Clockwork height adjustable desk Sit / Stand mechanism

Features, Benefits & Further Information
Clockwork Components and Kaidi Electrical are working together to bring a high quality sit / stand desking solution to the UK. With a variety of layouts, colours and frame shapes coupled with best-in-class technology, the Clockwork height adjustable desk provides the solution to every possible sit / stand requirement.

Kaidi Electrical Inc was established in 1992. They have grown dramatically over recent years to become a global force in the supply of actuators for use with recliner mechanisms, adjustable beds and height adjustable desks. With market leading products Kaidi export across the globe to countries such as Germany, France, Canada, South Korea, Japan, USA and the UK. Their approach has been to develop the capabilities for manufacturing all required components ‘in house’ which has led to a superior level of reliability, a testament to this being their sales of over 2 million motors per year.
Set your body free

For those occupations which are predominantly desk based, research shows that workers should aim to initially progress towards accumulating 2 hours a day of standing and light activity during working hours, eventually progressing to a total of 4 hours a day. To achieve this, seated based work should be regularly broken up with standing based work, the use of sit-stand desks, or the taking of short active standing breaks.

Let’s not forget the other more obvious benefits to your health such as less obesity risk, better posture and reduced cancer risk. It makes sense that mortality may rise since sitting too much is related to cancer, obesity, heart disease, high cholesterol and diabetes. An American study from 2011 concluded that Americans increase their life expectancy by two years if a reduction in sitting time from the standard six hours to just three hours per day is implemented.
The Elements

**Controllers**
Standard two button and memory function built-in controllers available.

**Legs**
Round, square, rectangle legs. Flexible height, 580 - 1230mm. Cable management. 36mm/s motion. Strong, safe working load limit of 80kg. Extremely rigid, high quality build.

**Feet**
Hollow flat, tapered and solid plate feet to cater for all leg shapes.

**Table Tops**
Laminate table tops from 1200mm available in Birch, Oak, Beech, White and Grey finishes.

**Control Units**
TUV certified, CE approved circuitry and anti-collision software built-in.

**Motors**
Quiet electric motors (<49db) for dual and triple actuators with three stage legs. Will not disturb your office environment.

**Controllers**
Standard two button and memory function built-in controllers available.
**Product Overview**

**Configurations**

- **Round Legs**
  - Dimensions: 70mm Dia
  - Voltage: DC240V
  - Push/Pull Force: Max 800N
  - Speed Range: 36mm/s
  - Stroke Range: 635mm

- **Square Legs**
  - Dimensions: 69 x 69mm
  - Voltage: DC240V
  - Push/Pull Force: Max 800N
  - Speed Range: 36mm/s
  - Stroke Range: 650mm

- **Rectangle Legs**
  - Dimensions: 60 x 95mm
  - Voltage: DC240V
  - Push/Pull Force: Max 800N
  - Speed Range: 36mm/s
  - Stroke Range: 650mm

**Feet & Electrical Legs**

- **Hollow Flat Feet**
  - Mounting hole position: Center/off center
  - Size 24", 30"
  - Suitable for: Square, Rectangle legs

- **Hollow Tapered Feet**
  - Mounting hole position: Center/off center
  - Size 24", 30"
  - Suitable for: Square, Rectangle legs

- **Solid Plate Feet**
  - Mounting hole position: Center/off center
  - Suitable for: Round, Square, Rectangle legs

- **Round Legs**
  - Dimensions: 70mm Dia
  - Voltage: DC240V
  - Push/Pull Force: Max 800N
  - Speed Range: 36mm/s
  - Stroke Range: 635mm

- **Square Legs**
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- **Rectangle Legs**
  - Dimensions: 60 x 95mm
  - Voltage: DC240V
  - Push/Pull Force: Max 800N
  - Speed Range: 36mm/s
  - Stroke Range: 650mm

**Control Buttons & Units**

- **Fixed Control Button**
  - Fixed up and down two button controller

- **Memory Control Button**
  - Memory function with up and down controller

- **Telescopic Control Button**
  - Telescopic up and down two button controller

- **Dual Motor Control Unit**
  - Dual motor control unit AC230V or AC120V. For standard actuator

- **Triple Motor Control Unit**
  - Triple motor control unit AC230V or AC120V. For 90 and 120 degree actuators
**Product build options**

**Colour Options**
- White
- Grey
- Black

**Hollow Flat Feet**
- **Hollow Tapered Feet**
- **Solid Plate Feet**

**Leg Options**
- **Round Legs**
- **Square Legs**
- **Rectangle Legs**

**Control Units**
- **Fixed Control Button**
- **Memory Control Button**
- **Telescopic Control Button**

**Dual Motor Control Unit**
- **Triple Motor Control Unit**

**Standard**
- **Dual motor**

**Dimensions**
- **Height:**
  - **618mm (24")**
  - **1270mm (50")**

**Options:**
- **Width:**
  - **400mm**
  - **460mm**
  - **1091mm**
  - **1550mm**
- **Depth:**
  - **586mm**
  - **690mm**
  - **738mm**
90 Degree
Triple motor
Left and Right hand versions available

Product build options

Colour Options

White  Grey  Black

Hollow Flat Feet  Hollow Tapered Feet  Solid Plate Feet

Round Legs  Square Legs  Rectangle Legs

Fixed Control Button  Memory Control Button  Telescopic Control Button

Dual Motor Control Unit  Triple Motor Control Unit

Configurations & Dimensions

1270mm (50")
618mm (24")

738mm  1193 - 1571mm  1331 - 1789mm  420mm

1331 - 1789mm
Configurations & Dimensions

Product build options

- **Colour Options**
  - White
  - Grey
  - Black

- **Feet**
  - Hollow Flat Feet
  - Hollow Tapered Feet
  - Solid Plate Feet

- **Legs**
  - Round Legs
  - Square Legs
  - Rectangle Legs

- **Control Units**
  - Fixed Control Button
  - Memory Control Button
  - Telescopic Control Button

- **Motors**
  - Dual Motor Control Unit
  - Triple Motor Control Unit

120 Degree
Triple motor

- **Dimensions**
  - 1270mm (50”)
  - 618mm (24”)
  - 1160 - 1600mm
  - 120 degrees

**Notes**
- 586mm
- 344mm
As industry leaders, Kaidi continuously explore and innovate their products, striving to be a world-class manufacturing enterprise. It is their constant goal to provide high quality products with exemplary service. The product guarantees on offer are 10 years for metal structural components and 3 years for the motors. Kaidi have also acquired ISO9001, ISO14000, OHSAS18000, TS16949 certification and their linear actuators have passed security certification of PSE, UL, CUL, CE, KC and ROHS certification.
Compliance & Conformity

TUV strength and stability tests
Office furniture - work tables and desks - Part 3: Methods of testing for the determination of the stability and the mechanical strength of the structure.

Compliance certificates available on request for all parts including directives for EMC, Voltage and ROSH.

| 1  | Scope                                                                 |
| 2  | Normative references                                                   |
| 3  | General test conditions                                                |
| 4  | Test apparatus                                                         |
| 5  | Test methods                                                           |
| 5.1| Stability                                                              |
| 5.1.2.1| Stability under vertical load                                         |
|      | 750N at 50mm from edge                                                |
| 5.1.2.2| Stability with drawers open                                           |
|      | N/A                                                                   |
| 5.2| Strength under vertical force                                         |
|      | 1000N, 10s x 10 times, position 1, 2, 3, 4                           |
| 5.3| Strength under horizontal force                                       |
|      | 800mm height, 400N, 10s x 10 times                                    |
| 5.4| Fatigue under horizontal force                                        |
|      | 800mm height, max 100kg, 300N x 5000 cycles for each side             |
| 5.5| Fatigue under vertical force                                          |
|      | 800mm height, 400N x 10000 cycles, 100mm from edge                   |
| 5.6| Drop test                                                             |
|      | Lift force 200N, drop height 100mm, 5 cycles and opposite side 5 cycles|

6 Annex A
Test report (informative) Stiffness of the structure

<table>
<thead>
<tr>
<th>ISO 21016: 2007 Office furniture – Tables and desks – Test methods for the determination of stability, strength and durability</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 Test methods</td>
</tr>
<tr>
<td>6.1 Stable</td>
</tr>
<tr>
<td>6.1.1 Stability under vertical load</td>
</tr>
<tr>
<td>6.1.1.1 Test for tables that are or can be set to a height of 950mm or less</td>
</tr>
<tr>
<td>750N at 100mm from edge</td>
</tr>
<tr>
<td>6.1.1.2 Test for tables that are or can be set to a height greater than 950mm</td>
</tr>
<tr>
<td>375N at 100mm from edge</td>
</tr>
<tr>
<td>6.1.2 Stability with extension elements open</td>
</tr>
<tr>
<td>50kg, 300N, calculate D1 and D2 ≤ 17mm/m in height</td>
</tr>
<tr>
<td>6.6 Durability of the height adjustment mechanism</td>
</tr>
<tr>
<td>45kg at 300mm from left edge, 1250 cycles</td>
</tr>
<tr>
<td>45kg in the middle of the surface, 2500 cycles</td>
</tr>
<tr>
<td>45kg at 300mm from right edge, 1250 cycles</td>
</tr>
</tbody>
</table>
Clockwork have directed the majority of advertising towards the contract market utilising publications such as On Office and of Hospitality Interiors under the gearing media umbrella.

Featured on the left are 2 examples of our latest sit/stand desk advertisements.

Onoffice are the UK’s leading publication for the commercial architecture and design community. Their readers work on the most exciting workplace, hospitality, education and civic projects in the world.

Hospitality Interiors is the only UK magazine and website which is completely focused on interiors for hospitality spaces. Their mandate is to seek out the world’s most interesting properties and challenging interior concepts.

Please contact our technical sales team if you have any questions: 01993 775 767