

Linear actuator

Runner

Benefits

- High push/pull load
- Compact
- Back-up nut as standard
- High safety factor
- Silent operation

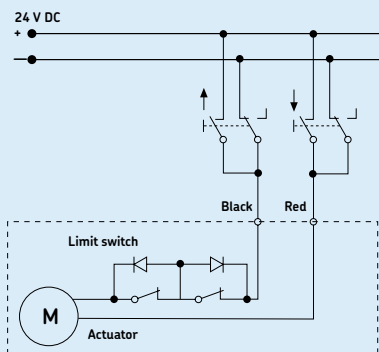


Suitable control units and accessories

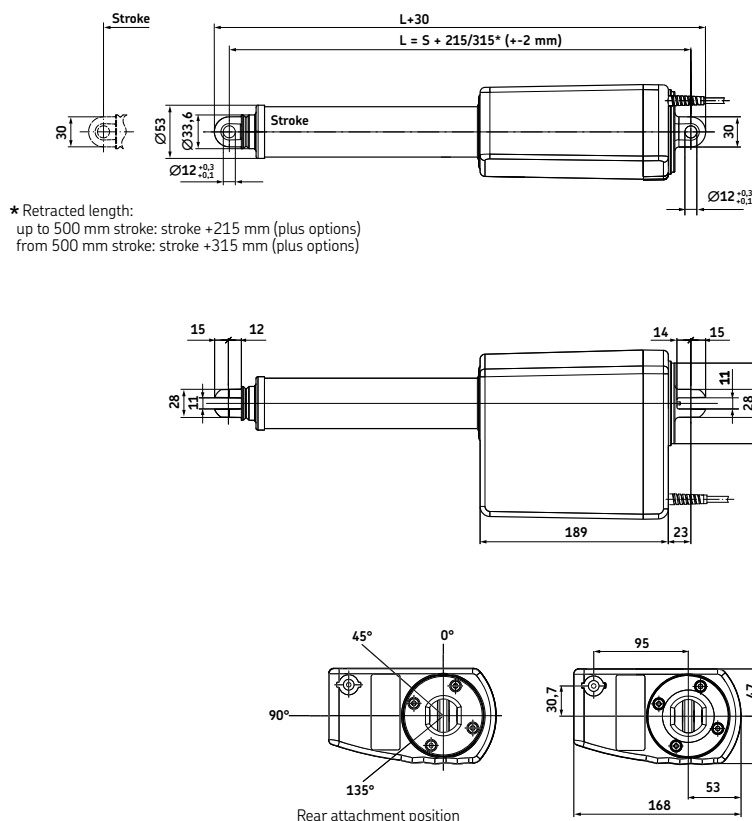
Control units		SCU 1	SCU 5	SCU 9	VCU 5	VCU 8	VCU 9	BCU 5	BCU 8
RU20, RU21, RU22		•	•	•	•	•	•	•	•
RU23, RU24, RU25		•	•	•	•	•	•	•	•
EHA 3		•	•	•	•	•	•	•	•
STJ		•	•	•	•	•	•	•	•
STE		•	•	•	•	•	•	•	•

Hand switch
 Foot switch
 Desk switch

Connecting diagram



Dimensional drawing



Legend:
 S = stroke
 L = retracted length

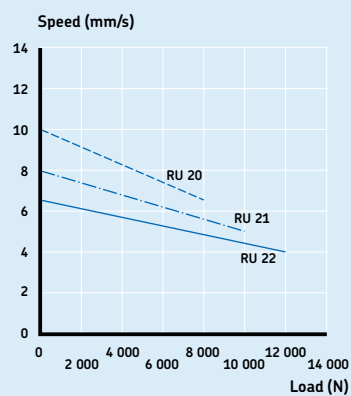
Technical data

	Unit	RU20	RU21	RU 22	RU23	RU24	RU25
Rated push load	N	8 000	10 000	12 000 ¹⁾	8 000	10 000	12 000 ¹⁾
Rated pull load	N	8 000	8 000	8 000	8 000	8 000	8 000
Speed (full load to no load)	mm/s	7 to 10	5 to 8	4 to 7	8 to 15	6 to 12	5 to 9
Stroke	mm	100 to 700	100 to 700	100 to 700	100 to 700	100 to 700	100 to 700
Retracted length	mm	S+215/315 ²⁾	S+215/315 ²⁾	S+215/315 ²⁾	S+215/315 ²⁾	S+215/315 ²⁾	S+215/315 ²⁾
Voltage	V DC	24	24	24	24	24	24
Power consumption	W	N/A	N/A	N/A	N/A	N/A	N/A
Current consumption	A	7	7	7	10	10	10
Duty cycle	%	10 (1/9)	10 (1/9)	10 (1/9)	10 (1/9)	10 (1/9)	10 (1/9)
Ambient temperature	°C	+10 to +40	+10 to +40	+10 to +40	+10 to +40	+10 to +40	+10 to +40
Type of protection	IP	x4/x6S	x4/x6S	x4/x6S	x4/x6S	x4/x6S	x4/x6S
Weight	kg	4,7	4,7	4,7	4,7	4,7	4,7
Color	—	Grey	Grey	Grey	Grey	Grey	Grey

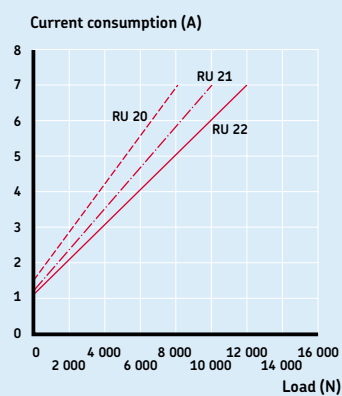
¹⁾ Safety working load for medical application is 10 000 N (EN 60601)

²⁾ S ≤ 500 mm; L = S + 215
S > 500 mm; L = S + 315

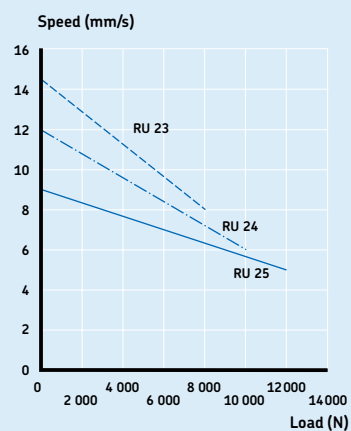
Performance diagrams



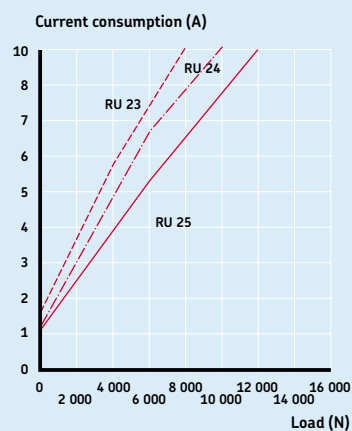
Speed-load diagram



Current-load diagram

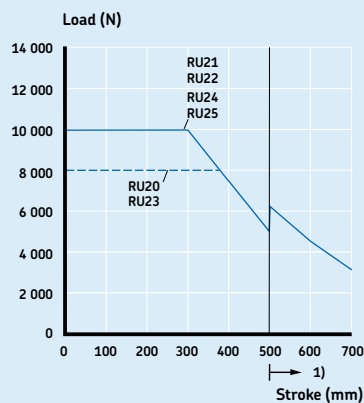


Speed-load diagram

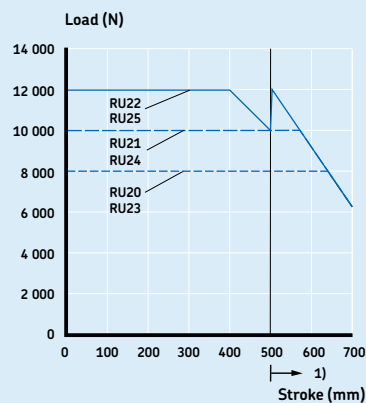


Current-load diagram

Safety factor load conditions



Push load limit, safety factor $S=4$
 (EN 60601 1) retracted length extension
 at stroke >500 mm



Push load limit, safety factor $S=2$
 1) retracted length extension
 at stroke >500 mm

Ordering key

RU 2 - - - - - - - - - - 0 0

Type

Voltage:

24 V DC

Load / Speed:

8 000 N / 7-10 mm/s	0
8 000 N / 8-15 mm/s	3
10 000 N / 5-8 mm/s	1
10 000 N / 6-12 mm/s	4
12 000 N / 4-7 mm/s	2
12 000 N / 5-9 mm/s	5

Stroke (S) / Retracted length (L):

50 mm / 315 mm	0 5 0 3 1 5
100 mm / 315 mm	1 0 0 3 1 5
150 mm / 365 mm	1 5 0 3 6 5
200 mm / 415 mm	2 0 0 4 1 5
250 mm / 465 mm	2 5 0 4 6 5
300 mm / 515 mm	3 0 0 5 1 5
350 mm / 565 mm	3 5 0 5 6 5
400 mm / 615 mm	4 0 0 6 1 5
450 mm / 665 mm	4 5 0 6 6 5
500 mm / 715 mm	5 0 0 7 1 5
550 mm / 865 mm	5 5 0 8 6 5
600 mm / 915 mm	6 0 0 9 1 5
650 mm / 965 mm	6 5 0 9 6 5
700 mm / 1 015 mm	7 0 0 XXX
50<S≤500 mm / S+215	-----
500<S<700 mm / S+315	-----
S>700 mm (customized)	XXXXXX

Type of protection / Color:

IP×4S, grey

IP×6S, grey

A

B

Cable:

Straight cable, 1,5 m, DIN8 plug

Straight cable, 1,5 m, Jack plug 180°

15

0D

Rear attachment orientation / Hole diameter:

0° / Ø=12,0 mm	0
45° / Ø=12,0 mm	2
90° / Ø=12,0 mm	4
135° / Ø=12,0 mm	6

Option 1:

No option

Electrical anti-pinching (safety switch), pull load, L+20 mm

Electrical anti-pinching (safety switch), push load, L+20 mm

0

K

L

Option 2:

No option

2-Hall encoder, 14 pulses, DIN8 plug

Lifetime monitoring

2-Hall encoder, 14 pulses, DIN8 plug, lifetime monitoring

0

A

M

N

Option 3:

No option

Emergency lowering, L+53 mm (for push load only)

-

V

Options shown in italics are only available on demand. Contact SKF for more information on minimum quantities and additional costs.