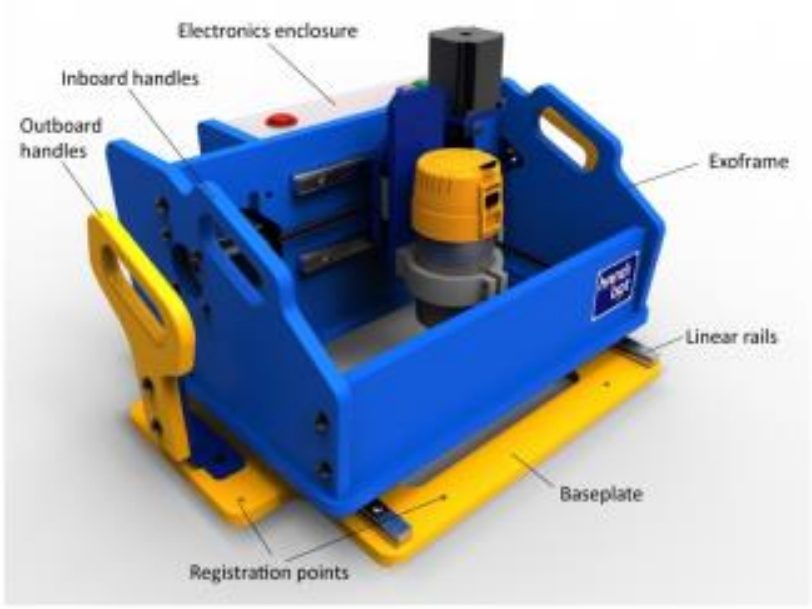
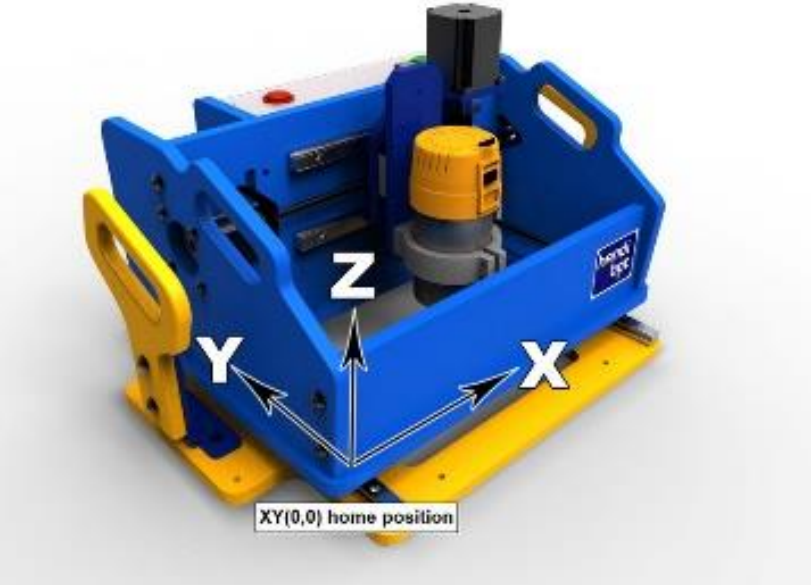
handibot®
smart power tool

Handibot Setup

1

Congratulations on your purchase of the Handibot, and welcome to the world of Smart Power Tools (and CNC). The Handibot is a small but capable tool that let's you bring the capabilities of digital cutting and machining to your work piece.





*LEAVE IT ATTACHED …

• Leave your Handibot attached to the test/packaging board it is bolted to in the shipping box. We will do our initial cuts on it.

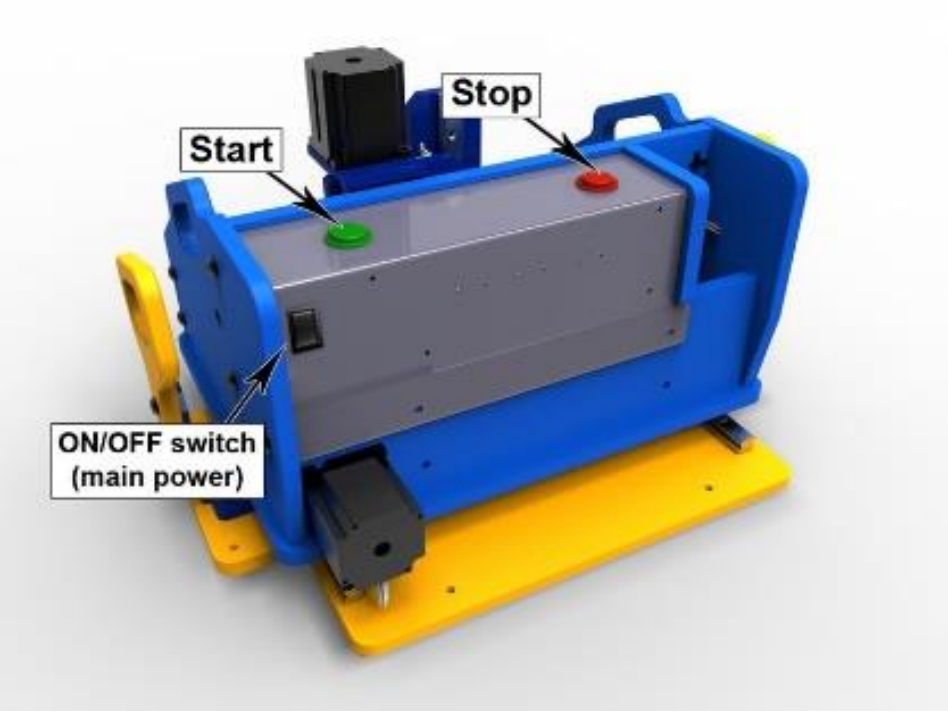
Handibot Anatomy

• Take a moment to familiarize yourself with the major components of your Handibot. We will refer to the tool using these terms, so they are helpful to know.

• At the outset, it is very important to understand the axis orientation of your tool, as well as the location of XY(0,0). This is also referred to as the *home position*.

2

Anatomy (continued) -



• On the reverse side of the Handibot, note the On/Off switch, and dust collection port.

3

Talking to Your Handibot

• Plug in your Handibot and turn on the power. {pix of switch and power cable}

• Log into your Handibot. If you have not already placed it on your network (see below), your Handibot will be available in Acces Point (AP) Mode to the computer or device (tablet or smart-phone) you are going to use to control it. Open the Wi-Fi manager on your computer or device. In it, a Handibot in AP Mode looks like an additional network. Your Handibot will appear there as “FabMo-*nnnnnnn*”. The password to log on to it is: go2fabmo

• After you log in, your network manager may say something like, “Unidentified network, No Internet Access”, BUT you will now have a direct link to your Handibot.

4

Talking to Your Handibot - continued

• Open an internet browser on your computer or device (only Chrome or Firefox browsers currently supported). And in the address line enter the URL 192.168.42.1
{pix entry}

• Dashboard access to your Handibot should appear.
{pix Dashboard}

You can follow-along in the instructions here, or click on the "QuickLaunch" app to get you going with your Handibot

5

Dashboard Overview

• The **Dashboard** gives you access to FabMo system functions (on left) for running jobs and managing your tool. Apps are in the center. A digital read-out panel (DRO) with movement functions swings in from the right.

6

- General Power Tool Use and Care -

- Do not force a power tool. Use the correct tooling for your application. The correct cutter will do the job better, and safer, at the rate for which it was designed.
- Do not use a power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Secure and support the workpiece. Use a stable work surface and clamps. Never not hold the work by hand or against your body.
- Do not touch the cutter or workpiece immediately after operation. They may be very hot and may burn you. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- Store idle power tools out of the reach of children. Do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

7

Choose the Right Cutting Tool

• Choosing the correct cutting tool or accessory will help you do your job safer and faster and reduce the risk of injury.

• Use only those cutters with speeds rated at least as high as the no-load RPM on the tool, 27,000 RPM. The wrong accessory can shatter during use, possibly causing injury.

• Never use dull or damaged bits. They are likely to cut poorly or break.

• Do handle sharp bits with care.

• The correct shank diameter for the standard collet in your tool is 1/4" (6.4 mm). Use the appropriate optional collet for other shank diameters.

• Do not use router bits with a diameter in excess of 1/2” (12.7mm) in your Handibot.

Using Cutting Tools Safely

• Inspect the router bit before each use. NEVER use a bit if the carbide is cracked or appears damaged in any way.

• Ensure that Handibot is in the “idle” state (green lights) before changing bits.

• The router has its own switch. Set the router switch to OFF before changing bits or making adjustments or changing bits. This will prevent an accidental router start during the bit change operation.

• Tighten collet nut securely to prevent the bit from slipping and damaging cutter or material.

Safety and Your Workpiece

• The Handibot is designed to be held in place on the workpiece during cutting using its outboard handles.

• Secure your workpiece! Small pieces will need to be fixture or clamped. Small cutout parts may need to be “tabbed”.

• Do not attempt to hold a workpiece by hand – this is dangerous because you cannot anticipate the next move of the tool.

• Make sure the work surface is free from nails and other foreign objects. Cutting into a nail can deflect cutting or shatter the bit.

• Your cutter may plunge through your material into the spoilboard below. Never use a hard surface like concrete or stone for your spoilboard as it can damage a cutter or disrupt cutting.

• Do not cut steel or other ferrous metals.

• Use the appropriate feed rate, depth of cut per pass, and router speed for the material you are cutting. This prevents overloading the motor and improves cut quality.

Safety WHILE Cutting

• Never start your Handibot when the bit is touching or within the workpiece. The bit may grab the workpiece and cause loss of control.
•If the router does not run smoothly, the bit may be bent or out of balance. Replace the bit immediately.
•Maintain a firm grip on the outboard safety handles during operation. The tool may move under cutting forces if released.
•Keep hands away from cutting area. Never reach under the workpiece for any reason. Keep the router base firmly in contact with the workpiece when cutting. These precautions will reduce the risk of personal injury.
•Never leave the machine running and unattended. A spinning cutter is dangerious as well as being a fire hazard.

Safety AFTER Cutting

•Be sure that the motor has stopped completely and before you move the Handibot. If the cutter head is still spinning when the tool is laid down, it could cause injury or damage.

•NEVER touch the bit immediately after use. It may be extremely hot.

•Store tools and bits with care. Do not drop them or subject them to excessive heat, cold or humidity.

•Unplug, clean and store the Handibot in a safe, dry place after use.

00 Instructions go here.

00 Instructions go here.

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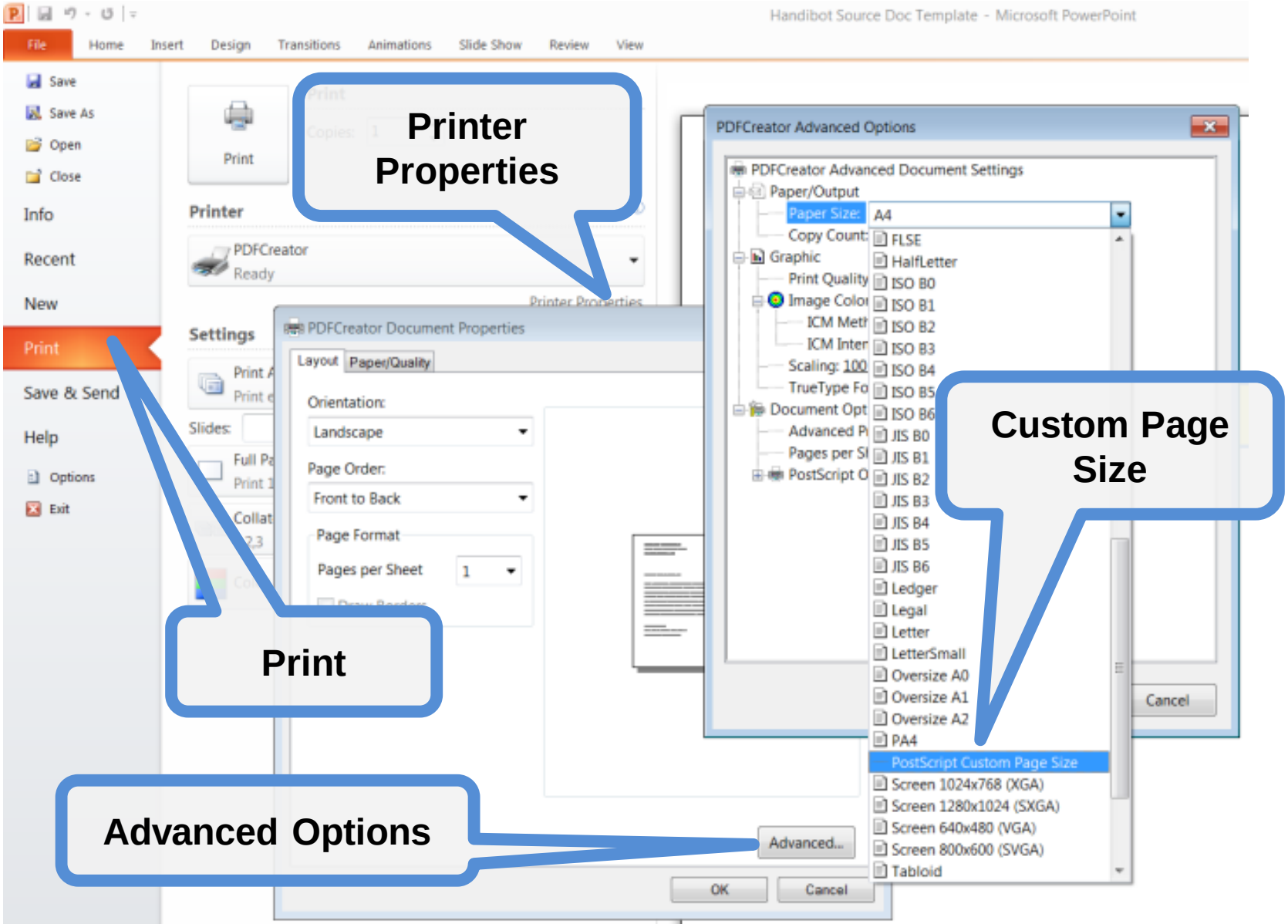
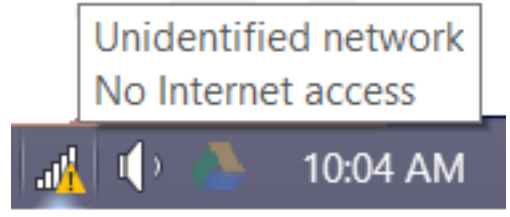
To print: select “PDFCreator” and click “printer properties”. In the advance menu select “PostScript Custom Page Size” as your Paper Size



0.1 WHEN YOU ARE READY TO START UP!

1. Plug in and turn on the power to your Handibot {pix of switch}

2. Log into your Handibot which is available in Acces Point Mode – It will look like an additional network in the WiFi manager on your computer or device … “FabMo-##########” The password is: go2fabmo . After you log in, your network manager will say something like, “Unidentified network, No Internet Access”, BUT you will now have a direct link to your Handibot.



0.2 THEN …

3. Open an internet browser on your computer, tablet, or phone (Chrome or Firefox). And enter the URL 192.168.42.1 {pix entry}
4. The Dashboard access to your Handibot should appear.
   {pix Dashboard}

Follow along in the Quick Launch Manual … and Click on the Quick Launch App in the Dashboard …