Researched designs

<https://www.amazon.com/gp/product/B08LZC8BR6/ref=crt_ewc_img_dp_5?ie=UTF8&psc=1&smid=A3KVCQAKIT0F30>

* Dimensions

[Holder stopper things](https://www.amazon.com/gp/product/B08CMJZ5LQ/ref=crt_ewc_img_dp_10?ie=UTF8&psc=1&smid=AVM6Y5QOV1TV)

[Grip](https://www.amazon.com/gp/product/B08HFSML71/ref=ox_sc_act_title_3?smid=A2UM0X40UXSI2V&psc=1)

[Holes](https://www.amazon.com/gp/product/B00M0W4RSC/ref=ox_sc_act_title_8?smid=A3W3STWCK1O3NR&psc=1)

<https://www.rokhardware.com/ratchet-headrest-fitting-for-beds-desk-lids-drafting-tables-and-drawing-boards-steel.html>

* Ratchet

<https://www.1stdibs.com/furniture/tables/desks-writing-tables/artist-drawing-table/id-f_21250362/?gclid=Cj0KCQiA-aGCBhCwARIsAHDl5x8CVoK2JZDNRl6QJ31SfsTqnUxC_CVTG8imte052cMVO1tudlavOkAaAq-xEALw_wcB&gclsrc=aw.ds>

* Drafting Table

Commonly used for supporting and adjusting the angle of table tops such as drafting tables and headrests. Ratchets may also be installed at one end to allow for transformation from a bed to a sofa, or can also be fitted on both ends to provide a vertical lift (similar to a hospital bed for back pain). Wherever a tilt-lift is needed, the Rok Ratchet will be your best bet.

Includes upper and lower mounting plate

Allows vertical lift function with multiple adjustment points

12 different settings

Automatically locks lid in place when fully opened

Made of steel with zinc finish

8-1/2" L x 8-1/2" H x 1" W

220 lb. Static load rating

Requires #8 screws (not included)

NOTE:

The range of motion depends on how close they are to the pivot point, but the maximum operating arc is 112 degrees from horizontal. Also, a hinge must be used at the pivot point (not included). We recommend two butt hinges or a piano hinge.

<https://www.rokhardware.com/ratchet-headrest-fitting-for-beds-desk-lids-drafting-tables-and-drawing-boards-steel.html>

Adjustable locking hinge, HG-RCT-12-C, is ideal for positioning work surfaces such as wall-mounted workstations, keyboard trays, and additional counter space. Because the locking hinge provides locking at any 5° increment between the closed and opened position (0-90°). Once locked, the hinge becomes stable joint, able withstand 350 lbs/in per pair. Folding away is easy. Just lift up to the fully open position to release the locking mechanism.

<https://www.sugatsune.com/product/ratchet-hinge/>