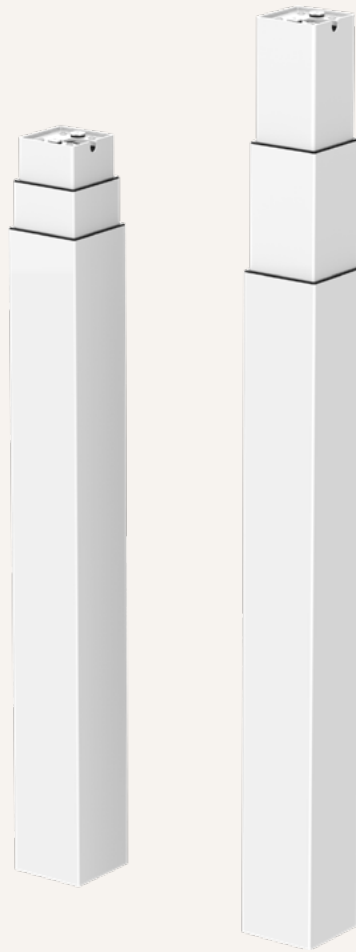


TL20S

series



Product Segments

• Ergo Motion

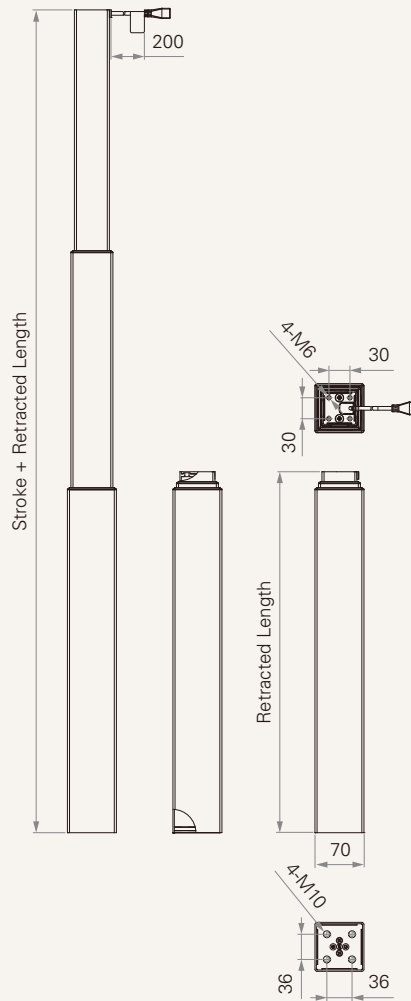
The TL20S has a three-stage telescopic outer tube design that has a narrow top and wide bottom square appearance, with an embedded inline actuator (TA20). The TL20S is ideally suited for ergonomic furniture applications as it comes without a motor housing. It is the perfect choice for design-oriented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

General Features

Max. load	700N (push)
Self-locking force	700N
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	700	≤ 2.5	≤ 5.5	46	35

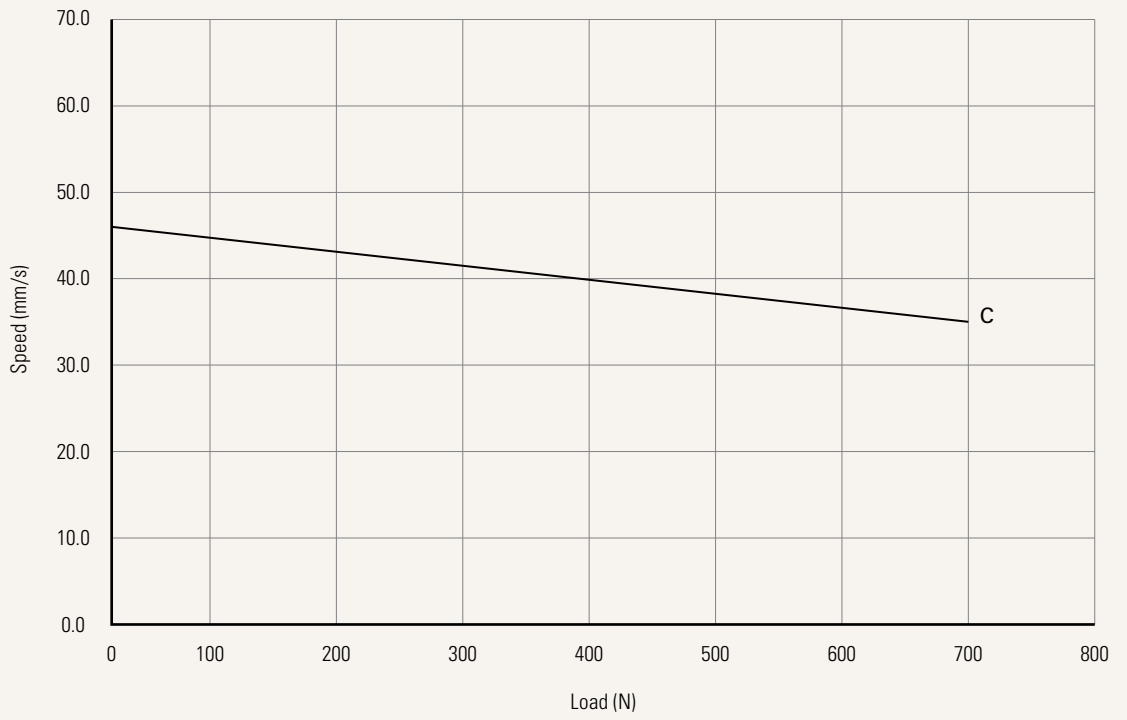
Note

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

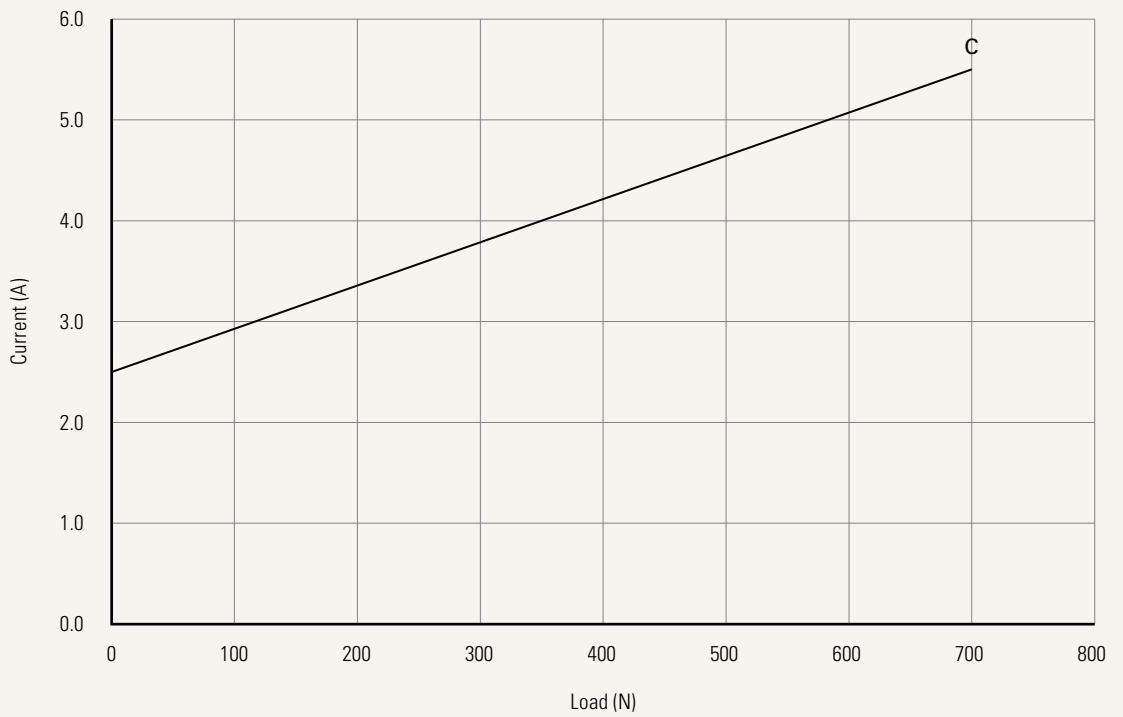
Performance Data (24V DC Motor)

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	2 = White, RAL 9016	3 = Grey, RAL 9006	4 = Special grey, RAL 9022
Wiper Color	1 = Black	2 = White	3 = Grey	4 = Matte black
Bracket	0 = Without			
Bottom Plate Type (mm)	1 = M10, 36*36	2 = M6, 36*36		
Top Plate Type (mm)	2 = M6, 30*30			
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			
Extension Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	
	See page 6			

Note

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

Stroke & Retracted Length (mm)

Standard Outer Tube Compatible with Foot (Excluding Foot)

	Stroke	Retracted Length
Standard	650	590
M	660	560
S	660	520

Extended Outer Tube Compatible with Shoe (Excluding Shoe)

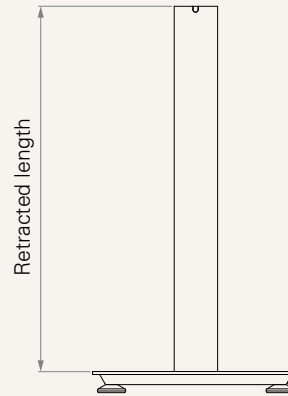
	Stroke	Retracted Length
Standard	650	610
M	660	580
S	660	540

Note

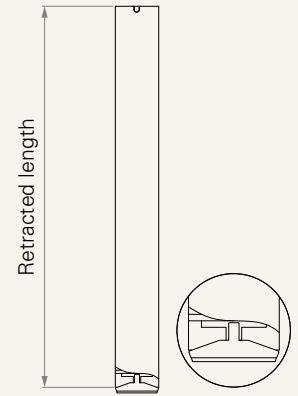
1 Only specific TEK could be with the shoes, please refer to TEK speccode

Foot Assembly

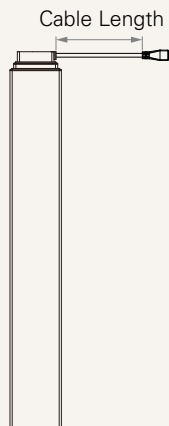
Standard outer tube compatible with foot (excluding foot)



Extended outer tube compatible with shoe (excluding shoe)

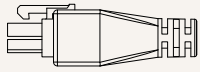


Cable Length (mm)

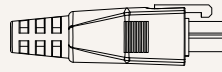
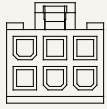


Extension Cable Connector

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



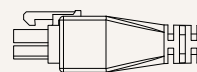
Molex 6 pin, plug



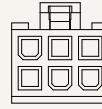
Molex 8 pin, plug



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



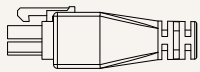
Molex 6 pin, plug



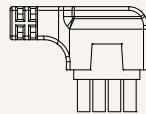
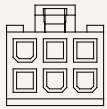
Din 6 pin, plug



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



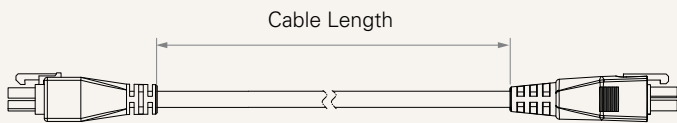
Molex 6 pin, plug



Molex 8 pin, plug



Extension Cable Length



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