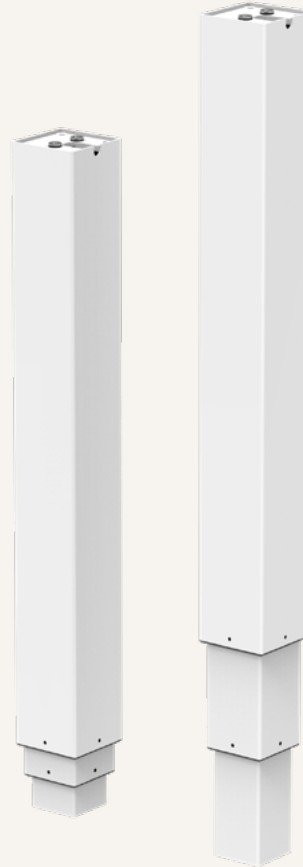# TL20R

series

Product Segments

• **Ergo Motion**

The TL20R has a three-stage telescopic outer tube design that has a wide top, narrow bottom square appearance, with an embedded inline actuator (TA20). The TL20R 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	590mm
Dimension of outer tube	3-stage, 70*70mm, square, upside down
Stroke	650mm
Options	Hall sensors
Operational temperature range	+5°C~+45°C

Drawing

Standard Dimensions
(mm)
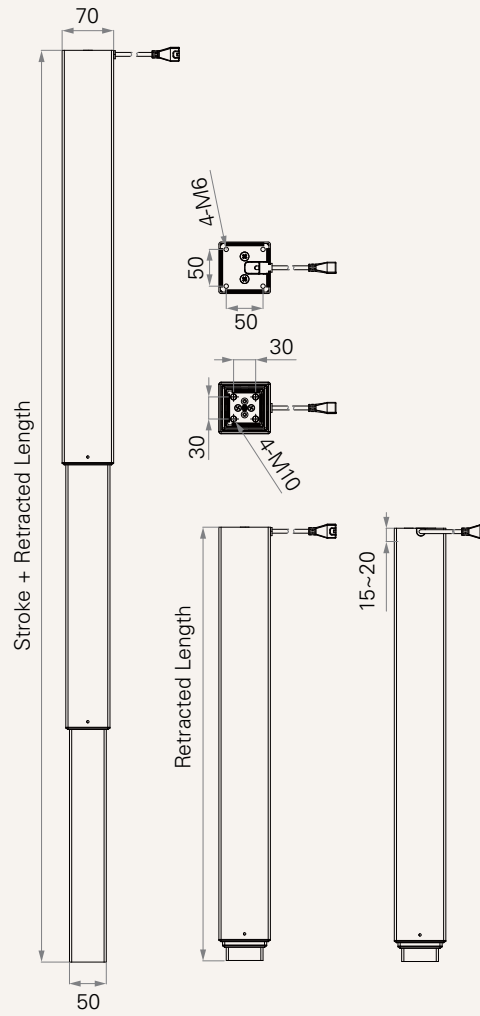
Load and Speed

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

Note

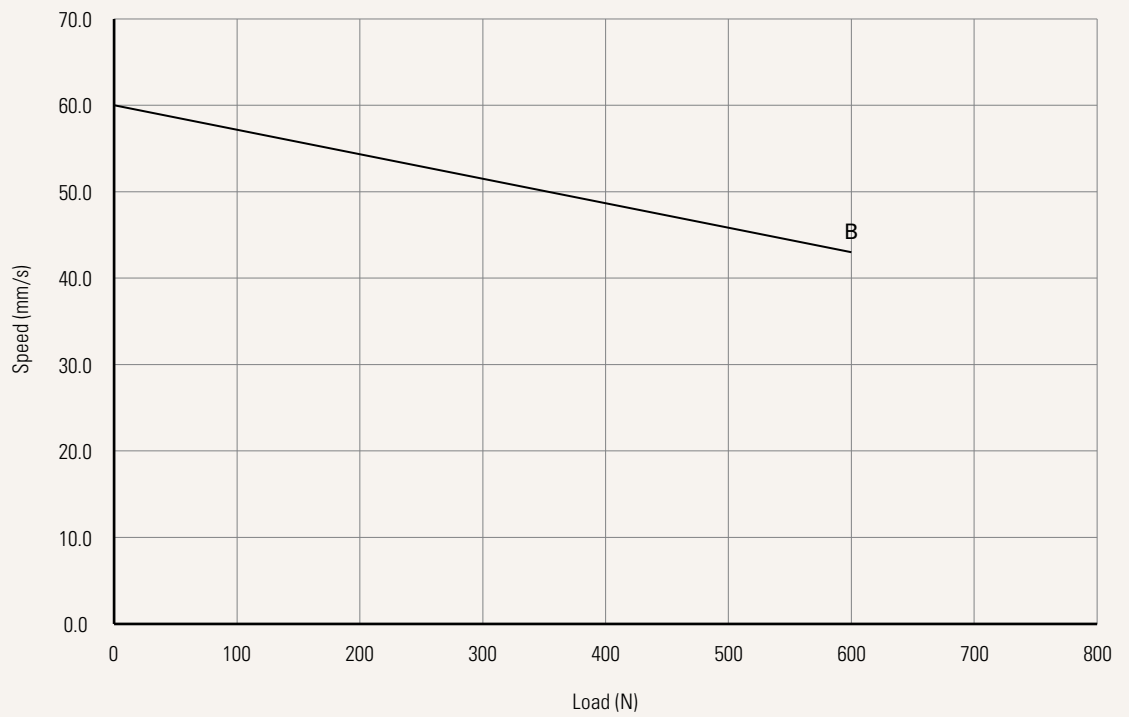**1** Above self lock performance needs working with Timotion control system.

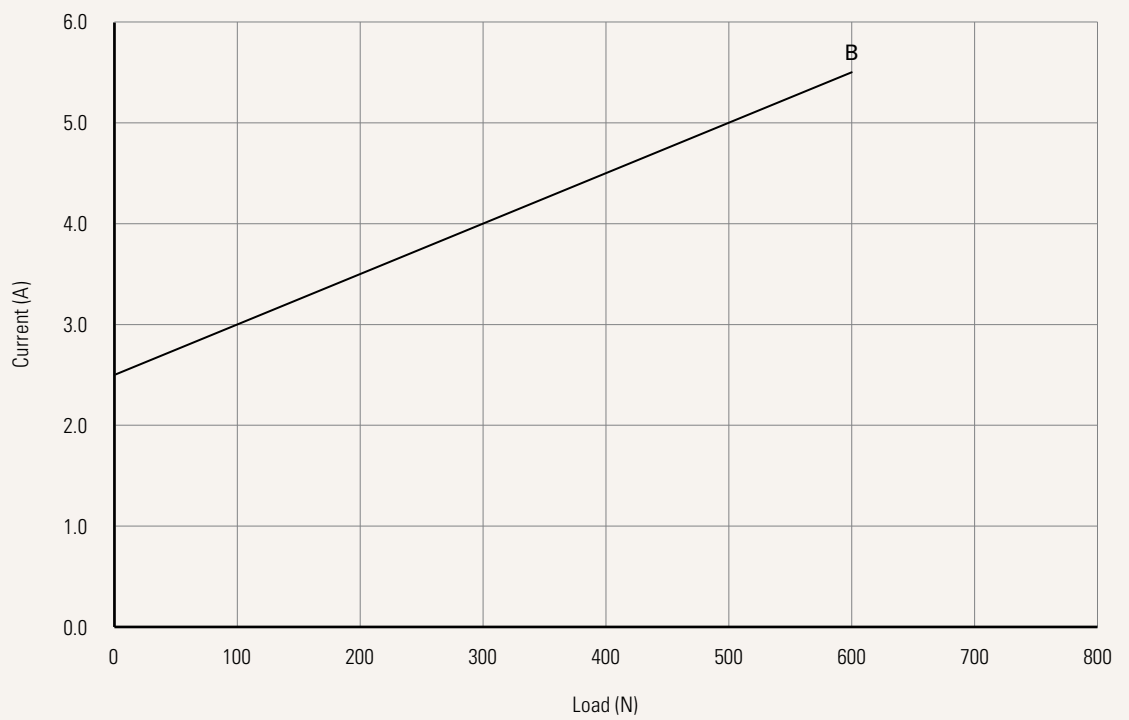**2** Parameters above are from tested average, please refer to approval drawing for final value.

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Performance Data (24V DC Motor)

Motor Speed (5200RPM)

Speed vs. Load

Current vs. Load

TL20R Ordering Key

TL20R

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
Cable Length (mm) See page 5	1 = Straight, 200, standard

Extension Cable Connector See page 5		
	0 = Without	2 = Molex 6 pin (plug) to Din 6 pin (plug)
	1 = Molex 6 pin (plug) to Molex 8 pin (plug)	

Extension Cable Length (mm) See page 6			
0 = Without	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500

Welding Part	0 = Without

Note

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

TL20R Ordering Key Appendix

Stroke & Retracted Length (mm)

A. Stroke & Retracted Length (mm)

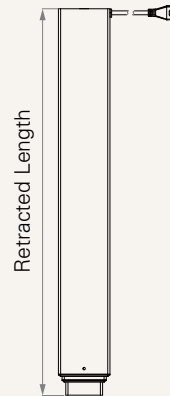| Foot Assembly	Stroke & Retracted Length
	Standard
Standard	650 / 590

Note

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

Foot Assembly
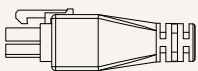
Standard

Retracted Length

Cable Length (mm)

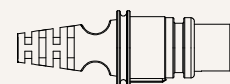1 = Straight, 200, standard

Cable Length
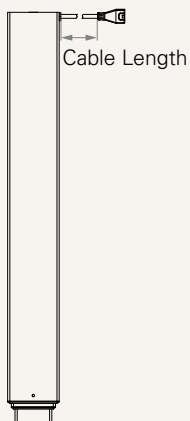
Extension Cable Connector

1 = Molex 6 pin (plug) to Molex 8 pin (plug)

Molex 6 pin, plug

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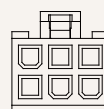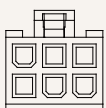
2 = Molex 6 pin (plug) to Din 6 pin (plug)
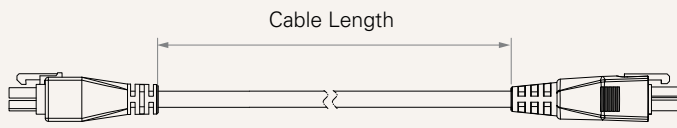

Molex 6 pin, plug

Molex 6 pin, plug

Extension Cable Connector

Cable Length

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