

Linear Actuator KA30

Data Sheet



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Introduction



The KA30 is a durable actuator with a low noise level at a powerful lifting capacity (up to 8,000 N). It is available in an extensive range of push loads from 1,500 N to 8,000 N and is suitable for a variety of healthcare applications such as beds and couches.

The KA30 has a smooth and compact design that makes it easy to clean and to fit in most healthcare applications. It is rated at IPX6 and is equipped with fixed cables, either coiled or straight and optional cable with female socket.

Features and options

Load in push:	<1,500 N, 1,500 N, 2,500 N (fast motor E only), 3,000 N, 3,500 N 4,000 N, 6,000 N, 8,000 N (large motor D only)
Load in pull:	4,000 N, Spline not available in pull (static or dynamic)
Dynamic push and pull:	Actuators are designed for push or pull applications. If a combination is required, please contact your local LINAK salesperson.
Housing colour:	Light grey, RAL 7035
Protection class:	IPX4 and IPX6
Motor:	Small B version Small H version with increased self-lock Standard C version Fast E version (for 2,500 N and 4,000 N) Fast F version (for 6,000 N) Large D version (8,000 N)
Stroke length:	<1500 N: 40 - 605 mm (in steps of 5 mm) 1500 N: 40 - 405 mm (in steps of 5 mm) 2,500 N fast motor: 40-405 mm (in steps of 5 mm) 4,000 N: 40-305 mm (in steps of 5 mm) 3,500 N: 40-305 mm (in steps of 5 mm) 4,000 N: 40-250 mm (in steps of 5 mm) 6,000 N: 40-200 mm (in steps of 5 mm) 8,000 N (8,000 N-5,500 N): 40-250 mm (in steps of 5 mm, 8,000 N available in 0~50 mm)
Built-in dimensions:	Function of stroke length (SL) and configuration SL + 180 mm (available for QR version) SL + 193 mm (available for QR version with 'piston rod end' = H) SL + 170 mm (available for other variants) SL + 183 mm (available for other variants with 'piston rod end' = H)
Quick release:	Internal, only for KA30 standard versions
Noise level:	≤50 dB (A)
Nut:	Guided spindle nut
Safety nut:	Standard



Spline:	Mechanical spline (not available for 8,000 N version) Mechanical spline + safety nut (not available for 8,000 N version) Ratchet spline (only available for QR version) Ratchet spline + safety nut (only available for QR version) Required activation force during inward travel: 20-280 N Force required to manually activate spline (actuator not in operation): static pull force 200-700 N
End stop:	Power switch, signal switch, signal switch encoded
Built-in end stop switches:	Mechanical (for safety only)
Cable:	Fixed cable with 6-PIN Mini-Fit angled/straight plug Fixed cable with 6-PIN Mini-Fit extension plug
Safety factor:	2.0 (bed applications and QR only) 2.5 (medical applications)
Weight:	>1.5 kg (dependent on specification)
Static bending moment:	No side load allowed
Feedback:	None Dual Hall, digital Dual Hall, encoded

Usage

Duty cycle:	10%, 2 minutes continuous use followed by 18 minutes not in use
Operation temperature:	+5 °C to +40 °C
Storage temperature:	-10 °C to +50 °C
Compatibility:	Compatible with LINAK control boxes. Please contact LINAK for questions on product compatibility.
Relative humidity:	20% to 80% – non-condensing
Atmospheric pressure:	700 to 1060 hPa
Height above sea level:	Max. 3000 meters
Flammability rating:	UL94V-2
Approvals:	IEC60601-1 ANSI/AAMI ES60601-1 CAN/CSA-22.2 No 60601-1



Ordering example

Actuator Type:	KA	30	=	KA30																									
Spindle Pitch:	040	030	=	3 mm	Available for 6,000 N & 8,000 N & 4,000 N pull & 4,000 N fast motor Available for 4,000 N & 6,000 N & 6,000 N fast motor & 2,500 N fast motor Available for 3,500 N Available for 3,000 N Available for <=1,500 N																								
		040	=	4 mm																									
		050	=	5 mm																									
		060	=	6 mm																									
		090	=	9 mm																									
Stroke Length:	200	xxx	=	mm	<1,500 N: From 40-605 mm in steps of 5 mm 1,500 N: From 40-405 mm in steps of 5 mm 2,500 N: From 40-350 mm in steps of 5 mm 3,000 N: From 40-305 mm in steps of 5 mm 4,000 N: From 40-250 mm in steps of 5 mm 6,000 N: From 40-200 mm in steps of 5 mm 8,000 N: 8,000-5,500 N, from 40-250 mm in steps of 5 mm																								
Safety:	0A	00	=	None	Only possible for pull versions Standard Available up to 6,000 N Available up to 8,000 N Only available for "quick release": 1 = With quick release Only available for "quick release": 1 = With quick release																								
		0A	=	Safety nut																									
		0C	=	Mech. spline																									
		0D	=	Mech. spline + safety nut																									
		0J	=	Ratchet spline																									
		OK	=	Ratchet spline + safety nut																									
Feedback:	00	00	=	None (F1)	Possible with any endstop type Only possible with endstop 0 = power switch (E1) Only possible with endstop 2 = signal switch, encoded (E3)																								
		0H	=	Dual Hall, digital (F2)																									
		0M	=	Dual Hall, encoded (F3)																									
Platform:	0	0	=	None																									
Motor Type:	C	B	=	Small 6,000 N (QR = 3,500 N)	H = Small with increased self-lock (pull) 4,000 N																								
		C	=	Standard 6,000 N	E = Fast motor 2,500 N & 4,000 N																								
		D	=	Large 8,000 N	F = Fast motor 6,000 N																								
Endstop:	1	0	=	Power switch (E1)																									
		1	=	Signal switch (E2)																									
		2	=	Encoded (E3)																									
IP Degree:	4	4	=	IPX4	6 = IPX6																								
Colour:	+	+	=	Light grey (RAL7035) housing																									
Outer Tube:	1	1	=	Anodised																									
Quick Release:	0	0	=	No quick release	1 = With quick release (only with spindle option '050')																								
Back Fixture End:	1	1	=	Plastic with slot Ø10.2	3 = Metal with slot Ø10.2 (up to SF 5.0 in pull requires metal back fixture)																								
		2	=	Plastic with slot Ø12.2	7 = With slot Ø10.2 flexible																								
Back Fixture Rot.:	1	1	=	Standard																									
		2	=	Turned 90°																									
Piston Rod End:	A	A	=	Plastic Ø10.2 (solid)																									
		B	=	Plastic Ø12.2 (solid)																									
		C	=	Steel Ø12.2 (solid)																									
		D	=	Steel Ø14.05 (solid)																									
		E	=	Steel Ø12.2 (with slot)																									
		F	=	Steel Ø10.2 (with slot)																									
		G	=	Short plastic Ø10.2 (solid)																									
Bushings:	A	A	=	No bushings	Available for option "Piston Rod End": C&E																								
		B	=	Plastic bushings with Ø10.2 hole in piston rod																									
Brake:	1	0	=	No brake (for pull versions only)	1 = Brake in push																								
Install. Dim.:	370	xxx	=	xxx mm	Min. BID=Stroke Length+180 mm Available for QR version Min. BID=Stroke Length+170 mm Available for other variants																								
Load Range:	4	0	<	1,500 N	Spindle pitch + motor type combination guide <table border="1"> <tr><td>090+B</td><td></td><td></td></tr> <tr><td>090+B</td><td></td><td></td></tr> <tr><td>050+B</td><td></td><td></td></tr> <tr><td>060+B</td><td></td><td></td></tr> <tr><td>040+B</td><td>030+H (4,000 N Pull)</td><td>030+E (4,000 N Fast M) 5% duty cycle</td></tr> <tr><td>040+B</td><td>030+H (4,000 N Pull)</td><td>040+E (2,500 N Fast M) 5% duty cycle</td></tr> <tr><td>030+B</td><td>040+C</td><td>040+F (6,000 N Fast M) 5% duty cycle</td></tr> <tr><td>030+D</td><td>(Std. 8kN - 8kN - 5.5 kN)</td><td></td></tr> </table>	090+B			090+B			050+B			060+B			040+B	030+H (4,000 N Pull)	030+E (4,000 N Fast M) 5% duty cycle	040+B	030+H (4,000 N Pull)	040+E (2,500 N Fast M) 5% duty cycle	030+B	040+C	040+F (6,000 N Fast M) 5% duty cycle	030+D	(Std. 8kN - 8kN - 5.5 kN)	
090+B																													
090+B																													
050+B																													
060+B																													
040+B	030+H (4,000 N Pull)	030+E (4,000 N Fast M) 5% duty cycle																											
040+B	030+H (4,000 N Pull)	040+E (2,500 N Fast M) 5% duty cycle																											
030+B	040+C	040+F (6,000 N Fast M) 5% duty cycle																											
030+D	(Std. 8kN - 8kN - 5.5 kN)																												
		1	=	1,500 N																									
		2	=	3,500 N																									
		3	=	3,000 N																									
		4	=	4,000 N																									
		5	=	2,500 N																									
		6	=	6,000 N																									
		8	=	8,000 N																									
Safety Factor:	0	0	=	2.0	Bed applications																								
		2	=	2.5	Medical applications																								
Cable Type:	C	A	=	Straight 460 mm, 6-pin Mini-Fit angled	K = Coiled 200 + 400 + 200 mm, 6-pin Mini-Fit straight																								
		B	=	Straight 1,250 mm, 6-pin Mini-Fit angled	L = Straight 460 mm, 6-pin Mini-Fit straight																								
		C	=	Straight 2,500 mm, 6-pin Mini-Fit angled	M = Straight 1,250 mm, 6-pin Mini-Fit straight																								
		D	=	Coiled 200 + 200 + 200 mm, 6-pin Mini-Fit angled	O = 6-pin Mini-Fit extension																								
		E	=	Coiled 200 + 400 + 200 mm, 6-pin Mini-Fit angled																									

Chosen item No.: 300402000A000C14+1011AA137040C



Technical specifications

Actuator	Motor type	Power Supply [V]	Spindle pitch [mm]	Max. push load [N]	Self-locking load [N]	Typical speed at 0/ max load [mm/s] +/-10%	Typical current at 0/max load [A]
KA30	Large (D)	24	3	8,000	8,000	4.2/2.9	0.6/4.7
KA30	Large (D)	33	3	8,000	8,000	5.8/4.6	0.6/4.8
KA30	Std. (C)	24	4	6,000	6,000	6.0/4.5	0.6/4.0
KA30	Std. (C)	33	4	6,000	6,000	8.2/6.2	0.6/4.0
KA30	Std. (C)	24	3	6,000	6,000	4.5/3.4	0.6/4.0
KA30	Std. (C)	33	3	6,000	6,000	6.2/4.7	0.6/4.0
KA30	Small (B)	24	3	6,000	6,000	4.4/2.8	0.5/3.5
KA30	Small (B)	33	3	6,000	6,000	6.1/3.9	0.5/3.5
KA30	Small (B)	24	4	4,000	4,000	5.8/4.4	0.5/3
KA30	Small (B)	33	4	4,000	4,000	8.1/6.1	0.5/3
KA30	Small (B) - QR	24	5	3,500	3,500	6.9/4.3	0.7/3
KA30	Small (B) - QR	33	5	3,500	3,500	9.6/7.2	0.7/3
KA30	Small (B)	24	5	3,500	3,500	6.9/4.3	0.7/3
KA30	Small (B)	33	5	3,500	3,500	9.6/7.2	0.7/3
KA30	Small (B)	24	6	3,000	3,000	8.7/6.9	0.5/2.5
KA30	Small (B)	33	6	3,000	3,000	12.0/9.5	0.5/2.5
KA30	Small (B)	24	9	1,500	1,500	13.0/11.0	0.8/2.8
KA30	Small (B)	33	9	1,500	1,500	18.0/15.5	0.8/2.8
KA30	Small (H)	24	3	4,000	4,000	4.4/3.3	0.5/3.5
KA30	Small (H)	33	3	4,000	4,000	6.1/4.6	0.5/3.5
KA30	Fast M (E)	24	4	2,500	2,500	13.49/11.03	0.82/3.73
KA30	Fast M (E)	33	4	2,500	2,500	20.23/16.70	1.12/3.89
KA30	Fast M (E)	24	3	4,000	4,000	10.27/7.81	0.86/4.40
KA30	Fast M (E)	33	3	4,000	4,000	15.32/11.94	1.07/4.55
KA30	Fast M (F)	24	4	6,000	6,000	6.99/4.83	0.77/4.71
KA30	Fast M (F)	33	4	6,000	6,000	10.21/7.65	0.89/4.80

See section on speed/load, current/load curves.



All dimensions are in mm.

Technical drawing of a hydraulic cylinder, showing three views: front view, side view, and end view. The drawing includes detailed dimensions for the cylinder's geometry and stroke.

Front View Dimensions:

- Overall height: 138.2 ± 1
- Mounting flange diameter: $\varnothing 10.2 \pm 0.2$
- Mounting flange thickness: 25.05
- Mounting flange hole diameter: 28 ± 0.3
- Mounting flange hole offset: 17.5
- Mounting flange hole offset: 6.5
- Stroke length: $170 + \text{stroke} \pm 2$
- Stroke length: 23 ± 1.5
- Stroke length: 25.6
- Stroke length: 34
- Stroke length: 47
- Stroke length: 28 ± 0.3

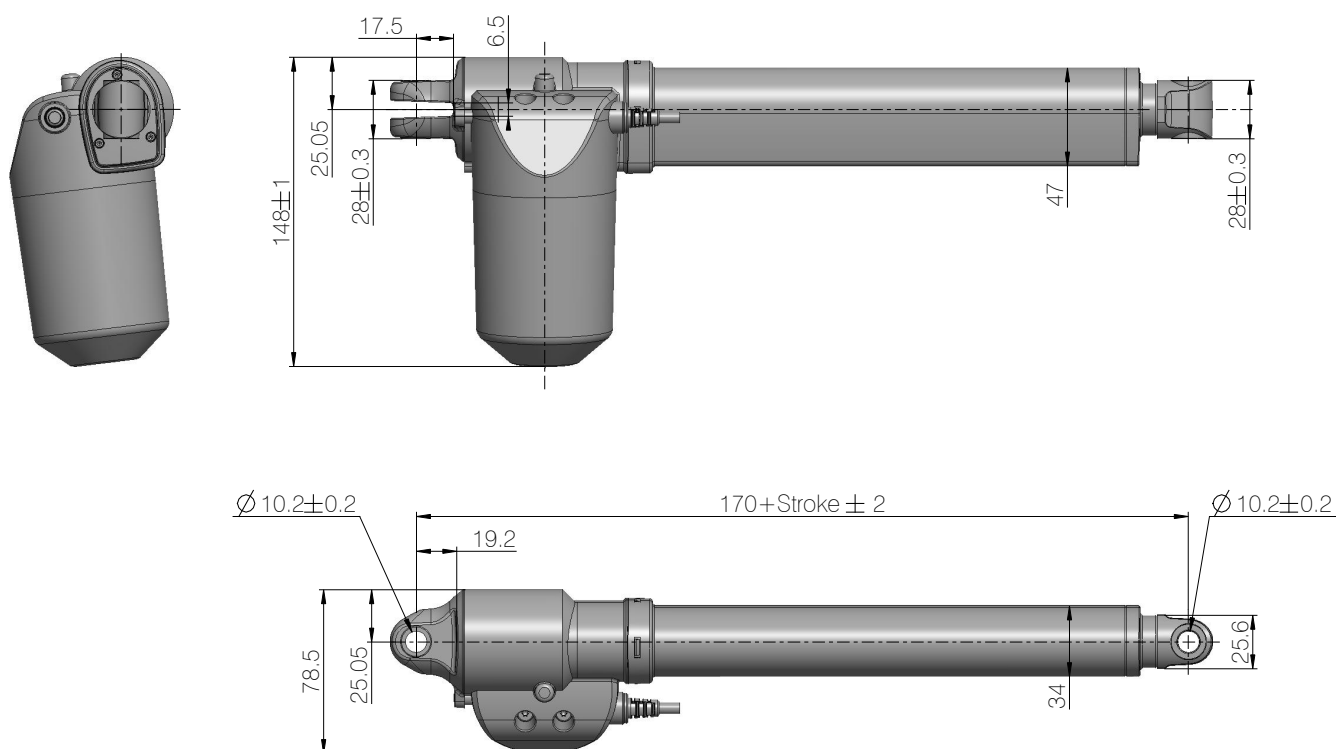
Side View Dimensions:

- Overall height: 138.2 ± 1
- Mounting flange diameter: $\varnothing 10.2 \pm 0.2$
- Mounting flange thickness: 25.05
- Mounting flange hole diameter: 28 ± 0.3
- Mounting flange hole offset: 17.5
- Mounting flange hole offset: 6.5
- Stroke length: $170 + \text{stroke} \pm 2$
- Stroke length: 23 ± 1.5
- Stroke length: 25.6
- Stroke length: 34
- Stroke length: 47
- Stroke length: 28 ± 0.3

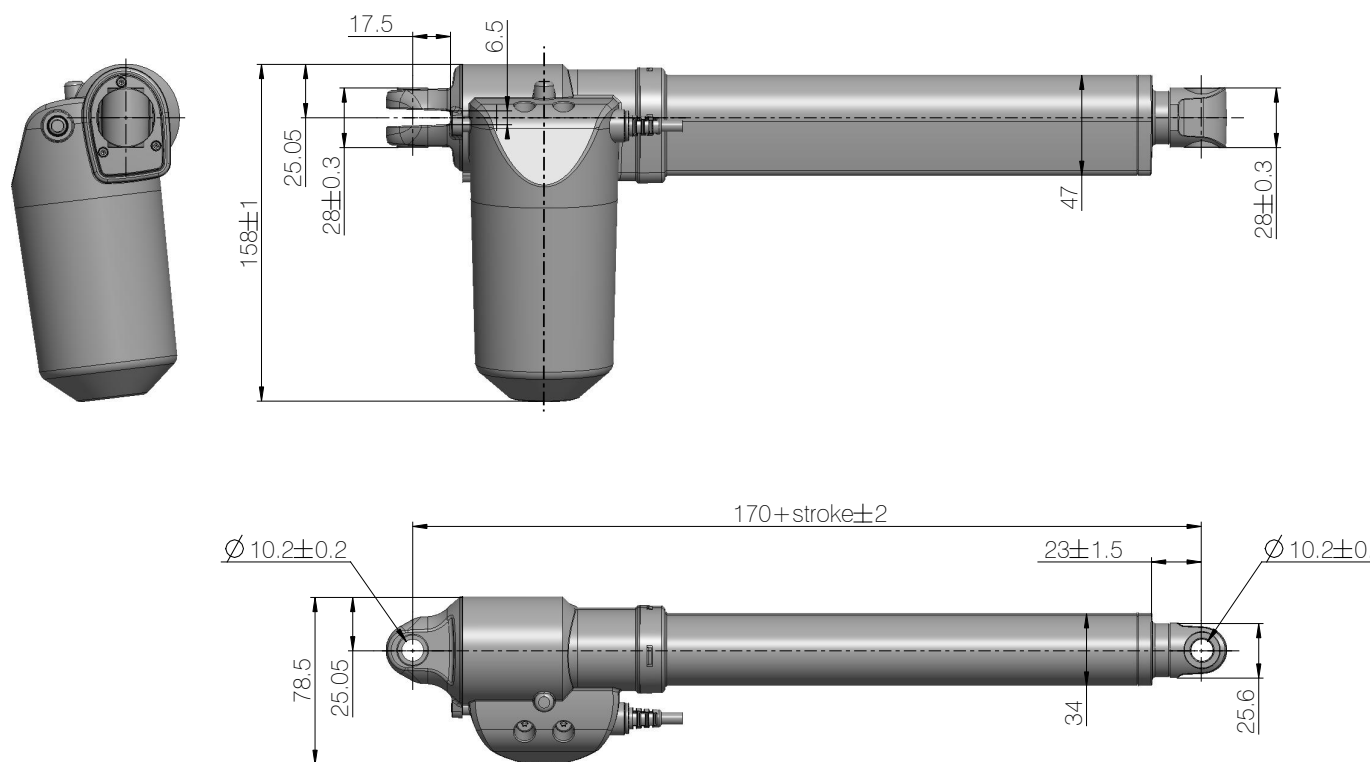
End View Dimensions:

- Overall height: 138.2 ± 1
- Mounting flange diameter: $\varnothing 10.2 \pm 0.2$
- Mounting flange thickness: 25.05
- Mounting flange hole diameter: 28 ± 0.3
- Mounting flange hole offset: 17.5
- Mounting flange hole offset: 6.5
- Stroke length: $170 + \text{stroke} \pm 2$
- Stroke length: 23 ± 1.5
- Stroke length: 25.6
- Stroke length: 34
- Stroke length: 47
- Stroke length: 28 ± 0.3

KA30 standard (C) and fast (F) motor with std. back fixture

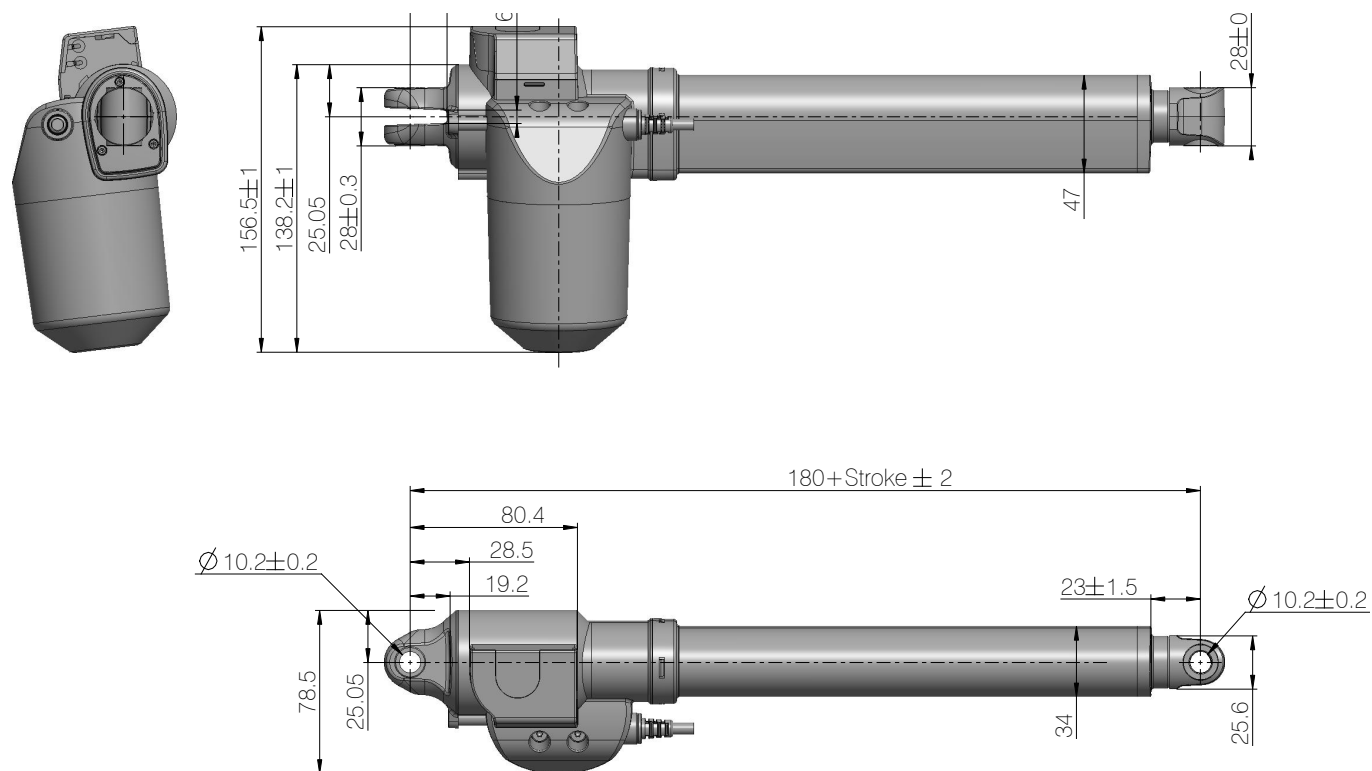


KA30 large (D) and fast (E) motor with std. back fixture



Drawing no.: 1046W4021

KA30 QR (small B motor with std. back fixture)

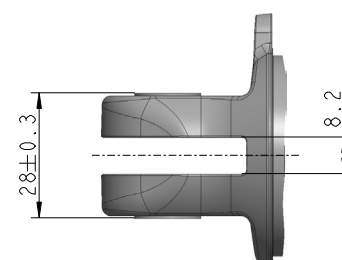
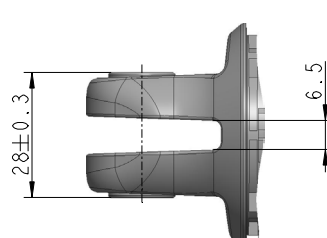
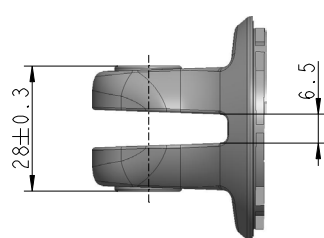
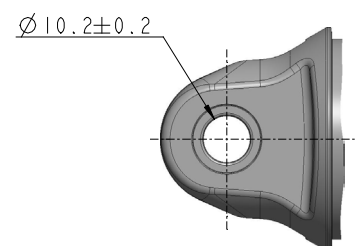
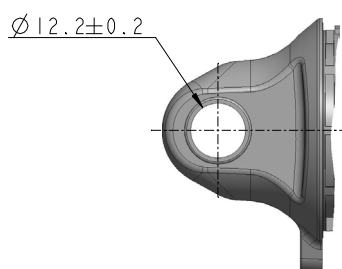
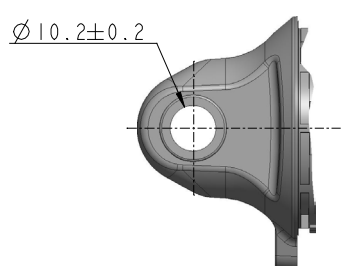


Drawing no.: 1046W4001

Details on back fixture

Load	Back fixture (for further details see ordering example)		
	End 1	End 2	End 3
≤1,500 N	OK	OK	OK
1,500 N	OK	OK	OK
2,500 N Fast	OK	OK	OK
3,000 N	OK	OK	OK
3,500 N QR	OK	OK	
3,500 N	OK	OK	OK
4,000 N	OK	OK	OK
4,000 N Fast	OK	OK	OK
6,000 N	OK	OK	OK
6,000 N Fast	OK	OK	OK
8,000 N	OK	OK	OK

Back fixture overview



1=Plastic with slot $\varnothing 10.2$

2=Plastic with slot $\varnothing 12.2$

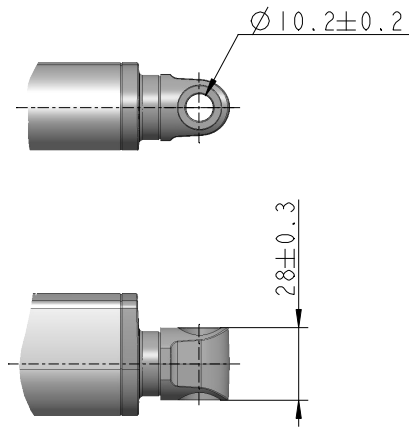
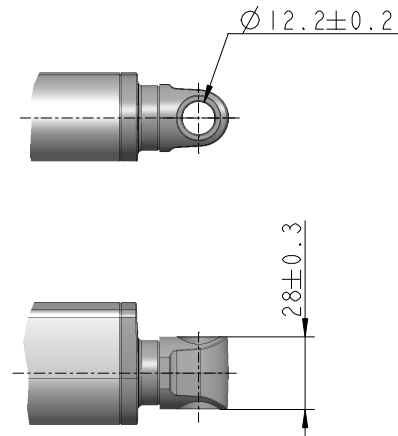
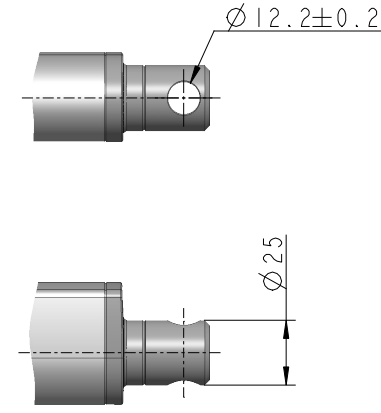
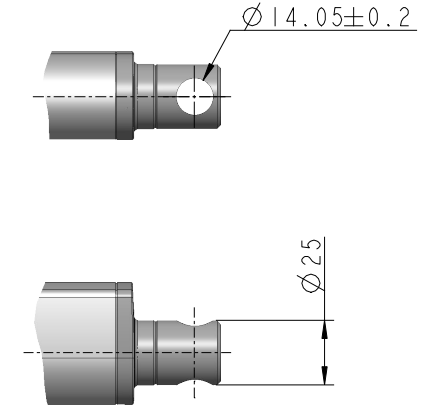
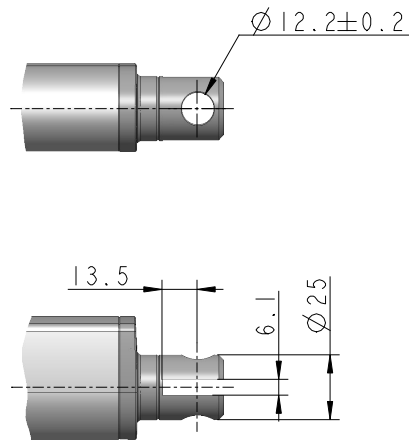
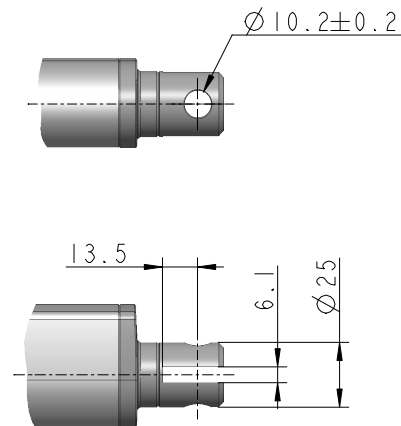
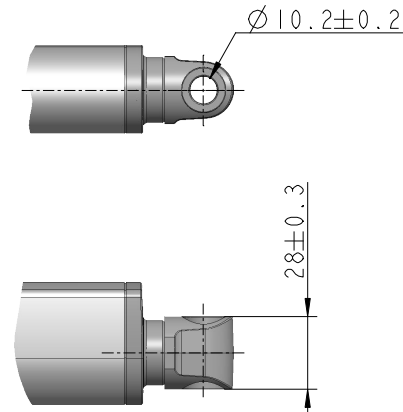
3=Metal with slot $\varnothing 10.2$

Details on piston rod eyes

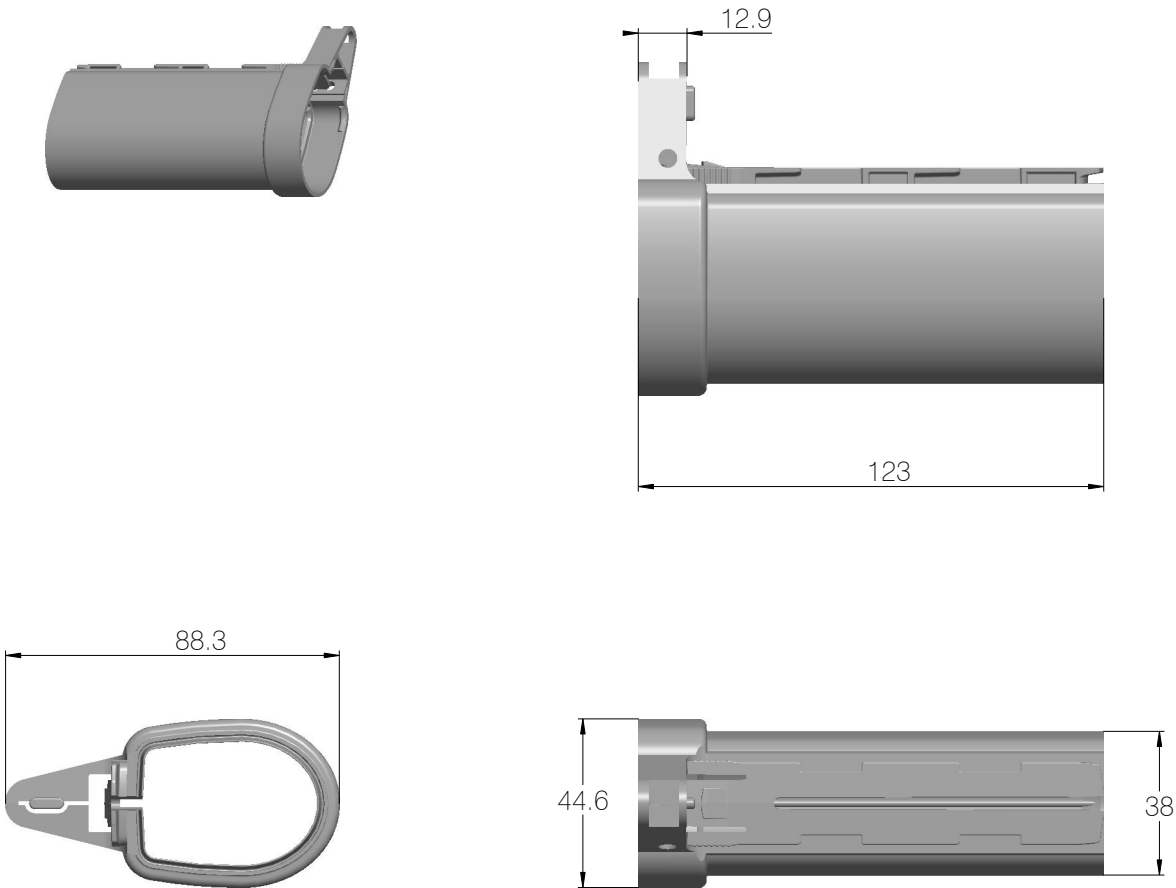
	Piston Rod End (for further details see ordering example)						
	A	B	C	D	E	F	G
≤1,500 N	OK	OK	OK	OK	OK	OK	
1,500 N	OK	OK	OK	OK	OK	OK	
2,500 N Fast	OK	OK	OK	OK	OK	OK	
3,000 N	OK	OK	OK	OK	OK	OK	
3,500 N QR	OK	OK	OK	OK	OK	OK	
3,500 N	OK	OK	OK	OK	OK	OK	
4,000 N	OK	OK	OK	OK	OK	OK	
4,000 N Fast	OK	OK	OK	OK	OK	OK	
6,000 N	OK	OK	OK	OK	OK	OK	
6,000 N Fast			OK	OK	OK	OK	OK
8,000 N			OK	OK	OK	OK	OK



Piston rod eyes

A=Plastic $\varnothing 10.2$ B=Plastic $\varnothing 12.2$ C=Metal with $\varnothing 12.2$ D=Metal with $\varnothing 14.05$ E=Metal with slot $\varnothing 12.2$ F=Metal with slot $\varnothing 10.2$ G=Short Plastic $\varnothing 10.2$

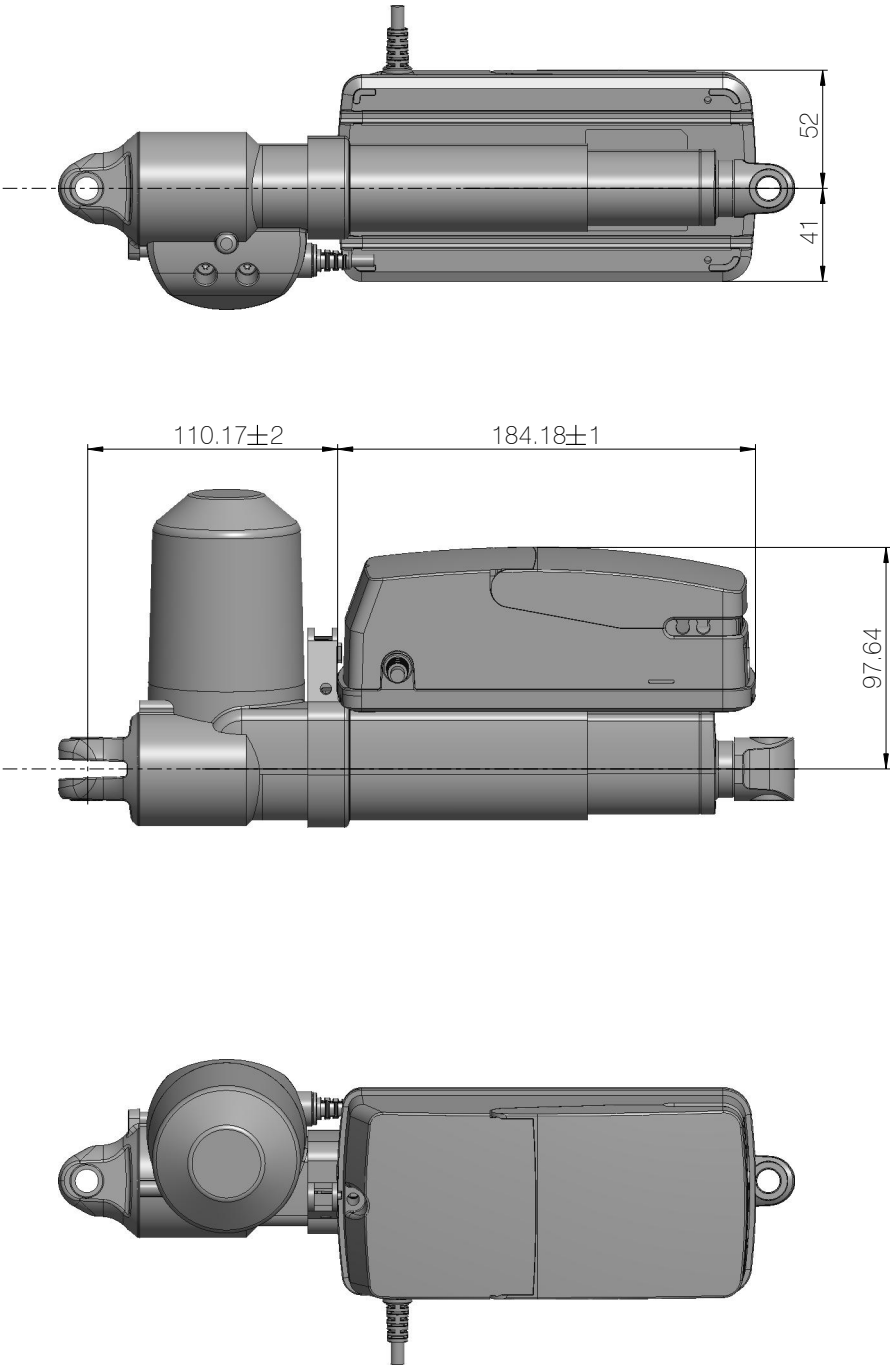
KA30 mounting bracket for control box



Drawing no.: 1015W4022



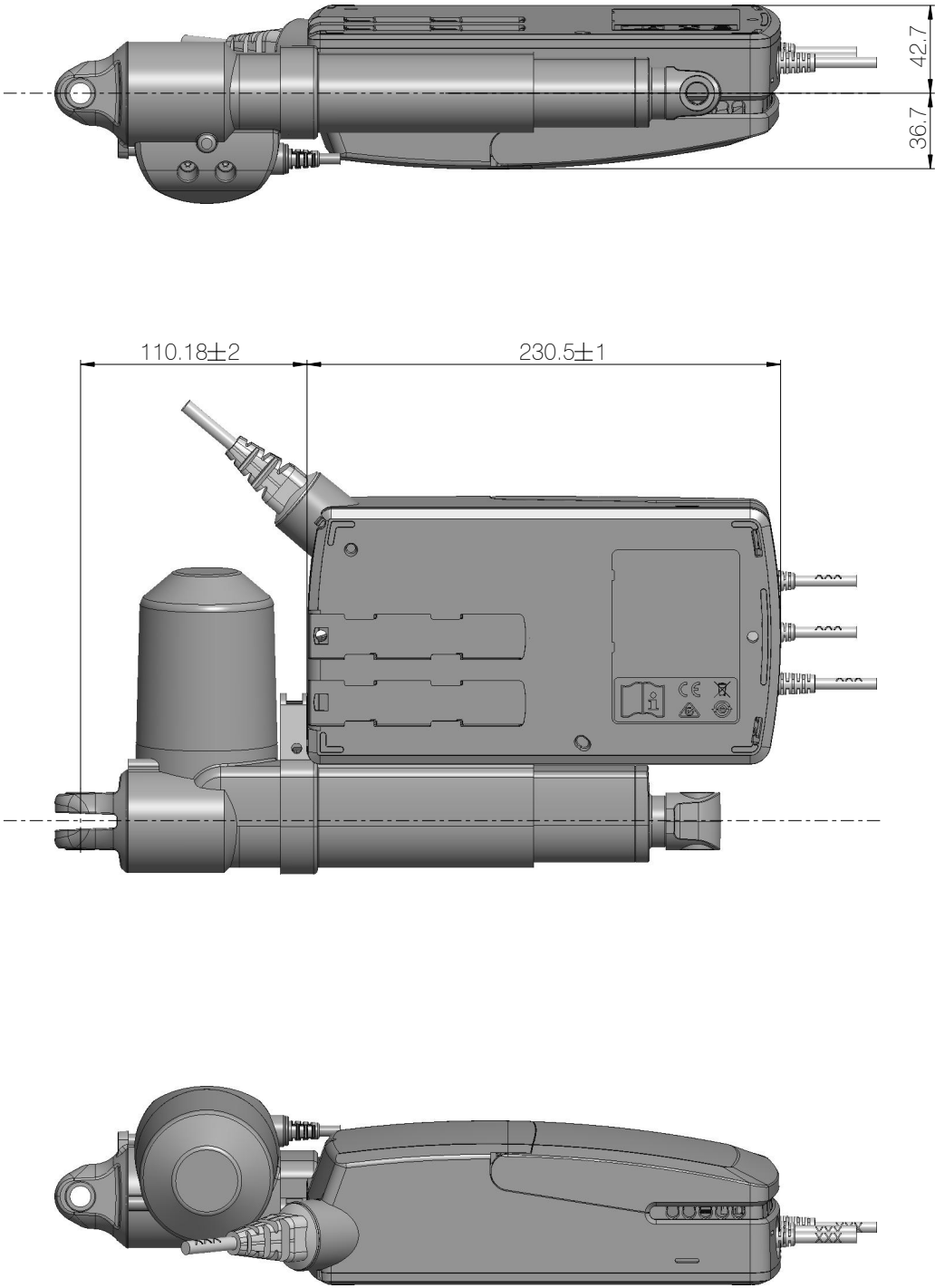
KA30 mounted with CA20 (minimum BID = 325 mm)



Drawing no.: 1046W4008



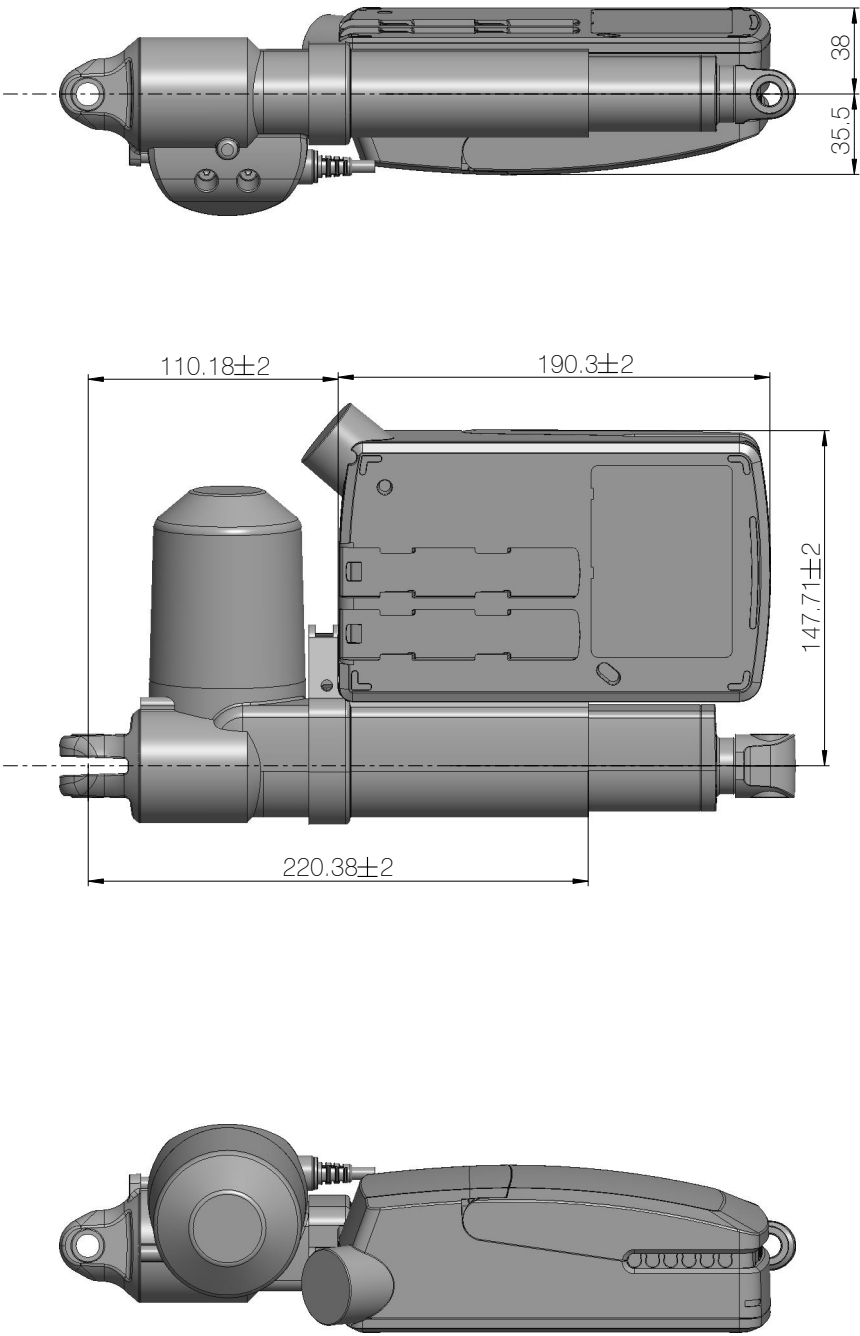
KA30 mounted with CO53 (minimum BID = 365 mm)



Drawing no.: 1046W4007



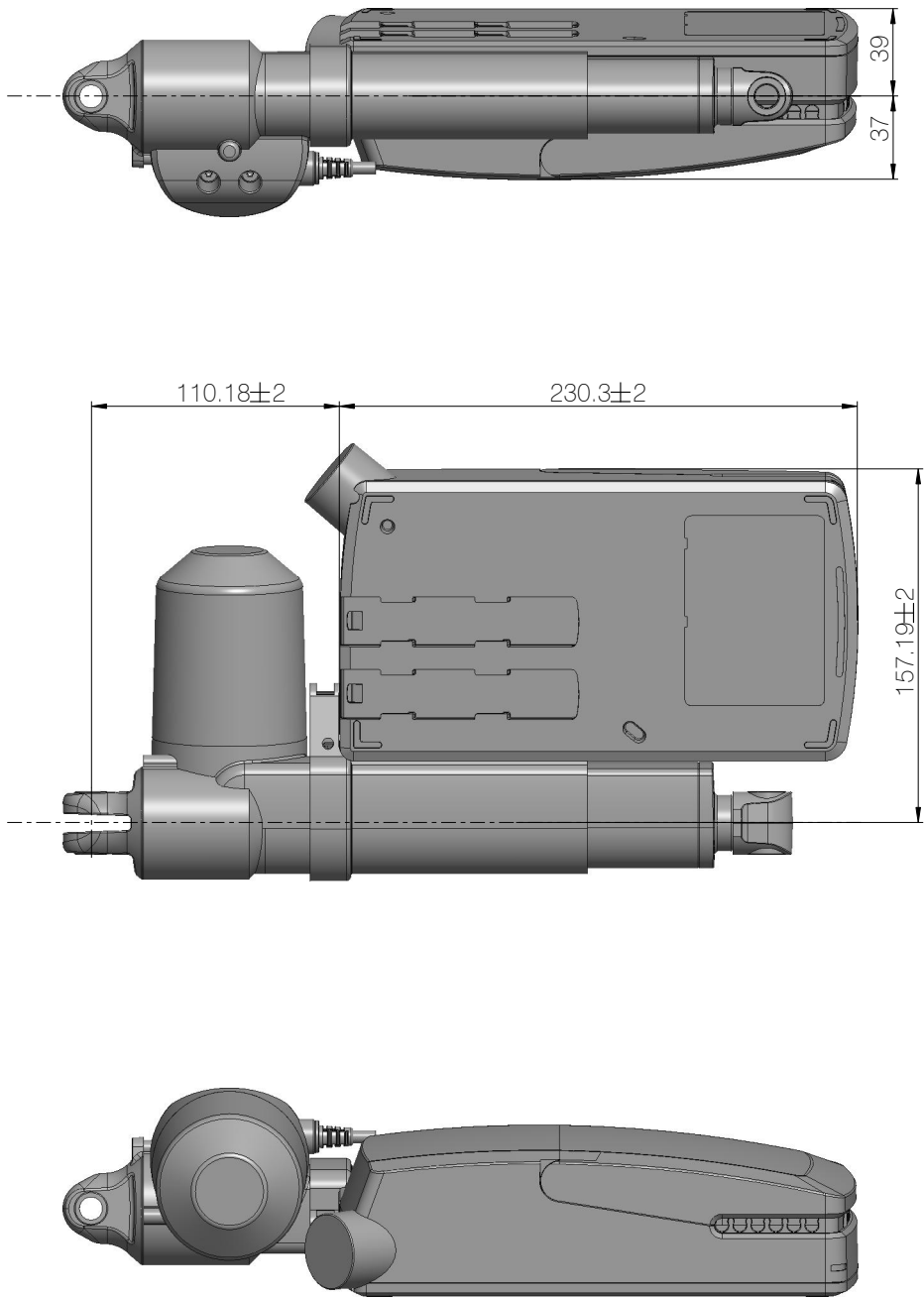
KA30 mounted with CA30-CA40 (minimum BID = 325 mm)



Drawing no.: 1046W4005



KA30 mounted with CO61/CO71 (minimum BID = 365 mm)



Drawing no.: 1046W4006



KA30 - control box combination overview

Combination	Drawing number	Minimum BID	Bracket article number
KA30/CA20	1016W4008	325 mm	1015W1011
KA30/CO53	1016W4007	365 mm	1015W1011
KA30/CA30-40	1016W4005	325 mm	1015W1011
KA30/CO61-CO71	1016W4006	365 mm	1015W1011

Back fixture orientation

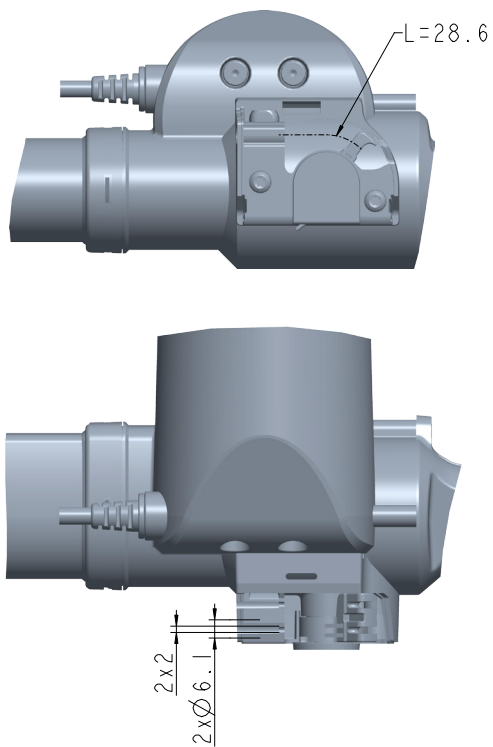
Orientation of back fixture in relation to encapsulation.

Orientation of hole: turned 90°	Orientation of hole: standard 0°
	



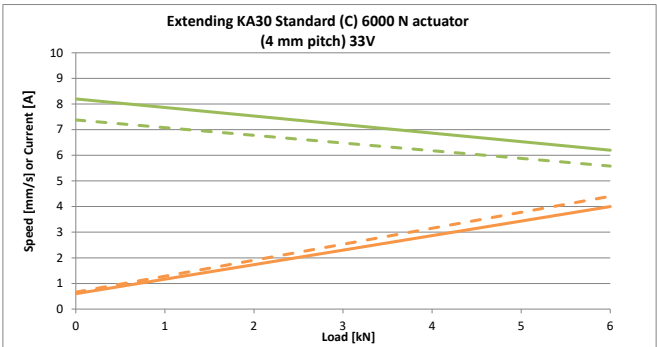
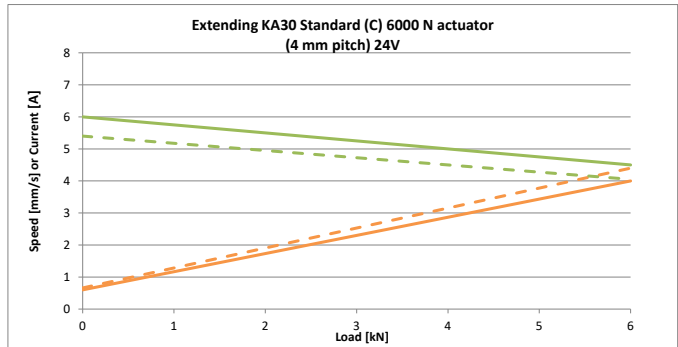
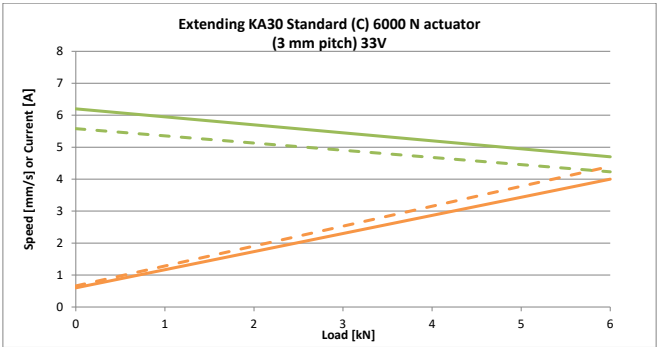
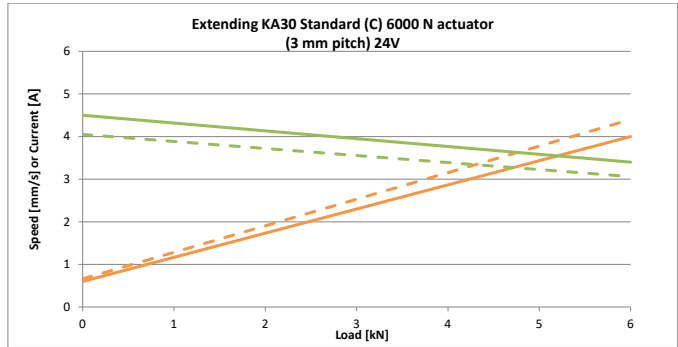
Quick release

Quick release - mechanical details

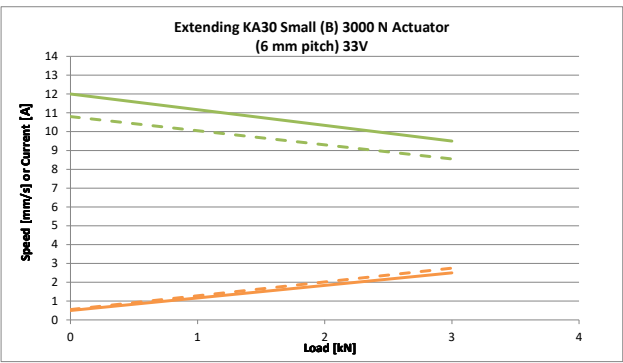
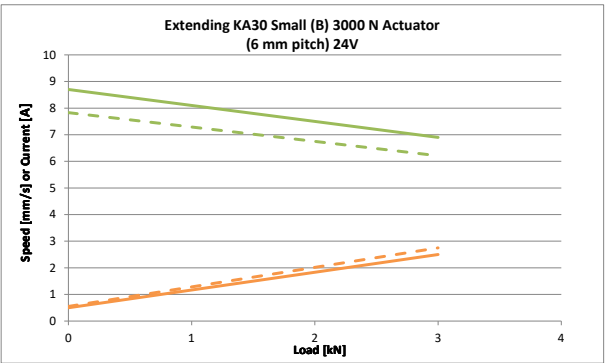
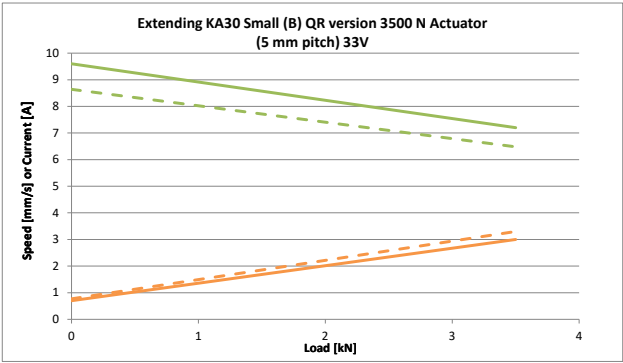
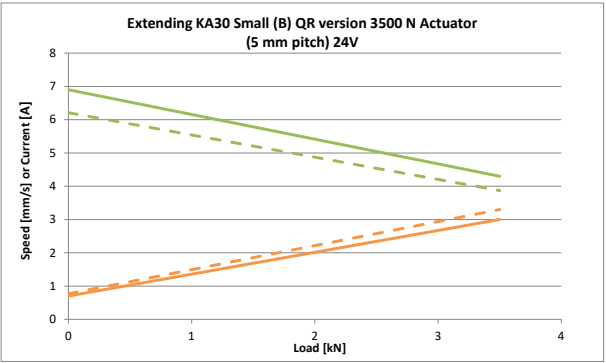
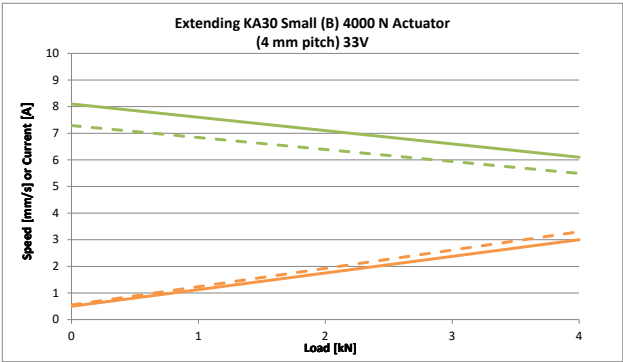
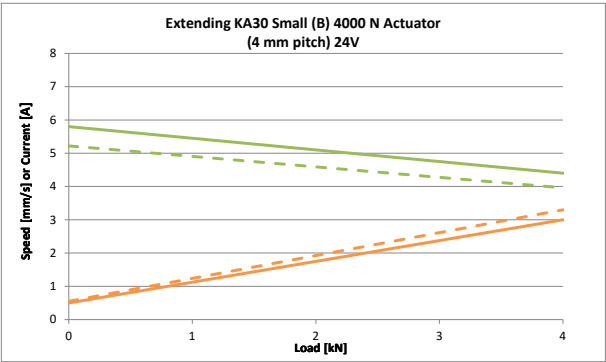
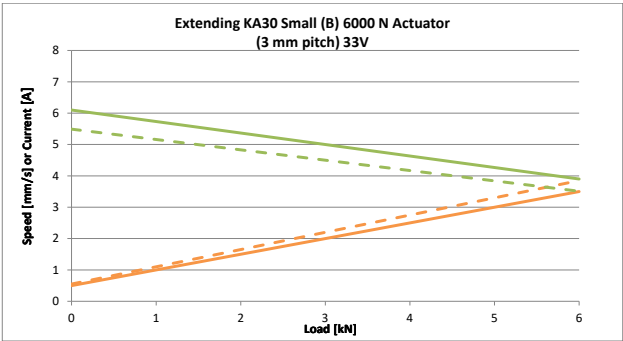
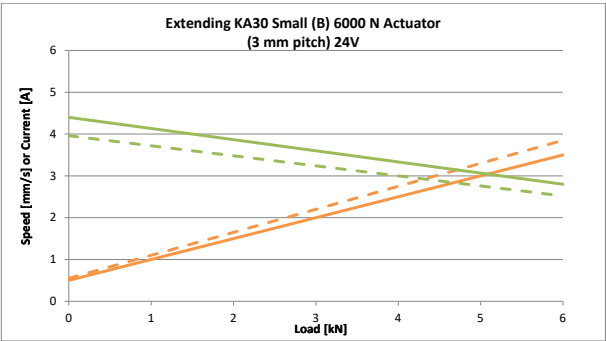
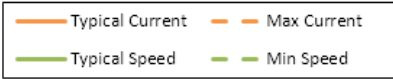


Speed and current curves

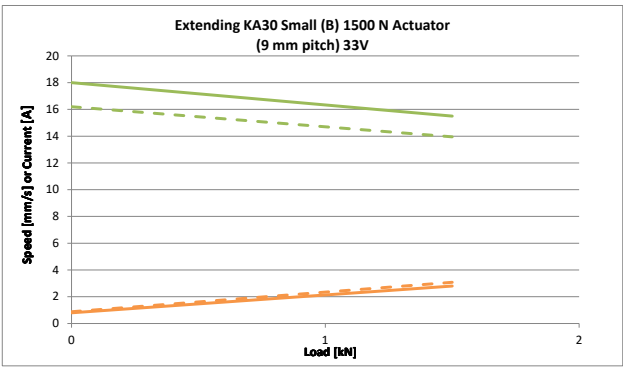
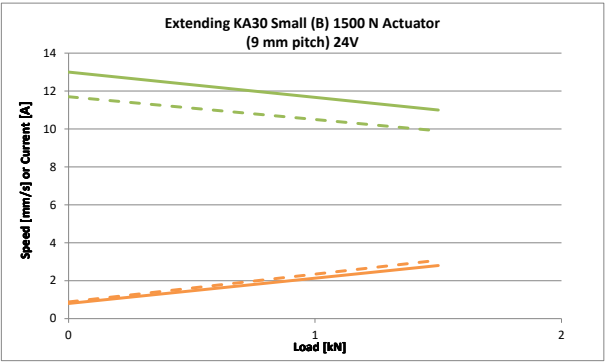
KA30 standard, motor type C (push)



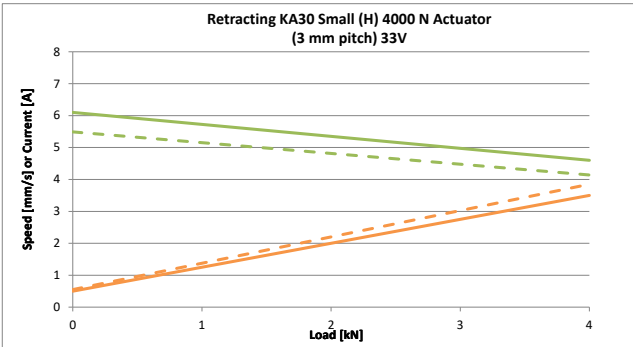
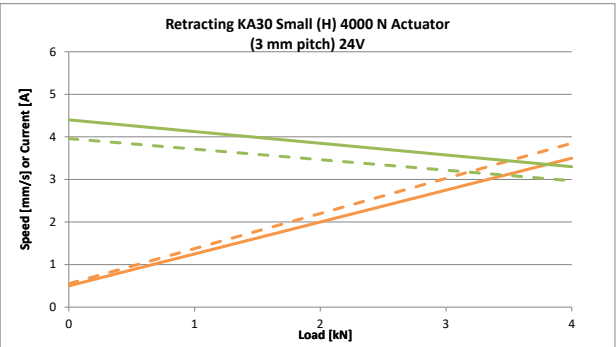
KA30 small + QR, motor type B (push)



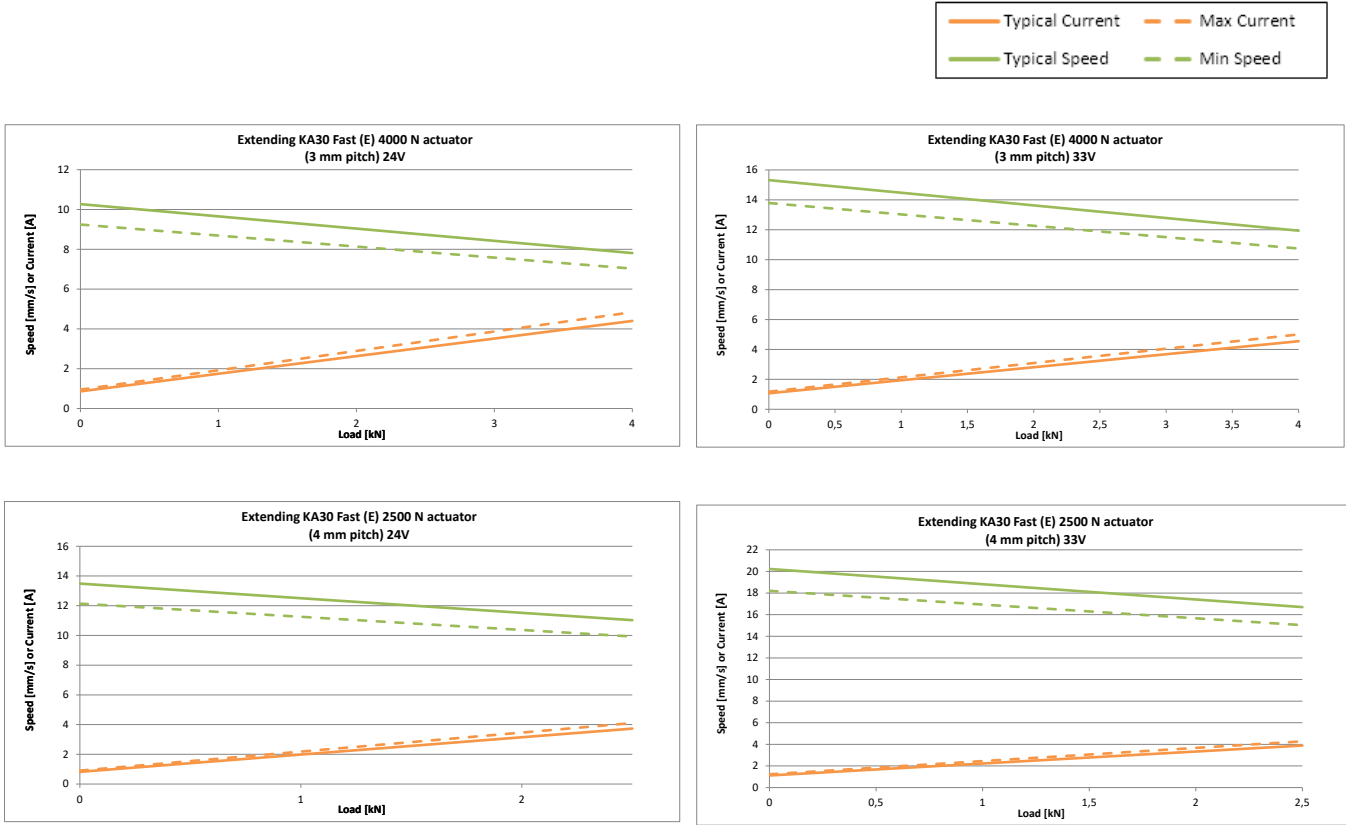
KA30 small + QR, motor type B (push)



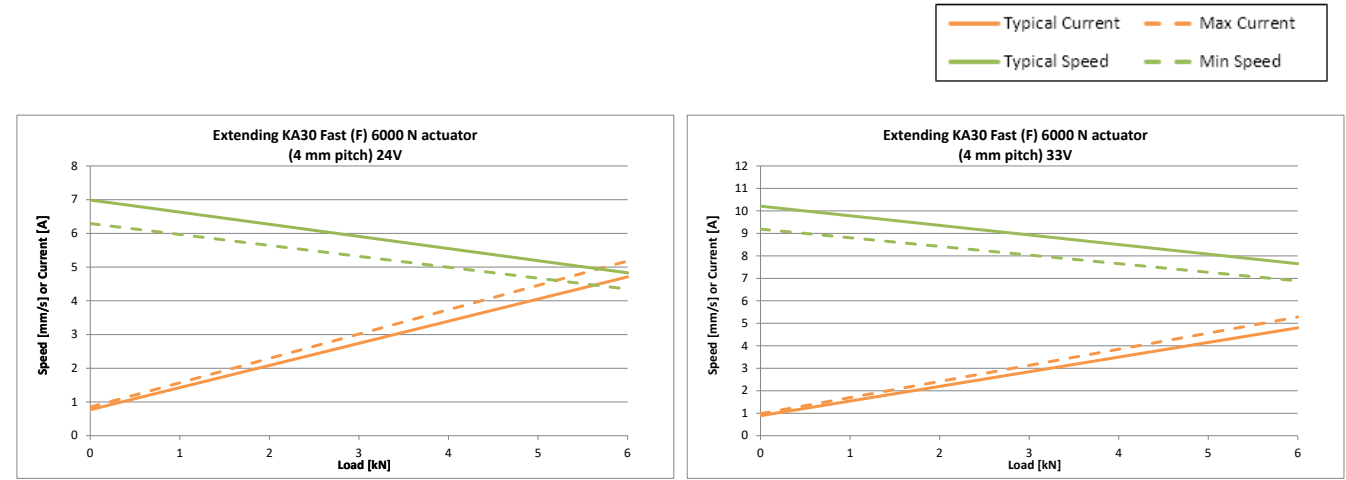
KA30 small with increased self-locking, motor type H (pull)



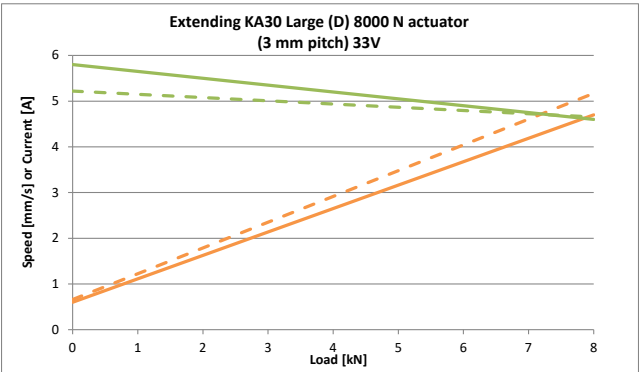
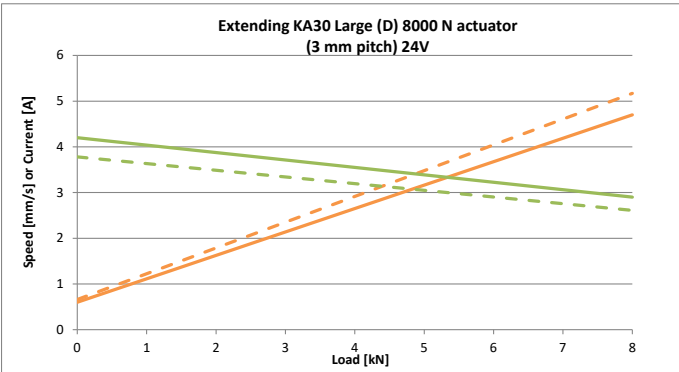
KA30 fast, motor type E (push)



KA30 fast 6,000 N, motor type F (push)



KA30 large, motor type D (push)



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