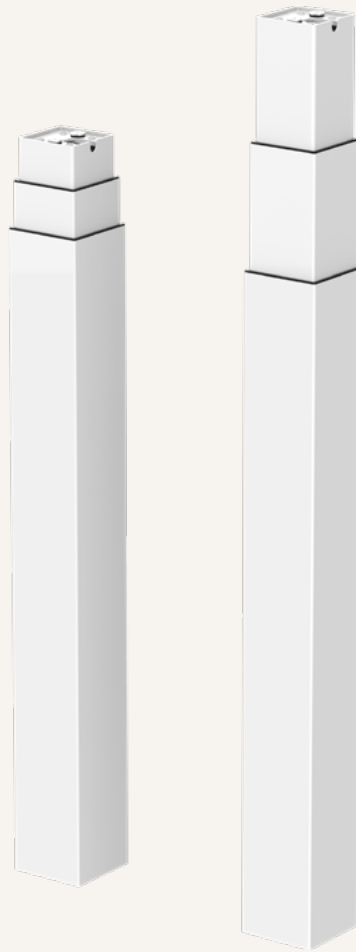


TL20S

series



Product Segments

• Ergo Motion

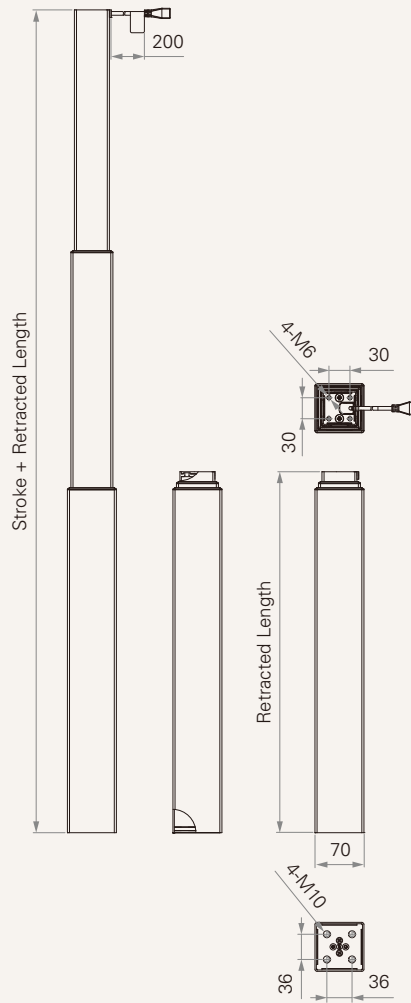
The TL20S has a three-stage telescopic outer tube design that has a narrow top and wide bottom square appearance, with an embedded inline actuator (TA20). The TL20S is ideally suited for ergonomic furniture applications as it comes without a motor housing. It is the perfect choice for design-oriented lifting furniture that needs a clean appearance while simultaneously optimizing space.

General Features

Max. load	700N (push)
Self-locking force	900N
Max. speed at max. load	35mm/s
Max. speed at no load	46mm/s
Retracted length	Standard (compatible with foot): 590 / 560 (M) / 520 (S) mm Extended (compatible with shoe): 610 / 580 (M) / 540 (S) mm
Dimension of outer tube	70*70mm, square
Stages	3-stage
Stroke	650 / 660 (M, S) mm
Output signals	Hall sensors
Voltage	24V DC
Inline column	

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)						
C	700	900	≤ 2.5	≤ 5.5	46	35

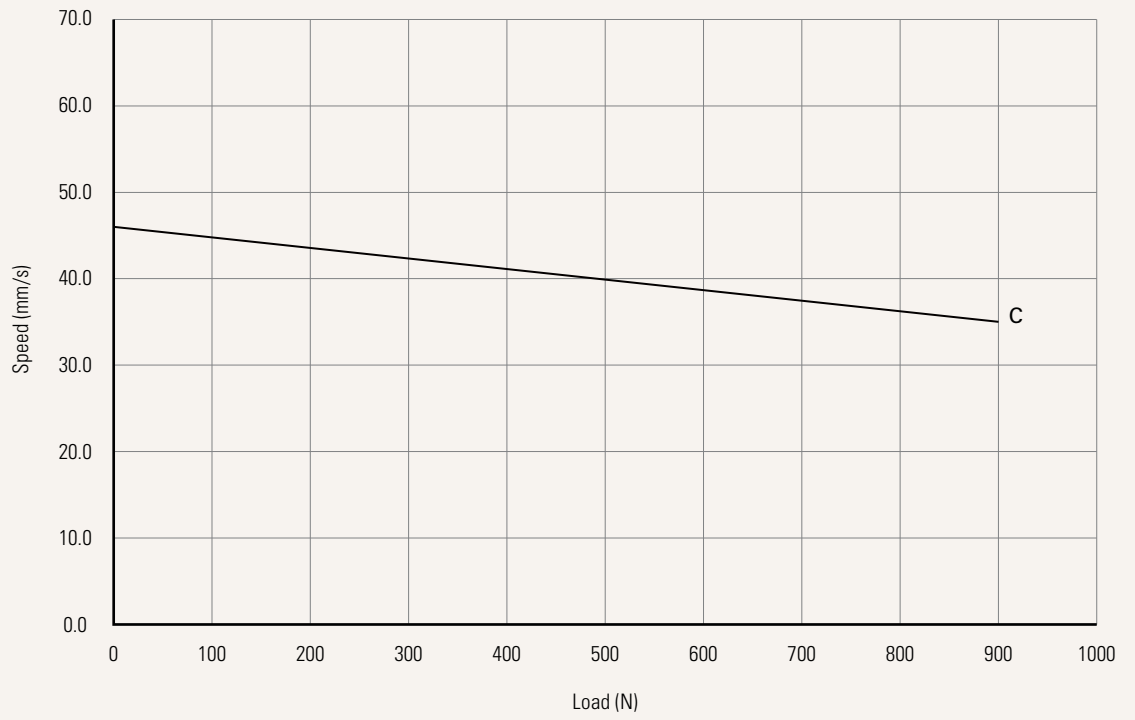
Note

- Above self lock performance needs working with Timotion control system.
- Parameters above are from tested average, please refer to approval drawing for final value.

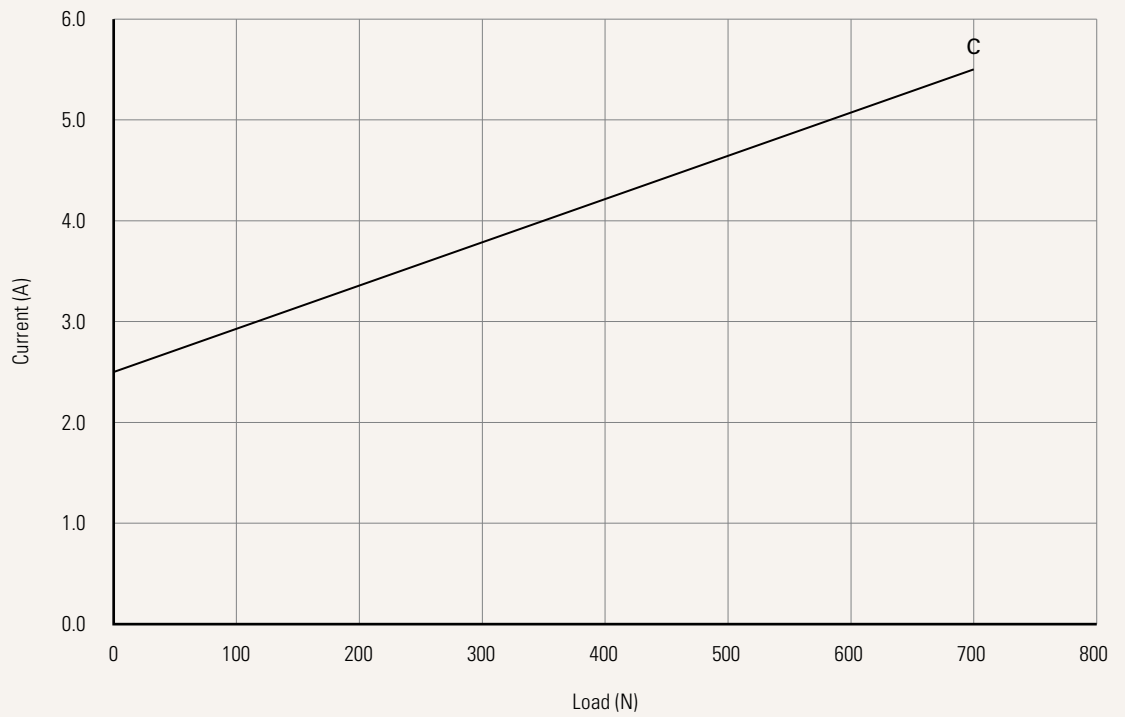
Performance Data (24V DC Motor)

Motor Speed (5200RPM)

Speed vs. Load



Current vs. Load



Appearance of Tubes	C = Without 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 2 = Grey, RAL 9006, Black wiper 3 = White, RAL 9016, Black wiper 4 = Special grey, RAL 9022, Black wiper 6 = Grey, RAL 9006, Grey wiper	7 = White, RAL 9016, White wiper 8 = Special grey, RAL 9022, Grey wiper B = Matte black, RAL 7021, Black wiper C = Graphite grey RAL7024, Black wiper D = Matte black, RAL 7021, Matte Black wiper	
Output Signals	2 = Hall sensor * 2		
Connector	H = Molex 6P, socket, standard		
Cable Length (mm)	1 = Straight, 200, standard See page 5		
Extension Cable Connector	0 = Without 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 See page 5		
Extension Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500 See page 6
Bracket	0 = Without		

Note

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

Stroke & Retracted Length (mm)

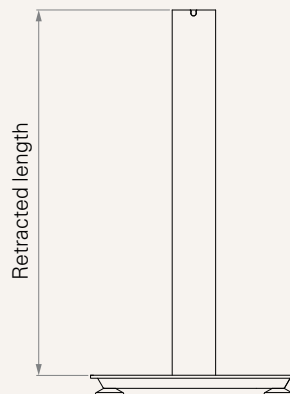
Foot Assembly	Stroke & Retracted Length		
	Standard	M	S
Standard, for Foot (Excluding Foot)	650 / 590	660 / 560	660 / 520
Extended Outer Tube for Shoe (Excluding Shoe)	650 / 610	660 / 580	660 / 540

Note

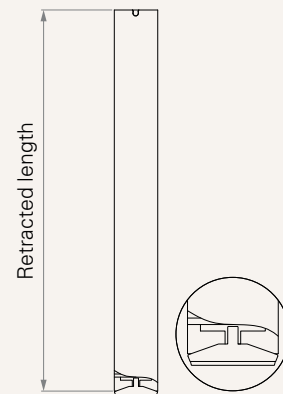
1 Only specific TEK could be with the shoes, please refer to TEK speccode

Foot Assembly

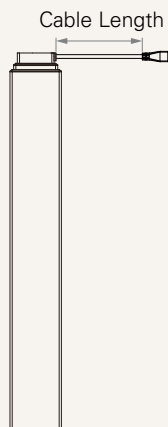
Standard, for foot (excluding foot)



Extended outer tube for shoe (excluding shoe)

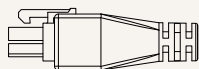


Cable Length (mm)

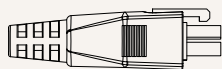


Extension Cable Connector

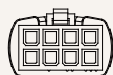
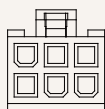
1 = Molex 6 pin (plug) to Molex 8 pin (plug), 180°plug, standard



Molex 6 pin, plug



Molex 8 pin, plug



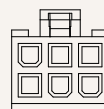
2 = Molex 6 pin (plug) to Din 6 pin (plug)



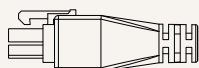
Molex 6 pin, plug



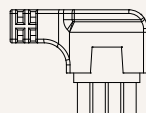
Din 6 pin, plug



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



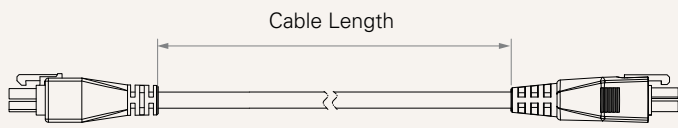
Molex 6 pin, plug



Molex 8 pin, plug



Extension Cable Length



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