

Animation Student's Guide to Animation Desks

compiled by

David Nethery

Student's Guide to Animation Desks

compiled by David Nethery

For the traditional animator having a solid , functional animation desk is a must . The desk should be adjustable in height & angle , and should have a hole cut in the top to fit a standard size animation disc. A back-light unit is attached under the desk which can be turned on and off with a switch on the table within easy reach of the animator or a footswitch which can turn the back light on and off as needed. Storage space for paper and other supplies is important too, so plan to have at least a small side work table , but preferably shelves ("scene stackers") placed to one or both sides of your animation tablet and/or wall-mounted shelving over top of the desk. Various types of side-tables, tabourets, and shelving from Art Supply stores can be adapted for use as scene stackers. Stacked up "milk crates" can also be used as inexpensive scene stackers.

The following photos will give you some ideas of how animation desks can range from the very elaborate, heavy studio desks to light-weight portable table-top desks. The emphasis on the smaller, light-weight tables which are easier to set up and transport. I have included plans at the end for Build-It-Yourself portable animation desks.

About Animation Discs :

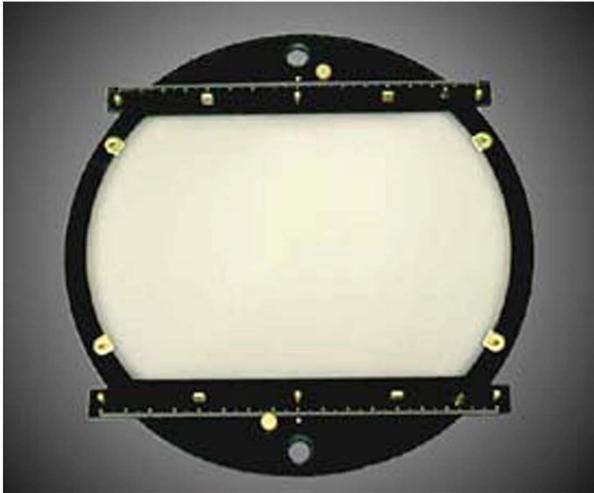
Traditional animation discs often had one or two sets of ruled, sliding peg bars because at one time it was customary for animators to figure out their own camera pan moves and it was necessary to have the sliding peg bars on the discs to do so. As almost all scene planning and camera movement is now done in the computer with digital compositing software it is not necessary to use the heavier metal or black plastic discs with the sliding peg bars. Many animators much prefer to use a simpler, one-piece white plexiglass disc with a taped-down thin metal peg bar . These plexiglass discs turn easily in the hole and are even light-weight enough to hold on one's lap to animate using ambient light to see through a few layers of paper. Richard Williams is an advocate of the plexiglass animation disc in his book 'The Animator's Survival Kit' and at one point relates how he animated scenes from "Who Framed Roger Rabbit" while sitting in a hotel room in Wales with a plexiglass animation disc propped up on his knees. (pg. 82 - 83)



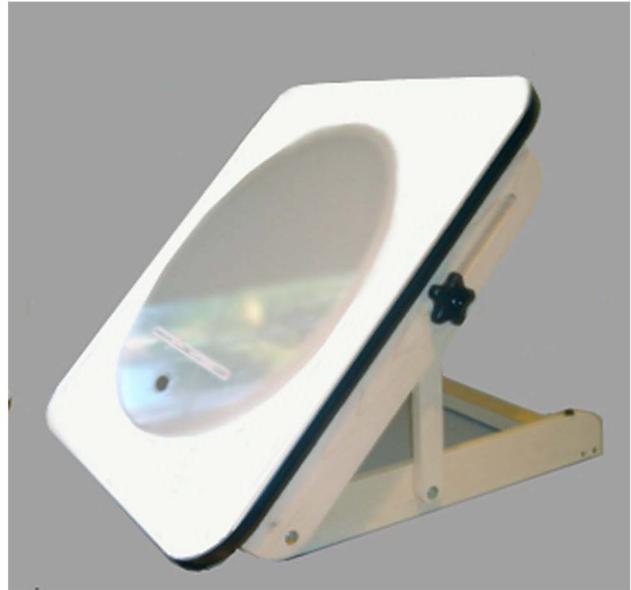
Traditional metal and wooden discs with sliding peg bars

Translucent Plexiglass (aka "Perspex") disc with inset plastic peg bar . The plastic bars are ok, but much better to have a *thin metal peg bar* because the metal pegs hold the paper in better registration and the tape down bars can be easily repositioned





Popular plastic 16 Field disc with sliding peg bars (actual pegs are metal), distributed by Lightfoot Animation (they also sell a 12 Field version of this disc)



Lightfoot Animation Ltd. portable table-top Animation Desk with plexiglass disc



Richard Williams is shown here animating on an over-sized Plexiglass animation disc. Most Plexiglass animation discs are around 18.5" in diameter, allowing one to work on standard sized 12 Field and 16 Field animation paper, but the disc Richard Williams is using here will take larger 24 Field paper if necessary (or double-wide 12 field pan paper). 24 Field paper is rarely used, so for almost all normal work 12 or 16 Field paper is used. (Many people even use smaller "10 Field" paper which is standard 8.5" x 11" letter sized paper which has been punched with Acme peg holes. This smaller paper has the advantage of being somewhat less expensive than 12 Field paper and it will run through standard office scanners which are much less expensive than large format 11" x 17" scanners)

Richard Williams was an early advocate of using the one-piece Plexiglass disc rather than the older style heavier metal discs with sliding metal peg bars and now a days many animators prefer the Plexiglass disc .



Here are Director/Animator Sylvain Chomet (top left and right) and Supervising Animator Hugues Martel (left) animating on the Academy Award nominated animated feature "The Triplets of Belleville". They are both using the Plexiglass disc. Chomet is shown with a portable animation desk sitting on top of a larger work table, while Martel uses a drafting table adapted to hold an animation disc (cut hole and backlight unit underneath)

The only disadvantage to the Plexiglass discs are that they need to be cleaned frequently as graphite dust tends to accumulate on the surface of the disc. The traditional animation discs have a thin layer of glass over the plexiglass window and are easier to keep clean.



Veteran studio and independent animator Borge Ring is shown here using a table-top animation desk, with a traditional style 16 Field disc. (note how his disc is offset to one side to allow room for clipping on an exposure sheet or model sheets on the right hand side of the table)

Most table-top portable animation desks from Lightfoot Ltd., Cartoon Supplies and Colin Johnson Animation Desks are very similar in construction. Pictured below are some of the currently available models



Colin Johnson Animation Desk



LightFoot new style portable animation table



Another portable animation table, shown from front and back without disc.



Alternative light box design from Cartoon Supplies



Colin Johnson portable animation table knocks down flat for storage.

While the more portable table-top models of animation desk have some advantages, one drawback they have is that you can only adjust the angle but not the height of the table. You're stuck with whatever height of table or bench the animation table is resting on top of. For the ultimate in ergonomic comfort, to be able to **make fine adjustments in both angle and height** a free-standing drafting table is ideal. You can buy a wooden drafting table like this and cut the hole yourself if you have the correct tools to make a totally smooth, perfectly round hole, 16 1/2" in diameter, or hire a local carpenter to cut the hole for you.

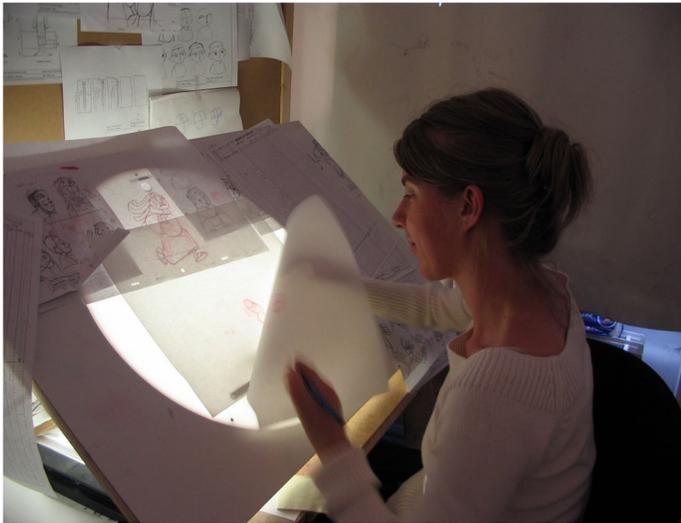


This animator is shown working on a larger size drafting table. Notice how the larger size allows plenty of room around the disc area to pin up model sheets, notes, ex-sheet, etc.

A 4ft. folding table to the right side of the animation desk and a low scene stacker/ tabouret partially seen in the lower left foreground provide space for the animator to organize his work.

In your home studio set up you can use any kind of low side table with some stacked up "milk crates" as improvised scene stackers.

More examples of animation desks:



Your desk doesn't have to be a super-expensive full-sized "Disney desk" to be functional. (although the big desks are nice, but also very heavy and very expensive) Even with a simpler, inexpensive drafting table arrangement you can maximize your work space by the addition of a few well place shelving units.

You can see a scene stacker over to the right side of this animator's table.. A "Scene Stacker" is a cabinet that is divided up into multiple levels of shelves, with space to hold individual sheafs of drawings or scene folders. It's a good way of storing and organizing your drawings. (this artist also has a smaller scene stacker on her left hand side but it is out of camera frame)

Organizing the work space around your animation desk is essential for keeping track of your work.



Scene stacker. One or two of these placed on either side of your table-top desk or drafting table will help keep your animation scenes organized.

These scene stackers used to be available from Cartoon Carpentry and other animation desk manufacturers, but in recent years are not as readily available. You could adapt other types of shelving for this purpose or have a scene stacker custom made along the lines of the examples shown in this pamphlet. A good low-budget alternative is to use stacked up "milk crates" or file crates as shown:

These crate stackers can be further sub-divided into more slots as shown on the other scene stackers using sturdy cardboard or masonite panels.

The typical crate is only good for 12 Field size paper unless you can find the extra wide crates.



Short scene stacker as made by Cartoon Carpentry



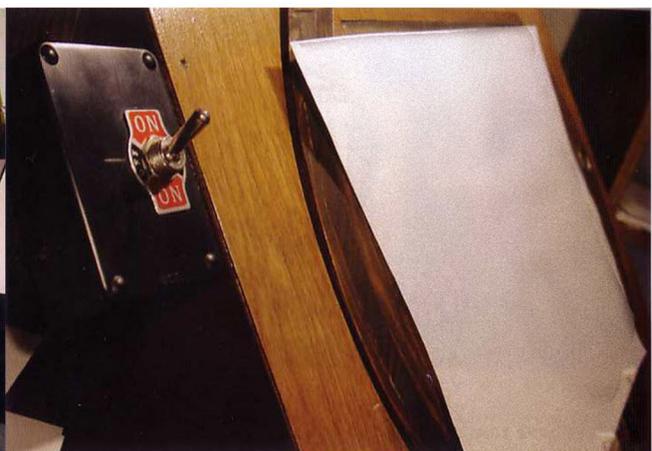
Winsor & Newton tabouret functions as a good side table for your animation desk.



The adapted drafting table style of animation desk available from Cartoon Colour Co. or Alan Gordon Ent. can be improved by adding extensions to the top of the desk. In the first two photos you can see how the artists have added masonite panels screwed on along one edge of the desk to provide a place to clip on their Exposure Sheets or model sheets.

In the third photo to the left, this animator has added custom desk extensions to hold his pencil sharpener, pencils, tape and other small items, so these are always within easy reach.

You'll notice that this artist also has his desk adjusted to a lower angle and is actually drawing while standing up rather than seated. This again demonstrates the versatility of using a drafting table since the legs can be adjusted for height, as well as the top adjusted for angle.



On/Off Light switch for backlight located in easily reached area on top or to the side of the animation board is useful.

One other customizable option that is nice to have with any style of animation desk is an On/Off switch located in an easy to reach area on the top or to the side of the desk area, so you can switch the backlight on and off without fumbling for the switch on the cord underneath the table. An alternative would be to use a foot switch to switch the backlight on and off by simply clicking on the switch with your foot.



(by the way, this snazzy work space belongs to Director/Animator Ward Jenkins)

Here's another fine example of an animator's work space for you to consider as you build your own. Traditional animation disc in a table-top desk on the right and over to the left of the L-shaped table is a Wacom tablet and computer monitor . Just a matter of swiveling in your chair and you're transported from classic 20th century technology to the cutting edge. The Best of Both Worlds.

You can also just make out the scanner in the lower left corner near the Wacom tablet.

Note the economical use of office letter trays as scene stackers to hold animation drawings. Low-profile, and practical . Plenty of room on the walls for inspirational artwork !



This beautiful , custom-made desk belongs to animator Ronnie Williford. Ronnie made this desk himself to maximize his work area in the least amount of space necessary.

The desk comes out from the wall only about 24" inches and utilizes good shelf space up above , with paper, pencil sharpener, peg strips and other necessities easily accessible.

Note that Ronnie's animation disc is properly off-set to one side so he has room on his right for an Ex-sheet or other notes

Although the purpose of this little pamphlet is to show you how you can get set up to animate at home with ready-made, inexpensive equipment , I hope

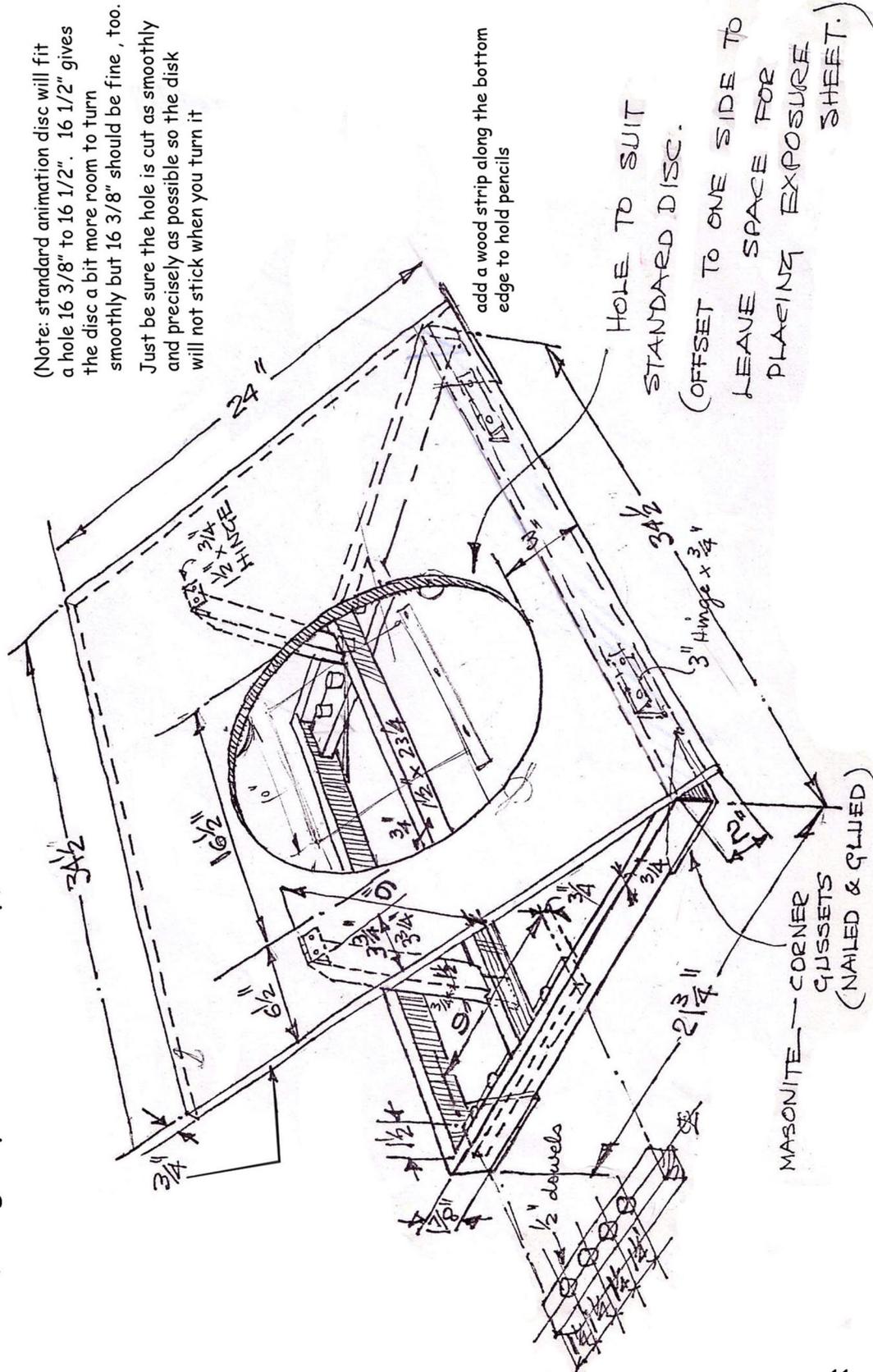
that some of you who read this will be inspired to custom-craft your own animation desks based on designs like these that are both functional and beautiful.

On the next few pages I will give you some simple plans for building your own portable animation table.

Portable Animation Desk

(design by Jim MacCauley)

(Note: standard animation disc will fit a hole 16 3/8" to 16 1/2". 16 1/2" gives the disc a bit more room to turn smoothly but 16 3/8" should be fine, too. Just be sure the hole is cut as smoothly and precisely as possible so the disk will not stick when you turn it)



Photos of the Do-It-Yourself-Portable-Animation-Table

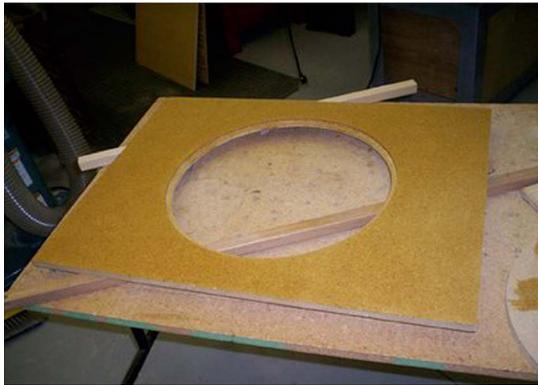
(refer to the other photos of portable tables I've shown earlier in this booklet and to the plans for the table designed by Jim MacCauley. Those are your basic dimensions.)



1.) Carefully measure lines for hole to be cut 16 3/8" "Measure twice, cut once" .



2.) use tools (router and or jigsaw) to carefully cut out a perfect circle 16 3/8" .. After the hole is cut you can sand down the inside edges to make it even smoother so your disc will turn smoothly.



3. Finished table-top with hole cut out for disc.



4.) Attach legs. (see MacCauley Plans for basic layout; The ones pictured here are slightly different)



5.) If you've come this far ok then you know what you are doing . If this is becoming frustrating you may want to contact Colin Johnson (see contact page at the end)



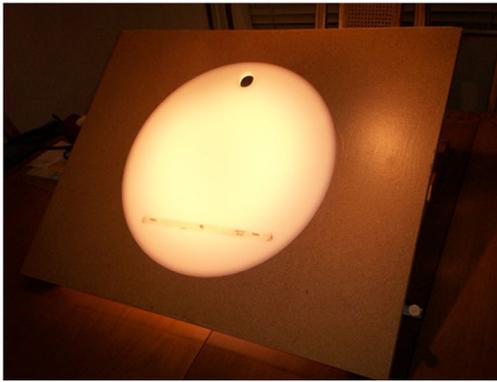
6) Fluorescent light unit you'll find at Home Depot or some such place. Use metal strapping to attach it to backside of the table.



7) Back light unit attached.



8.) view from the back side.



9. Completed table from front



10.) completed table from side.



Happy Animating !

Sources for Animation Desks and Accessories

Colin Johnson Animation Desks - <https://www.animationdesks.com/>

These desks are well-made and quite a bit less expensive than similar portable desks sold by other companies. As of 08/19/2019 Mr. Johnson is selling these desks for \$270.00 + \$60.00 shipping. Mr. Johnson's desks include a fluorescent backlight unit and the plexiglass animation disc with peg bar. He sells the plexiglass animation disc with peg bar alone for \$85.00 + \$18.00 shipping. These are usually in stock, but email or call him about availability. (contact info on his website : <http://www.animationdesks.com/>)

Lightfoot Ltd. Animation Supplies - <https://www.lightfootltd.com/> Lightfoot has their own design of portable, table-top animation desk. They also sell good quality animation paper and other animation supplies.

<http://www.lightfootltd.com/catalog/lightboxestables/pro-light-boxes-tables>

ChromaColour U.K. - Sells a variety of traditional animation supplies.

They sell a portable animation table which is also very well-made, although more expensive than the similar table from Colin Johnson. See their website for details : <https://www.chromacolour.co.uk>

Drafting Steals - This company sells various models of drafting tables, including the wooden "Pavillion" model of wooden drafting table that is suitable for cutting a hole in for an animation disc. <https://www.draftingsteals.com/artist-tables.html>

<https://www.draftingsteals.com/10115.html>