User Notice

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Limit of Liability Statement
It is the responsibility of the operator of the cutter to monitor the performance of the cutter and maintain it in proper working condition by following the instructions in this User Guide. It is the responsibility of the operator of the cutter to follow all safety precautions and warnings that are described in this User Guide. Ioline is not responsible for injuries that may occur as a result of unsafe operating procedures. Ioline is not responsible for substandard operational performance as a result of failure to maintain the cutter as described in this User Guide.

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Service and Support
If you require assistance with an Ioline product, your local Ioline dealer or authorized service center is ready to help. Support information is also available 24/7 on the Ioline Web site—or you may contact Ioline directly:

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Please read these safety guidelines before beginning operation of the cutter. The cutter uses a very sharp blade when cutting. The parts can move quickly. Always observe the following safety precautions:

- Do not allow the material to become suddenly taut between the cutter and a roll of material during plotting. A service loop of unrolled material is required for problem-free operation. Using the Autoloop function (enabled in the Control Center) will create the required service loop by gently pulling a set amount of material from the roll before cutting. Ioline recommends using the Autoloop function when plotting on a roll of material.

- Do not try to repair the machine without factory authorization. Only qualified service personnel should attempt any disassembly or access to internal components. If external mechanical adjustments are necessary, turn off the cutter and disconnect it from all power sources (both the computer and the wall outlet).

- Be careful with hair, jewelry, or loose clothing near the cutter. They can become caught in the mechanical parts.

- Never move the carriage by hand. Use the Arrow keys and let the machine do it.

- Keep hands away from the carriage when the cutter is in operation. The carriage will automatically move to its right end position when the power is turned on.

- Be careful when lifting the cutter. Hold the bottom surfaces of the cutter to lift or move it.

- Keep fingers away from the drive shaft when the cutter is in operation.

- Use caution when changing a blade in the blade holder. See the Routine Maintenance chapter of the SmarTrac User Guide for the recommended procedure.

- Be careful when handling the blades. They are sharp and could cause an injury if mishandled. Although the blades are made of an extremely hard material, they are brittle and can break if dropped or mishandled.
Figure 1. The Ioline SmarTrac I/S Cutter Front View.
Figure 2. The Ioline SmarTrac Contour (SC) Cutter Front View.
This Quick Start Guide shows how to assemble and setup the Ioline I/S, 100 System, SC-40 and SC-48 model cutters. Consult the SmarTrac User Guide online in the support page for more detailed information about installation and operation. The PDF User Guide may be printed with the Adobe® Acrobat® viewer if necessary.

**Step 1: Unpack**

Remove the cutter, stand parts, and Accessory Kit from the box. Check the Packing List. Always use two people when lifting the cutter, one person at each end. Save all of the packing materials.

**Required tools**

- Phillips screw driver
- 7/16-in wrench

**Step 2: Assemble the Stand**

(Optional for I/S 60 model)

**Attach the Feet**

Attach one foot to each leg using three 1.5-in (long) Phillips screws and three 7/16 in hex nuts. Repeat this procedure for the other leg. Screw all of the leg levelers halfway into the ends of the stand feet. Thread all four levelers in equally to ensure your cutter is level and stable.
**Connect the Cross-Member and Legs**

The cross-member is reversible and can be attached upside down or from either side. Fit the cross-member snugly into the rectangular groove in one leg. Align the holes in the leg with the threaded holes in the cross-member. Insert two 1-in (medium) Phillips screws into the threaded holes. Leave them loose. Repeat this procedure for the other leg. Tighten all four screws.

**Insert the Media Rollers**

Insert the front media roller pins into the notches in the front of each leg. There are extra notches to accommodate different size rolls of media. Find the matching notches on the opposite leg to keep the roller straight. Repeat for rear media roller.

**Step 3: Attach the Stand or Cradle**

**Place Cutter on the Stand**

(I/S 85, 110 and 130 & SC-40, and -48 models)

One person should hold the cutter while the other person positions it. Slide the tabs on the bottom of the cutter inside the top of both legs. Make sure that the holes in the legs line up with the threaded holes in the tabs.
Place Cutter on the Cradle
(optional on I/S 60)

Have one person hold the cutter while the other person positions the cutter. Slide bottom tabs of the cutter outside the top of both cradle feet. The longer portion of the foot should extend from the back of the machine. Make sure that the holes line up. The media support shaft fits in notches at the back of the cradle leg.

Insert the Screws

Have one person hold the cutter while the other person inserts the screws to secure the cutter to the legs or cradle feet. Insert the 3/8-in (short) Phillips head screws though the leg or cradle foot and into tabs on the cutter; Tighten.

Finish Assembly

Cut the plastic strap that holds the carriage in place during shipment and discard it. Remove and discard all packing foam from around the carriage to complete the assembly.
Step 4: Finish Installation

Connect the Machine Cables
Make sure power is off to the cutter (the switch is placed in the 0 position). Connect the serial or USB cable and the power cord to the panel on the back of the right side of the cutter. Plug the machine power cable into a wall socket or surge protector.

Connect the Computer Cable
With power to the computer off, connect the serial or USB cable to one of the ports on the back of the computer. See the Installation chapter of the SmarTrac User Guide for more information.

Install the Software
Visit the online Ioline software setup page at ioline.com/setup. Click on the picture of the SmarTrac Sign Cutter then follow the steps listed in the Setup tab. The PDF User Guide and this Quick Start Guide are available under the Manuals tab.

Control Center
The optional Ioline Control Center software is available on the Downloads tab of the support page. This utility is normally not required unless detailed machine setup is necessary or for troubleshooting.
Step 5: Prepare to Cut

Load the Material Roll

Place a roll of material onto the media rollers. With the pinchwheels up, thread the material through the machine.

Position the Pinchwheels Over the Drive Shaft

Move the material and pinchwheels from side to side to find a position where the outermost drive wheels are on the material about 1 inch from each edge, and over a drive shaft segment. Use the drive shaft markers (Figure 16) to determine where to place the wheels. The long drive shaft segment on the right side of the machine allows many pinchwheel positions for a variety of material widths. Evenly space the inner idler wheel(s) (I/S 85, 110 and 130 & SC-40 and -48 models) over drive shaft segments. Make sure there is a minimum of one inch between the edge of the roll and the stand leg.

Square the Material

Lift the pinchwheels off the drive shaft using the pinchwheel lever. Pull enough material through the machine so that it reaches the roll. Align the edge of the material with the edge of the roll, making sure the material is flat and square in the machine. Ensure that the outer pinchwheels are at least one inch from the edge of the material. Lower the pinchwheels.

Figure 15. Material loaded on media roller.

Figure 16. Place pinchwheels under drive shaft markers.

Figure 17. Align the material.
Position the Material

Do not let the material become suddenly tight between the cutter and the material roll. Manually unroll a few feet of material from the roll to create a slack loop behind the machine. Use the Arrow keys on the keypad to move material through the cutter to check alignment. Adjust the material if necessary so that it feeds straight. Position the material edge two inches in front of the blade; Place the carriage an inch from the right edge.

Insert a Blade, Load the Holder in the Jaw

Unscrew the foot from the blade holder. Insert a blade into the hole in the blade holder, making sure it is fully seated. Replace the foot and adjust it so that the blade tip is barely inside the foot with no blade exposed. Loosen the thumb screw on the carriage jaw and insert the blade holder. The flange slides into the slot in the jaw. Rotate the clamp down onto the flange and tighten the thumb screw until the blade holder is held securely in place.

Adjust the Blade Exposure and Force

Turn the Force knob on the keypad clockwise to maximum. Press the Test Cut key. There should be little or no scoring of the material. Turn the foot 1/8-turn clockwise (from the bottom). Press the Test Cut key. Weed the test cut pattern and examine cut quality. Continue adding blade exposure.

Note

Be very careful when handling the blades as they are sharp and brittle and the tips can chip or break. Using a hard surface to insert the blade may damage it.
and pressing **Test Cut** until the pattern weeds easily and the blade leaves a clear scoring on the backing.

To extend blade life, only set as much **Force** and blade exposure as is absolutely required to get a clean cut and good weed. Reduce the **Force** in small increments and perform more test cuts until the test cut pattern sticks slightly while weeding; Then, set the **Force** to the previous position. Press and hold the **Test Cut** key for 3 seconds. The cutter will cut a large test pattern as a final check. Move the carriage and material to a starting position for the first file. Press the **Set Origin** key on the keypad. The light on the keypad will turn green.

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**The cutter is ready to cut. Refer to the **User Guide** and your design software documentation for more information about optimizing cutter performance.**

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