TL20

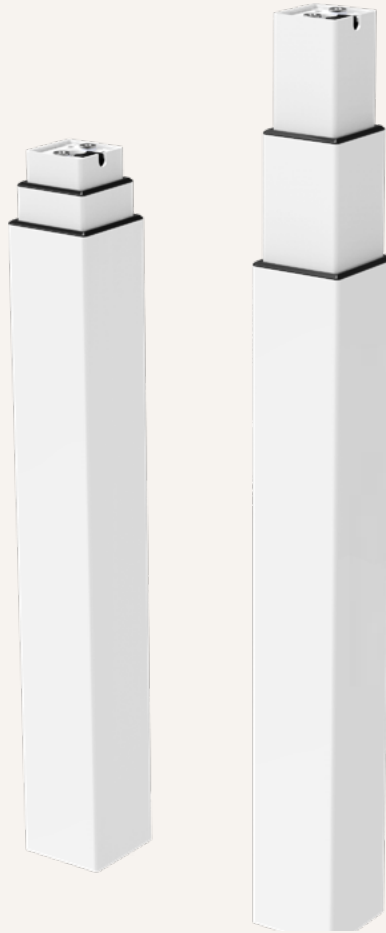## series

Product Segments

- **Ergo Motion**

The TL20 has a three-stage telescopic outer tube design that has a narrow top and wide bottom square appearance, with an embedded inline actuator (TA20). The TL20 is ideally suited for ergonomic furniture applications as it comes without a motor housing. It is the perfect choice for design-oriented lifting furniture that needs a clean appearance while simultaneously optimizing space.

General Features

Max. load	600N (push)
Max. speed at max. load	43mm/s
Max. speed at no load	60mm/s
Retracted length	Standard 590 / 560 (M) / 520 (S) mm
	With shoes 610 / 580 (M) / 540 (S)mm
Dimension of outer tube	3-stage, 70*70mm square
Stroke	650 / 660 (M, S)mm
Options	Hall sensors
Color	Black, white, grey, or special colors
Operational temperature range	+5°C~+45°C

Drawing

Standard Dimensions
(mm)

Stroke + Retracted Length

4-M6

30

30

Retracted Length

4-M10

70

36

36
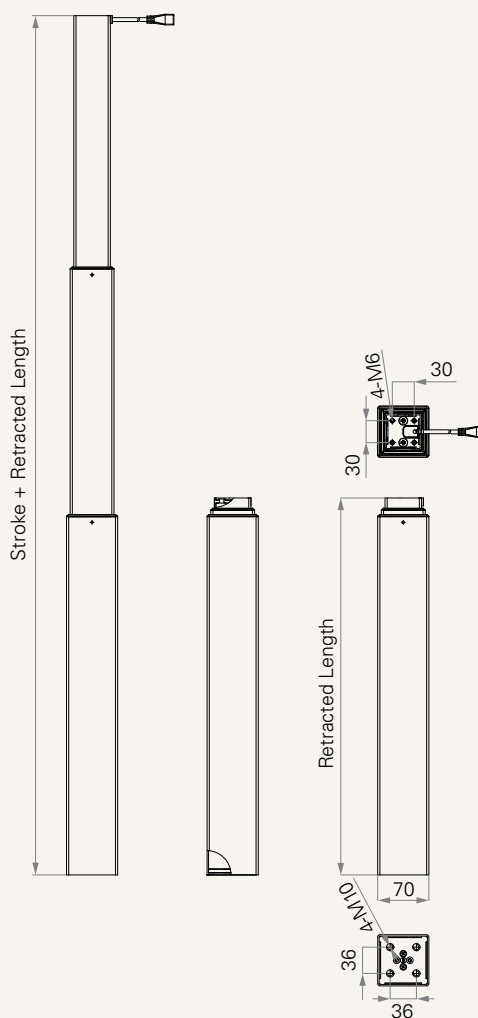
Load and Speed

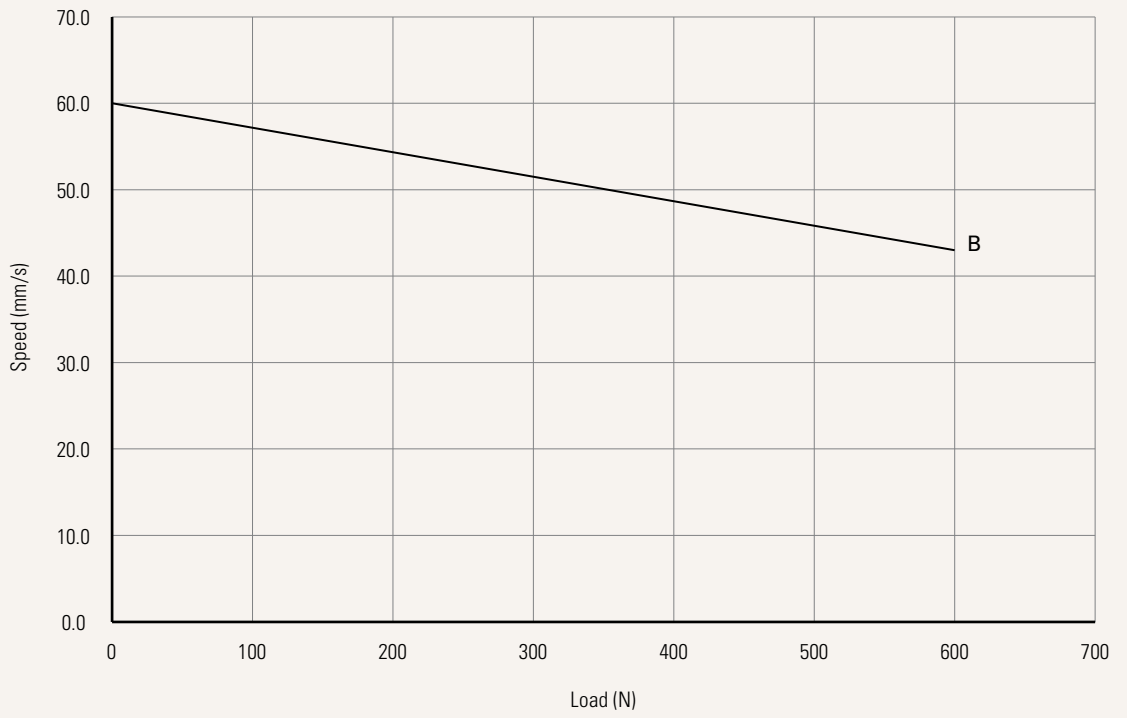| CODE	Load (N)	Self Locking Force (N)	Typical Current (A)		Typical Speed (mm/s)	
	Push		No Load 29VDC	With Load 29VDC	No Load 29VDC	With Load 29VDC
Motor Speed (5200RPM)						
B	600	900	2.5	5.5	60	43

Note

1 Above self lock performance needs working with Timotion control system.

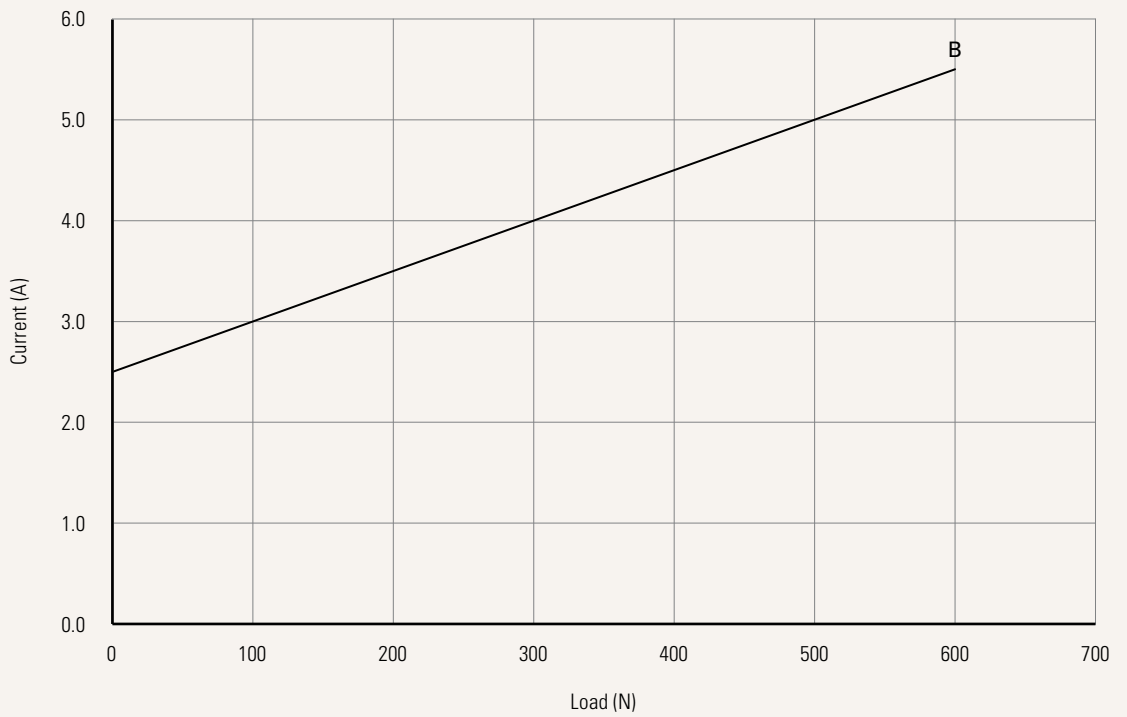**2** Parameters above are from tested average, please refer to approval drawing for final value.

Ti MOTION

Performance Data (24V DC Motor)

Motor Speed (5200RPM)

Speed vs. Load

Current vs. Load

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TL20 Ordering Key

Appearance of Tubes	B = With wiper fixing holes at sides
Voltage	2 = 24V DC
Load and Speed	See page 2
Stroke & Retracted Length (mm)	See page 5

Column Color		
	1 = Black, RAL 9005, Black wiper	7 = White, RAL 9016, White wiper
	2 = Grey, RAL 9006, Black wiper	8 = Special grey, RAL 9022, Grey wiper
	3 = White, RAL 9016, Black wiper	B = Matte black, RAL 7021, Black wiper
	4 = Special grey, RAL 9022, Black wiper	C = Graphite grey RAL7024, Black wiper
	6 = Grey, RAL 9006, Grey wiper	D = Matte black, RAL 7021, Matte Black wiper

Output Signals	2 = Hall sensor*2
Connector	H = Molex 6P, socket, standard
Cable Length (mm) See page 5	1 = Straight, 200, standard
Extension Cable Connector See page 5	1 = Molex 6 pin (plug) to Molex 8 pin (plug), 180°plug, standard 2 = Molex 6 pin (plug) to Din 6 pin (plug) 3 = Molex 6 pin (plug) to Molex 8 pin (plug), 90°plug, without anti-clip

Extension Cable Length (mm) See page 6		
1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500

Bracket	0 = Without

Note

1 The TL is designed especially for push applications, not suitable for pull applications.

TL20 Ordering Key Appendix

Stroke & Retracted Length (mm)

A. Stroke & Retracted Length (mm)

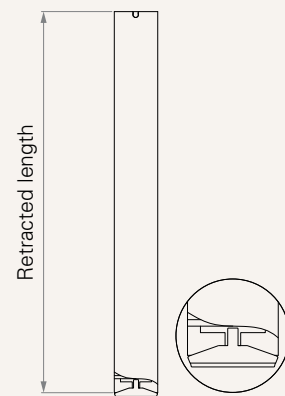| Foot Assembly	Stroke & Retracted Length		
	Standard	M	S
Standard, with Foot	650 / 590	660 / 560	660 / 520
Extended Outer Tube for Shoe (Excluding Shoe)	650 / 610	660 / 580	660 / 540

Note

1 Only specific TEK could be with the shoes, please refer to TEK speccode
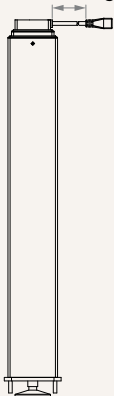
Foot Assembly

Standard, with foot

Extended outer tube for shoe (excluding shoe)

Retracted length

Retracted length
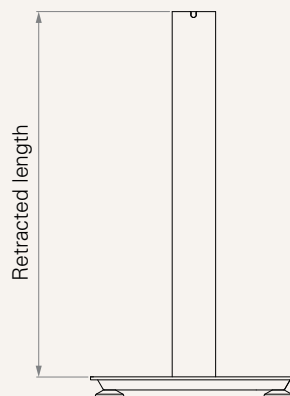
Cable Length (mm)

Cable Length

Extension Cable Connector

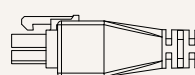1 = Molex 6 pin (plug) to Molex 8 pin (plug), 180°plug, standard
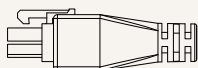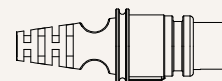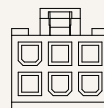

Molex 6 pin, plug
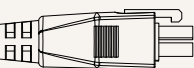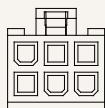
Molex 8 pin, plug
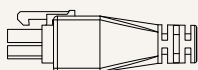
2 = Molex 6 pin (plug) to Din 6 pin (plug)

Molex 6 pin, plug
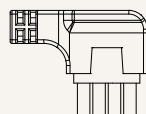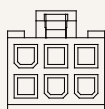
Din 6 pin, plug

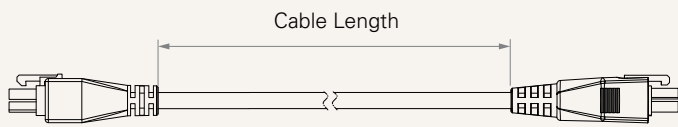3 = Molex 6 pin (plug) to Molex 8 pin (plug), 90°plug, without anti-clip

Molex 6 pin, plug

Molex 8 pin, plug

Extension Cable Length

Cable Length

Terms of Use

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