milled slots)
2 = version A (without milled slots)
3 = version B for synchronized control
4 = version A for synchronized control

Type of loads
h = for compressive load (Standard)
i = for compressive and tensile load (add. bottom assembly plate)
m = for compressive and tensile load (add. bottom compression plate)

*only in combination with an extra lower assembly plate/compression plate

MultiLift with Internal Carriage



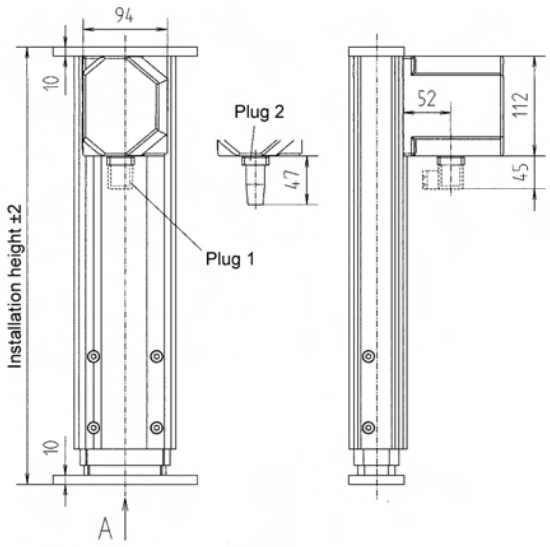
Code Number	Type	Total Travel	Installed Height	Max. Stroke Speed	Max. Compression Load	Max. Tensile Load*	Weight kg
qab1_g0_0 355	MultiLift 350	355 mm	557.5 mm	8 mm/s	3.000 N	1.000 N	6.4
qab13_g0_0 400	MultiLift 400	400 mm	602.5 mm				6.7
qab13_g0_0 450	MultiLift 450	452 mm	657.5 mm				7.1
qab13_g0_0 500	MultiLift 500	498 mm	702.5 mm				7.4
qab26_g0_0 355	MultiLift 350 s	355 mm	557.5 mm	16 mm/s	1.000 N	1.000 N	6.4
qab26_g0_0 400	MultiLift 400 s	400 mm	602.5 mm				6.7
qab26_g0_0 450	MultiLift 450 s	452 mm	657.5 mm				7.1
qab26_g0_0 500	MultiLift 500 s	498 mm	702.5 mm				7.4

Version
7 = for mono control/transformer
8 = for synchronous control

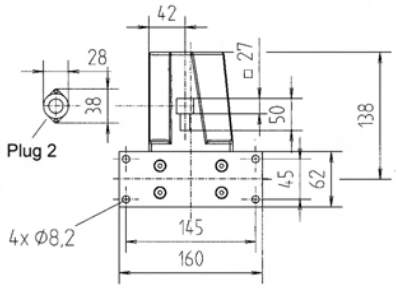
Type of loads
h = for compressive load (Standard)
i = for compressive and tensile load (add. bottom assembly plate)
m = for compressive and tensile load (add. bottom compression plate)

*only in combination with an extra lower assembly plate/compression plate

Lambda Colonne



4 column system upon request

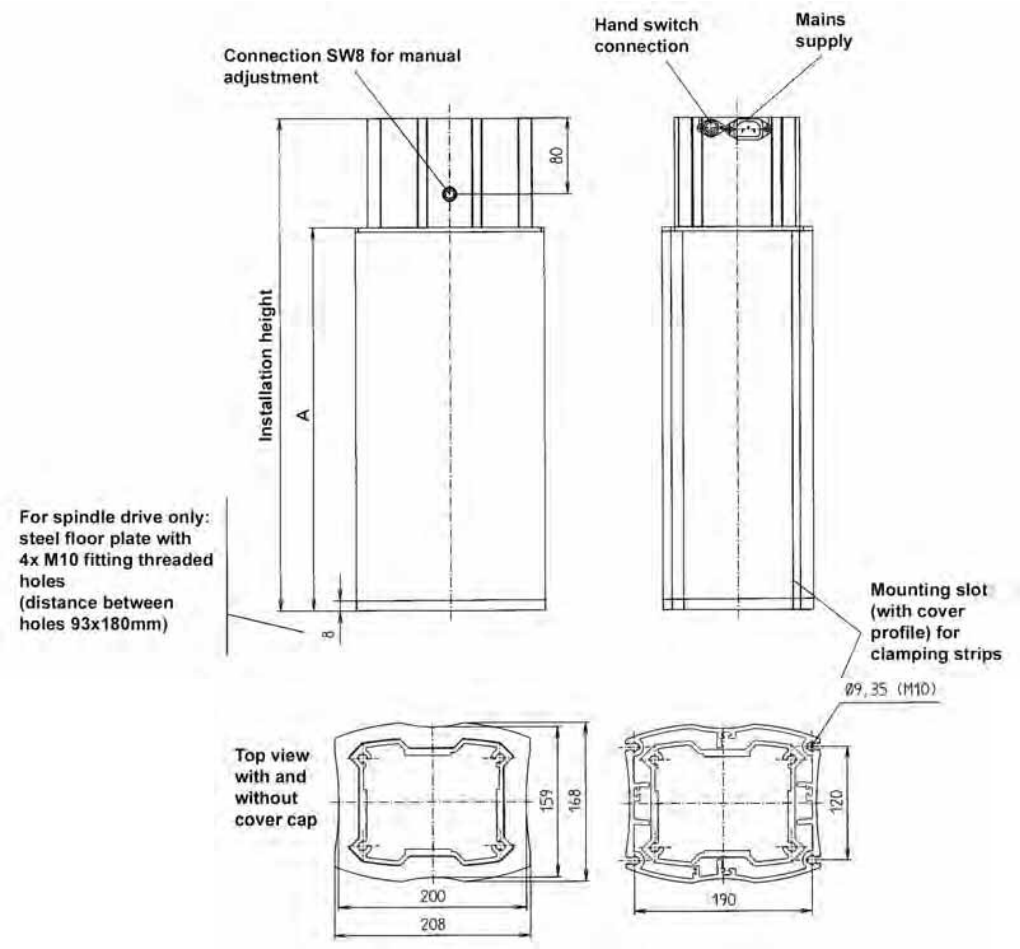


Plug 1 = Column without integrated potentiometer (Single)

Plug 2 = With potentiometer (Twin)

Code Number	Type	Travel Length	Installed Height	Lifting Speed	Compressive/Tensile Load*	Weight kg
Without Potentiometer, Plug 1						
qkl20ba020200	LBC 12	200 mm	410 mm	20 mm/s	2.000 N	~5.2
qkl20ba020300	LBC 13	300 mm	460 mm	20 mm/s	2.000 N	~5.6
qkl20ba020400	LBC 14	400 mm	510 mm	20 mm/s	2.000 N	~6.0
qkl20ba020500	LBC 15	500 mm	610 mm	20 mm/s	2.000 N	~7.0
qkl20ba020600	LBC 16	600 mm	710 mm	20 mm/s	2.000 N	~8.0
qkl10bb020200	LBC 112	200 mm	410 mm	8 mm/s	4.500 N	~5.2
qkl10bb020300	LBC 113	300 mm	460 mm	8 mm/s	4.500 N	~5.6
qkl10bb020400	LBC 114	400 mm	510 mm	8 mm/s	4.500 N	~6.0
qkl10bb020500	LBC 115	500 mm	610 mm	8 mm/s	4.500 N	~7.0
qkl10bb020600	LBC 116	600 mm	170 mm	8 mm/s	4.500 N	~8.0
With Potentiometer, Plug 2						
qkl20ba010200	LBC 22	200 mm	410 mm	20 mm/s	2.000 N	~5.2
qkl20ba010300	LBC 23	300 mm	460 mm	20 mm/s	2.000 N	~5.6
qkl20ba010400	LBC 24	400 mm	510 mm	20 mm/s	2.000 N	~6.0
qkl20ba010500	LBC 25	500 mm	610 mm	20 mm/s	2.000 N	~7.0
qkl20ba010600	LBC 26	600 mm	710 mm	20 mm/s	2.000 N	~8.0
qkl10bb010200	LBC 122	200 mm	410 mm	8 mm/s	4.500 N	~5.2
qkl10bb010300	LBC 123	300 mm	460 mm	8 mm/s	4.500 N	~5.6
qkl10bb010400	LBC 124	400 mm	510 mm	8 mm/s	4.500 N	~6.0
qkl10bb010500	LBC 125	500 mm	610 mm	8 mm/s	4.500 N	~7.0
qkl10bb010600	LBC 126	600 mm	170 mm	8 mm/s	4.500 N	~8.0

PowerLift Rack and Pinion Drive with Internal Control



The lifting column is driven by a 36 V DC motor, power and positioning electronics being completely integrated in the column so that only a mains supply is required externally.

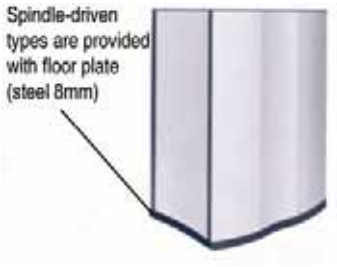
Type	*Installed Height*	*A*
Manual, travel 200	*610*	*515*
Hub travel 350	*490*	*465*
Hub travel 490	*610*	*585*
Hub travel 500	*648*	*623*

Code Number	Type	Travel	Installed Height	Lifting Speed	Compressive Load*	Weight kg
qpl 00 aa_0 0200	RK Powerlift manual	200 mm	610	-	1.000 N	~14
qpl 28 bb 4 _ 0490	RK Powerlift 28	490 mm	610	28 mm/s	2.000 N	~21
qpl 35 _a4 _ 0350	RK Powerlift 35	350 mm	490	35 mm/s	1.000 N	~18
qpl 35 _a4 _ 0490	RK Powerlift 35	490 mm	610	35 mm/s	1.000 N	~21
qpl 50 _a4 _ 0350	RK Powerlift 50	350 mm	490	50 mm/s	1.000 N	~18
qpl 50 _a4 _ 0490	RK Powerlift 50	490 mm	610	50 mm/s	1.000 N	~21

Positioning control
2 = Standard UP/DOWN (only for 35 mm/s)
4 = Soft control
6 = Memory conbtrol (only for 28 and 50 mm/s)
3 = Synchronizing control (only for 28 and 50 mm/s)

Voltage
b = 230 V AC
c = 115 V AC (power cable not included)

PowerLift Spindle Drive with Internal Control

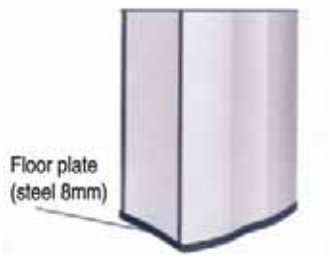


This newly designed model of lifting column is equipped with a spindle drive which enables it to lift loads up to 3.000 N. Morover, the noise level has been even further decreased. Unlike the rack and pinion drive version the spindle-driven columns can withstand compressive and tensile forces.

Code Number	Type	Travel	Installed Height	Lifting Speed	Compressive/Tensile Force	Weight kg
qpl 25 ba4 _ 0500	RK Powerlift 25	500 mm	648	25 mm/s	1000 N	~19
qpl 18 bb4 _ 0500	RK Powerlift 18	500 mm	648	18 mm/s	2000 N	~19
qpl 10 bc4 _ 0500	RK Powerlift 10	500 mm	648	10 mm/s	3000 N	~19

Positioning control
S = Standard UP/DOWN
T = Memory control
U = Synchronizing control

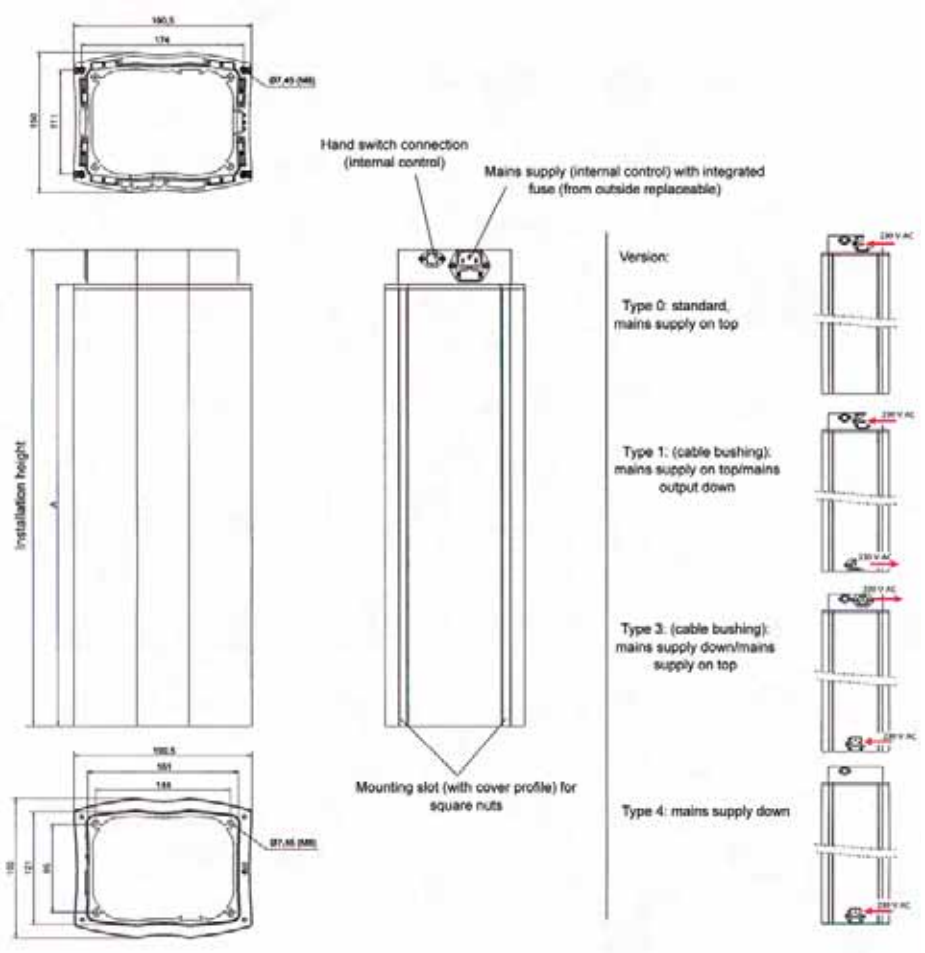
PowerLift Spindle Drive with External Control



We also provide this variation with externally mounted control so as to complement the above described spindle driven lifting columns array. Here the connecting cable for the control comes out of the column.

Code Number	Type	Travel	Installed Height	Lifting Speed	Compressive/Tensile Force	Weight kg
qpl 25 ea4 v 0500	RK Powerlift 25	500 mm	648	25 mm/s	1000 N	~17
qpl 18 eb4 v 0500	RK Powerlift 18	500 mm	648	18 mm/s	2000 N	~17
qpl 10 ec4 v 0500	RK Powerlift 10	500 mm	648	10 mm/s	3000 N	~17

RK PowerLift M



Code Number	Type	Travel	Installed Height	A	Lifting Speed	Compressive/Tensile Load*	Weight kg
qpm13bc4_ _300	RK PowerLift M13	300	510	473	13 mm/s	1500 N	~12.0
qpm13bc4_ _400	RK PowerLift M13	400	610	573	13 mm/s	1500 N	~13.5
qpm13BC4_ _500	RK PowerLift M13	500	710	673	13 mm/s	1500 N	~15.0

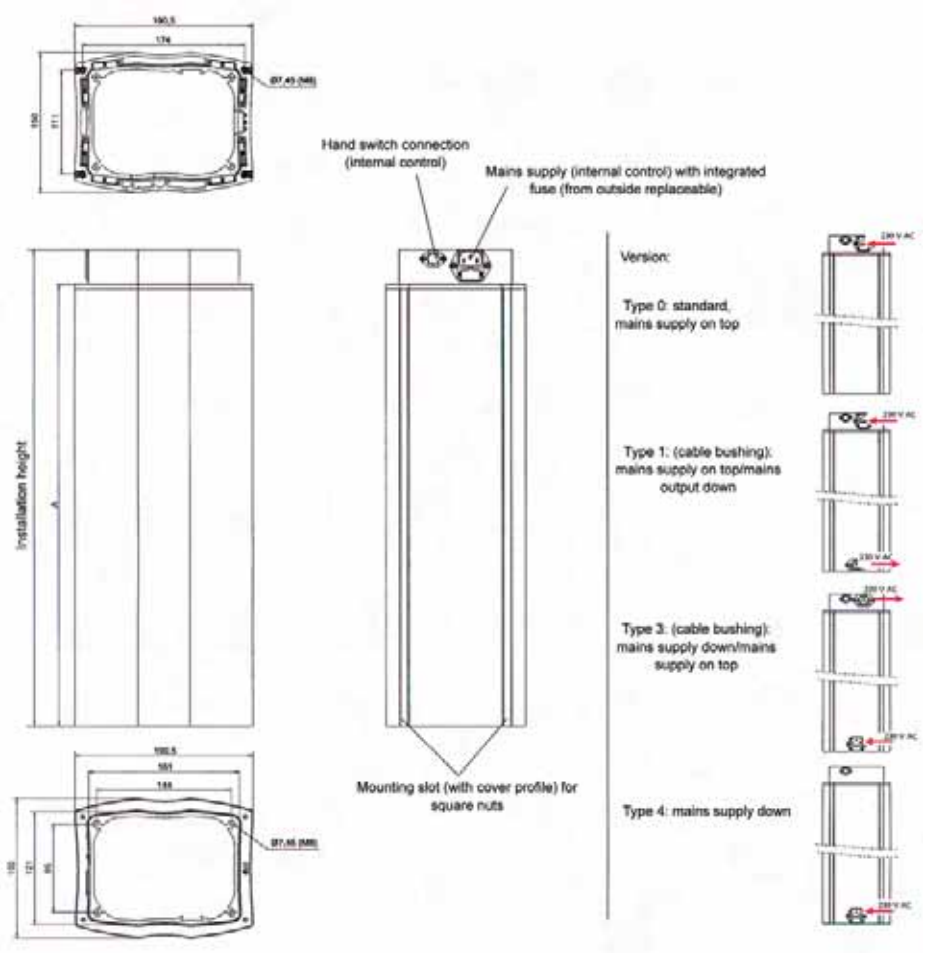
Version
0 = Standard
1 = Type 1
3 = Type 3
4 = Type 4

Positioning Control
2 = Standard UP/DOWN*
6 = Memory control
7 = Synchronizing control

* version “med tech”

Code Number	Type
qzd100093	Connection cable f.2 RK PowerLift-synchronous-, 6m

RK PowerLift M “med tech” for Medical Technology



Technical Data:	230 V AC / 50 Hz
Voltage	24 V DC
Protection mode	IP 30
Ambient temperature	-20°C to +60°C
Compressive load	1500 N
Tensile force	1500 N
Torque loading (static)	200 Nm

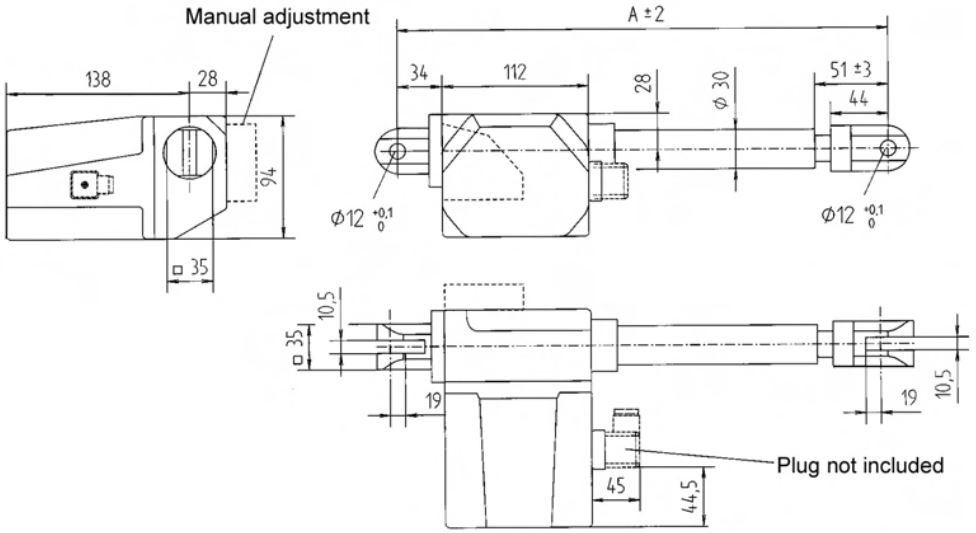
Duty cycle

The lifting columns are not designed for continuous operations. The max. duty cycle may not exceed 15% (1.5 min. operating time, 8.5 min. rest time).

Code Number	Type	Travel	Installed Height	A	Lifting Speed	Compressive/Tensile Load*	Weight kg
qpm13c480300	RK PowerLift M13 “med”	300	510	473	13 mm/s	1500 N	~12.0
qpm13ec480400	RK PowerLift M13 “med”	400	610	573	13 mm/s	1500 N	~13.5
qpm13ec480500	RK PowerLift M13 “med”	500	710	673	13 mm/s	1500 N	~15.0

Code Number	Type
qst44c01ac100	Transformer control MultiControl mono “med tech”

Lambda Electric Cylinder



Travel [mm]	100	150	200	250	300	400	500	600
Assembly dimension A[mm]	Travel + 175					Travel + 225		

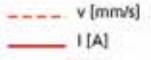
Technical Data:

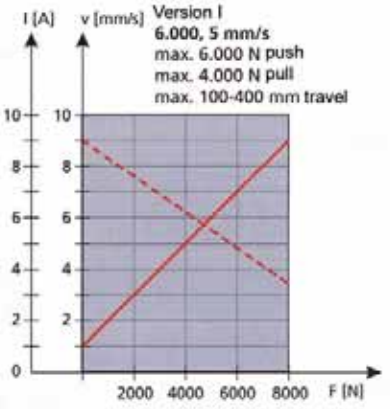
Voltage	24 V DC
Protection Mode:	IP 66
Ambient Temperature:	-20°C to +60°C

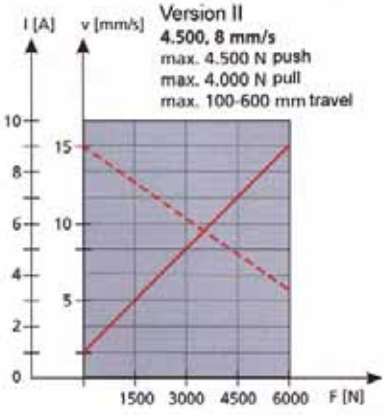
Uninterupted Operation
Should not exceed 10% at nominal load (max. 2 min. operation period, 18 min. rest period).

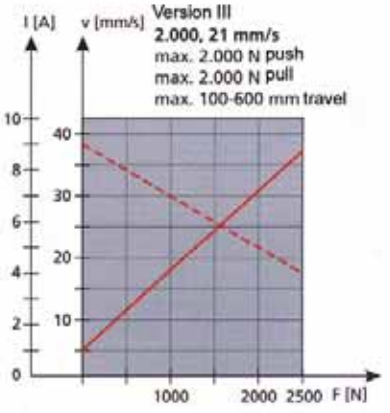
Ratio:
Lifting power-Lifting speed-Current consumption

Overdriving
Depending on load and speed.









Lambda Electric Cylinder

Code Number	Type	Version	Travel Length	Lifting Speed	Compressive/Tensile Load*	Weight kg
qkk05bc030100	LBM 1	Without Potentiometer*	100 mm			2.3
qkk05bc010100	LBM 1.3	Without Potentiometer	100 mm			2.3
qkk05bc020100	LBM 1.11	With PotentionmeterΩ	100 mm			2.3
qkk05bx030150	LBM 2	Without Potentiometer*	150 mm			2.5
qkk05bc010150	LBM 2.1	Without Potentiometer	150 mm	Version I		2.5
qkk05bc020150	LBM 2.6	With PotentionmeterΩ	150 mm	5 mm/s		2.5
qkk05bc030200	LBM 3	Without Potentiometer*	200 mm		push	2.7
qkk05bc010200	LBM 3.6	Without Potentiometer	200 mm		6.000 N	2.7
qkk05bc020200	LBM 3.8	With PotentionmeterΩ	200 mm			2.7
qkk05bc030250	LBM 4	Without Potentiometer*	250 mm	*with anti-stall	pull	2.9
qkk05bc010250	LBM 4.1	Without Potentiometer	250 mm	protection on	4.000 N	2.9
qkk05bc020250	LBM 4.3	With PotentionmeterΩ	250 mm	pull		2.9
qkk05bc030300	LBM 5	Without Potentiometer*	300 mm	(100-300 N)		3.1
qkk05bc010300	LBM 5.1	Without Potentiometer	300 mm			3.1
qkk05bc020300	LBM 5.7	With PotentionmeterΩ	300 mm			3.1
qkk05bc030400	LBM 6	Without Potentiometer*	400 mm			3.5
qkk05bc010400	LBM 6.2	Without Potentiometer	400 mm			3.5
qkk05bc020400	LBM 6.3	With PotentionmeterΩ	400 mm			3.5
qkk08bb030100	LBM 11	Without Potentiometer*	100 mm			2.3
qkk08bb010100	LBM 11.4	Without Potentiometer	100 mm			2.3
qkk08bb020100	LBM 11.31	With PotentionmeterΩ	100 mm			2.3
qkk08bb030150	LBM 12	Without Potentiometer*	150 mm			2.5
qkk08bb010150	LBM 12.11	Without Potentiometer	150 mm	Version II		2.5
qkk08bb020150	LBM 12.10	With PotentionmeterΩ	150 mm	8 mm/s		2.5
qkk08bb030200	LBM 13	Without Potentiometer*	200 mm		push	2.7
qkk08bb010200	LBM 13.3	Without Potentiometer	200 mm		4.500 N	2.7
qkk08bb020200	LBM 13.38	With PotentionmeterΩ	200 mm			2.7
qkk08bb030250	LBM 14	Without Potentiometer*	250 mm	*with anti-stall	pull	2.9
qkk08bb010250	LBM 14.1	Without Potentiometer	250 mm	protection on	4.000 N	2.9
qkk08bb020250	LBM 14.3	With PotentionmeterΩ	250 mm	pull		2.9
qkk08bb030300	LBM 15	Without Potentiometer*	300 mm	(60-220 N)		3.1
qkk08bb010300	LBM 15.1	Without Potentiometer	300 mm			3.1
qkk08bb020300	LBM 15.7	With PotentionmeterΩ	300 mm			3.1
qkk08bb030400	LBM 16	Without Potentiometer*	400 mm			3.5
qkk08bb010400	LBM 16.1	Without Potentiometer	400 mm			3.5
qkk08bb020400	LBM 16.2	With PotentionmeterΩ	400 mm			3.5
qkk08bb030500	LBM 17	Without Potentiometer*	500 mm			3.9
qkk08bb010500	LBM 17.1	Without Potentiometer	500 mm			3.9
qkk08bb030600	LBM 18	Without Potentiometer*	600 mm			4.3
qkk08bb010600	LBM 18.1	Without Potentiometer	600 mm			4.3
qkk08bb020600	LBM 18.3	With PotentionmeterΩ	600 mm			4.3
qkk21ba030100	LBM 21	Without Potentiometer*	100 mm			2.3
qkk21ba010100	LBM 21.4	Without Potentiometer	100 mm			2.3
qkk21ba020100	LBM 21.18	With PotentionmeterΩ	100 mm			2.3
qkk21ba030150	LBM 22	Without Potentiometer*	150 mm			2.5
qkk21ba010150	LBM 22.6	Without Potentiometer	150 mm	Version III		2.5
qkk21ba030200	LBM 23	Without Potentionmeter*	200 mm	21 mm/s		2.7
qkk21ba020200	LBM 23.14	With PotentionmeterΩ	200 mm		push	2.7
qkk21ba010200	LBM 23.2	Without Potentiometer	200 mm		2.000 N	2.7
qkk21ba030250	LBM 24	Without Potentiometer*	250 mm			2.9
qkk21ba010250	LBM 24.2	Without Potentionmeter	250 mm	*with anti-stall	pull	2.9
qkk21ba030300	LBM 25	Without Potentiometer*	300 mm	protection on	2.000 N	3.1
qkk21ba010300	LBM 25.1	Without Potentiometer	300 mm	pull		3.1
qkk21ba030400	LBM 26	Without Potentionmeter*	400 mm	(20-80 N)		3.5
qkk21ba010400	LBM 26.1	Without Potentionmeter	400 mm			3.5
qkk21ba020400	LBM 26.6	With PotentionmeterΩ	400 mm			3.5
qkk21ba030500	LBM 27	Without Potentionmeter*	500 mm			3.9
qkk21ba010500	LBM 27.2	Without Potentionmeter	500 mm			3.9
qkk21ba030600	LBM 28	Without Potentionmeter*	600 mm			4.3
qkk21ba010600	LBM 28.1	Without Potentionmeter	600 mm			4.3
qkk21ba020600	LBM 28.4	With PotentionmeterΩ	600 mm			4.3

Positioning Controls


Transformer Control 120 VA
ca. 24 V DC


MultiControl Control 120 VA
ca. 24 V DC


Transformer Control
Illustration 1


Transformer Control
Illustration 2


Transformer Control
Illustration 3


Synchronized Control
Illustration 4


Synchronized Control
Illustration 5

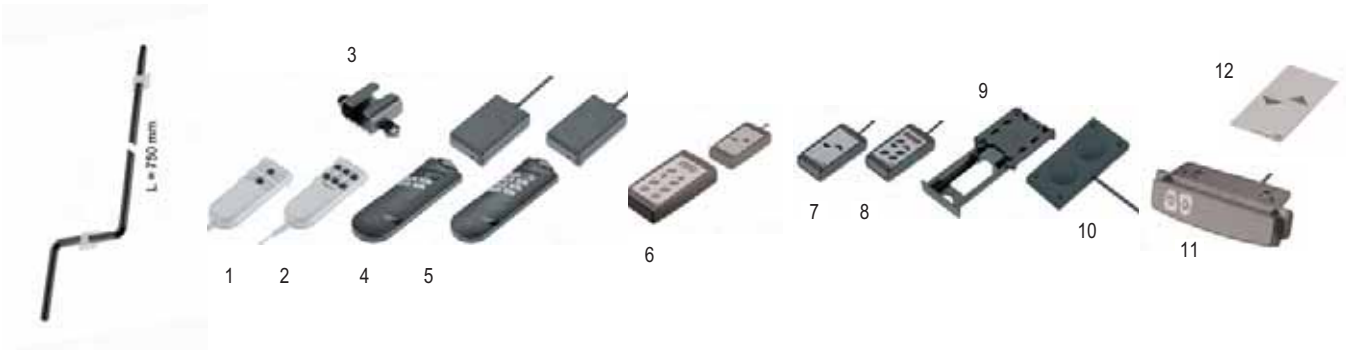

Synchronized Control
Illustration 6

Code Number	Version	Controls	III
Transformer Control			
qza07c13bq021	Transformer 120 VA, up to max. 1.500 N, 3A current consumption with 10% duty cycle	up to 2 drives	
qst61x01aa000	MultiControl mono., up to max. 10 A current consumption/5.000 N with 20% d.c., 24/36 V DC	up to 2 drives	
qza09c13bh031	Transformer 120 VA, max. lifting force up to 1.000 N	up to 1 column	
qst20c01aa000	MultiControl mono., up to max 2.000 N, 10 A consumption with 20% d.c. 27/36 V DC	up to 2 columns	1
qza07c13ax021	Transformer control ML 120 VA, up to max. 3 A current consumption/3000 N with 10% duty cycle	up to 2 drives	2
qst10c01aa000	MultiControl mono., up to max.10 A current consumption/6.000 N with 20% d.c., 24/36 V DC	up to 2 drives	3
qza01c04ad011	Transformer control LBM/LBC 1	controls 1 column	1
aza01c04ae011	Transformer control LBM/LBC 2	controls up to 2 columns	2
qza01c04af011	Transformer control LBM/LBC 3	controls up to 3 columns	3
Synchronized Control			
qst20c02aa000	MultiControl duo, up to max. 2.000 N, 12 A consumption with 20% duty cycle	1-2 synchronous columns	
qst20c04aa000	MultiControl quadro, up to max. 2.000 N, 12 A consumption with 20% duty cycle	3-4 synchronous columns	
qst10c02aa000	MultiControl duo, up to max. 12 A current consumption/6.000 N with 20% duty cycle	1-2 synchronous drives	
qst10c04aa000	MultiControl quadro, max. 12 a current consumption/6.000 N with 20% duty cycle	2-3 synchronous drives	1
qst61c02aa000	MultiControl duo, up to max. 12 a current consumption/6.000 N with 20% duty cycle	1-2 synchronous drives	2
qst61c04aa000	MultiControl quadro, up to max. 12 A current consumption/6.000 N with 20% duty cycle	3-4 synchronous drives	3
qza03c01ag011	Synchronized control LBM/LBS 2	2 synchronous columns	4
qza03x01ah011	Synchronized control LBM/LBS 2+1	up to 3 columns, 2 synchronous + 1 drive separately operated	5
qst81c02aa000	MultiControl duo, up to max. 12 A current consumption with 20% duty cycle	1-2 synchronous drives	6

PLC Data Interface

Code Number	Type
qzd100108	PLC-/PC data interface
qzd100110	Wall strap for assembly in a switching cabinet

Hand Switch/Crank Handle



Code Number	Version	Controls	III
Hand Switch Transformer Control			
qzb02c03ad031	Hand switch with 1 m helix cable - 6 function keys	controls 2 drives, separate or joint	2
qzb02c03ab011	Infrared remote control - 2 function keys	controls up to 2 drives simultaneously	4
qzb02c03ad011	Infrared remote control - 6 function keys	controls 2 drives, separate or joint	5
Hand Switch for Transformer or Synchronized Control			
qzb02c03ab031	Hand switch with 1m helix cable - 2 function keys	controls 2 drives, simultaenously	1
qzb00d04ab041	Hand switch with 1m helix cable - 2 function keys	controls several drives	7
qzb02a03ab041	Undercover hand switch with angular plug	controls 1 drive with a 120 VA transformer control	10
qzb07d01ax051	Undercover hand switch with straight plug	controls up to 2 drives with a 160 VA transformer control	10
qzb00a00ab051	Table hand switch with1 m cable - 2 function keys	controls up to 2 columns simultaneously	11
qzb00a00bc011	Plastic foil keypad with 1m helix cable - 2 function keys	controls up to 2 columns simultaneously	12
Hand Switch for Synchronized Control			
qzb00d04ad041	Hand switch with 1m helix cable - 6 function keys	several drives synchronously controllable	8
qzd070305	Remore control - 8 function keys, range 15m	posiiton indicated on LED display	6
Accessories for Hand Switch with Helix Cable			
qzd000072	Support for hand switch		3
qzd000074	Drawer for hand switch		9
Crank Handle and Transmission Shaft for Manual RK SlimLift, Manual RK MultiLift and Manual RK PowerLift			
qzd1000810750	Crank handle, Ø 10 mm, L = 750 mm	Total length 850 mm, including 2 support clips	1
qzd1201751448	Transmission shaft, L 1448 mm	The length suits the table top frame dimension	-
qzd0201712000	Transmission shaft, L = 2000 mm	Can be reduced if necessary	-
Hand Switch for RK PowerLift Manual Version			
qzb00d04ab041	Hand switch with 1m helix cable - 2 function keys	Controls 1 actuator	7
qzb07d01ax051	Undercover hand switch with straight plug	Controls 1 actuator	10
Hand Switch for Mempory or Synchronized Control for RK PowerLift Manual Version			
qzb00d04ad041	Hand switch with 1m helix cable - 6 function keys	Controls 1 actuator, position indicated on LED display	6

RK ROSE+KRIEGER

Credit Application

30 day credit limit requested $ _____

Company Name _____ Phone _____

Street Address _____ City _____ State _____ Zip _____

Fax Number _____ Are you incorporated? _____

Where _____ When _____

Tax Exemption Number: _____ Please provide Tax Exemption Certificate with Application

PRINCIPAL OFFICERS

Name _____ Title _____

Name _____ Title _____

BANK REFERENCES

Bank Name _____ Account No. _____ Phone _____

Bank Name _____ Account No. _____ Phone _____

Bank Name _____ Account No. _____ Phone _____

SUPPLIER REFERENCES

Name _____ Phone _____ Fax _____

Address _____ City _____ State _____ Zip _____

Name _____ Phone _____ Fax _____

Address _____ City _____ State _____ Zip _____

Name _____ Phone _____ Fax _____

Address _____ City _____ State _____ Zip _____

TERMS AND APPLICATION FOR CREDIT: We hereby agree that RK Rose+Krieger terms are Net 30 days from the date of invoice, with interest charge at 1½ percent per month on all accounts past due.

Signature*: _____

Authorized By _____ Title _____ Date _____

DO NOT WRITE BELOW THIS LINE

* It is understood that by signing the RK Rose+Krieger Credit Application you, the customer, agree to RK Rose+Krieger's Net 30 credit terms, including a 1½% late finance charge per month for any overdue balance. By signing this document, you also agree to give RK Rose+Krieger permission to investigate your credit worthiness through trade references and credit bureau research.

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