

TL6

series



Product Segments

• Ergo Motion

The TL6 has a three stage telescopic outer tube that is designed for a narrow-top, wide-bottom round appearance, with an inline actuator (TA20) embedded. Without a motor housing design, it is suitable for ergonomic furniture applications. It is the perfect choice for design-oriented lifting furniture in need of a neat structure and space optimization.

General Features

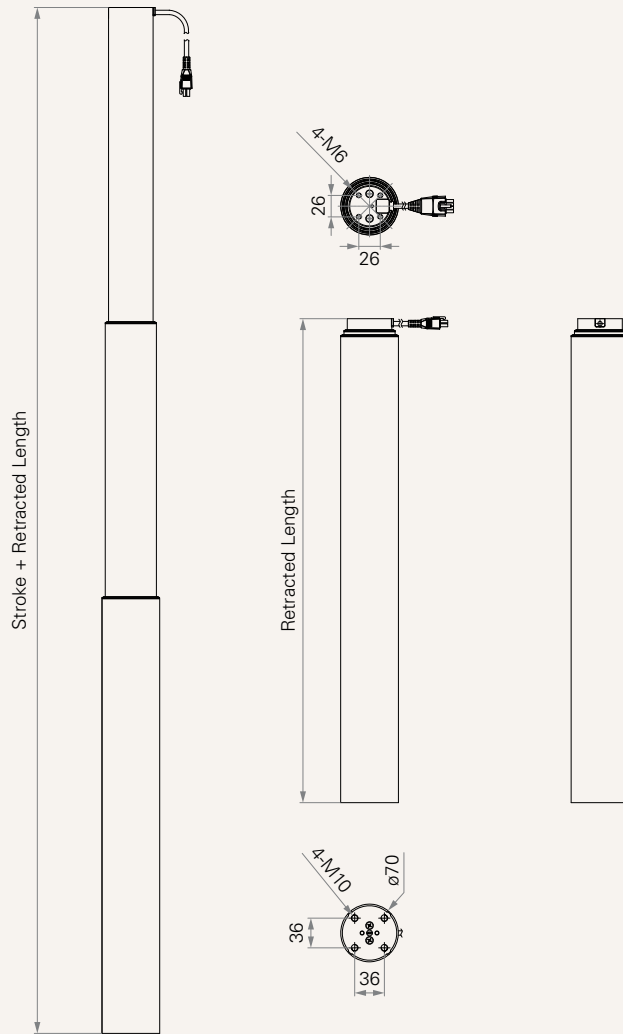
Max. load	700N (push)
Max. speed at max. load	35mm/s
Max. speed at no load	46mm/s
Retracted length	Standard (compatible with foot): 590 / 560(M) / 520(S)mm Extended (compatible with shoe): 610 / 580(M) / 540(S)mm
Dimension of outer tube	Ø70mm round
Stages	3-stage
Stroke	650 / 660 (M, S)mm
Output signals	Hall sensors
Voltage	24V DC
Operational temperature range	+5°C~+45°C

Inline column

The TL6 can only be used in pairs; single column usage is not recommended

Drawing

Standard Dimensions (mm)



Load and Speed

CODE	Load (N) Push	Self Locking Force (N)	Typical Current (A)		Typical Speed (mm/s)	
			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
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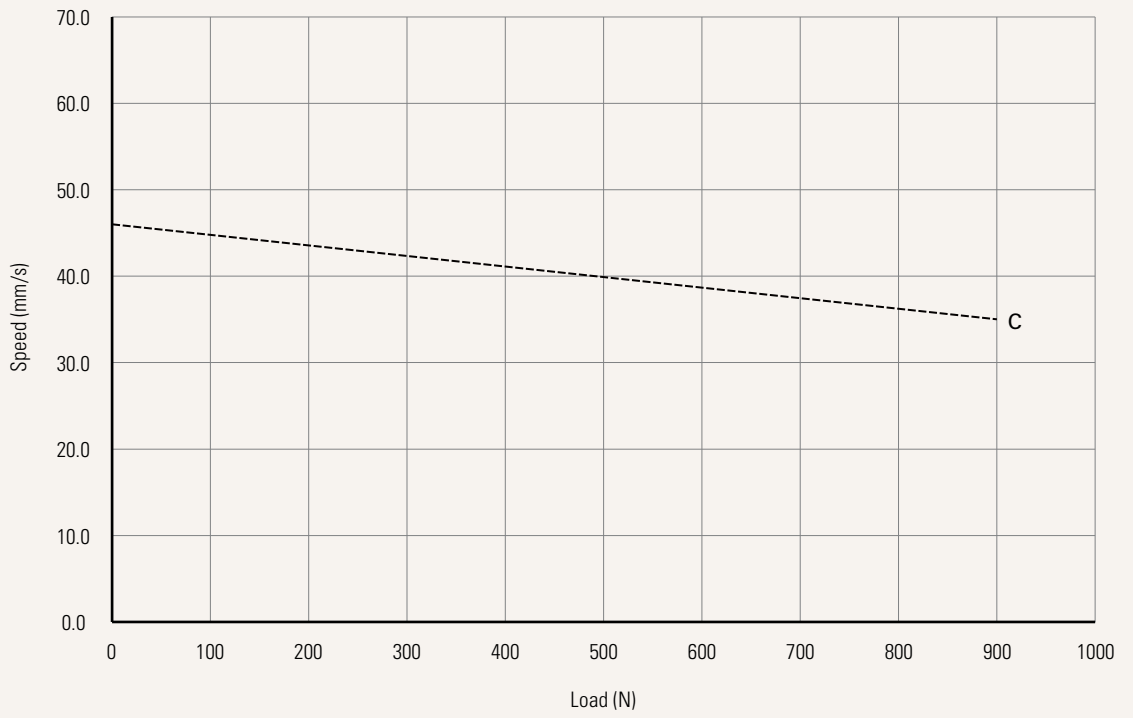
Note

- 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.

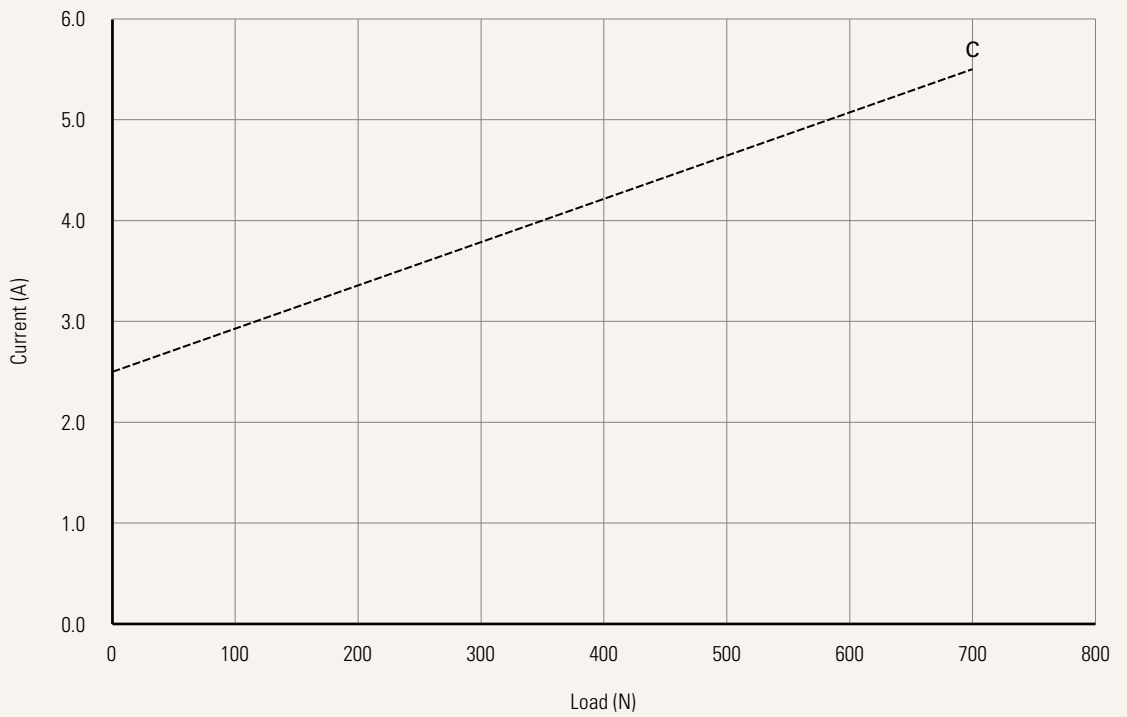
Performance Data (29V DC Motor)

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 Signal	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	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) See page 6	0 = Without	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500
Bracket	0 = Without			

Note

¹ The TL6 is designed especially for push applications, not suitable for pull applications.

Stroke & Retracted Length (mm)

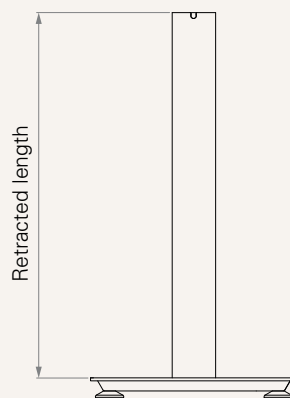
Foot Assembly	Stroke & Retracted Length		
	Standard	M	S
Standard, for foot (Excluding foot)	650 / 590	660 / 560	660 / 520
Extended Outer Tube for Shoe (Excluding Shoe)	650 / 610	660 / 580	660 / 540

Note

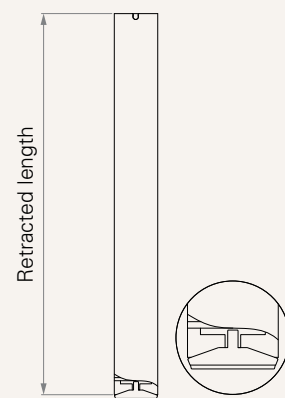
1 Only specific TEK could be with the shoes, please refer to TEK speccode

Foot Assembly

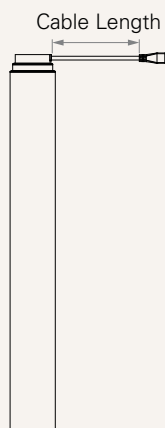
Standard, for foot (excluding foot)



Extended outer tube for shoe (excluding shoe)

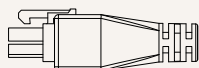


Cable Length (mm)

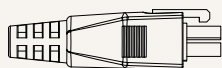


Extension Cable Connector

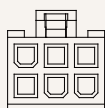
1 = Molex 6 pin (plug) to Molex 8 pin (plug), 180° plug, standard



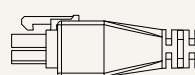
Molex 6 pin, plug



Molex 8 pin, plug



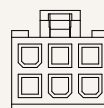
2 = Molex 6 pin (plug) to Din 6 pin (plug)



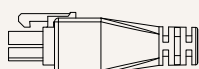
Molex 6 pin, plug



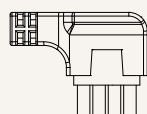
Din 6 pin, plug



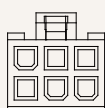
3 = Molex 6 pin (plug) to Molex 8 pin (plug), 90° plug, without anti-clip



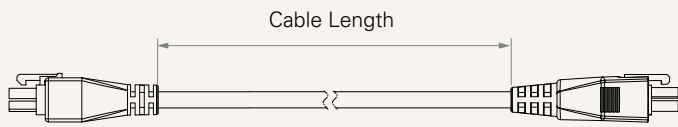
Molex 6 pin, plug



Molex 8 pin, plug



Extension Cable Length



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