Linear Actuator KA30 Patient Lift

Data Sheet



Contents

Introduction 3
Features and options 3
Usage 4
Ordering example 5
Approvals and certifications 6
Technical specifications 7
Dimensions 8
Back fixture overview 9
Back fixture orientation 10
Piston rod eyes 11
Speed and current curves 12
Contacts 13

Introduction

The KA30 PL is a durable actuator with a low noise level at a powerful lifting capacity. It is available with a load capacity of up to 8,000 N, suitable for powerful lifting.

This actuator meets the demand for stroke lengths between 40-400 mm with a minimum built-in-dimension of 294 mm + stroke for perfect application design. This makes it suitable for a variety of lift applications for patient transfer, such as patient lifts and sit-to-stand lifts.

KA30 PL offers a smooth and compact design that makes it easy to clean, ideal for demanding healthcare environments. It is rated at IPX6 and is equipped with fixed cables, either coiled or straight.

Features and options

Load in push:	Up to 8,000 N		
	344 mm: 8,000 N: SL 40-300 mm 7,500 N: SL 300-350 mm 6,000 N: SL 350-400 mm	294 mm: 8,000 N: SL 40-300 mm 7,000 N: SL 300-350 mm 6,000 N: SL 350-400 mm	274 mm: 7,000 N: SL 0-300 mm
Housing colour:	Light grey, RAL 7035		
Protection class:	IPX6		
Motor:	Motor type P		
Stroke length:	40-400 mm in steps of 5 mm		
Built-in dimension:	Stroke +294, stroke length <= 400 mm Stroke +344, stroke length <= 400 mm Stroke +274, stroke length <= 300 mm		
Noise level:	≤50 dB (A)		
Safety nut:	Standard in push		
Spline:	Mechanical spline		
End stop:	Power switch, signal switch Signal switch, encoded		
Built-in end stop:	Mechanical (for safety only)		
Cable:	Fixed cable		
Safety factor:	2.0 (patient lift)		
Weight:	3.0 kg (stroke length = 400 mm)		
Static bending moment:	No side load allowed		
Feedback:	None		
Manual lowering:	Yes		

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 1,060 hPa
Height above sea level:	Max. 3,000 meters
Flammability rating:	UL94V-2
Approvals:	IEC60601-1 ANSI/AAMI ES60601-1 CAN/CSA-22.2 No 60601-1

Ordering example

	KA				
Actuator Type:	30	**30**	=	KA30	
Spindle Pitch:	040	**040**	=	4 mm	Available up to 8,000 N
Stroke Length:	300	**xxx**	=	mm	
Safety:	0A	**0A** **0D**	= =	Safety nut Mechanical spline + safety nut	
Feedback:	00	**00**	=	None (F1)	
Platform:	0	**0**	=	None	
Motor type:	P	**P**	=	PL motor	
End stop:	0	**0** **1**	= =	Power switch (E1) Signal switch, digital (E2)	
IP degree:	6	**6**	=	IPx6	
Colour:	+	**+**	=	Light Grey (RAL7035)	
Outer tube:	1	**1**	=	Anodised	
Not used:	0	**0**			
Back fixture end:	3	**3** **6**	= =	Metal with slot Ø10.2 (with bushings), slot width 8.2 Metal with slot Ø10.2 (with bushings), slot width 10.5	
Back fixture rot.:	1	**1** **2**	= =	Standard Turned 90°	
Piston rod end:	P	**P** **Q**	= =	PL Ø12.2 solid PL Ø12.2 with slot	
Piston rod eye end:	B	**A** **B**	= =	No bushings Plastic bushings with Ø10.2 hole in piston rod	
Brake:	1	**1**	=	Brake in push	
Install. Dim.:	594	**xxx**	=	xxx mm	BID_{min} = SL + 294 mm, BID_{min} = SL + 344 mm or BID_{min} = SL + 274 mm
Load Range:	8	**8**	=	8,000 N	
Safety Factor:	0	**0**	=	2.0	Patient lifts
Cable Type:	C	**A** = Straight 460 mm, 6-pin Mini-Fit angled **B** = Straight 1250 mm, 6-pin Mini-Fit angled **E** = Coiled 200 + 400 + 200 mm, 6-pin Mini-Fit angled **F** = Straight 460 mm, 2-pin Jack* **G** = Straight 800 mm, 2-pin Jack* **H** = Straight 1250 mm, 2-pin Jack* **I** = Coiled 200 + 200 + 200 mm, 2-pin Jack* **J** = Coiled 200 + 400 + 200 mm, 2-pin Jack* **0** = 6-pin Mini-Fit extension			**K** = Coiled 200 + 400 mm, 6-pin Mini-Fit straight **L** = Straight 460 mm, 6-pin Mini-Fit straight **M** = Straight 1250 mm, 6-pin Mini-Fit straight * no feedback available (hhv. F, G, H, I and J)	

Chosen item No.: 300403000A000P06+1031PB159480C

Approvals and certifications

For approval documentation, LINAK recommends specifying the product type instead of individual item numbers to ensure broader approval coverage and simplify future product changes.

Listed LINAK item for application approval: KA30 PL

If this is not possible, we advise being as non-specific as possible when specifying LINAK products in your approval application:

Listed LINAK item for application approval: KA30******SS***S*S**********S**

" * " is not safety critical and we recommend including a non-specific signifier such as an asterisk.

" S " is safety critical and represents a listed critical component in the product and cannot be left out.

For more information, please refer to "Approvals and certifications" in LINAK Application Design Recommendations found under User Manual for any given product on LINAK.com

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]	Max. stroke [mm]	BID [mm]
KA30 PL	PL (P)	24	4	8,000	8,000	7.8/5.8	1.3/8.0	300	SL + 294 SL + 344
KA30 PL	PL (P)	24	4	7,500	7,500	7.8/6.0	1.3/7.5	350	SL + 344
KA30 PL	PL (P)	24	4	7,000	7,000	7.8/6.1	1.3/7.0	350	SL + 294
KA30 PL	PL (P)	24	4	6,000	6,000	7.8/6.2	1.3/6.2	400	SL + 294 SL + 344
KA30 PL	PL (P)	24	4	7,000	7,000	7.8/6.1	1.3/7.0	300	SL +274

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

Comments to technical specifications

Self-locking ability

LINAK control boxes are designed so that they will short-circuit the motor terminals (poles) of the actuator(s), when the actuator(s) is/are not running. This solution gives the actuator(s) a higher self-locking ability. If the actuator(s) is/are not connected to a LINAK control box, the terminals of the motor must be short-circuited to achieve the self-locking ability of the actuator(s).

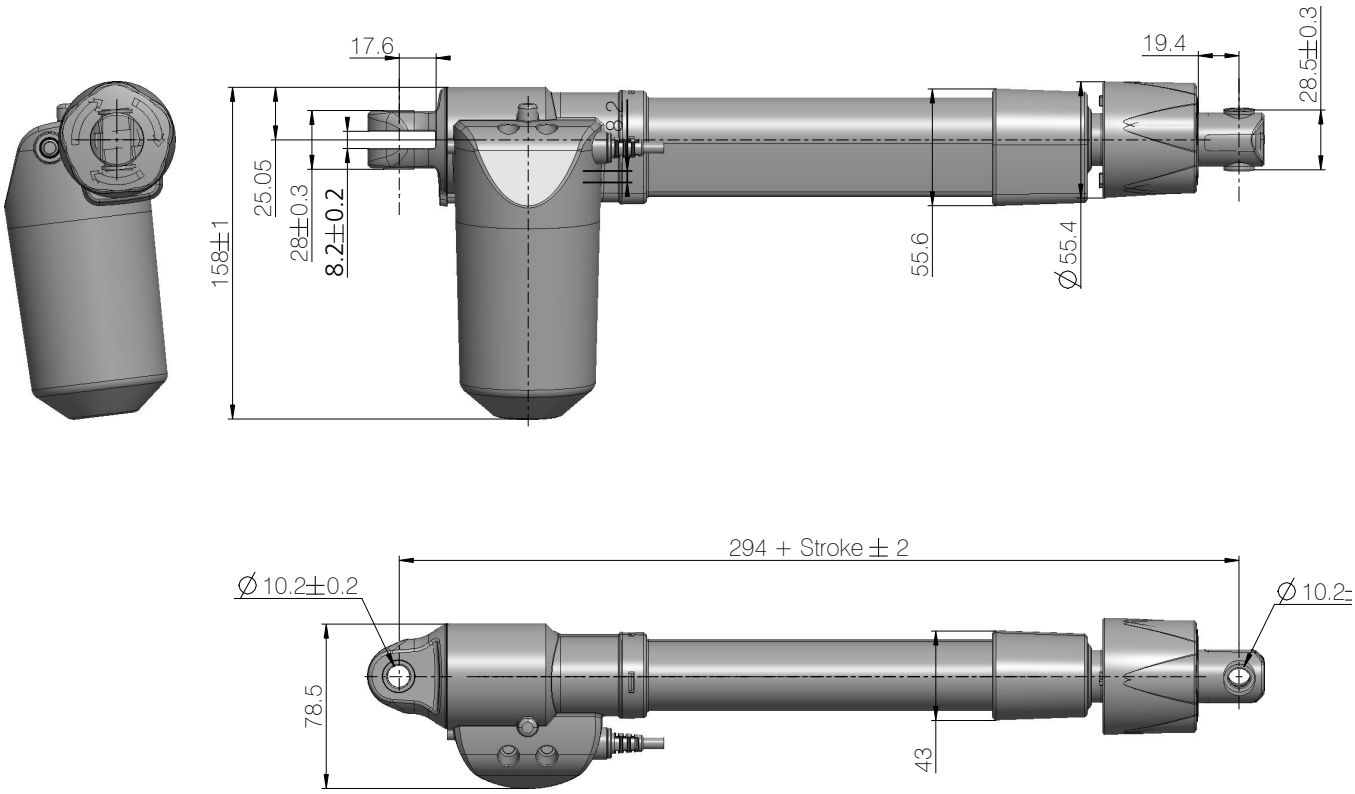
When using the KA30 PL with CBJ2, CBJC, CAL40, COL50, the terminals are only short-circuited for max. 60 seconds. Afterwards, the actuator is self-locking.

Dimensions

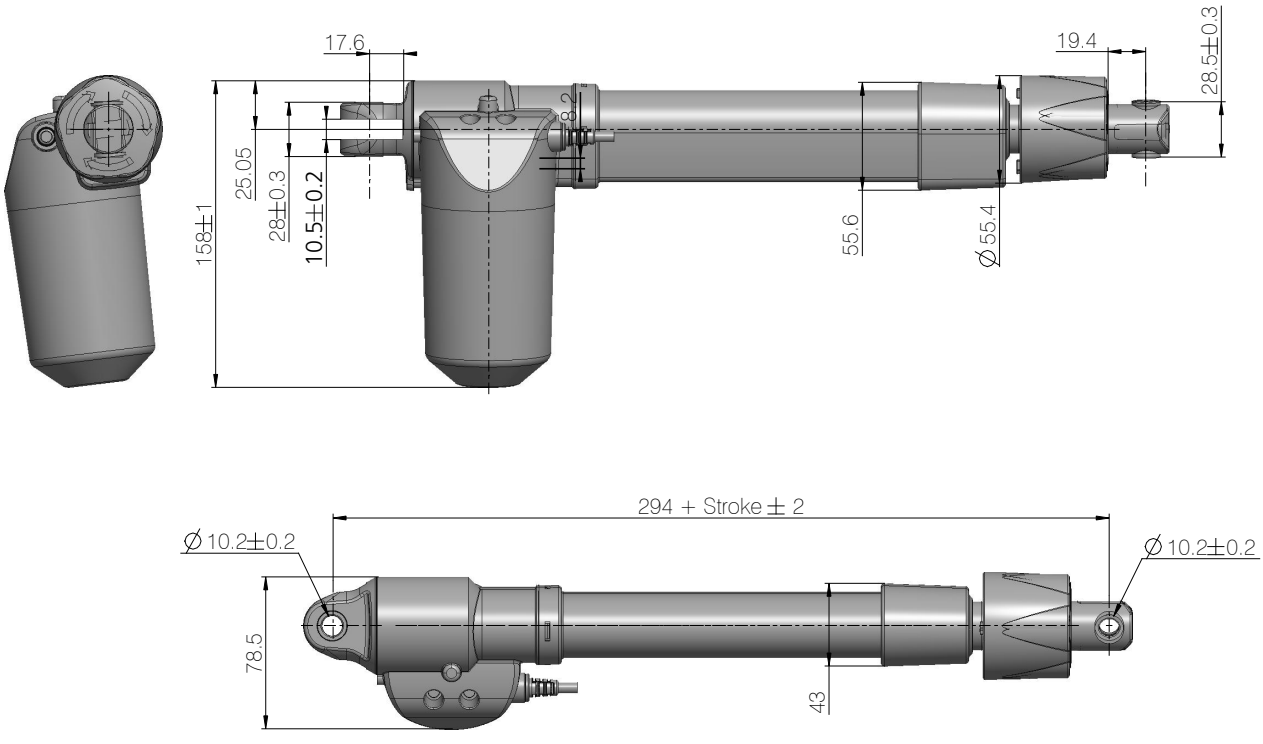
All dimensions are in mm.

Available in 274 mm, 344 mm and 294 mm plus stroke. The drawing below is provided as an example only.

KA30 PL motor (P) with std. back fixture Ø10.2, width 8.2



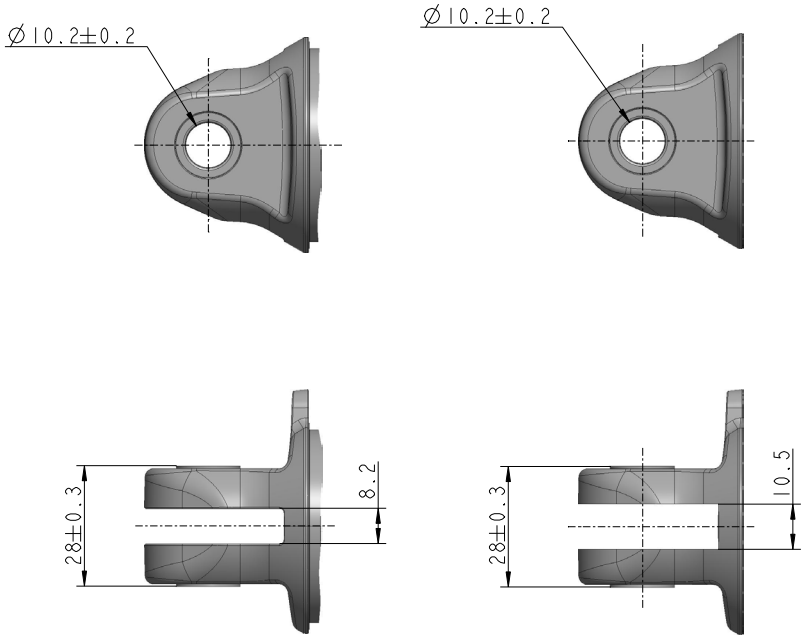
KA30 PL motor (P) with std. back fixture Ø10.2, width 10.5



Drawing no.: 1046W4037

Back fixture overview

All dimensions are in mm.



3 = Metal with slot Ø10.2
Slot width 8.2
with bushings

6 = Metal with slot Ø10.2
Slot width 10.5
with bushings

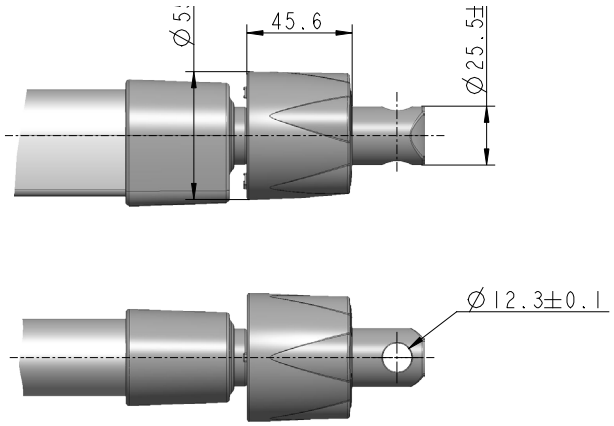
Back fixture orientation

Orientation of back fixture in relation to encapsulation.

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

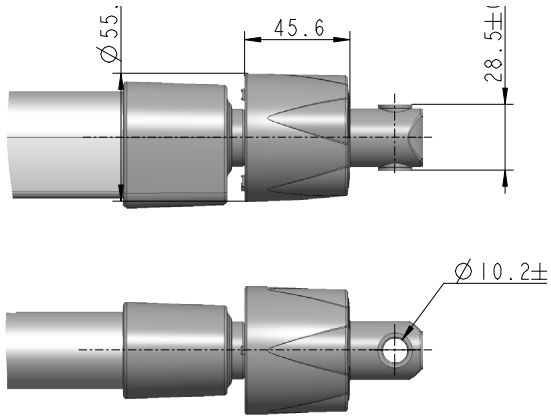
Piston rod eyes

All dimensions are in mm.



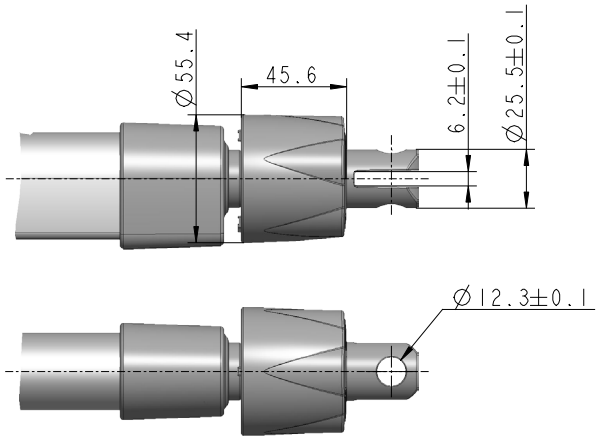
Option P : Without bushing

solid



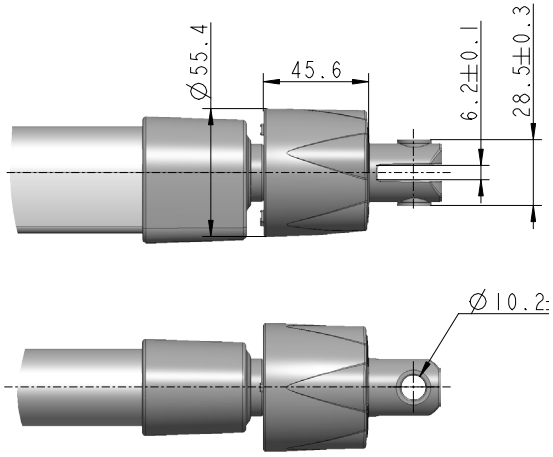
Option P : With bushing

solid



Option Q : Without bushing

slot



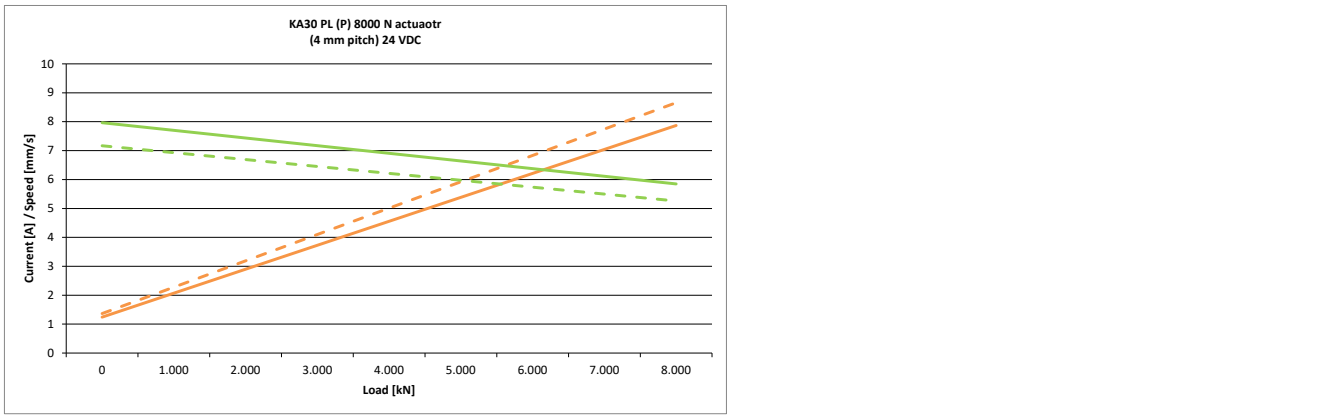
Option Q : With bushing

slot

Drawing no.: 1046W9019

Speed and current curves

KA30 PL, motor type P



Contacts

FACTORIES

Denmark - Headquarters
LINAK A/S
Phone: +45 73 15 15 15
Fax: +45 74 45 80 48
Fax (Sales): +45 73 15 16 13
Web: www.linak.com

China
LINAK (Shenzhen) Actuator Systems, Ltd.
Phone: +86 755 8610 6656
Phone: +86 755 8610 6990
Web: www.linak.cn

Slovakia
LINAK Slovakia s.r.o.
Phone: +421 51 7563 444
Web: www.linak.sk

Thailand
LINAK APAC Ltd.
Phone: +66 33 265 400
Web: www.linak.com

USA
LINAK U.S. Inc.
Americas Headquarters
Phone: +1 502 253 5595
Fax: +1 502 253 5596
Web: www.linak-us.com
www.linak-latinamerica.com

SUBSIDIARIES

Australia
LINAK Australia Pty. Ltd
Phone: +61 3 8796 9777
Fax: +61 3 8796 9778
E-mail: sales@linak.com.au
Web: www.linak.com.au

Austria
LINAK Zweigniederlassung - Österreich (Wien)
Phone: +43 (1) 890 7446
Fax: +43 (1) 890 744615
E-mail: info@linak.de
Web: www.linak.at - www.linak.hu

Belgium
LINAK Actuator-Systems NV/SA
(Belgium & Luxembourg)
Phone: +32 (0)9 230 01 09
E-mail: beinfo@linak.be
Web: www.linak.be - www.fr.linak.be

Brazil
LINAK Do Brasil Comércio De Atuadores Ltda.
Phone: +55 (11) 2832 7070
Fax: +55 (11) 2832 7060
E-mail: info@linak.com.br
Web: www.linak.com.br

Canada
LINAK Canada Inc.
Phone: +1 502 253 5595
Fax: +1 416 255 7720
E-mail: info@linak.ca
Web: www.linak-us.com

Czech Republic
LINAK C&S s.r.o.
Phone: +42 058 174 1814
Fax: +42 058 170 2452
E-mail: info@linak.cz
Web: www.linak.cz - www.linak.sk

Denmark - International
LINAK International
Phone: +45 73 15 15 15
E-mail: info@linak.com
Web: www.linak.com

Denmark - Sales
LINAK Danmark A/S
Phone: +45 86 80 36 11
Fax: +45 86 82 90 51
E-mail: linak@linak-silkeborg.dk
Web: www.linak.dk

Finland
LINAK OY
Phone: +358 10 841 8700
E-mail: linak@linak.fi
Web: www.linak.fi

France
LINAK France E.U.R.L
Phone: +33 (0) 2 41 36 34 34
Fax: +33 (0) 2 41 36 35 00
E-mail: linak@linak.fr
Web: www.linak.fr

Germany
LINAK GmbH
Phone: +49 6043 9655 0
Fax: +49 6043 9655 60
E-mail: info@linak.de
Web: www.linak.de

India
LINAK A/S India Liaison Office
Phone: +91 120 4531797
Fax: +91 120 4786428
E-mail: info@linak.in
Web: www.linak.in

Ireland
LINAK UK Limited (Ireland)
Phone: +44 (0)121 544 2211
Fax: +44 (0)121 544 2552
+44 (0)796 855 1606 (UK Mobile)
+35 387 634 6554 (Rep.of Ireland Mobile)
E-mail: sales@linak.co.uk
Web: www.linak.co.uk

Italy
LINAK ITALIA S.r.l.
Phone: +39 02 48 46 33 66
Fax: +39 02 48 46 82 52
E-mail: info@linak.it
Web: www.linak.it

Japan
LINAK K.K.
Phone: 81-45-533-0802
Fax: 81-45-533-0803
E-mail: linak@linak.jp
Web: www.linak.jp

Malaysia
LINAK Actuators Sdn. Bhd.
Phone: +60 4 210 6500
Fax: +60 4 226 8901
E-mail: info@linak-asia.com
Web: www.linak.my

Netherlands
LINAK Actuator-Systems B.V.
Phone: +31 76 5 42 44 40 /
+31 76 200 11 10
E-mail: info@linak.nl
Web: www.linak.nl

New Zealand
LINAK New Zealand Ltd
Phone: +64 9580 2071
Fax: +64 9580 2072
E-mail: nzsales@linak.com.au
Web: www.linak.com.au

Norway
LINAK Norge AS
Phone: +47 32 82 90 90
E-mail: info@linak.no
Web: www.linak.no

Poland
LINAK Polska
LINAK Danmark A/S (Spólka Akcyjna)
Phone: +48 22 295 09 70 /
+48 22 295 09 71
E-mail: info@linak.pl
Web: www.linak.pl

Republic of Korea
LINAK Korea Ltd.
Phone: +82 2 6231 1515
Fax: +82 2 6231 1516
E-mail: info@linak.kr
Web: www.linak.kr

Slovakia
LINAK Slovakia S.R.O.
Phone: +421 51 7563 444
Web: www.linak.sk

Spain
LINAK Actuadores, S.L.u
Phone: +34 93 588 27 77
Fax: +34 93 588 27 85
E-mail: esma@linak.es
Web: www.linak.es

Sweden
LINAK Scandinavia AB
Phone: +46 8 732 20 00
Fax: +46 8 732 20 50
E-mail: info@linak.se
Web: www.linak.se

Switzerland
LINAK AG
Phone: +41 43 388 31 88
E-mail: info@linak.ch
Web: www.linak.ch - www.fr.linak.ch
www.it.linak.ch

Taiwan
LINAK (Shenzhen) Actuator systems Ltd.
Taiwan Representative office
Phone: +886 2 272 90068
Fax: +886 2 272 90096
E-mail: sales@linak.com.tw
Web: www.linak.com.tw

Turkey
LINAK İth. İhr. San. ve Tic. A.Ş.
Phone: + 90 312 4726338
Fax: + 90 312 4726635
E-mail: info@linak.com.tr
Web: www.linak.com.tr

United Kingdom
LINAK UK Limited
Phone: +44 (0)121 544 2211
Fax: +44 (0)121 544 2552
E-mail: sales@linak.co.uk
Web: www.linak.co.uk

DISTRIBUTORS

Argentina
Novotec Argentina SRL
Phone: 011-4303-8989 / 8900
Fax: 011-4032-0184
E-mail: info@novotecargentina.com
Web: www.novotecargentina.com

Colombia
MEM Ltda
Phone: +[57] (1) 334-7666
Fax: +[57] (1) 282-1684
E-mail: servicioalcliente@memltda.com.co
Web: www.mem.net.co

India
Mechatronics Control Equipments India Pvt Ltd
Phone: +91-44-28558484, 85
E-mail: bala@mechatronicscontrol.com
Web: www.mechatronicscontrol.com

Indonesia
PT. Himalaya Everest Jaya
Phone: +6 221 544 8956 /+6 221 544 8965
Fax: +6 221 619 1925
Fax (Sales): +6 221 619 4658
E-mail: hejplastic-div@centrin.net.id
Web: www.hej.co.id

Israel
NetivTech LTD
Phone: +972 55-2266-535
Fax: +972 2-9900-560
Email: info@NetivTech.com
Web: www.netivtech.com

Singapore
Servo Dynamics Pte Ltd
Phone: +65 6844 0288
Fax: +65 6844 0070
E-mail: servodynamics@servo.com.sg

South Africa
Industrial Specialised Applications CC
Phone: +27 011 466 0346
E-mail: gartht@isagroup.co.za
Web: www.isaza.co.za

United Arab Emirates
Mechatronics
Phone: +971 4 267 4311
Fax: +971 4 267 4312
E-mail: mechtron@emirates.net.ae

Terms of use

LINAK® takes great care to provide accurate and up-to-date information about its products. However, it is the responsibility of the user to determine the suitability of LINAK products for any specific application. Due to ongoing product development, LINAK products are subject to continuous modifications and changes. LINAK reserves the right to make such modifications, updates, and changes without prior notice. For this reason, LINAK cannot guarantee the accuracy or current status of printed information about its products.

LINAK uses its best efforts to fulfil orders. However, for the reasons mentioned above, LINAK cannot guarantee availability of any particular product at any given time. LINAK reserves the right to discontinue the sale of any product displayed on its website or listed in its catalogues or in other written material created and produced by LINAK, LINAK subsidiaries, or LINAK affiliates.
All sales are subject to the applicable terms and conditions of sale and delivery available on LINAK websites. LINAK and the LINAK logotype are registered trademarks of LINAK A/S. All rights reserved.

Copyright© LINAK • 2026-08 • UT-62-02-116 D

LINAK®
WE IMPROVE YOUR LIFE