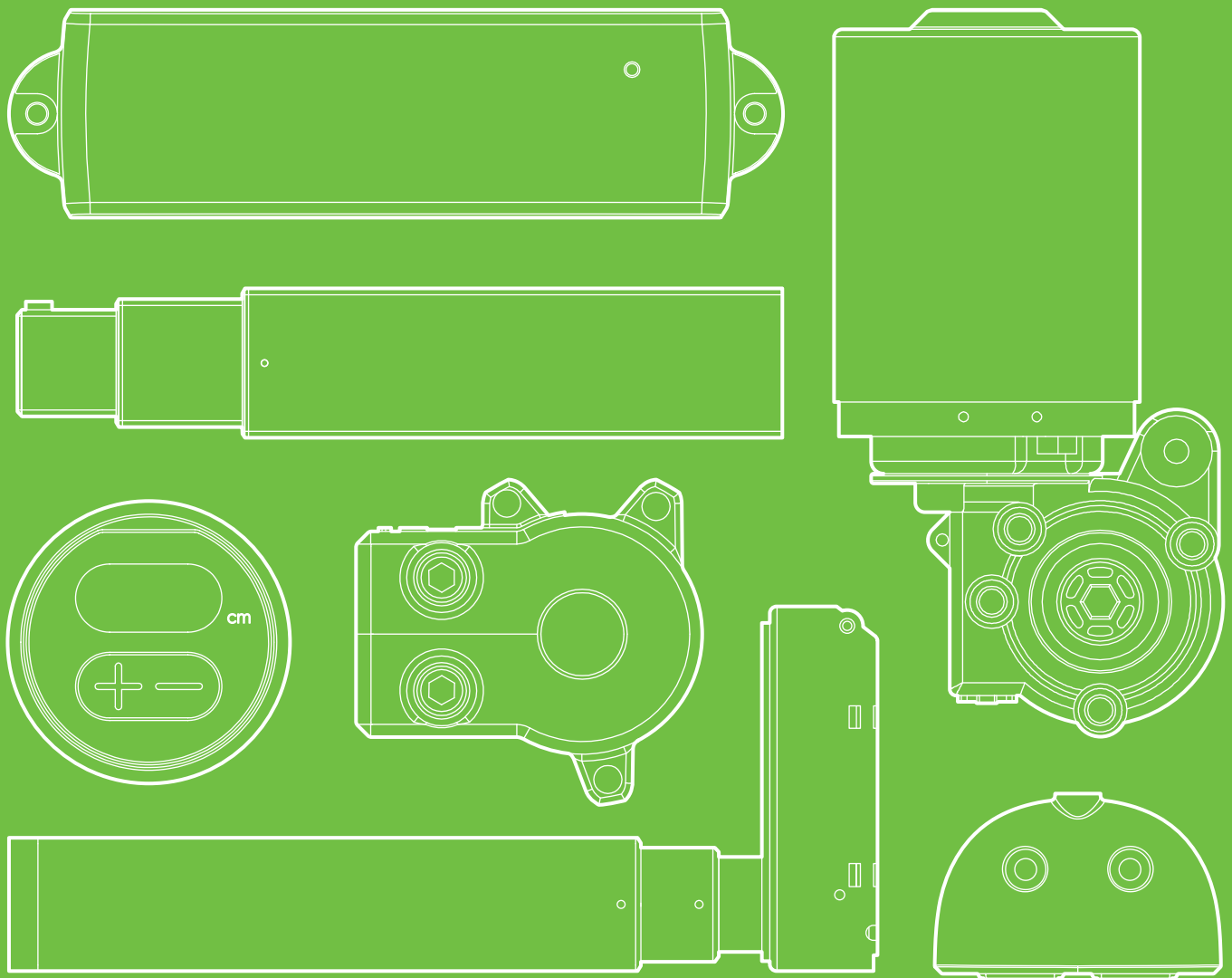


TiMOTION ENRICHES YOUR LIFE

Custom Designed for
Height-Adjustable Desks



99%

of TiMOTION's customer application requirements can be solved by our experienced personnel providing highly customized solutions.

101%

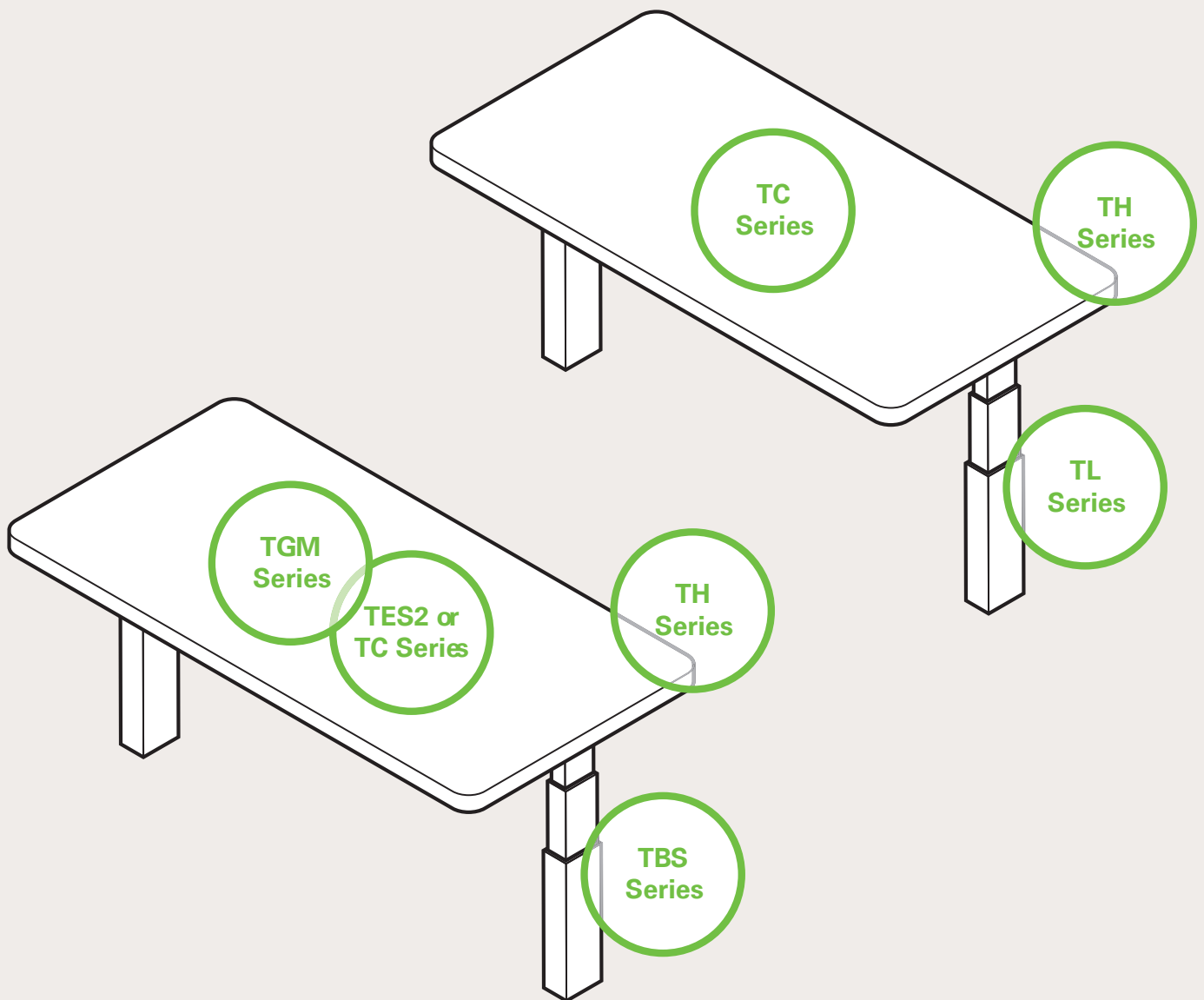
TiMOTION guarantees complete customer satisfaction by providing a competitive packaged actuator solution coupled with a wide range of high quality products, global service networks and "on demand" R&D resources.

Features and Benefits of TiMOTION Actuation Systems for Office and Work Applications

- 5 year warranty
- Anti-crush safety feature
- Controls with memory functionality
- Easy installation
- High strength
- Telescopic column design
- Low noise level-39dB
- Multiple motor choices:
gear motors, columns, or Ergo Kits
- 0.06W standby power consumption

TiMOTION Ergo Motion products provide you with the total solution

Designing an ergonomic workplace with adjustable work surfaces increases employee productivity. It also reduces health related problems due to non-healthy sitting positions. Employees are more alert throughout the workday because of increased flexibility and comfort by using height adjustable desks.

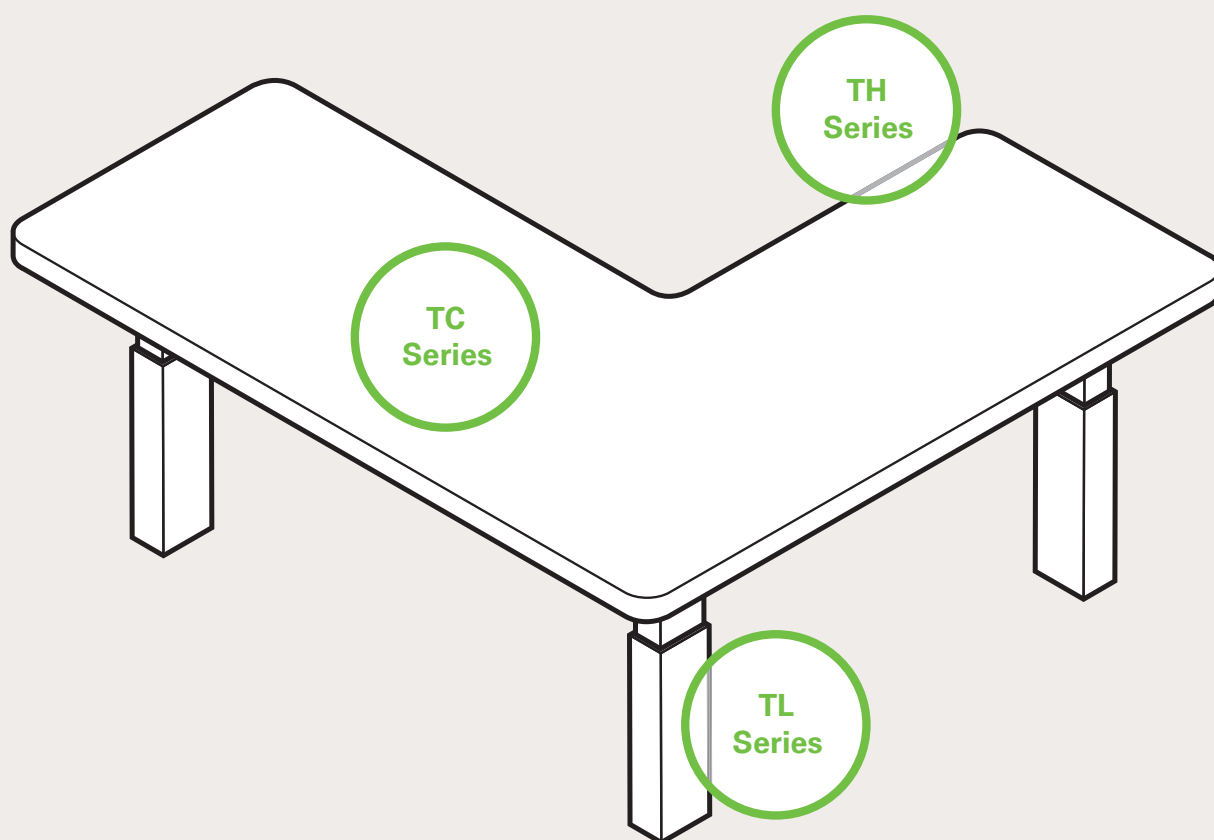


Multiple Motor Choices

- Gear motors
- Lifting columns
- Prepackaged Ergo Kits

Various Control Choices

- Touch panels
- Memory functions for desk height
- Customized user interface available



Eco Efficient

Control boxes are designed for less than 0.06W of standby power consumption

Optional Customized Software Programming

The average software development time is within 7 working days*.

*Actual development time is decided by a project's complexity.





TGM1 series



TGM2 series



TGM3 series

Highlights of TGM series

Our TGM series gear motors are an economical alternative to columns. Using compatible TiMOTION control boxes, the TGM works with external spindle sets to adjust the desk height with synchronous movement.

For eco-efficiency, all control boxes from our Ergo Motion product line have an option for less than 0.06W standby power consumption. TiMOTION TC-series control boxes incorporate a Microcontroller Unit (MCU) that read pulses transmitted by Hall sensor(s) to control the desk leg movement. The MCU can also be configured for more complex functionality, such as displaying the desktop position on a touch panel display. For a more economical alternative, the TGM can also be supplied with TBS Series external shafting and TES2 External Limit Switches.



TGM4 series



TGM7 series

Technical data for the TGM series

Model	TGM1	TGM2	TGM3	TGM4	TGM7
Voltage of motor	24V DC or 24V DC(UL)	24V DC	24V DC	24V DC	24V DC
Max. rated torque (Nm)	6.8	15	4.5	3.2	6.0
Max. speed at no load (RPM)*	260	107	260	167	180
Input current (A)	4.5	8	3.5	3.5	6.0
Output signal	Yes				
Plug support	Tinned leads, DIN 6pin, or Molex 8pin				
TES2 support	Yes				

*Note: (±7%) after gear reduction

Highlights of TL series

TiMOTION's TL series lifting columns are specifically designed for use in ergonomic desks and work tables. Using multiple TL series lifting columns with compatible TC series Control Boxes and TH/TDH series controls, work surfaces can be controlled quietly and smoothly with synchronous movement. All Ergo Motion TC series control boxes have a less than 0.06W standby power option that reduces power consumption. Our wide range of columns offer customers the devices they require to satisfy their working environment project requirements.

Technical data for the TL series

Model	TL4	TL7	TL9	TL10
# of telescopic stages	Three part			
Shape	Square	Square	Round	Rectangular
Features	Narrow top / Wide bottom	Wide top / Narrow bottom	Narrow top / Wide bottom	
Size (mm)	70*70	70*70	ø70	80*60
Max. rated load (N)	800			
Max. speed at no load (mm/s)	58			
Max. speed at full load (mm/s)	28			
Stroke (mm)	650 / 660(BIFMA)			
Min. dimension (mm)	590 / 560(BIFMA)			



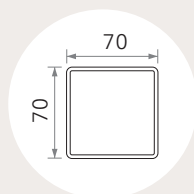
TL11		TL12		TL13	TL14	TL15
Three part				Two part		
Round	Rectangular			Square	Round	Rectangular
Wide top / Narrow bottom				Narrow top / Wide bottom		
ø70	80*60			70*70	ø70	80*60
800				800		
58				46		
28				28		
650 / 660(BIFMA)				500		
590 / 560(BIFMA)				645		

Column Appearances

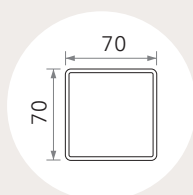
Our Ergo Motion product line includes 9 standard columns with motor housings, which all fit the same desk frame. Our TEK series Ergo Kits provide an economical solution for ergonomic surface design.

- Rectangular, round or square appearances
- Two or three part telescopic outer tubes
- Columns can be configured for wide top/narrow bottom, or vice versa depending on preference

TL4
series



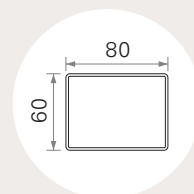
TL7
series



TL9
series



TL10
series



TL11
series



TL12
series



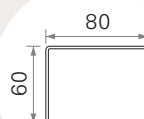
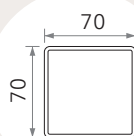
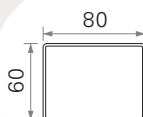
TL13
series



TL14
series



TL15
series

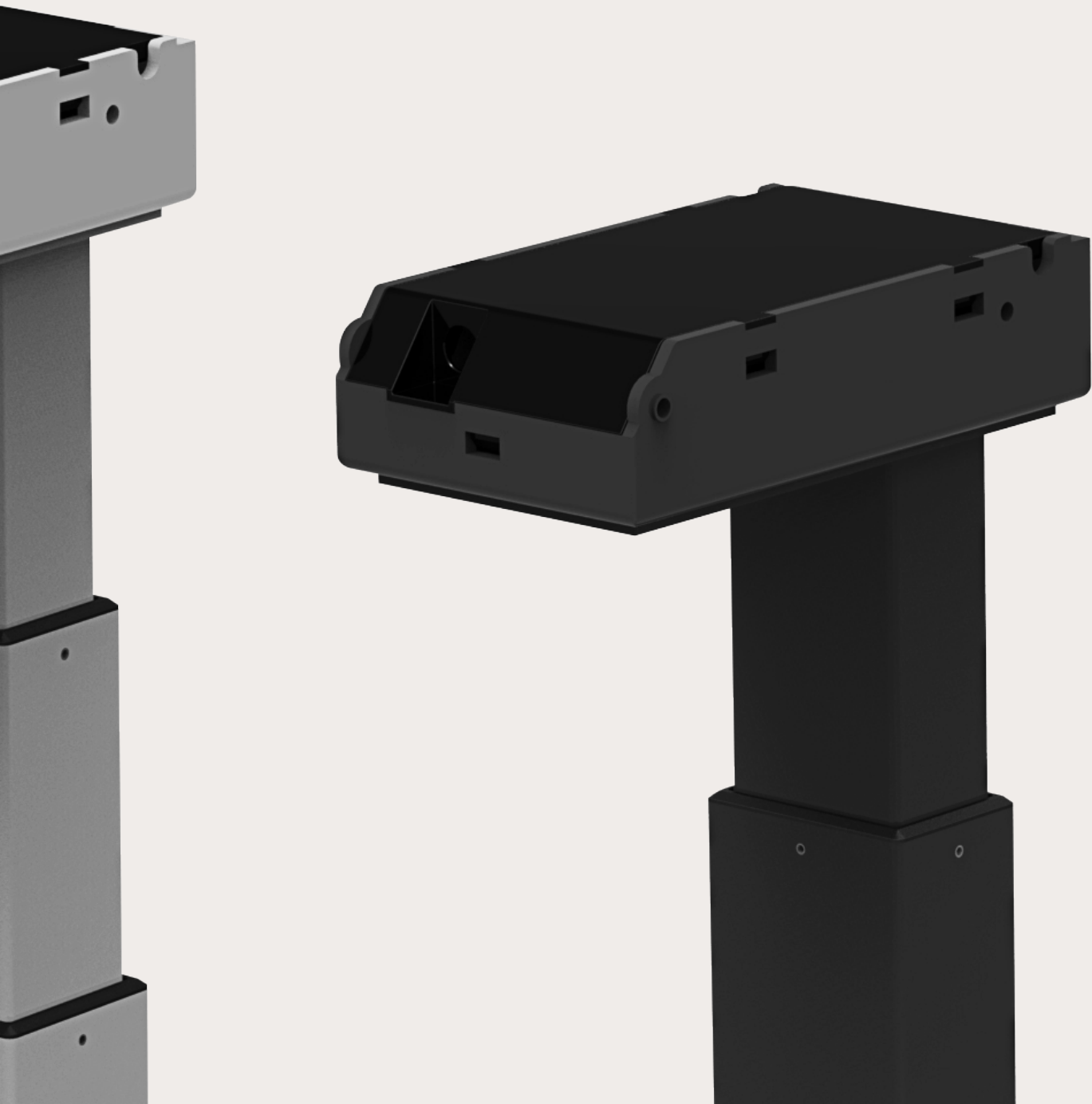


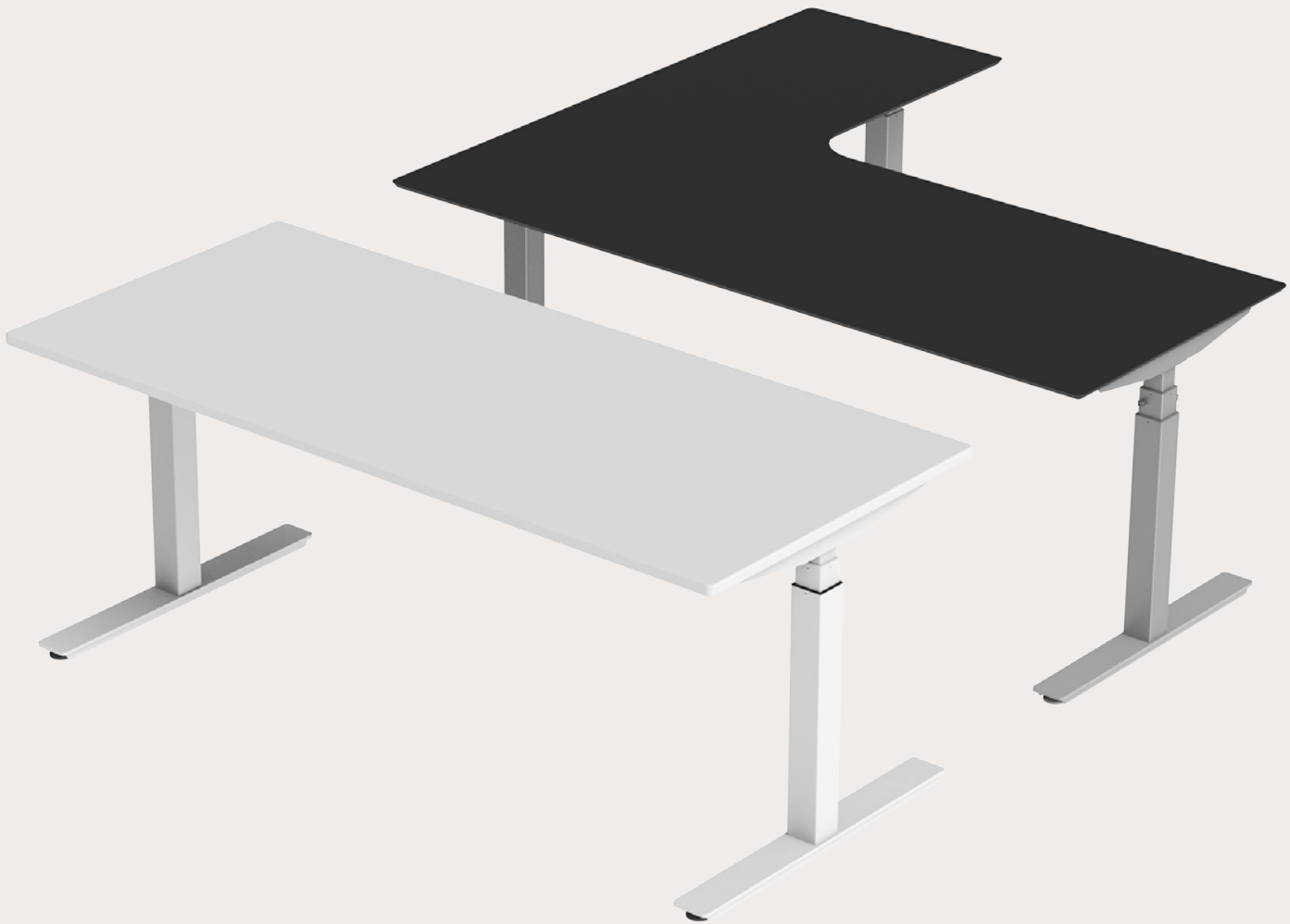
Unit: mm



Four standard colors

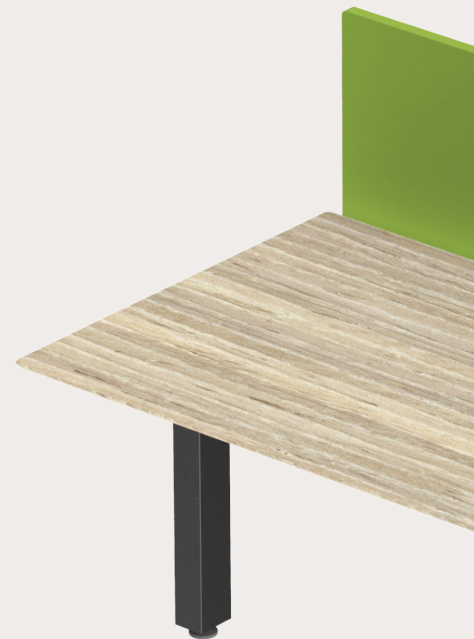
- Black (RAL 9005)
- Grey (RAL 9006)
- White (RAL 9016)
- Special Grey (RAL 9022)





Highlights of TEK series

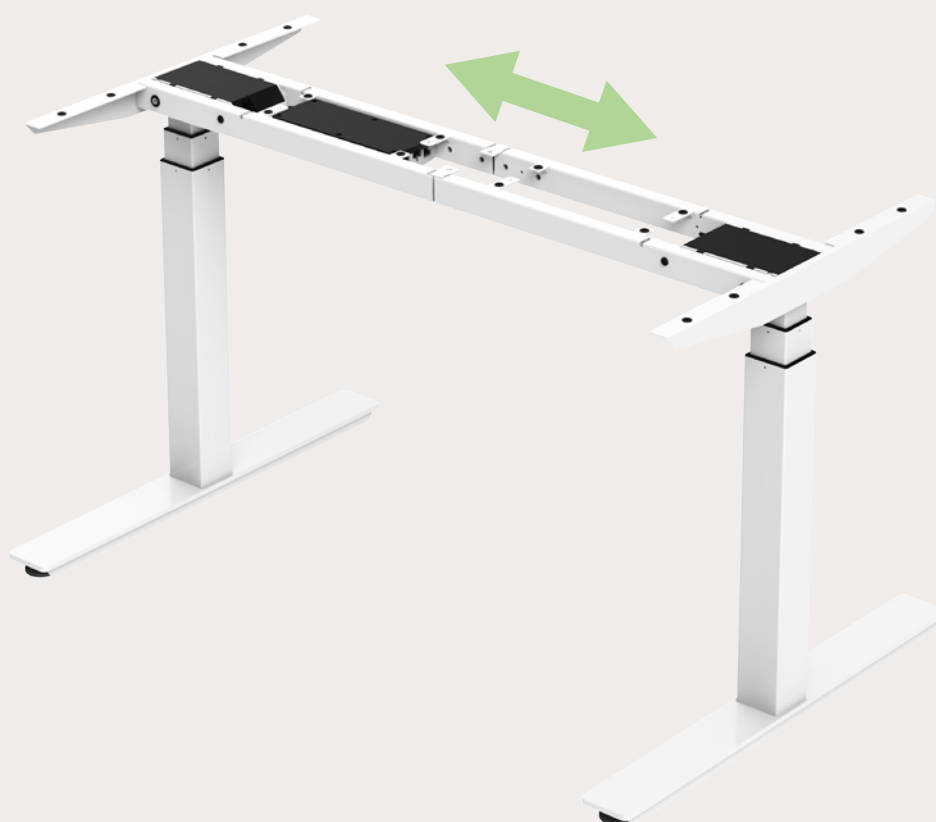
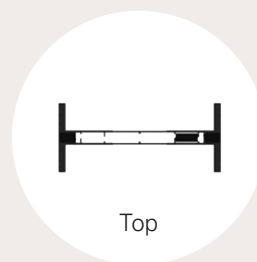
TiMOTION offers a wide range of solutions that satisfy the various needs for ergonomic work surfaces. Our TEK series Ergo Kits are furnished with lifting columns, control boxes and controls. These kits are available in several varieties including the standard kit, L-shaped kit and face-to-face kit. You can choose from our kits to best suit your needs and design requirements. All the width of kit frames can be adjustable.





Standard Kit TEK1/TEK4

Two leg solution

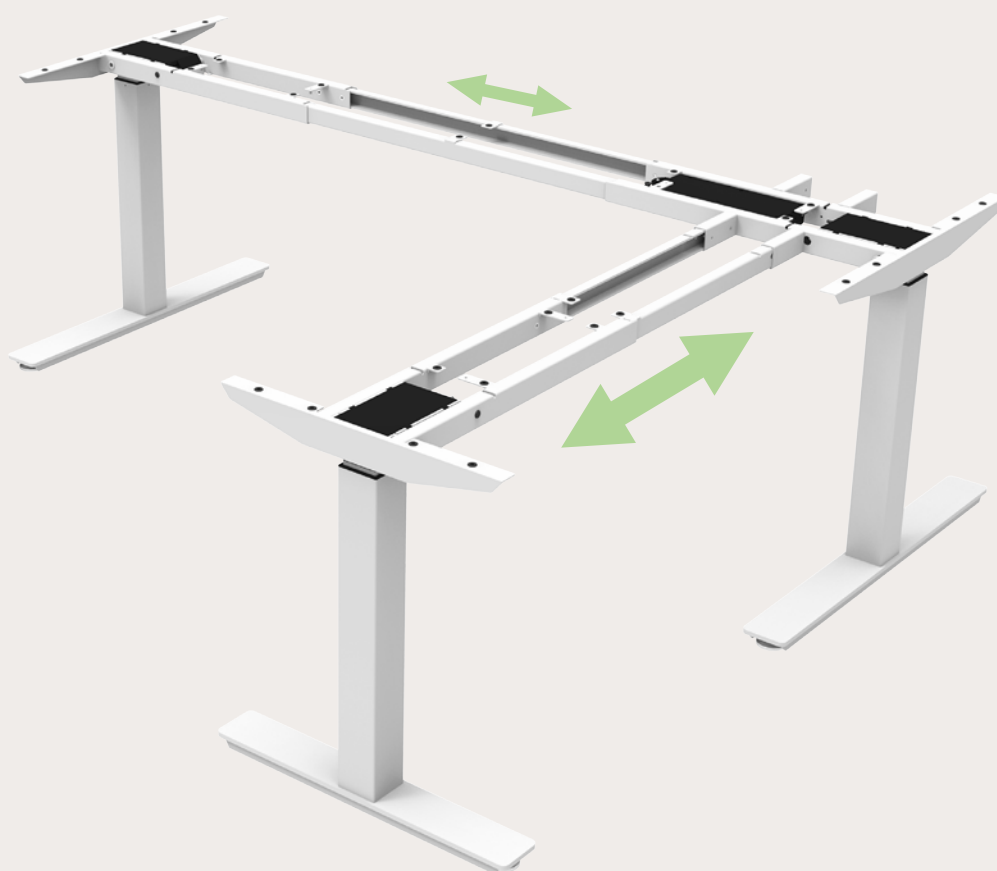
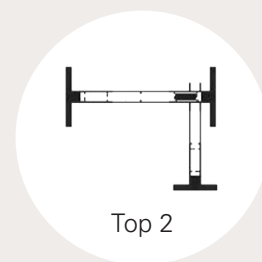
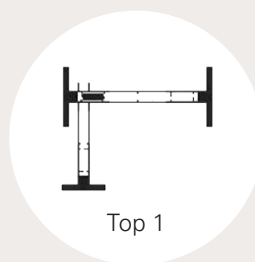


Standard width of TEK1
1165~1965mm

Standard width of TEK4
1050~1850mm

L-Shape Kit TEK2

Three leg solution

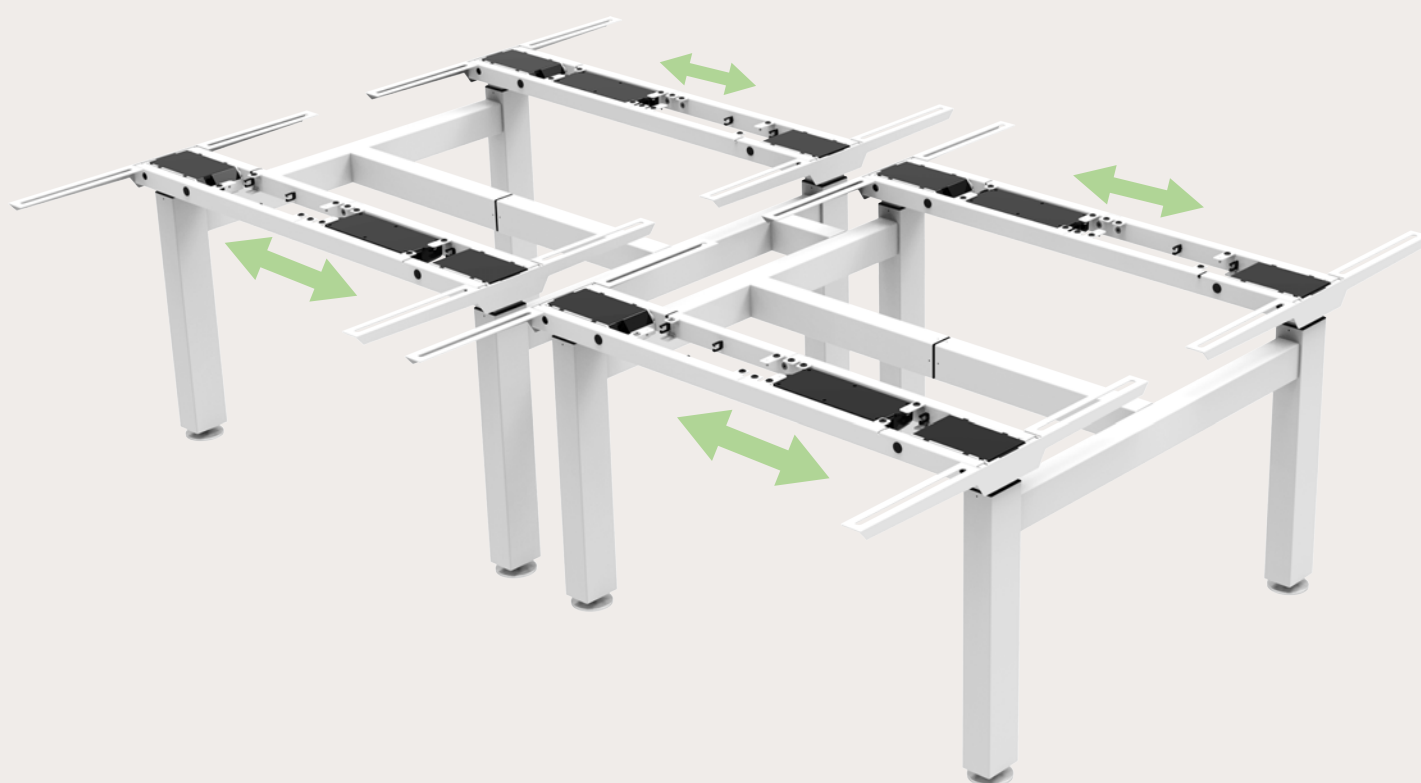
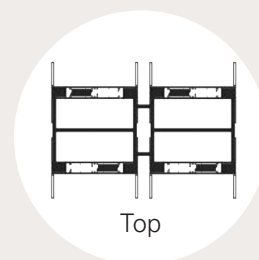


Front standard width
1165~1965mm

Side standard width
1165~1565mm

Face-to-face Kit TEK3

Four leg solution



Standard width

1165~1965mm

The legs of this kit can be combined to create multi-surface systems. Finished systems could have between 4, 8, 12 and 16 legs. Additional combinations are available for higher complexity systems.

Options for TEK1/TEK3/TEK4

- Tracks to slide the table top
- Trays to cleanly organize control boxes and power cables



0.06W
standby power
consumption



TC11 series



TC15 series



TC16 series

Control Boxes

TiMOTION offers a wide range of control boxes and controls that can be used with Ergo Motion motors. Control boxes have the options of less than 0.06W stand-by consumption power and a built-in SMPS transformer.

TC11 SERIES

Dimension (mm)

245.8(L)*66(W)*38.7(H)

Max. Output

29V DC, 2.5A

Supports a single motor

TC15 SERIES

Dimension (mm)

266.3(L)*94(W)*39.6(H)

Max. Output

29V DC, 10.0A

Supports two motors

TC16 SERIES

Dimension (mm)

266.3(L)*94(W)*38.25(H)

Max. Output

29V DC, 10.0A

Supports three motors



TBS1 series



TES2 series



TBS2 series

TBS3 series
(square tube)TBS3 series
(round tube)

Accessories

TES2 series accessories are external limit switches that control the stroke length directly, eliminating the need for control boxes.

TBS series are built-in spindle sets that serve as the drive shafts for columns.

Note: TES2 and TBS series are compatible for TGM series only.

TBS2 SERIES

Recommended stroke (mm)
50~800

Min. dimensions (mm)
Stroke/2+115

Max. load (N)
1000

With built-in limit switches

TBS2 series are for the three part columns, except for TL3/TL5/TL6.

TBS1 SERIES

Recommended stroke (mm)
20~600

Min. dimensions (mm)
Stroke+135

Max. load (N)
1000

TBS3 SERIES

Recommended stroke (mm)
20~600

Min. dimensions (mm)
Stroke+80

Max. load (N)
1000

With built-in limit switches

TBS3 with the round tube is for the TL14; the square tube is for the TL13 and TL15.

TES2 SERIES

Min. revolution to extend the limit switch 25

Max. revolution to extend the limit switch 35

Moving distance (mm)
spindle sub-assembly's lead
(pitch x start)

Scale: revolution
6.25

Min. scale to extend the limit switch 4

Max. scale to extend the limit switch 6

Min. stroke
25 x spindle sub-assembly's lead

Max. stroke
35 x spindle sub-assembly's lead



TH14 series



TH37 series



TDH1 series



TDH2 series

Controls

Smart controls can be designed with memory functions or displays to show the desk height and other information.

TH14 SERIES

Max. buttons 2

Mounted to the desk front side

TH37 SERIES

Max. buttons 2

Mounted to the desk front side

TDH1 SERIES

Max. buttons 2

Display of desk height
Mounted on the desk top

TDH2 SERIES

Max. buttons 6

Display of desk height
Memory function up to 3 sets
Mounted on the desk top



TDH3 series



TDH4 series



TDH5 series



TDH6 series



TFH8 series

TDH3 SERIES

Max. buttons 6

Display of desk height

Memory function up to 3 sets

Mounted to the desk front side

TDH4 SERIES

Max. buttons 2

Display of desk height

Mounted on the desk top

TDH5 SERIES

Max. buttons 6

Display of desk height

Memory function up to 4 sets

Mounted to the desk front side

TDH6 SERIES

Max. buttons 7

Display of desk height

Memory function up to 4 sets

Mounted to the desk front side

TFH8 SERIES

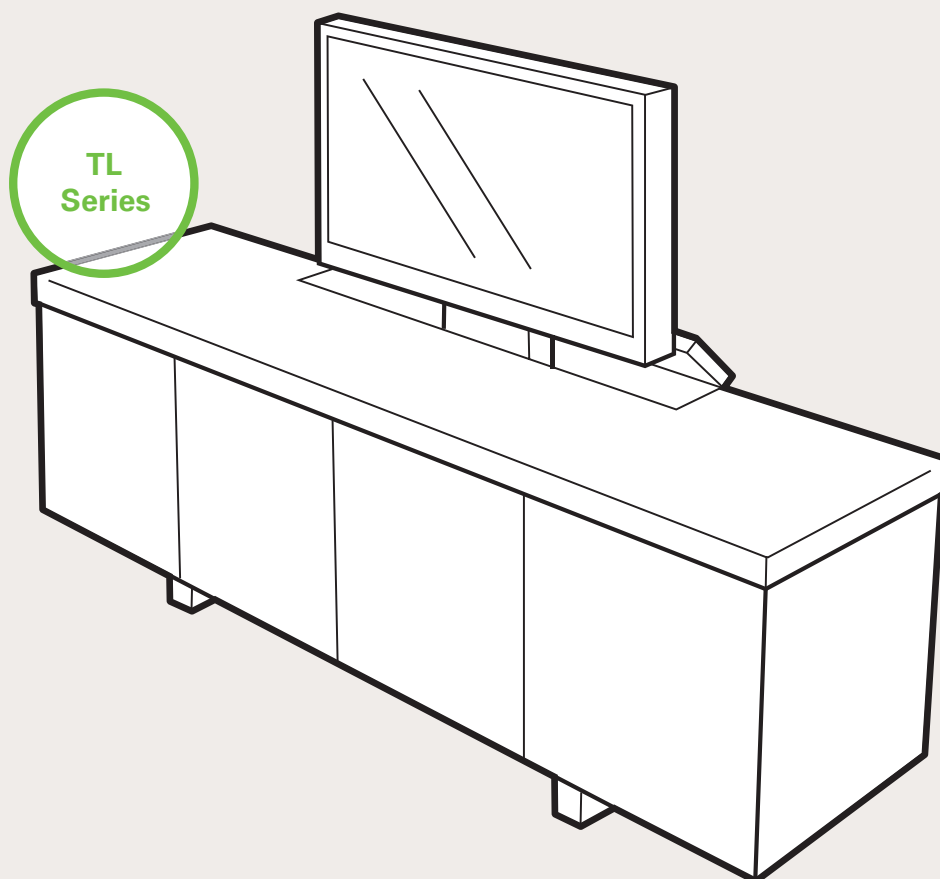
Max. buttons 2

Mounted to the desk front side



Alternatives for Height Adjustable Stands

TiMOTION columns, without motor housings, provide solutions for TV and display lifting systems. Our elegant one or two column electric actuation systems improve the aesthetics, reliability and functionality of your design.





Technical data for columns without motor housings

Model	TL3	TL5	TL6	TVL3
Max. rated load (N)	4000	800	600	600
Max. speed at no load (mm/s)	39	32	55	32
Max. speed at full load (mm/s)	24	20	26	22
Stroke (mm)	100~700	675	650	S: 650 M: 780 L: 914
Min. dimension (mm)	Stroke/2+220~240*	560	590	S: 570 M: 685 L: 795

*Note: on the condition of 4000N rated load and dimension varies based on the cable layout position.

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