

Rigid

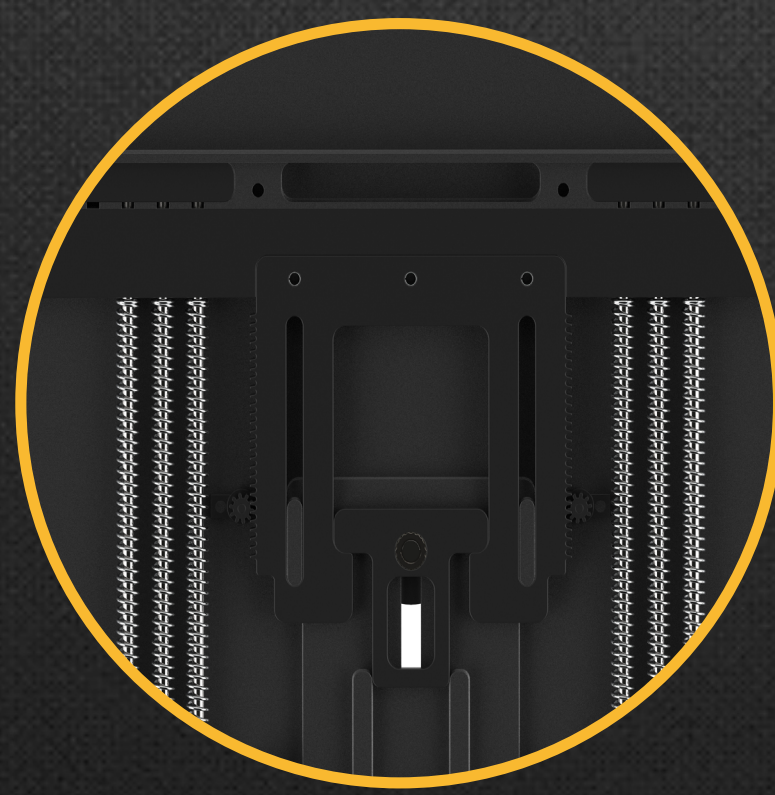
A laptop stand that makes it easy to work ergonomically

From an ergonomic point of view, a laptop is not an ideal product because it forces the user to look downwards. This causes musculoskeletal disorders, commonly referred to as RSI or CANS, which is further increased by the rise in telecommuting work. Current solutions fail to support users sufficiently, as they are a hassle to use. Rigid solves this by integrating a laptop stand, cover and keyboard in one that can be setup with minimal user operations.



Slide to unlock

The laptop stand expands with one simple interaction from the user at the front of the laptop stand. By moving the left and right locking mechanism in opposite directions the laptop stand is securely locked during transport.



Automatic lifting

With the integrated spring-damper system the laptop can remain on top of the laptop stand at all times, also during lifting. The combination of linear and torsion springs along with rotary dampers allow for an evenly distributed lifting force.



Integrated keyboard

Part of the hassle of working ergonomically is the use of multiple accessories. By integrating a keyboard in the laptop stand it becomes much quicker to deploy a fully functional ergonomic workplace.



Height adjustment

The maximum height of the laptop stand can be set manually by the user. An adaptable front grip gradually adjusts its position to the height of the laptop (stand), ensuring a smooth and seamless lifting movement.

Thomas Zwart
Rigid: a laptop stand that flex workers to work ergonomically
09-11-2018
Integrated Product Design

Committee Prof. dr. Peter Vink
Ir. Henk Crone

 TU Delft