

CE-100 Specifications

Updated:

- April 4, 2018

Wood Type:

- American Black Walnut – Certain other species available upon request.

Finish:

- A Walnut tinted oil finish is applied for durability and to even out the natural color tones.

Dimensions:

- Base – 30" (76cm) wide x 30" (76cm) deep
- Height in closed position – 90" (229cm) with our typical 3.5" casters
- Overall height – 168" (427cm) Painting tray cranked up all the way & all frames fully extended.
- Lowest position of painting tray - 19.25" (29cm) from the floor.
- Maximum painting height capacity – 110" (279cm)
- Minimum painting height capacity in main clamping frame – 55.25" (140cm) A painting less than this height can be secured by inserting an auxiliary stay in the center track of sliding frame.
- Maximum painting height when using stays in auxiliary mode is 49" (124cm)
- Auxiliary stays come in two standard depths, 2" and 3" and are 6.625" wide. Custom depths and widths are available upon request.
- The upper & lower painting trays are 3" deep (8cm) Custom depths available upon request.
*Tray extensions are also available – see options.

Construction Features:

- All frame joinery is mortise & tenon construction, designed & built for generations of use.
- The tongue and groove tracks on the sliding frames are precisely milled and then waxed to insure smooth operation.

Mechanical:

- Height adjustments are made by turning the crank handle engaging a 3-1 gear ratio assembly that is connected to a .75" Acme threaded rod. This allows smooth, effortless turning with efficient results. The crank handle can be easily removed via a ratchet style ball-socket connection.
- The tilting frame feature, in the home position is laying back against the cranking frame on an 85-degree angle or 5 degrees away from the operator. It can be cranked forward 10 degrees, which is 5 degrees forward beyond the vertical position. This is a very useful feature, allowing the conservator or artist the ability to adjust for changing light conditions or to reduce hand or arm strain.

- The painting clamping frame is raised or lowered via a rope and pulley system. The 3/16" diameter rope is black, low stretch blended nylon. The addition of a cam cleat on the underside of the tray allows the clamping frame to be locked in the raised position until the painting is in place on the easel. Once the painting is staged, the frame can be safely lowered to secure the painting.
*We recommend that the rope always be tied off to the front rope cleat during this operation.
- Casters – sturdy Colsen casters provide stability at all times. The 3.5" soft gray non-marring rubber tires are smooth rolling & wear resistant. The Total-Lock brakes fix the rolling movement and also the swivel movement as well. The large brake flange is very "foot friendly" and also easily worked by hand.

Hardware:

- The visible hardware is a mixture of solid brass, stainless steel and black oxidized or painted steel. The choices we have made regarding our selection are a function of the particular use and also the availability. Some parts are custom made to our specifications, others are purchased through our suppliers. All efforts have been made to harmonize the use of these various metals so the overall appearance is pleasing to the eye. In some cases, different finishes can be substituted, so if there is an overall look you are trying to achieve, please feel free to discuss it with us and we'll see what can be done.

Options:

- Side handles – 6" brass handles can be mounted to both sides of the main uprights making it easier to pull or push the easel, especially when a painting much wider than the easel itself is mounted. We don't usually suggest the use of the side handles on this model because the A-Frame construction does allow the hand to grab hold at the side to move it around.
- Leveling screw – If you have a floor condition that is extremely out of level, you may consider this option. Mounted on the back-left corner of the base assembly, a large bronze screw is threaded through the runner onto a stem on the caster. By turning the screw, it compensates for irregularities in the floor and stabilizes the easel.
- Tray extensions – Usually ordered at 6" deep, they are bolted onto the upper & lower painting trays so that paintings with deep frames can be easily accommodated. Each upper or lower extension consists of three parts:
 1. Spacer – used to get the tray extension above the bottom nosing of the fixed painting tray. It is bolted thru the fixed tray & fastened with knurled nuts that do not require tools to secure. It can also be used on its own as the painting tray when a lip is not required, which is especially useful for close to the edge work.
 2. Tray extensions – bolted on after the spacers are in place – also secured with knurled nuts.
 3. Nosing – fastened to the tray extensions with screws that can be removed if desired for close to the edge work.

The tray extensions can be added to any of our existing easels if the holes have been drilled in the trays. For older models, not pre-drilled, it is quite easy to drill the four holes required – we will furnish a template to mark the precise locations.

If tray extensions are ordered it is advisable to order an auxiliary stay of the same depth. A drawing of the complete assembly is available upon request.

- Secondary Painting Tray Assembly – Located on the back side of the main frame, a 3” deep tray is adjusted manually. It locks into holes drilled into two brass tracks via trigger latches. It can be used for small paintings up to 39.5” (100cm) high. One 3” painting stay is included. It has the same design as the stays for the front, so any stay size ordered for the front can also be used on the back as well. This was a standard feature until 2011, when a survey revealed that not that many conservators or artists were using it. It can only be ordered as an option on a new easel and cannot be retrofitted onto an existing model.
- Double or triple track sliding frames – the sliding frame is where the auxiliary stays are mounted for securing smaller paintings. If you work on a lot of small paintings or small paintings that have irregular shapes, we can make this frame with extra vertical tracks making it possible to insert stays side by side. For more information, please inquire.
- Customization – If you need a feature that you do not see included, perhaps we can create a custom version for you. Also, many of the typical height or depth dimensions can be altered sometimes for little or no cost depending on the desired alteration.