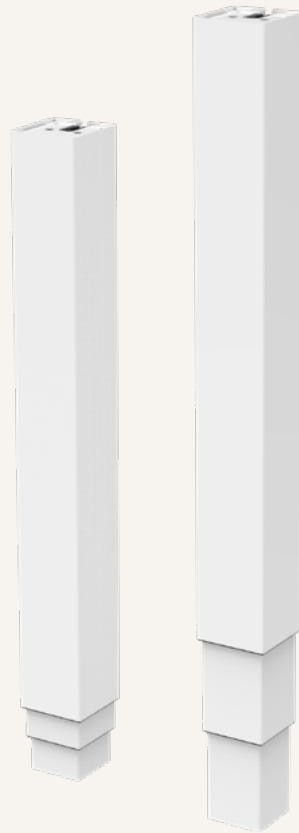# TL20SR
series

Product Segments

- **Ergo Motion**

The TL20SR has a three-stage telescopic outer tube design that has a wide top, narrow bottom square appearance, with an embedded inline actuator (TA20). The TL20SR 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.

Features

• Load and speed per column[1][2]

Code	Load (N) Push	Self Locking Force (N)	Current (A) with 29V DC		Speed (mm/s) with 29V DC	
			No Load	With Load	No Load	With Load
C	700	700	≤ 2.5	≤ 5.5	46.0	35.0

• Retracted length   590mm

• Stroke   650mm

• Outer profile   70*70mm square

• Stages   3-stage, upside down

• Output signals   Hall sensors

• Voltage   24V DC

• Color[3]   ⬤ RAL9005   ⬤ RAL9006   ◯ RAL9016   ⬤ RAL9022

• Operational temperature range   +5°C~+45°C

• Product Weight   6.5kg /column

• Inline column

Note

1 The self locking force, current, and speed performance are tested with TiMOTION control boxes.

2 The parameters are based on average test values; final specifications are subject to the approval drawings.

3 For more color options, please consult your sales representative.

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Performance Data with Control Box

The following is the performance data of two columns driven by an Ergo Motion control box TC15S. The load is evenly distributed on the work surface.[4]
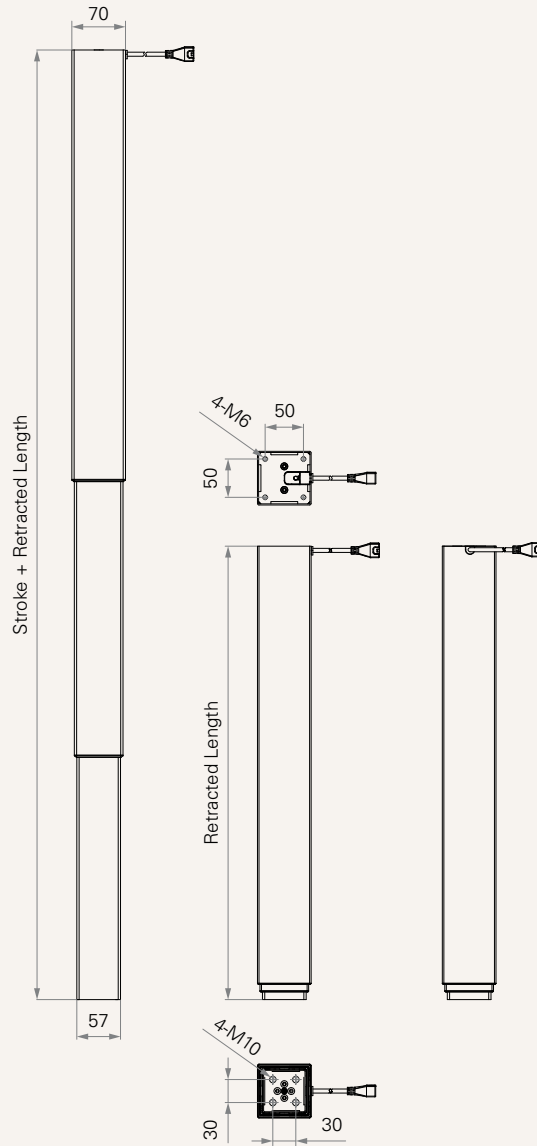
• TL20SR, two columns driven by TC15S
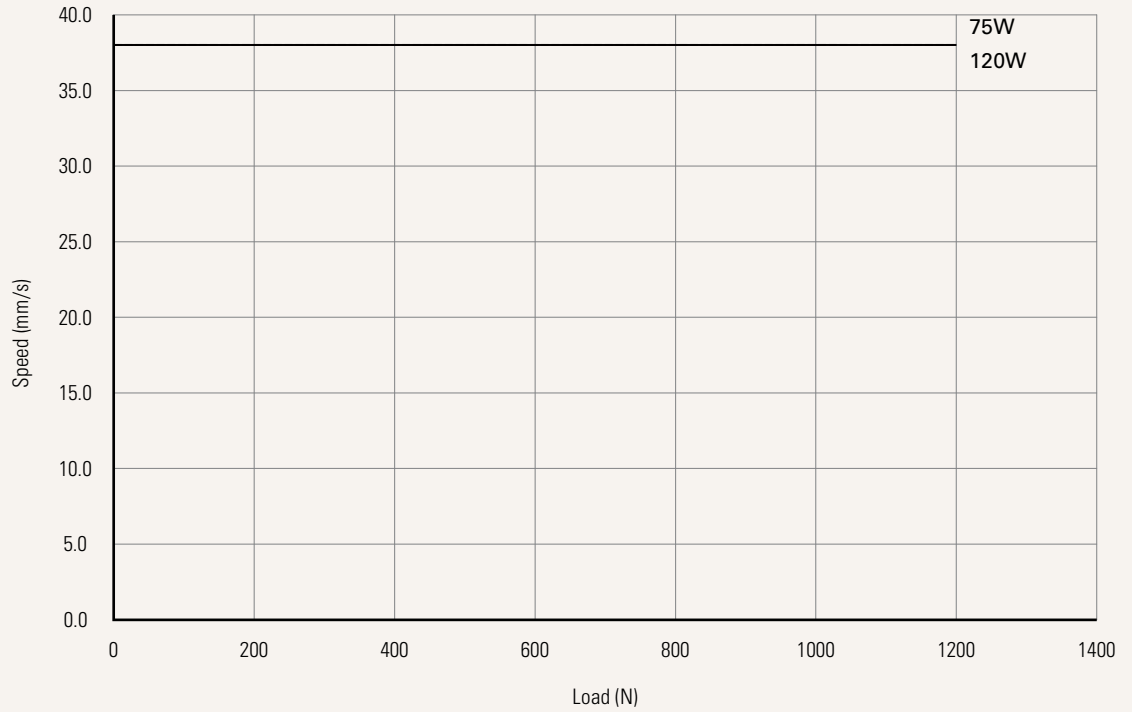
TC15S Spec	Load (N)	Constant Speed (mm/s) with TC15S
75W	1200	38
120W	1200	38

Note

4 The corresponding control box software is required.

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Drawing

Standard Dimensions
(mm)

70

Stroke + Retracted Length

4-M6

50

50

Retracted Length

57

4-M10

30

30

Stroke & Retracted Length

Options	Stroke (mm)	Retracted Length (mm)
Standard	650	590

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TL20SR Ordering Key

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TL20SR

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 4			
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) See page 6	1 = M10	3 = M6		
Top Plate Type (mm)	2 = M6			
Output Signals	2 = Hall sensor * 2			
Connector	H = Molex 6P, socket, standard			
Cable Length (mm)	1 = Straight, 200, standard			
Extension Cable Connector See page 6	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	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	

Note

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

TL20SR Ordering Key Appendix
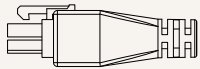
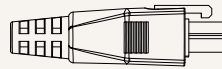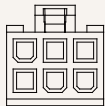## Bottom Plate Type

1 = M10

30
30
4-M10

3 = M6
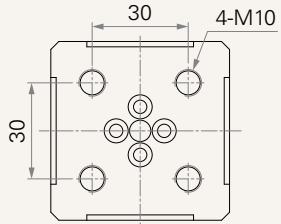
36
36
4-M6
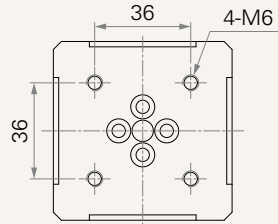
Extension Cable Connector

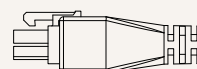1 = Molex 6 pin (plug) to Molex 8 pin (plug), 180°plug, standard

Molex 6 pin, plug

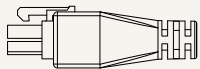Molex 8 pin, plug

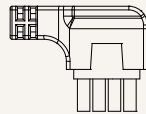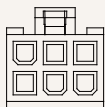2 = Molex 6 pin (plug) to Din 6 pin (plug)

Molex 6 pin, plug

Din 6 pin, plug

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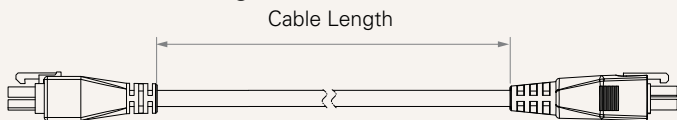
Molex 6 pin, plug

Molex 8 pin, plug

Extension Cable Length
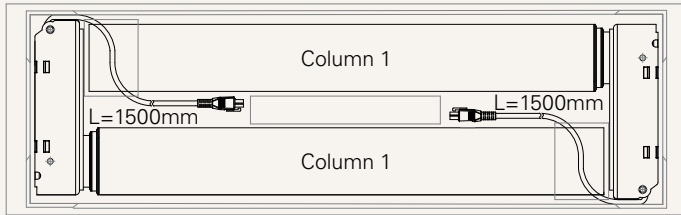
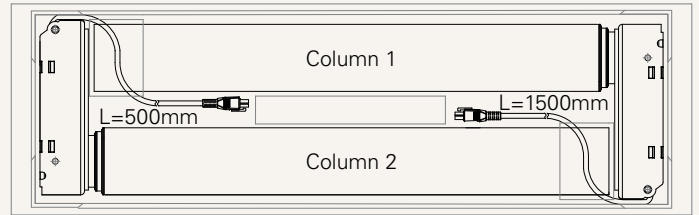Cable Length

Package

Package of one TL part number

Column: 2pcs TL/box (Same PN& cable length)
Electronic control system: Without
Weight with package: 14KG
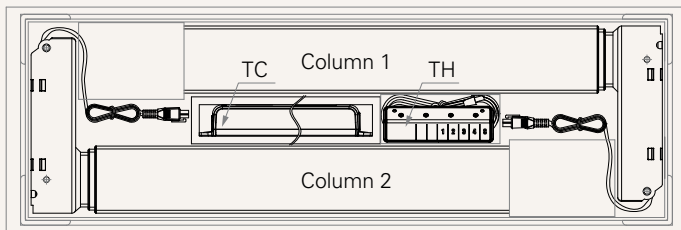
Package of two TL part numbers in pairs

Column: 2pcs TL/box (Different PN, cable length, for pair use)
Electronic control system: Without
Weight with package: 14KG

Package of MP part number set-TL in pairs + electronic control system

Column: 2pcs TL/box (Different PN, cable length, for pair use)
Electronic control system: TC + TH
Weight with package: 15KG

Terms of Use

The user is responsible for determining the suitability of TiMOTION products for a specific application.
TiMOTION products are subject to change without prior notice.