

BEND-TECH DRAGON A400

Start-Up and Training Manual Part 3: Torch Mount and Software Overview



Revision 4 | English

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Dragon A400

Start-Up and Training Manual Revision 4

English Original Instructions

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Tube and Pipe Library

1.1 Tube and Pipe Library Overview

The Tube and Pipe Library is where the Operator sets up material, creating a material list that will be used in a given project. Before a project can be started, the type of material and specifications of the material must be entered into the Tube and Pipe Library.

1.1.1 Open The Tube and Pipe Library



Before performing any type of cutting procedure on the Dragon A400 the Operator must first add material(s) into the Tube and Pipe Library.

To begin this procedure, in the Bend-Tech Dragon CAM software, click Tube Library.



This will open the interface for logging material types and sizes into the Library.

Once a material is entered into the Tube and Pipe Library, it allows the Operator to quickly choose a given material from the Library without having to re-enter the dimensions of the material.

1.1.2 Add New Material Into The Tube and Pipe Library



To enter a new material into the Tube and Pipe Library, click the green "Add New" icon in the bottom left hand corner of the screen.

1.1.3 Choose The Type Of Material



On the right hand side of the screen, choose the type of material that will be loaded into the machine by clicking the icon displaying the appropriate shape (round, square, etc.).

1.1.4 Dimensions



Depending on the type of material chosen, the Operator will need to enter dimensions for the material. Enter the dimensions of the material in the text boxes.

Entering accurate material dimensions is critical to achieving precise machine operation.

1.1.5 Naming the Material



The Operator will be required to choose a name for the material. The majority of Operators simply enter the material dimensions for this, but it can be named anything the Operator desires.



With material logged into the Tube and Pipe Library, the Dragon A400 is now ready to accept the material.

1.1.6 Additional Settings

Tube Library Settings will automatically default to preset values in Bend-Tech software. However, it is important for the Operator to ensure such things as default stock length, Chuck Grip, and Lead In/Out settings are appropriate for the material being run. Side Offsets Calibration is necessary before processing square or rectangle material.



2.1 Torch Mount Overview

Before the Dragon A400 can perform a cutting procedure, the Torch must be calibrated. The Torch calibration process requires the Operator to run the Torch Mount calibration feature found in the Machine Library. The Torch Mount procedure sets the Torch to the correct height and readies the Torch for the cutting process.



Before the Torch Mount procedure can begin the machine must be powered on and all Axes homed.

! Caution !



Ensure the Torch wand is not installed on the Toolhead or is mounted only in the top collar before starting the Torch Mount procedure.

2.1.1 Launch Torch Calibration Tool

Recent Files	FECH Bent Part	Create New Straight Quic Import	ck Nest	ry trary	To begin the Torch Mount procedure in Dragon CAM, Got to the Tools dropdown menu and click Machine List. Select "Dragon" from the Machine List.
Help & Guides: Pr Online Resources:	roduct Guides Br Wiki Pages Be	eginner Tutorials nd-Tech Website			
■Machine Lut Dragon	Man Basic Machine Name: Dragon Model: Dragon A400 (24 foot Lint of Measure: Inch	Tools Actions Mechanic	Use the wizard to properly calibrate you Wizard	ur machine.	In the menu bar at the top of the interface click Calibration. This will open a new interface.
Add New Dekte Clone	○ Rectangle	LChannel Has Mater UChannel Rat/Bar	al Lifter	Switch	



Click Torch Mount at the bottom right of the new interface. This will open the Torch Mounting Utility interface.

2.1.2 Torch Mount Utility



In the Torch Mount Utility interface click the Select Material drop down and select a material type that's been entered in the Tube and Pipe Library that will be used for the Torch Mounting process.

Refer to Section 2 of this manual for material creation process.

This tool will allow you to easily re-mount your torch onto the machine without having to recalibrate the tool offset.
The machine must be powered on and properly homed before using this tool!

 Step 1: Define Material

 Select the material you will use for this process. Then enter the length of the material.

 Select Material:

 1.75 DOM

 I.75 DOM

 Step 2: Click 'Run'

 Click the Run button below and the machine will move into position to load the material.

 Run

 Step 3: Install the Torch

Once the machine is done moving, install the torch so it is resting on the surface of the material.

Enter the length of the material that will be loaded into the machine. Bend-Tech recommends using 3-6 ft. of material to avoid material sagging.





A Torch Collision Warning interface will appear. Check to confirm the Torch is raised enough that it will not contact the material before it can be adjusted. If the Torch is too low, adjust it so it is clear of the material.

Click Yes. At this point the Trolley will move into position based on the length of the material as entered in the Torch Mount Utility interface. The Toolhead will move into position based on the size of the material. The machine is now ready for material to be loaded.

It may be necessary to manually adjust the Torch in order to load the material.

2.1.3 Load The Material

Using a ¼ in. Allen wrench, the Operator should adjust the Gate openings wide enough to accept the material using the front and rear Gate Lead Screws. Feed the material through the Gate, then adjust the front and rear Gate Lead Screws so they are finger tight with the material. When mounted in the Gate, the material should move freely forward and backward with no play side-to-side. Adjust the Chuck to accept the material using the Chuck Key. Feed the material into the Chuck and tighten the Chuck with the Chuck Key. The Torch is now ready to be adjusted in relation to the material.

At this point if the material is not in the correct position for Torch calibration the Operator can change the value in the material length to feed material forward or backward. After a new value is entered press "Run" and the Dragon A400 will adjust the position of the Trolley accordingly.

2.1.4 Setting The Torch

Manually lower the Torch so the tip is resting on the surface of the material. Tighten the Torch mounting collars using the appropriate hex wrench until they are snug.

The Torch is now set and ready to cut material.

2.1.5 When To Perform Future Torch Mount

Once the Torch is set into position it is ready to cut any material loaded into the machine without further adjustment. However, there are two exceptions:

- If the Torch head is removed from its mounting clamps, the Operator will need to perform the Torch Mount Utility procedure to re-establish the Torch position.
- 2. Different Torch consumables such as fine cut consumables may require different Torch positioning.

At this point the Dragon A400 is ready for operation.



3.1 Dragon CAM

The Dragon CAM software allows the Operator to design and create new parts for production using the Dragon A400. Dragon CAM software is designed to be an easy-to-use interface that allows for one-off custom parts to be produced, or for complete project production. Parts can be easily designed and saved for immediate production as well as production at a later date.



This Chapter is set up as a procedural. Following these steps will walk the Operator through a basic part creation process and introduce the Operator to many of the basic controls found in the Bend-Tech Dragon software.



Bend-Tech recommends beginning operations using round material.

3.2 Create New Part

On the Bend-Tech Dragon software task menu, under Create New, choose the type of part you wish to design.

For this tutorial, under Create New, we will choose Straight to create a new straight part. This will open a new interface which will include a 3D, five axis design window in the bottom right.





3.2.1 Dragon CAM Preparation Checklist

Dragon CAM Support Asset	Action
Tube and Pipe Library	Has material been entered and named in the Tube and Pipe Library as outlined in Chapter 2 of this section?
Torch Mount	Has the Torch been mounted and calibrated as outlined in Chapter 1 of this section?

3.2.2 Die And Material



Select the Die & Material tab near the top left of the interface. In the pull down menu choose the type of material you will be working with from the Tube and Pipe Library. Refer to Chapter 2 of this section to see how to enter material into the Tube and Pipe Library.

3.2.3 Part Name



Choose a name for the part and enter it in the text box under Part Name.

The Part Name will show up in Nest Part once the project is entered and saved in the Nest Part feature.

3.2.4 Tube Length



3.2.5 3D Interface Control

Once the part is visible in the 3D design window the Operator can use the mouse to rotate the part, zoom in/zoom out, or drag the entire part by holding the scrolling wheel down.

3D Interface Control	
Zoom	Scroll in/out
Drag	Hold down scroll wheel, or click and hold both mouse buttons
Rotate	Hold down right button
Reposition	Press the Home button

3.3 Cutting



Click the Cutting tab. The Cutting interface allows the Operator to choose and set up a variety of cuts on the material.

3.3.1 Adding A Cut



Click Add to add a cut or notch to the part. The program will default to cope/notch. The program will default the cut location to the Start end of the material.

3.3.2 Changing The Cut Location



Under the Location tab, click Start. Clicking the Location tab will flip the cut to the other end of the part.

3.3.3 Changing The Type Of Cut



Clicking Type will switch the cut from Cope/Notch to Miter.

3.3.4 Additional Cuts

If the Operator Clicks Add a second time, the program will add a cope/notch to the other end of the part as the default cutting action.

	Location	Туре	Material	Rotation	Angle	Offset	
	Start	Cope/Notch	.75 DOM	0	90	0	
	End	Cope/Notch	.75 DOM	0	90	0	
1							

3.3.5 Material

The Material drop down menu allows the Operator to change the size of the material for which the cuts are being produced. Choosing the material determines the cutting profile of the cope/ notch.

Location	Туре	Material	Rotation	Angle	Offset	
Start	Cope/Notch	1.75 DOM		90	0	
End	Cope/Notch	1.75 DOM		90	0	
						_



3.3.6 Rotation

Rotation allows the Operator to move the cut around the circumference of the material.

3.3.7 Angle

The Angle text box allows the Operator to change the angle of the cut.

Location	Туре	Material	Rotation	Angle	fset
Start	Cope/Notch	1.75 DOM	0	90	C
End	Cope/Notch	1.75 DOM	0	90	0

3.3.8 Offset

The Offset text box allows the Operator to change the offset of the cuts on the part in relation to the centerline of the part.

The offset value must not be larger than the overall diameter of the material.

Location	Туре	Material	Rotation	Angle	Offset
Start	Cope/Notch	1.75 DOM	0	90	0
End	Cope/Notch	1.75 DOM	0	90	0

3.3.9 Cross Tube Display

The Operator can choose the Wire Frame display or the Shaded display to assist in visualizing how the part will interface with the overall project. Choose None for parts display only, with no visualization display.

Cross Tube Display

None
 Wireframe
 Shaded



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3.4 Holes



Click the Holes tab. The Holes interface allows the Operator to choose and set up a variety of holes that can be cut into the material.

3.4.1 Add A Hole



To add a hole to the part click Add. The Add New Hole window will appear.



The Operator can use the drop down menu to choose the type of hole needed for the part. Choose Round. Click OK.

3.4.2 Hole Location



Change the Distance value to move the hole location along the length of the tube.

Choose the desired Measure From value from the dropdown menu.

3.4.3 Hole Width



The program chooses a default size for the hole ($\frac{1}{2}$ in.). Change the Hole Width value to change the size of the hole.



If the Operator chooses a hole that is too big for the material the program will shade all text boxes red until the hole size is corrected.

3.4.4 180-Degree Hole



For this tutorial we will use the interface to create a second hole 180-degrees from the original hole.

To do this, check Create Opposite Hole to create a hole on both sides of the part.

3.5 Edit Flat

In some cases it may be helpful to see a flat version of the part that the Operator has designed. This is performed easily in the Bend-Tech Dragon software. The Operator can also use this interface instead of the 3D interface to edit and create a part.



Edit Flat is typically used by the Operator to mark or engrave part IDs, or move lead-in locations.

3.5.1 Opening Edit Flat



At the top of the screen click the Edit Flat icon.

A flat version of the cut will appear in the design window.



3.5.2 Adding Part ID

Part ID Location X:	Location Y:	Angle:	Size:	Action:	Δ
6	0		0	1 Engrave	~
Text: New Straight Font: Arial	Part V	() () ()	/alue Format Perimeter [Rotation D	Distance legrees	
Cut-Off Start: 0	Cut-Off End	: 0			
Part Name:			11/1	: 1/2019 7:35 AM	¥
Notes:					

In Edit Flat, the Operator can add a Part ID to the part and program the machine to add the ID to the part.

In Edit Flat, in the Part ID box, edit the value in the Location X text box to position the Part ID on the material from the start of the part. Edit the value in the Location Y text box to position the Part ID on the circumference of the material.

In the Angle text box, enter the angle at which the Part ID should appear on the material. A value of 0 will align the text lengthwise along the material.

In the Size text box, enter the size of the font as it should appear on the material. The part display interface will size the text accordingly on the part. This will give the Operator a visual of the size of the text in relation to the part.

In the Action drop down menu, the Operator can choose how the machine will apply the Part ID to the material. Typically the Part ID will be Mark or Engrave.

In the Text text box, enter the text that should appear on the material.

In the Font dropdown, choose the desired font that will be used with the Part ID.

In the Y Value Format box, choose the measurement metric the software will use to program how the machine places the text on the circumference of the part. Perimeter Distance will place the text from the start of the part as viewed in Edit Flat, Rotation Degrees will place the text according to Y Axis rotation.

At the bottom of the interface, the Operator can choose a name for the part by typing the desired name in the text box under Part Name. The Part Name is not necessarily the same as the Part ID.

3.6 Nest Part



After the part has been designed, at the top of the screen, click Nest Part. Nest Part allows the designer to arrange the designed parts on a full material length for cutting. The parts can be arranged to optimize the given amount of material.

3.6.1 Nest Part Procedure

At the top of the interface click the Nest Part icon. This will open a new interface.

Setup Parts Shifts Details	Stock Remaining: 240.000 Usable: 223.125
Machine: Image: Comparison of the second	
Stock Lengths: Length Quantity 240 1	Serk #Militx1
Add Remove Auto-Nest	
Web Size: Cut Feedrate Override 0.5 Ignore Start Cut I Disable 'OK to Move' Run Partial Job	
Pause Before Reposition	



The Operator will choose a machine where the Nest Part project will be run. The Operator will have already chosen a name for the machine as outlined in Chapter 3 of the Start-Up and Training Manual Part 2. Most shops will only have one Dragon A400 machine logged into the computer, in which case it will default to that machine.

3.6.2 Stock Length



The Stock Length is the length of material that will be used when the Nest Part is produced. In the text box below the machine selection drop down menu, enter the length of the material.

Enter how many pieces of material will be used to create the Nest Part(s). The Operator can choose a set material length or choose multiple different lengths based on what is available at the shop location.



The default length of the material can be set in the Tube and Pipe Library per material.

3.6.3 Parts



3.6.4 Part Functions

In the part display interface, the Operator can use Part Functions to edit parts after they have been placed on a stick of material. Part Functions can help the Operator create a more efficient Nesting Project.

Part Function	Operation			
Re-Order	The Operator can use the Re-Order function to adjust the order of parts as they are placed on the stick.			
Move	The Move feature allows the Operator to move either a group of, or a whole set of nested parts along the stick.			
Rotate	The Rotate function allows the Operator to rotate the part on the material so parts can be fit closer together, reducing scrap. This can also help the Operator make more efficient transition between parts.			
Remove	The Remove function allows the Operator to remove a part from a stick.			

3.6.4 Shifts



The Shifts tab will display the order of operation the machine will use for its cutting path. The Operator can use the Shifts feature to rearrange cutting actions, unassign or remove actions from the list.

3.7 Run Project

With a part created and nested, the Operator can choose to Run Project to begin the cutting and production procedure.

3.7.1 Run Project Procedure



At the top of the interface, click Run Project. This will open the Machine Control screen. Click Start. In the Status window the Travel, Laser and Load icons will light up.

If the Operator selects Run Project, then clicks Start, the software may display a prompt to Home the machine. If this message appears, the Operator will be required to Home the machine before proceeding.



Clicking Run Project sends a G-code to the machine driving software (Mach3) readying the machine to perform an operation. It does not start the cutting process.



Clicking Start does not initiate the cutting process. It will initiate the entire project process, walking the Operator through each step.

3.7.2 Load Material

When the status light for Load appears, load material into the Gate, and then secure it into the Chuck as outlined in Chapter 1 of the Start-Up and Training Manual Part 3.

3.7.3 Pre-Run Checklist

By this point the Operator should have thoroughly readied the machine to perform cutting procedures. However, Bend-Tech, LLC recommends always ensuring the machine is ready to run before each job. Never assume the machine is ready without a pre-cutting check.

Pre-Run Checklist

- □ Is the laser on the material lined up with the centerline of the material?
- □ Is the Chuck tightened on the material?
- Are the Gate Lead Screws finger tight on the material?
- Are the Gate Lead Screws at 12 o'clock and 3 o'clock?
- ☐ If cutting round material on non-powered Gate machines, is the Gate locked?
- \Box Is the Torch unit powered on?
- □ Is the compressed air connected to the machine and the Torch unit?
- Are there replacement Torch consumables on hand?

3.7.4 Start



Once the checklist has been completed, the project is ready to be run. Click Start. The machine will begin the cutting procedure.

Import Project Process

4.1 Import Project Process Overview

The Dragon A400 is capable of producing single parts, multiples of a single part, or complete projects composed of multiple unique parts. Using the Import and Nest Part feature, the Operator can arrange and cut multiple unique parts from the same piece of material. This is especially effective when producing parts for such things as a handrail assembly, which may be composed of 20 parts or more.

Also, it is often the case that the parts drafter/designer is separate from the Operator. With the Nest Part feature the designer can set up an entire nesting project and pass it on to the Operator. The project can then be opened to the computer from an external drive such as a USB drive. The Bend-Tech software allows the Operator to import CAD designs from the computer and prepare them for production using the Nest Part feature.

When the Operator initiates the Nest Part feature the Bend-Tech software creates a Nesting Project. Once the Nesting Project is created the Operator can save the Nesting Project for use later.

4.2 Importing A Part To Dragon CAM



There are two ways to import a file into Dragon CAM. On the Dragon CAM task menu interface, under Create New, click Import.

The second method is to go to the menu bar at the top of the screen, click File and in the dropdown menu click Import.



Choose the type of file you're importing. Click OK.

4.2.1 Opening A File In Dragon CAM

After clicking on the type of file the Operator is searching for, a browse menu will open. Search for the file needed to create the Nest Project. When the file is located, click Open. The file will open in Bend-Tech CAM. Depending on file size, this could take several minutes.

4.3 CAM Auto Import Interface



	1				-
Name	Length	Bend Count	Quantity	Material	^
CLOC MAY CAGES STEP Port 1	07 127	2	1	1 750" 0.005" Dourd	
OG MAV CAGE5.STEP Part 2	97.137	3	1	1.750" - 0.095" Round	
	10.047		1	1.700 0.000 1100110	
OG MAV CAGE5.STEP Part 4	18.547	1	1	1.750" - 0.095" Round	
OG MAV CAGE5.STEP Part 5	10.791	0	1	1.750" - 0.095" Round	
OG MAV CAGE5.STEP Part 6	10.791	0	1	1.750" - 0.095" Round	
OG MAV CAGE5.STEP Part 7	52.500	0	1	1.750" - 0.095" Round	~
]

The Part Listing interface above the part Display interface will show the arrangement of the parts by their part name. Clicking on one of these will highlight that particular part in the part interface.

The Operator can double click the Name text box and change the name of the part. Double click the Quantity text box to change the part quantity.



4.3.2 Nest Part



At the top of the interface, click the Nest Part icon. This will begin the process of arranging the parts on the given material for cutting. The Operator must select which parts will be nested from the import list. If the project has multiple material sizes, the Operator will need to create a Nesting Project for each material size.

4.3.3 Creating Temporary Materials

If all the material sizes are not entered in the Tube and Pipe Library a warning will appear that says, "The action cannot be completed with a temporary material. Please complete the material in your library." Click OK. The software will automatically create a temporary material in the Tube and Pipe Library. The Import List will display material already entered in the Material

Incomplete Material Error	\times
This action can't be completed with a temporary material. complete the material in your library.	Please
	OK

Library in green type. Material not entered in the Material Library will be displayed in red type.

4.3.4 Complete Temporary Material





4.3.5 Setting Cutting Parameters



Under the Machine icon, the Operator will need to fill in certain parameters in the text boxes as listed.



4.3.6 Setting Lead In/Lead Out

End Cut Profiles			Internal Cuts
Lead-In Type:			Lead-In Type:
Perp		~	😑 Same as End Cut 🛛 🗸
Length/Distance: 0.125	Angle/Sweep: 0	Radius: 0	Length/Distance: Angle/Sweep: Radius:
Dwell Time (sec): 0	Default Location: Default	~	Dwell Time (sec):
Lead-Out Type:			Lead-Out Type:
Perp		~	😑 Same as End Cut 🛛 🗸
Length/Distance: 0.125	Angle/Sweep: 0	Radius: O	Length/Distance: Angle/Sweep: Radius:
0			

The Operator can set the Lead In/Out for the material. Click Lead In/Out at the top of the interface.

In the End Cut Profiles box, under Lead-In Type, click the text box drop down menu, then click the type of lead-in needed for the material. Typically this is set to Perpendicular. Also within the End Cut Profiles box, enter **.125** in the Length/Distance text box for both the Lead-In Type and Lead-Out Type.

Click the text box under Lead-Out Type and choose the type of lead-out needed for the material. This is typically set to Perpendicular. Repeat this process in the Internal Cuts box, choosing "Same as End Cut."



Click Save.



Angle and Channel material typically require different Lead-In settings.



The settings in sections 4.4.5 and 4.4.6 are general settings and may not be optimal for all materials.

4.3.7 Other Basic Settings



There are other basic settings the Operator should enter when setting up Temporary Material in the Nesting Project. Click Machine in the menu bar at the top of the interface.





Click Nest Part.



After clicking Nest Part, the software will open a Nesting Project interface for each size material used in the project. For example, if there are two different tube sizes, two separate interfaces will open, one for each size material. If there is only one size material, one interface will open.

At this point the project is Nested.

4.4 Running A Nesting Project

Once a Nesting Project is created, it can be saved and run at any time. The software will save the project until the Operator decides to delete it.

4.4.1 Preparing The Parts



In the Nesting Project interface, the Operator can change the quantity of a part in the project. To do this, click the Parts tab. Click on an individual part in the parts listing.



Below the parts listing Click Properties.



This will open an interface that will allow the Operator to enter or change a Part Name and a Quantity Needed. The Operator can also change the Action Ordering. Click OK. Repeat this process as needed for the parts listed.



It is advised the Operator choose Ascending unless highly experienced.



A second way to change the quantity of a part is to click the part in the list. This will highlight the entire part box to its designated color. The operator can now change the quantity by clicking the green +, the red - or the blue +, which will fill and entire piece of material with the same part.

4.4.2 Setup



In the Nesting Project click the Setup tab. Ensure the length of the material used is correct in the Stock Lengths interface.

Near the center of the Setup interface, click Auto Nest. By clicking Auto Nest, the software calculates if the total number of parts can be produced on the material entered in the Stock Lengths interface. If there is not enough material the Operator will need to enter a larger number under Quantity.



If the Operator enters 0 under quantity in stock lengths the software will apply the correct number of material sticks.

4.4.3 Parts

In the Nesting Project, under the Parts tab, the Operator can edit how many parts are nested on a stick as well as the order the parts are placed on the stick. Each part will be displayed on the left hand side of the interface and will automatically be assigned a default color by the software. Next to each part the Operator has three options to add or remove parts in the project.

Icon	Function		
Green +	Add part(s) to the stick		
Red -	Remove part(s) from the stick		
Blue +	Fill a stock with a part		

When the Operator clicks the green + icon or red - icon a popup will appear where the number of parts being added or removed can be entered.

4.4.4 Part Functions

Under the stick display interface, in the Part Functions box, the Operator can click Re-Order to move a part to a different location on the stick. Click Re-Order, mouse over the part and the part will be highlighted. Click the part and the software will show an outline of the part tethered to the mouse cursor. Move the outline to the desired position on the stick along the edge of another part nested on the stick. Click to place the part in the new position.

Click the Move icon, click on a part on the stick, and the software will allow that part to be moved along the stick or to a different stick.

Click the Rotate icon, click a part on the stick, then move the mouse cursor to rotate the part on the stick. Click to place the part in the new, rotated position.

Click the Remove icon then click on a part and it will remove it from the stick.

4.4.5 Stick Functions

Under the stick display interface, in the Stick Functions box, the Operator can click the Clear icon the clear all parts off a stick. When the Clear icon is clicked a popup will appear that reads "Are you sure you want to remove all parts from the stick?" Click Yes. This will clear the stick.

Click the Rename icon to add a name to the stick.

Click the Quantity icon to add identical sticks to the Nesting Project. Adding duplicate sticks will change the number that appears above the stick in the interface.

4.4.6 Adding Material



In the Setup tab under the Stock Lengths interface, Click Remove.



Click Add. Enter the length of the material being used. Enter the quantity the software displayed as grayed-out material.



Click Auto Nest. The software will automatically change the Quantity to what is needed to run the project.

4.4.7 Saving

To save the Nested project, click File in the drop down menu at the top of the page, click Save As and enter a name and location where the project will be saved. The Operator can now X out of the interface. The project can be opened from its saved location for future production.

4.4.8 Opening a Saved Nesting Project

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There are two ways to open a Nesting Project. The Operator can open a Nesting Project by clicking the File tab at the top of the Interface, mouse over Open, then click Nesting Project. This will open a complete list of saved Nesting Projects. With the Nesting Project interface already open, the Operator can also drag and drop a Nesting Project into the interface, which will open the file.

4.4.9 Running A Nested Project



To run a Nested Project on the Dragon A400, having completed all previous steps outlined in this chapter, and with the Nested Project open, click Run Project at the top of the interface. If not already open, Mach3 will open.



The Machine Control interface will open. Assure all Axes on the machine are homed. Click Start. When the Load icon lights up, load the material into the machine. Click Start.

Attention

After completing Start-up and Training Manual Part 3, please proceed to Start-up and Training Manual Part 4.

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