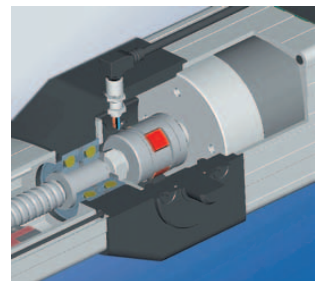
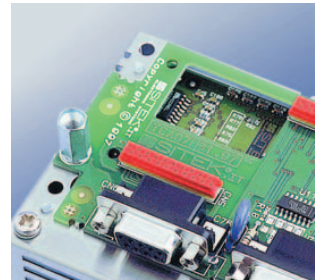
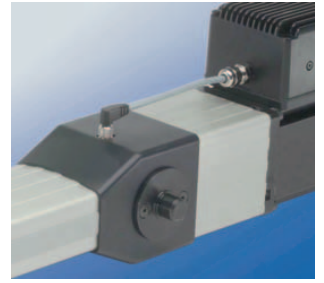


# SKF

## SKF ServoMove Systems



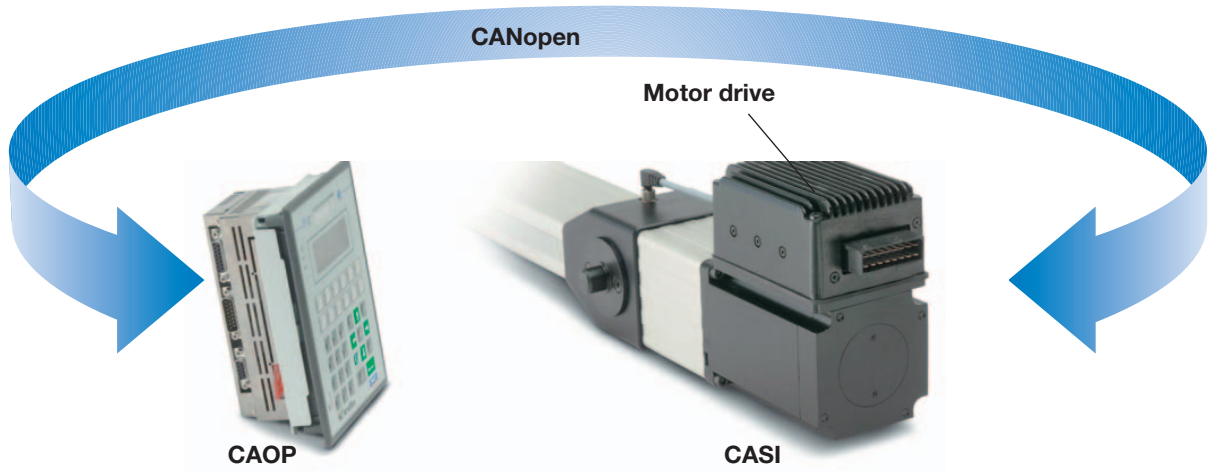
**SKF**

*magnetic*

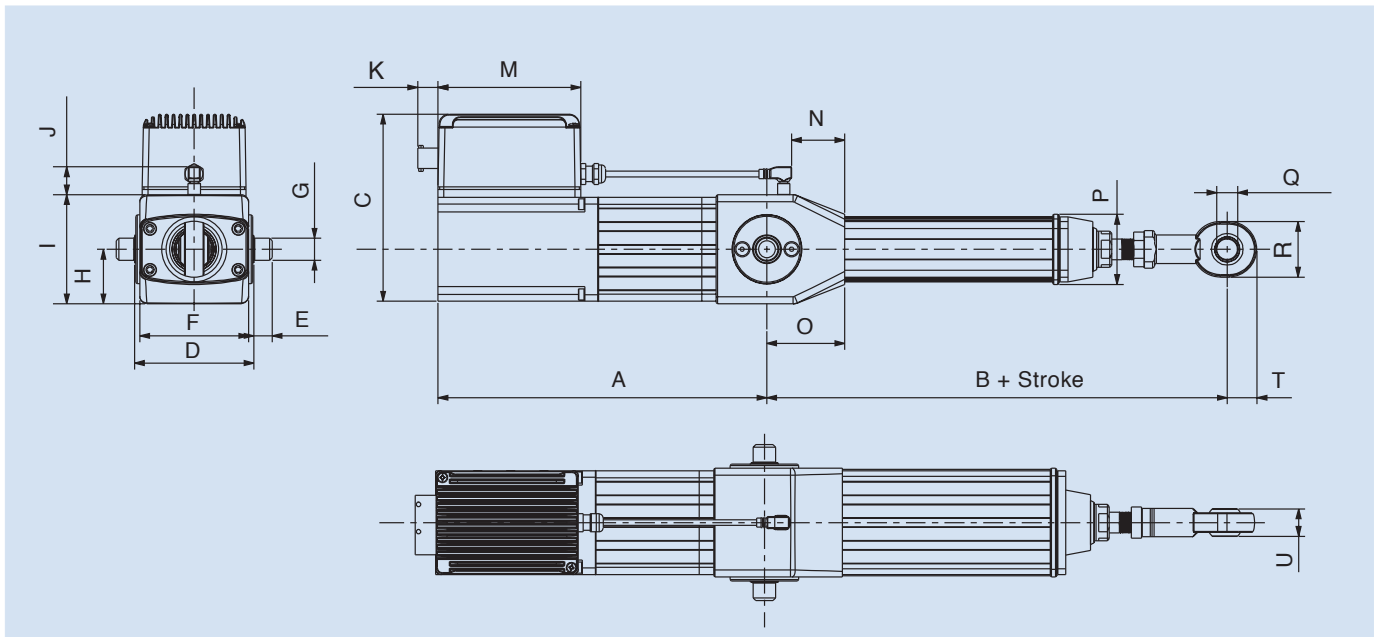
# SKF ServoMove Systems

The SKF ServoMove System consists of an CAOP (Operator Interface) with integrated PLC (Programmable Logic Controller) and integrated local I/O module. The CAOP operates several newly designed linear servo actuators, as well as an unlimited number of sub-masters, offering cost effective servo solutions for any situation. The fact that CAOP is compatible with the majority and the most common PLC's on

the market makes it suitable as a master or secondary unit in any other PLC system. The SKF ServoMove System communicates directly with a CANopen bus between the CAOP and the actuator. This system is compatible with nearly all bus systems on the market, i.e., Profibus DP, DeviceNet, Ethernet and its add-on module makes it, of course, possible to operate via a Web server.



CASI	Speed version	A	B	C	D	E	F	G	H	I	J	K	M	N	O	P	Q	R	T	U
32	50	150																		
	30, 10	224	236	134	82	14	74	∅17h7	37	74	22	16	110	44	57	48	∅12H7	34	17	16
40	80, 70	160																		
	60, 50, 40, 20	238	255	144	92	14	84	∅17h7	42	84	22	16	110	41	60	54	∅16H7	43	23	21
	30, 10	254																		
60	60, 50	203																		
	40, 30	316	345	154	110	17	104	∅20h7	52	104	22	16	110	70	86	90	∅20H7	50	25	25
	20, 10	337																		



# Linear Servo Actuators type CASI

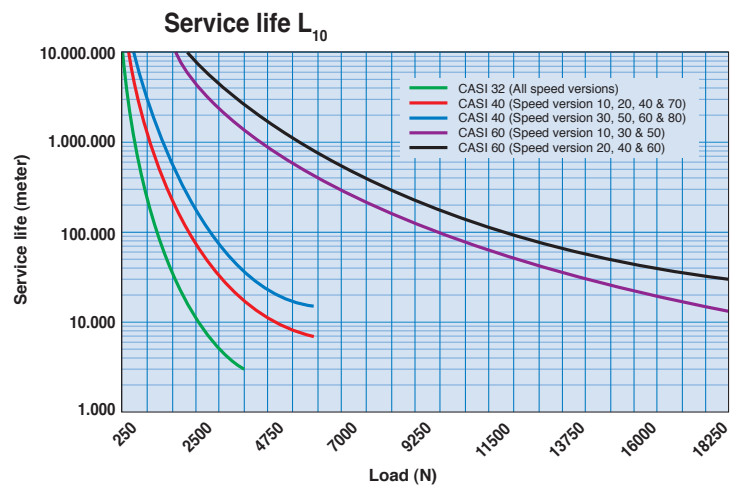
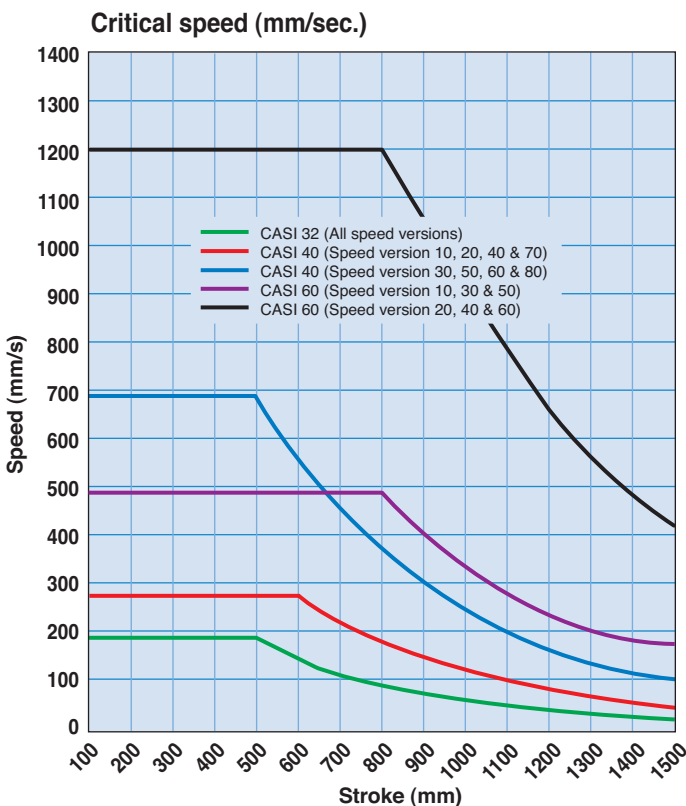
The CASI linear actuators are the electro-mechanical muscle of the SKF ServoMove systems. The CASI is a new, cost-effective, compact, in-line high-efficiency ball screw actuator with a brushless DC motor engineered with a modular concept in mind. The actuator has a built in electronic drive and hall sensor for electronic commutation. CASI has factory

pre-set parameters as standard. The actuator configuration is based on the application requirements and anticipated technical performance. The flexibility of the modular concept, built with high quality SKF components, makes it possible to offer innovative technology and unrivalled value in terms of price/performance, for your servo solutions.

## Technical data

	CASI 32	CASI 40	CASI 60
Max. speed:	190mm/sec.	680mm/sec.	1200mm/sec.
Max dynamic load:	3500N	5200N	18000N
Max.stroke:	50-700mm*	50-700mm*	50-1000mm*
Duty factor:	100%	100%	100%
Service life:	>10 <sup>6</sup> meters	>10 <sup>6</sup> meters	>10 <sup>6</sup> meters
System backlash:	0.07mm	0.07mm	0.12mm
Unidirectional repeatability:	0.05-0.33mm	0.03-1.06mm	0.04-1.39mm
Supply voltage:	24VDC (16-29V)	24VDC (16-29V)	48VDC (33-58V)
Peak current:	25A (5 seconds)	60A (5 seconds)	50A (5 seconds)
Communication:	CANopen, RS 232, Analogue 0-2V	CANopen, RS 232, Analogue 0-2V	CANopen, RS 232, Analogue 0-2V
Ambient temperature:	+0°C to +50°C	+0°C to +50°C	+0°C to +50°C
Standards:	EN 50081-1, EN 61000-6-2	EN 50081-1, EN 61000-6-2	EN 50081-1, EN 61000-6-2
Protection class:	In accordance with IP54	In accordance with IP54	In accordance with IP54

\* For other strokes contact SKF



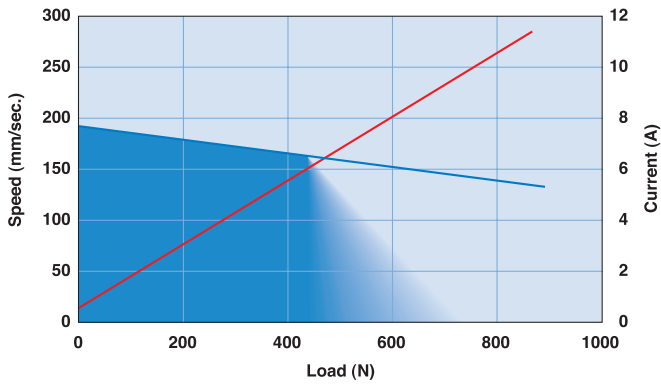
L<sub>10</sub> is defined as the service life that 90 % of a sufficiently large number of apparently identical CASI actuators can be expected to attain or exceed based on the ball screw data.

All data valid at 20°C. The values shown in the charts are approximate.

Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of use of the information contained herein. It is the responsibility of the product user to determine the suitability of all products selected for a specific application. Consult SKF for application support.

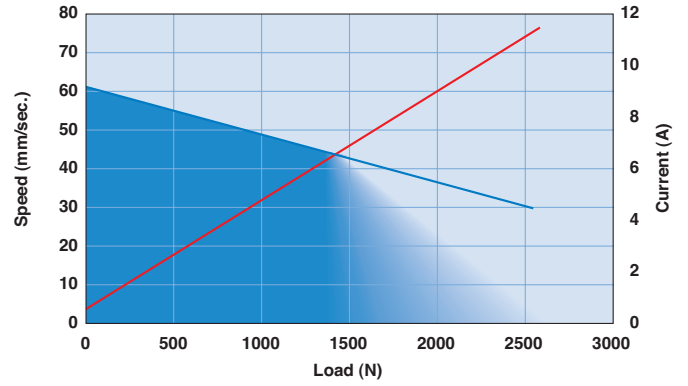
# CASI 32

## Speed version 50



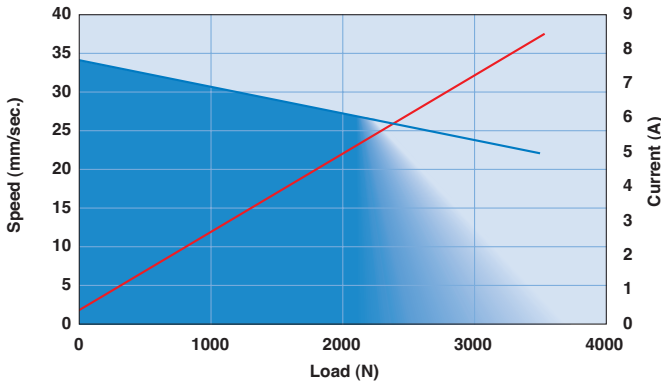
Resolution: 0.33 mm/pulse

## Speed version 30



Resolution: 0.09 mm/pulse

## Speed version 10

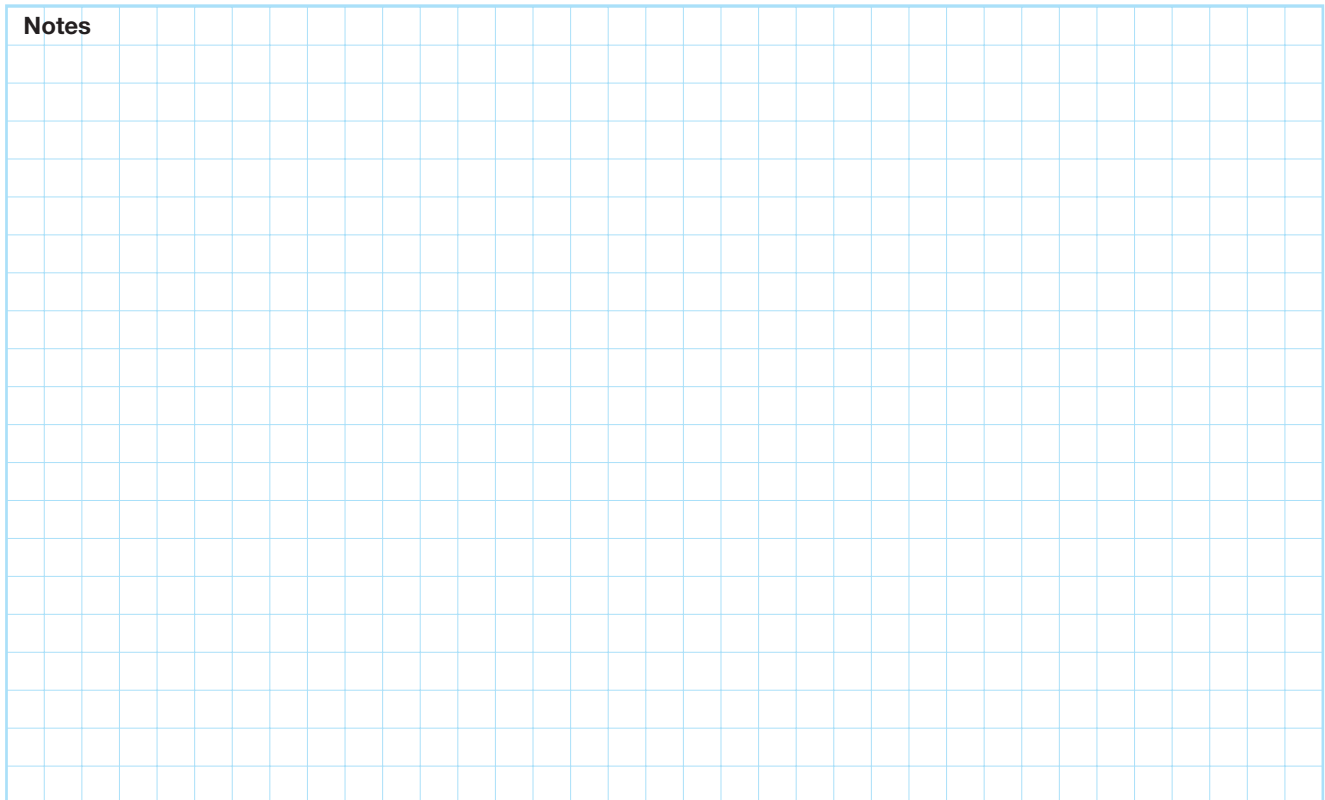


Resolution: 0.05 mm/pulse

100% duty
  Intermittent duty
  Current (A)
  Max. speed

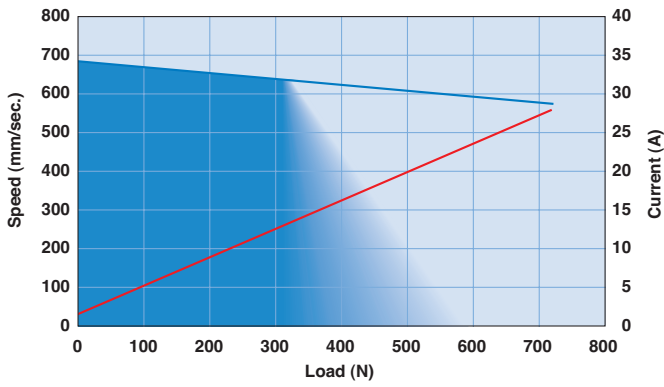
All data valid at 20°C. The values shown in above charts are approximate.

### Notes



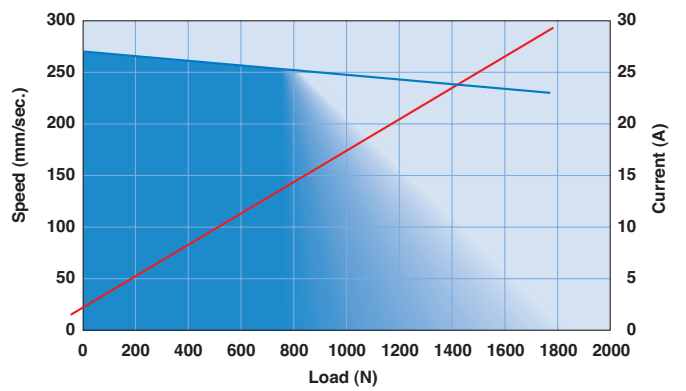
# CASI 40

## Speed version 80



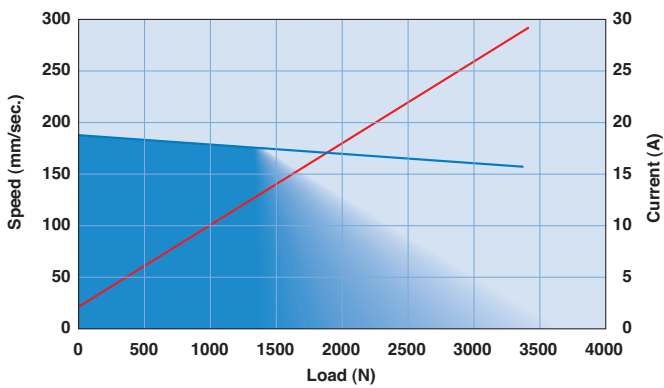
Resolution: 1.06 mm/pulse

## Speed version 70



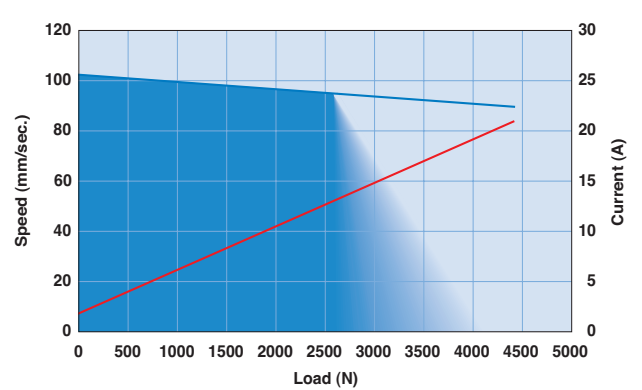
Resolution: 0.42 mm/pulse

## Speed version 60



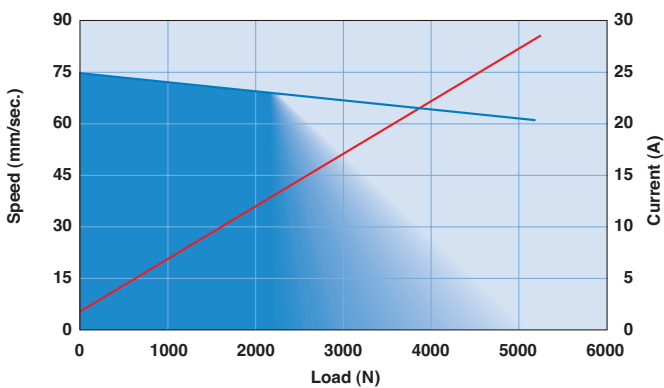
Resolution: 0.29 mm/pulse

## Speed version 50



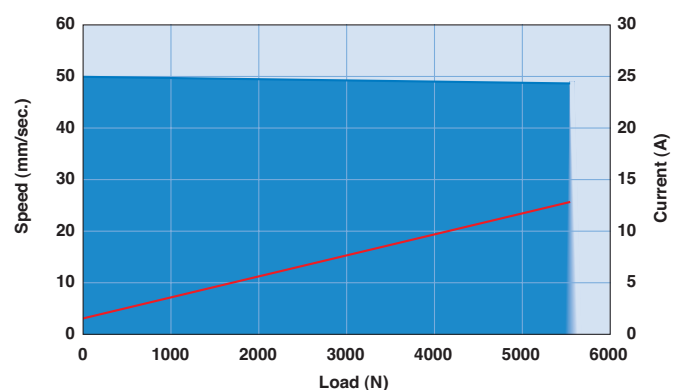
Resolution: 0.16 mm/pulse

## Speed version 40



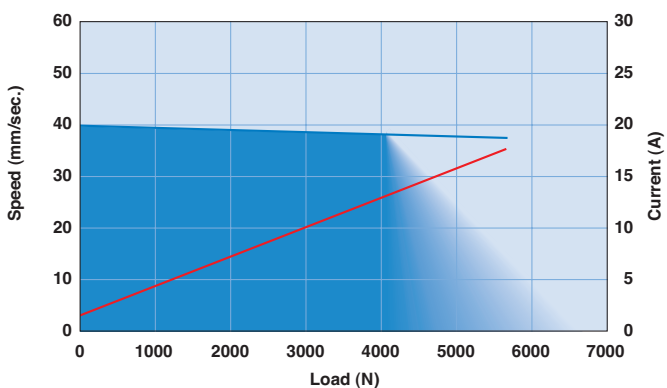
Resolution: 0.11 mm/pulse

## Speed version 30



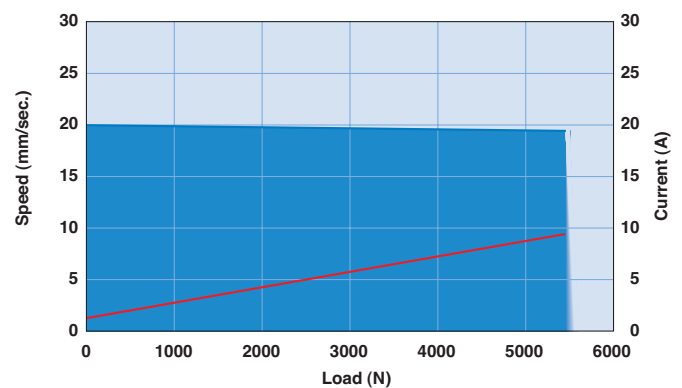
Resolution: 0.08 mm/pulse

## Speed version 20



Resolution: 0.06 mm/pulse

## Speed version 10



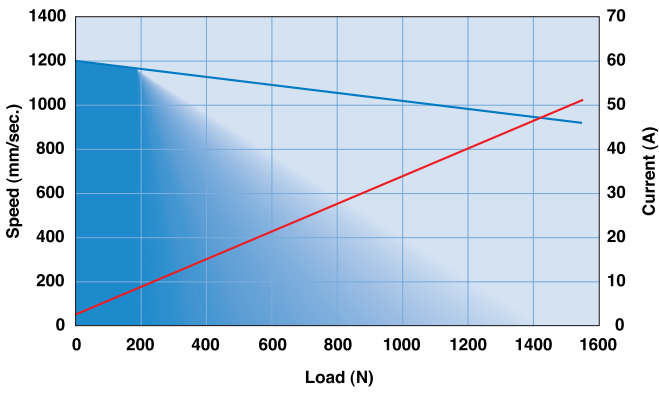
Resolution: 0.03 mm/pulse

■ 100% duty    
 ■ Intermittent duty    
 — Current (A)    
 — Max. speed

All data valid at 20°C. The values shown in above charts are approximate.

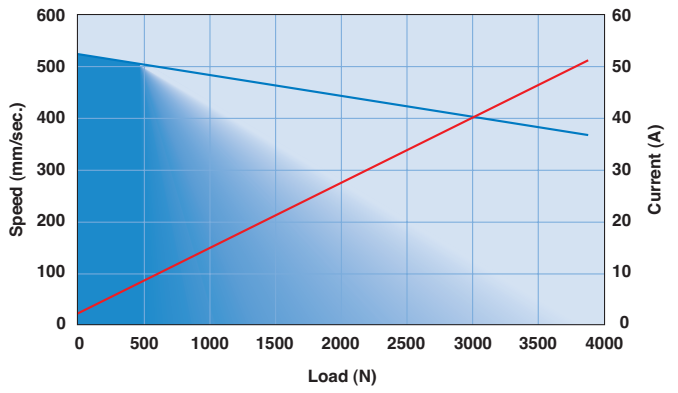
# CASI 60

## Speed version 60



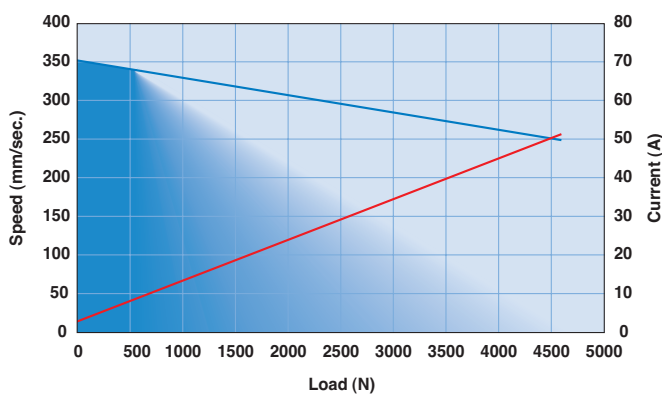
Resolution: 1.39 mm/pulse

## Speed version 50



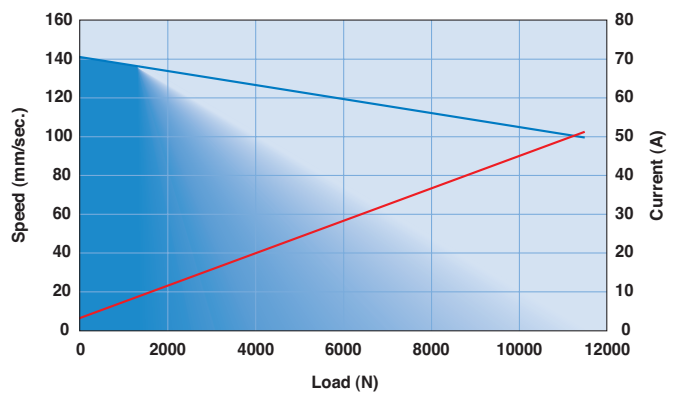
Resolution: 0.56 mm/pulse

## Speed version 40



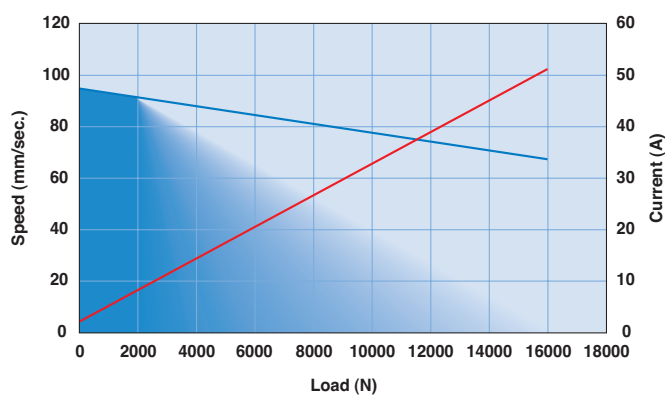
Resolution: 0.38 mm/pulse

## Speed version 30



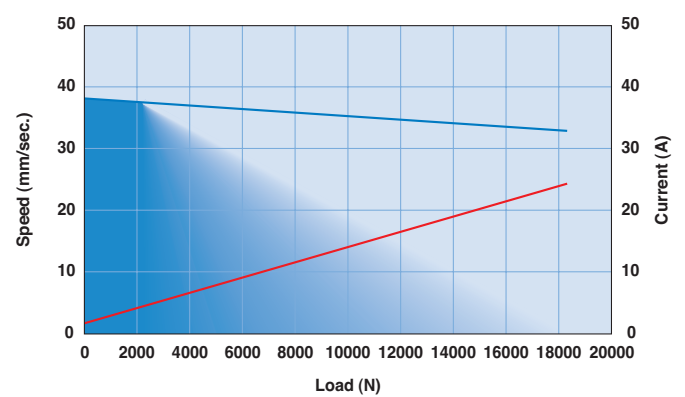
Resolution: 0.15 mm/pulse

## Speed version 20



Resolution: 0.10 mm/pulse

## Speed version 10



Resolution: 0.04 mm/pulse

100% duty
  Intermittent duty
  Current (A)
  Max. speed

All data valid at 20°C. The values shown in above charts are approximate.



# Operator Interface type CAOP KP10

The CAOP series is the platform for controlling the servo actuators and has the ability to include other I/O's and control programs in the application - i.e., the basic version is expandable with additional I/O (remote I/O) modules. CAOP is pre-programmed with software for the servo actuators to enable an easy start-up and expansion of functions.

- Up to 4 servo actuators per CAOP
- Readable parameters in panel window
- Selection of drive modes (auto, semi-automatic or manual)
- 10 operations per sequence as standard
- Adjustable parameters (position, speed, load limits or resting time)

## Technical data CAOP

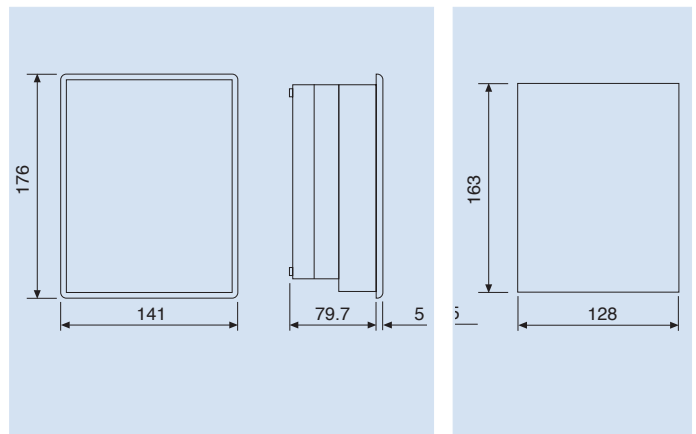
### CAOP KP10

Display:	Monochrome LCD
Graphics:	120 x 32 pixels
Display dimensions:	70 x 21 mm
Function keys:	12
System keys:	23
User LEDs:	13
PLC port (RS):	232, 422, or 485
Alarms:	1024
Password:	Yes
Hardware RTC:	Yes
Supply voltage:	18-30 V DC
Power, typical:	0.3 A
Protection class:	IP65 (front panel)
Front dimensions W x H:	141 x 176 mm
Standards:	CE approved



## Dimensions CAOP-KP10

## Cut out dimensions

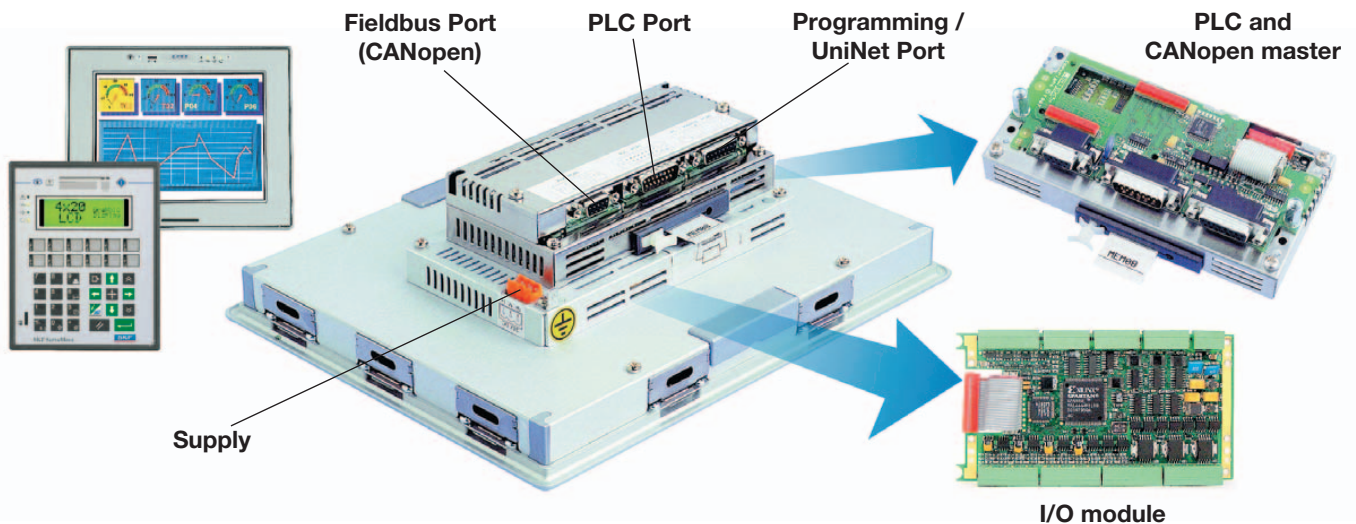


## PLC

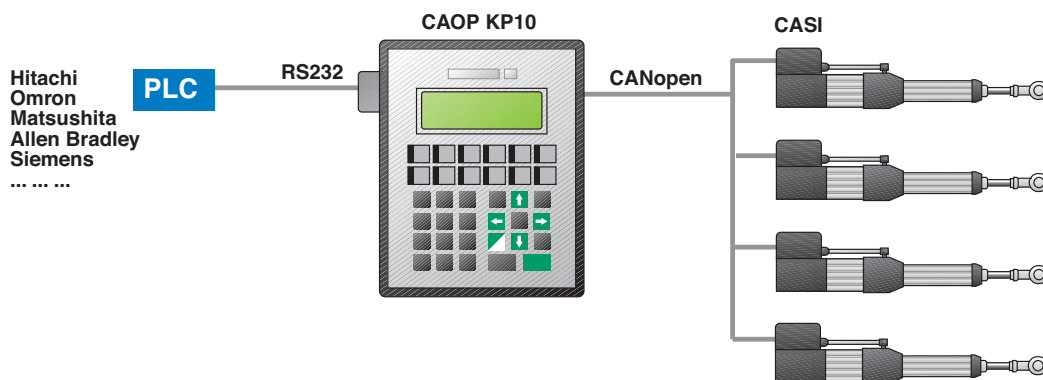
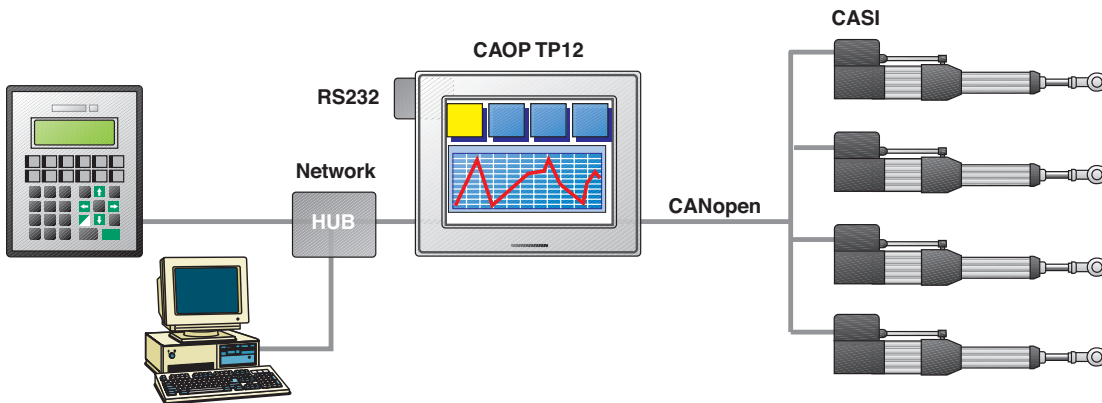
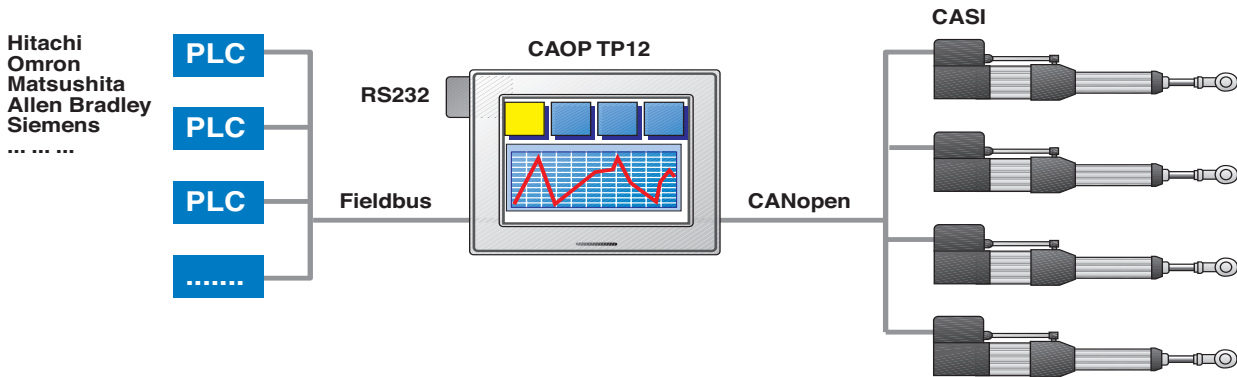
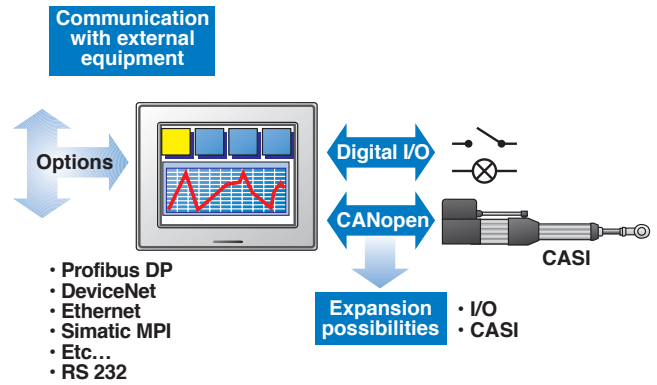
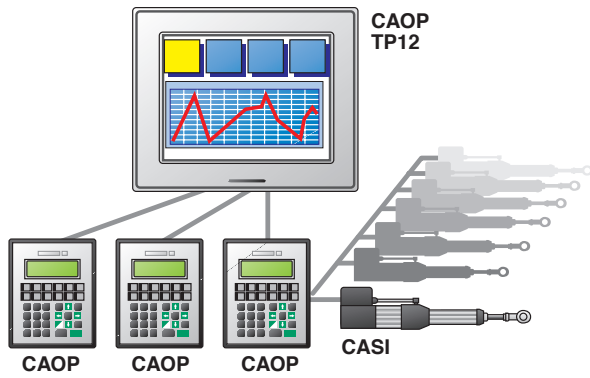
- High-performance 32 bit MIPS CPU, 128 KB memory, 512 byte EEPROM (system parameters).
- Typical scan time: 3 ms per 1000 instructions.
- EC 61131-3 standard programming LD, FB, SFC, IL, ST with software ISaGRAF.
- Up to 2 M x 16 bits flash EPROM.
- Up to 4 M x 16 bits SDRAM.

## I/O

- 16 digital inputs (24 V DC), 16 digital outputs (relay 1A) or multi-function digital and analogue I/O module (option).

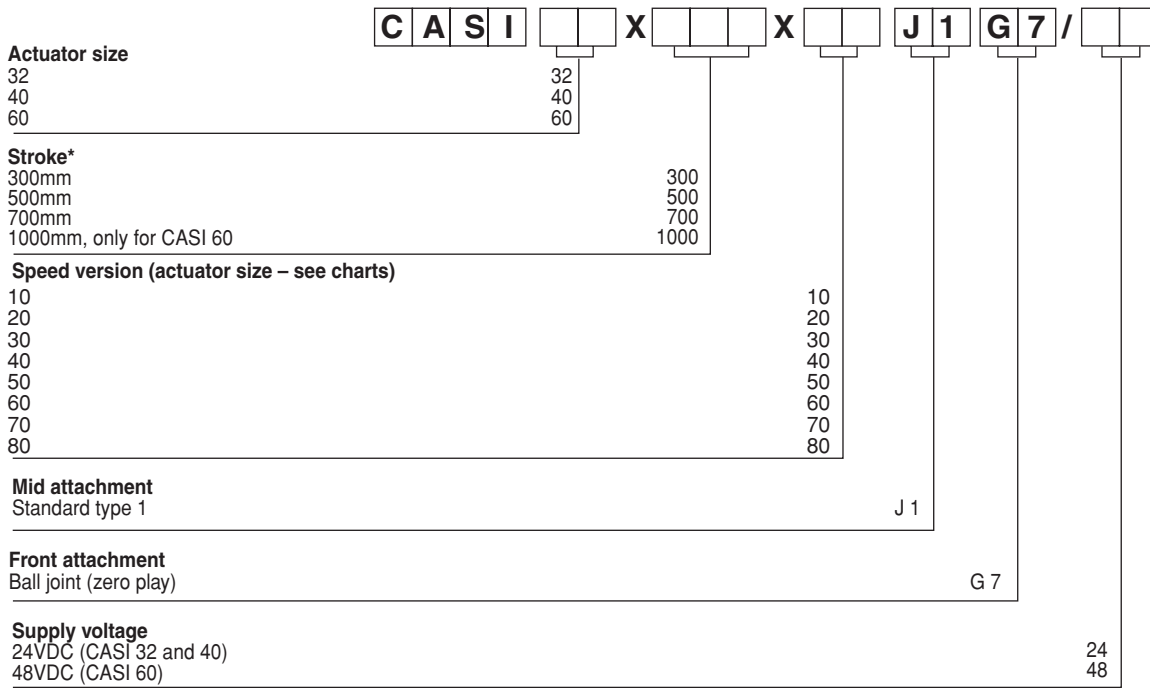


# SKF ServoMove Systems - configuration examples



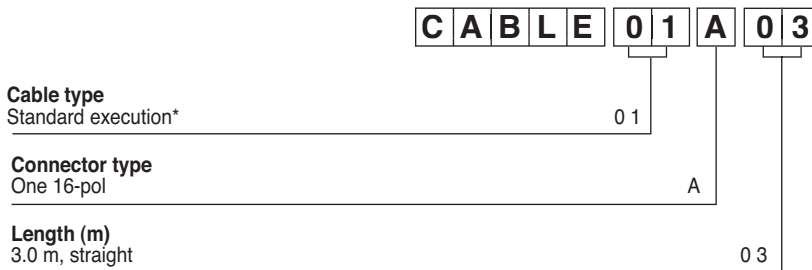


## Ordering key CASI



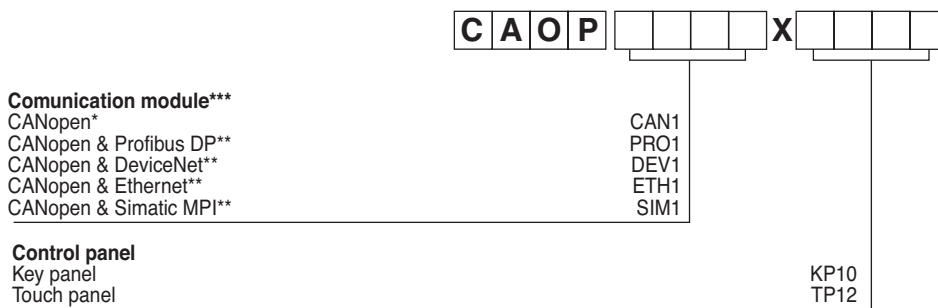
\*For other stroke, contact SKF.

## Ordering key CABLE



\*Connection for one single CASI actuator

## Ordering key CAOP

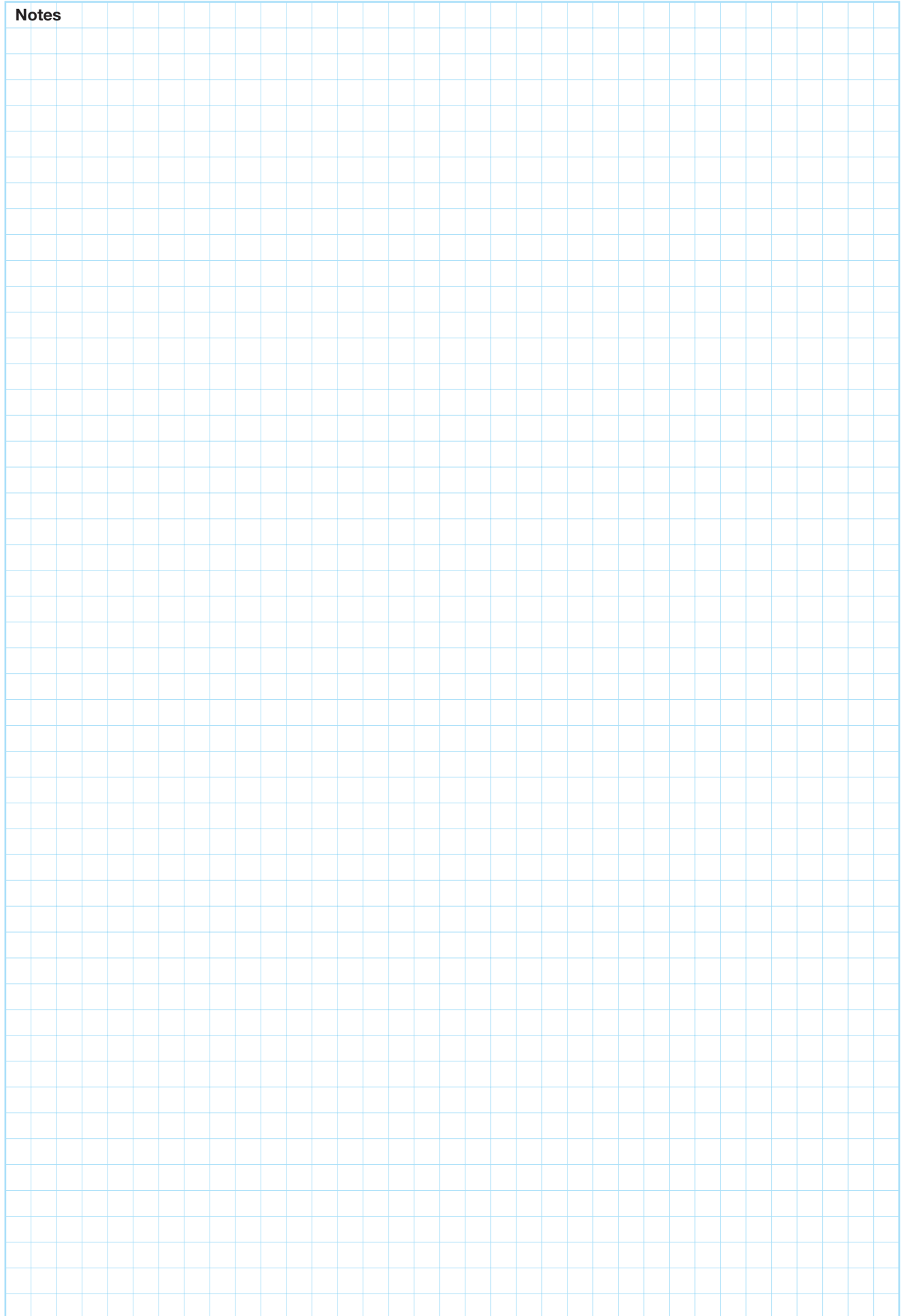


\*Compatible with KP10

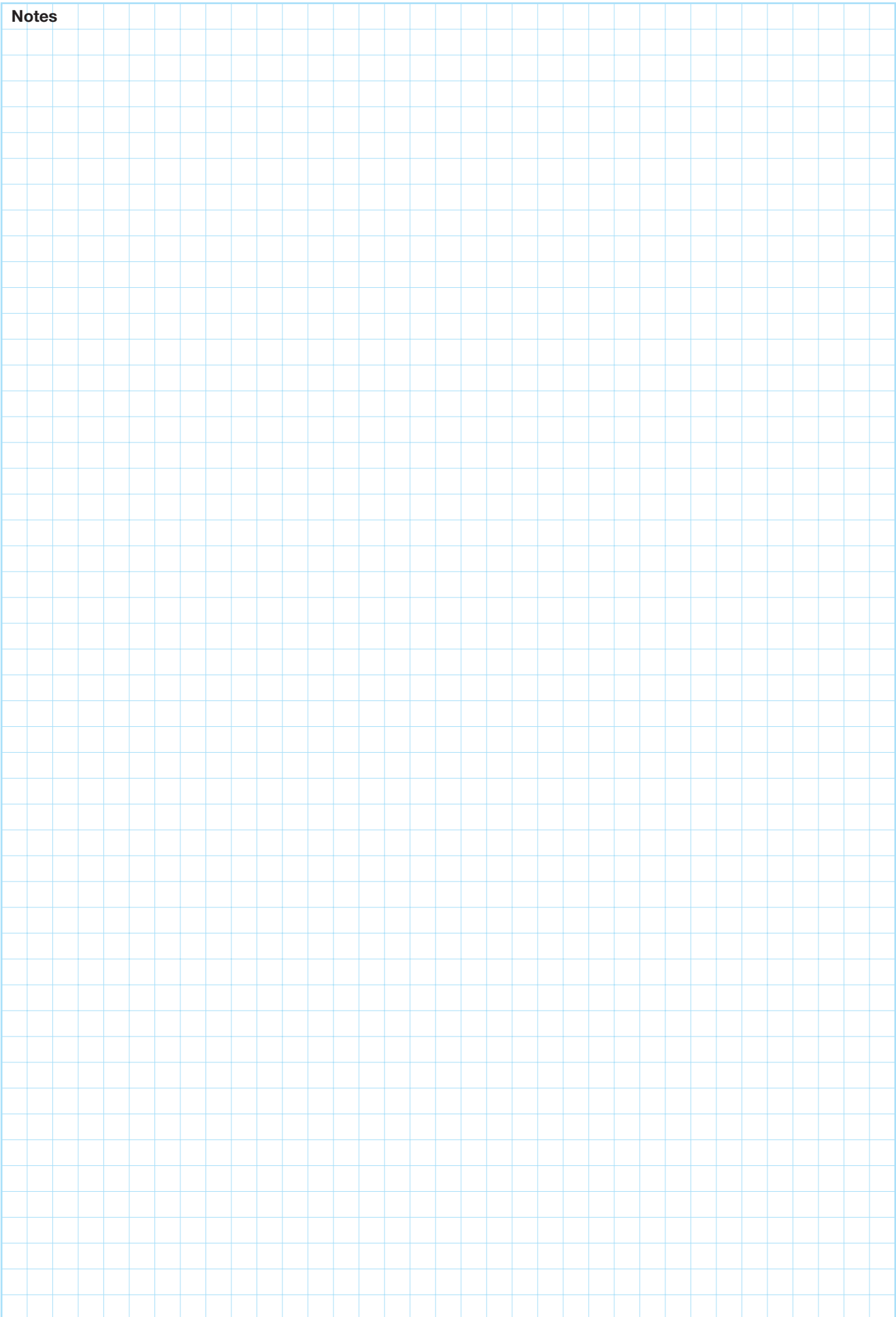
\*\*Compatible with TP12

\*\*\*For other communication modules, contact SKF

Notes



Notes



## SKF Actuation Systems - Product groups



**Systems**



**Linear actuators**



**Telescopic pillars**



**Rotary actuators**

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[www.magnetic.skf.com](http://www.magnetic.skf.com)