

ProfileTM Pre-installation Guide

Domestic Systems and for other
countries
that use 120 volt single phase

7/2014

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European Union Only



This equipment requires a dedicated electrical connection that is isolated from the public low voltage network.

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Profile Site Preparation Checklist

Gerber Innovations requires that you complete all Profile pre-installation tasks before a technician arrives at your site. **You must complete and sign this checklist attesting that the items have been completed and fax it back to Gerber Innovations at 866-418-4847.** Once we receive your completed Site Preparation Checklist and your router has shipped, we will schedule your installation and training.



Note: The installation technician will provide operations training following the Profile installation. The items listed below must be ready prior to installation. This is very important so that your staff can benefit from the training expertise that Gerber Innovation technicians can provide. When these conditions are met, we can assure you that the installation will be completed; your staff will be properly trained within the allotted 2-3 day installation/ training period and most importantly that your staff will be able to produce die tools on the Gerber Profile. If these are not completed and delays occur, you will incur additional charges at the current per-day rate. Contact Gerber Innovations for up-to-date installation and training fees.

COMPLETED	REQUIREMENT DESCRIPTION
Handling Instructions and Physical Specifications – pages 7-9	
<input type="checkbox"/>	I understand that the Profile system requires a loading dock or ground-level entrance
<input type="checkbox"/>	I understand that the crated Profile requires a forklift or pallet jack with extended forks at least 75" (1.9m) in length
<input type="checkbox"/>	I understand that the uncrated Profile requires a forklift or pallet jack with extended forks at least 68" (1.73m) in length
<input type="checkbox"/>	I have reviewed the size and weight of the crated Profile system and understand that doorways must be at least 6'6" (1.98m) wide that corners have sufficient turning space for unloading and moving to the unpacking/ installation area
<input type="checkbox"/>	I have reviewed the size and weight of the uncrated Profile system and understand that it requires doorways to be at least 6'0" (1.83m) wide and that corners have sufficient turning space when moving to the final destination
<input type="checkbox"/>	Our facility is one level from the unloading site to the Profile's final destination
Work Area Space Requirements – Pages 10-13	
<input type="checkbox"/>	I have prepared the areas for the Profile and Profile Press and they meet the minimum space requirements as shown on page 10-12. The floor is level and in good condition and the area is free of debris. The system crates can be located nearby

Electrical Requirements – Pages 14-17	
<input type="checkbox"/>	Power has been run to the proper location and the receptacles are installed. Standard requirements are listed below. See page 22 for alternate configurations
<input type="checkbox"/>	Profile System: 208-240 V, single phase, L14-30
<input type="checkbox"/>	Spindle Motor (standard 3hp): 200-230 V, single phase, L14-20
<input type="checkbox"/>	Vacuum Pump: 200-240 V, three phase, 23 Amps, (starter box rough-wired)
Compressed Air Requirements – Pages 18-19	
<input type="checkbox"/>	I have provided compressed air at 105-120 PSI at 15 CFM for the Profile operation I have provided compressed air at 105-120 PSI at 28 CFM with the Thin Plate Metal
<input type="checkbox"/>	Cutting Kit if I have ordered this option with the Profile System
<input type="checkbox"/>	I have installed an air dryer (refrigerated or desiccant) in the air line
<input type="checkbox"/>	I have installed a filter in the air line to remove any oil blow-by from the Compressor
Training Requirements – Page 20	
<input type="checkbox"/>	The operator to be trained has basic computer skills and understands the Microsoft Windows operating system
<input type="checkbox"/>	I have sufficient dieboard training materials on hand to create the types of tools I will use

By signing this document I indicate that the checklist items have been completed and that the site is prepared for Profile installation. I understand if these items are not completed and delays occur, I will incur additional charges at the current per-day rate.

Company: _____ **Name:** _____

Signature: _____ **Title:** _____
Date: _____

Introduction

Thank you for purchasing the Gerber Profile™ Die Tool Production System from Gerber Innovations. This Pre-installation Guide will assist you in preparing your site prior to the arrival of your Profile system. Please review this guide carefully.

About this booklet

This booklet provides a checklist of requirements and instructions for preparing your site for the installation of your Profile system by a Gerber technician. Review this guide carefully and upon completion of the pre-installation tasks, fill out the Site Preparation Checklist located at the back of this guide and fax it to Gerber Innovations at 860-645-5641. Upon receipt of the checklist and shipment of your router, Gerber Innovations will schedule your installation and training.

This guide is arranged as follows:

- ◆ Profile Site Preparations Checklist
- ◆ Introduction
- ◆ Things You Need to Complete Pre-installation
- ◆ DieWorks™ System Requirements
- ◆ Physical Specifications
- ◆ Handling Instructions
- ◆ Operating Environment
- ◆ Work Area Space Requirements
- ◆ Electrical Requirements
- ◆ Vacuum Table Installation Requirements
- ◆ Air Requirements
- ◆ Transportation Claims
- ◆ Profile and DieWorks Training

Conventions

The following conventions are used in this manual:



Note: A note contains important information, which could affect successful completion of a task



CAUTION: A caution statement contains information which, if not observed, could result in damage to the equipment.



WARNING: A warning statement contains information which, if not observed, could result in personal injury.

Customer support



If you have questions regarding the installation or use of the Profile, please contact Gerber Innovations:

Toll free: 1-800-400-3458

Direct Line: 1-860-871-3757

Fax: 1-866-418-4847

E-mail



The Internet e-mail address is webmaster@gerberinnovations.com.

The World-Wide Web



The Gerber Innovations web site address is www.gerberinnovations.com.

Things You Need to Complete Pre-installation

The following items are necessary to complete the Profile pre-installation tasks. Some of the items require a licensed industrial electrician that you must supply. These items are indicated with an asterisk. Gerber recommends assembling the items you need before you begin the pre-installation tasks.

- ◆ Loading dock or ground level entrance using a fork lift with extended forks at 75" (1.9m) to move the crated Profile.
- ◆ Fork lift or pallet jack with extended forks of 68" (1.73m) to move the uncrated Profile.
- ◆ One level path from delivery site to the final Profile location (no stairs).
- ◆ Doorway width of at least 6'6" (1.981m) for the crated Profile and 6'0" (1.82m) for the uncrated Profile.
- ◆ NEMA L14-30 Connector (Profile electrical receptacle)*
- ◆ One of the following NEMA electrical connectors for the Profile spindle.
- ◆ NEMA L14-30 Connector for the ATC 3hp Spindle* (*standard Profile spindle*)
- ◆ One of the following dedicated power lines for the Profile Vacuum Pump Motor. Identify your three phase voltage:
 - 1 10hp, three phase, 220 V, 23 Amp* (*standard Profile Vacuum Pump Motor*)
 - 2 10hp, three phase, 400-480 V, 11.5 Amp* (*alternate motor*)
 - 3 7hp, single phase, 208-230 V, 39-37 Amp* (*alternate motor*)
- ◆ 115 V, 60 Hz, 5.4 Amp power line for the Profile Press24 or 120V, 60Hz, 13 Amp power line for the Profile Press48*
- ◆ Compressed air supply
- ◆ Compressed air line air dryer (refrigerated or desiccant)
- ◆ Compressed air line oil filter

*Requires a licensed industrial electrician

DieWorks System Requirements

A computer is supplied with the Gerber Profile. These system requirements are provided as a minimum recommendation for reference.

The system configuration listed below is the minimum recommended hardware required if you are using Windows 7.

- ◆ 1 GHz or faster 32 bit (x86) or 64-bit (x64) processor
- ◆ 1 GB RAM (32-bit) or 2 GB RAM (64-bit)
- ◆ 16 GB available hard disk space (32-bit) or 20 GB (64-bit)
- ◆ DirectX 9 graphics device with WDDM 1.0 or higher

Physical Specifications

The Profile Router and all options, except for the Automatic Tool Changer (ATC) are usually shipped in one crate. The Profile Press24™ or Profile Press48™ and the Vacuum Table equipment are shipped in separate crates. ATC option is shipped in six boxes strapped to a standard shipping palette. Below are the physical specifications of the crated and assembled system.

Crated Profile System Components

	Length	Width	Height	Weight
Profile 404 (without options)	81 inches (2057.4 mm)	75 inches (1905 mm)	73 inches (1854.2 mm)	1760 lb. (798.3 kg)
Profile 408 (without options)	130 inches (3302 mm)	75 inches (1905 mm)	73 inches (1854.2 mm)	2530 lb. (1147.6 kg)
Profile Press24	72 inches (1828.8 mm)	32 inches (812.8 mm)	71 inches (1803.4 mm)	354 lb. (160.7 kg)
Profile Press48	43.5 inches (1104.9 mm)	71.25 inches (1809.75 mm)	78.75 inches (2000.25 mm)	850 lb. (385.5 kg)
Vacuum Table equipment	48 inches (1219.2 mm)	24 inches (609.6 mm)	24 inches (609.6 mm)	350 lb. (158.9 kg)
ATC Skid	48 inches (1219.2 mm)	48 inches (1219.2 mm)	45 inches (1143 mm)	350 lb. (158.9 kg)



Note: Doorways must be at least 6'0" (1.83m) wide with sufficient turning space to accommodate the width of the uncrated Profile 404 or 408 as it is moved to its final destination in your facility.

Assembled Profile System Components

	Length	Width	Height	Weight
Profile 404 Table	75 inches (1905 mm)	68 inches (1727.2mm)	60 inches (1524 mm)	1245 lb. (564.7 kg)
Profile 408 Table	123 inches (3124 mm)	68 inches (1727.2 mm)	60 inches (1524 mm)	1575 lb. (714.4 kg)
Electrical Cabinet	25 inches (635 mm)	18 inches (457.2 mm)	29 inches (736.6 mm)	175 lb. (79.4 kg)
Profile Press24	63 inches (1600.2 mm)	25 inches (635 mm)	62 inches (1574.8 mm)	294 lb. (133.5 kg)
Profile Press48	104 inches (2641.6 mm)	25 inches (635 mm)	66 inches (1676.4 mm)	425 lb. (192.95 kg)

Handling Instructions

Gerber Innovations, a division of Gerber Scientific, Inc. ships the Profile system and Vacuum Table equipment FOB South Windsor, CT. Common Carrier service may be provided directly to the installation site.

The Profile is a precision machine tool and should be handled accordingly. Never lift the system higher than absolutely necessary or transport it in an abusive manner.

You must make provisions for unloading the Profile from the truck and moving it to its destination. A **crated** Profile system requires a forklift or pallet jack with extended forks of 75" (1.9 m) if your facility does not have loading dock access. The **uncrated** Profile requires a forklift or pallet jack with forks a minimum of 68" (1.73 m) in length to safely move the system.



CAUTION: The Profile is a precision machine tool and should be handled accordingly. Never lift the system higher than absolutely necessary or transport it in an abusive manner.

Aisle and doorway clearance information

Refer to the crated dimensions of the packaged Profile system to ensure there is sufficient clearance for cornering the package.

Refer to the Physical Specifications section for the dimensions of the crated and uncrated Profile, to ensure there is sufficient clearance for moving and cornering the package through aisles and doorways. The crated Profile requires at least 78" (1.98m) and the uncrated Profile requires at least 72" (1.83m) of clearance.



CAUTION: Do not tip the Profile on its side in an attempt to fit it through smaller than specified openings.

Operating environment

The operating environment must be within a temperature range of 55°F - 95°F (13°C - 35°C), and within a relative humidity range of 0% - 70%.

Work Area Space Requirements

Profile space requirements

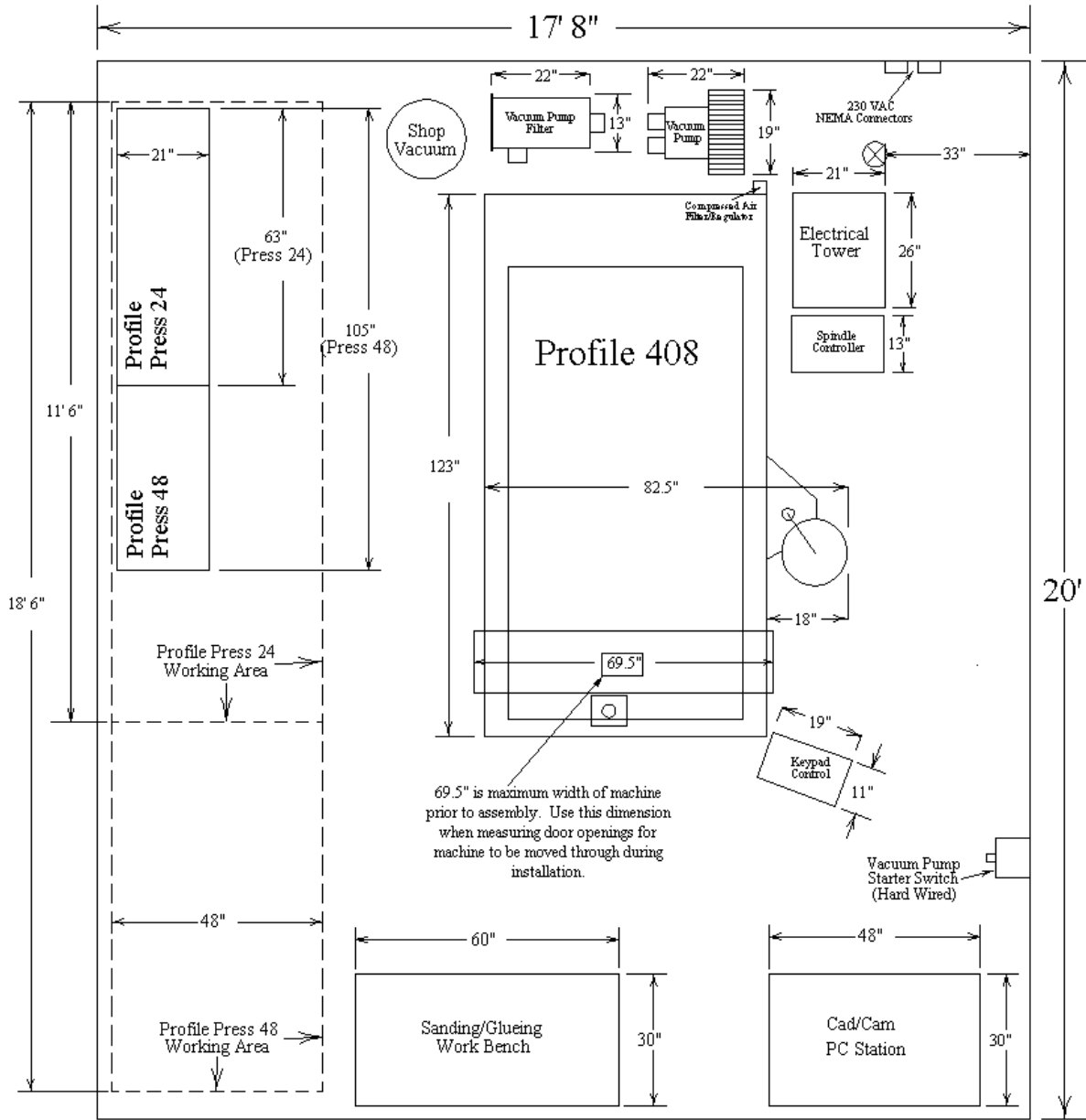
Both the Profile 404 and Profile 408 require a work area width of 15.6' (4.8 m). This provides about 5' (1.5 m) of space on either side of the router for safe access to the table and controls. You

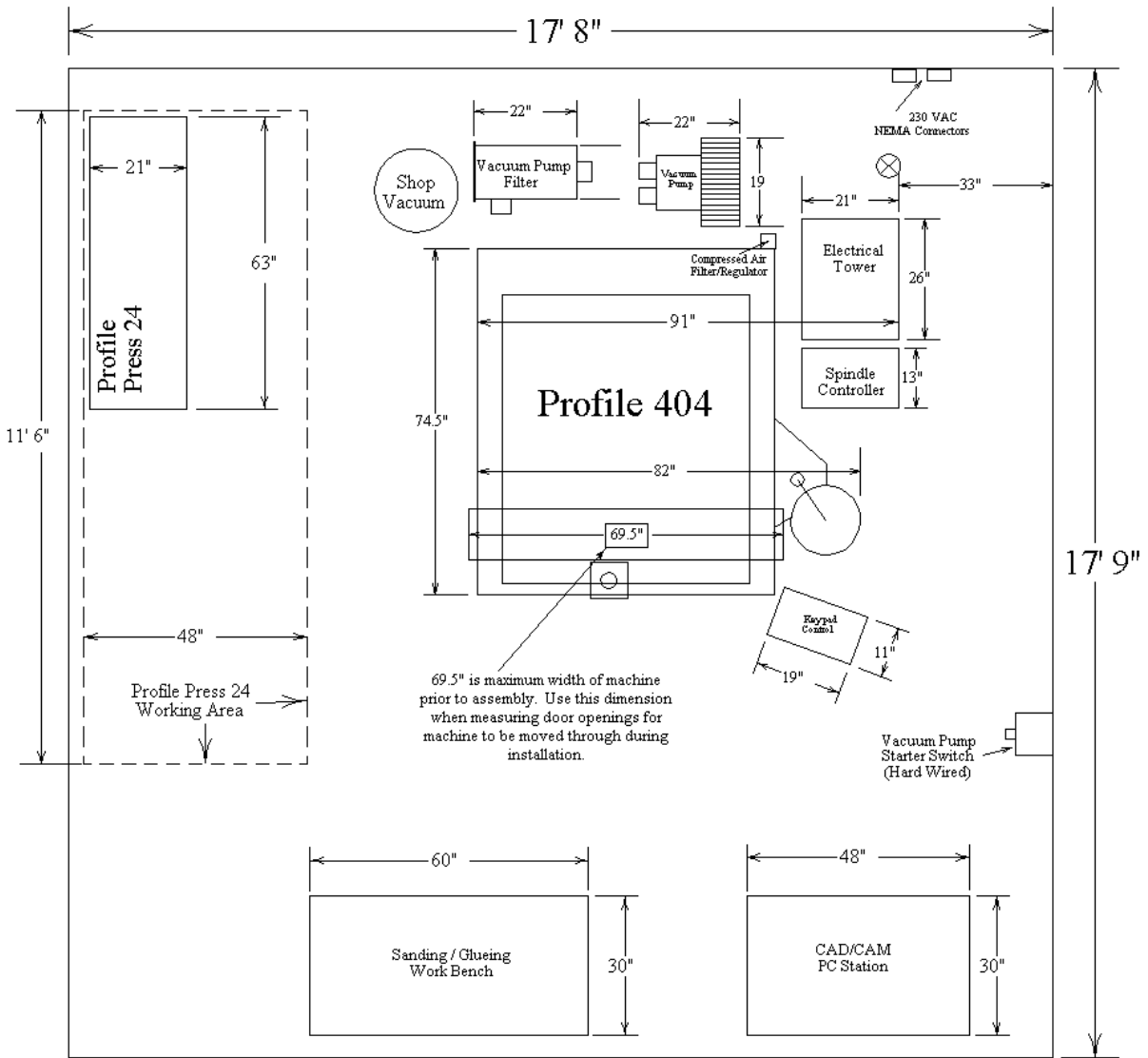
should allow an additional 3' (1 m) width to accommodate the ATC footprint on the right side of the machine.

The Profile 404 requires a work area length of 17.75' (5.4 m). This provides about 7' (2.1 m) in front of the router and 3' (.9 m) behind the Electrical Cabinet for safe access and cutting large panel jobs.

The Profile 408 requires a work area length of 21.75' (6.6 m). This provides about 7' (2.1 m) in front of the router and 3' (.9 m) behind the Spindle Controller and Electrical Cabinet for safe access and cutting large panel jobs.

Locate the power receptacles and air supply to the right rear of the Profile. Run the wires to the vacuum blower motor control panel so that it can be placed near the front of the system for easy access to the operator. You will also need space for the DieWorks computer and a sanding/ glueing table. Plan extra room for storing materials and supplies, and if you intend on doing long pull through jobs.

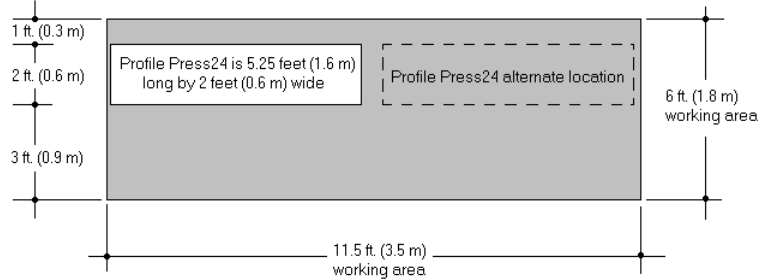




Profile Press24 space requirements

The Profile Press24 requires a work area width of 11.5 feet (3.5 m). This provides about 6.5 feet (2 m) of space to the right or the left of the Profile Press24 to accommodate loading and unloading of dieboards from the press.

The Profile Press24 requires a work area length of 6 feet (1.8 m), which provides approximately 1 foot (0.3 m) clearance behind the press and 3 feet (0.9 m) in front of the press for the operator.

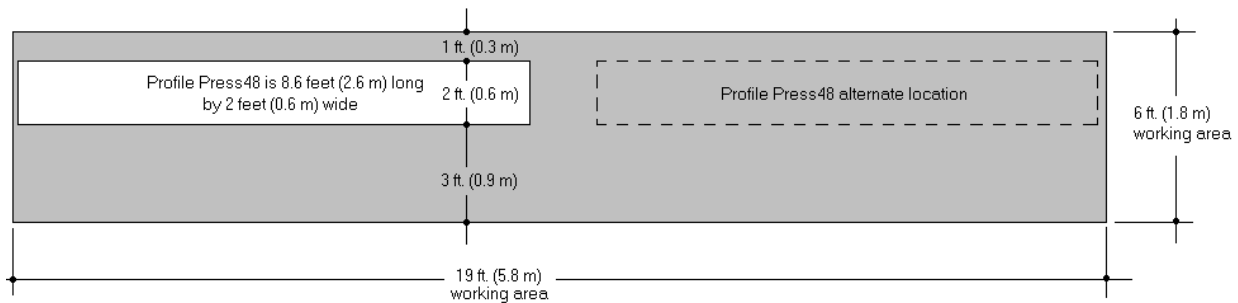


Profile Press24 working area

Profile Press48 space requirements

The Profile Press48 requires a work area width of 19 feet (5.8 m). This provides about 10 feet (3 m) of space to the right or the left of the Profile Press48 to accommodate loading and unloading of dieboards from the press.

The Profile Press48 requires a work area length of 6 feet (1.8 m), which provides approximately 1 foot (0.3 m) clearance behind the press and 3 feet (0.9 m) in front of the press for the operator.



Profile Press48 working area

Electrical Requirements

Please refer to the “Alternate configurations” section of this guide for the 7hp or 10hp spindle motor requirements.

Engaging a licensed industrial electrician

You are required to engage the service of a licensed industrial electrician to prepare your facility.

Prior to installation the electrician must:

- ◆ Install the Profile electrical receptacle and dedicated line. Check line voltage to ensure that it meets minimum requirements.
- ◆ Install the electrical receptacle and dedicated line for the optional ATC. Check line voltage to ensure that it meets minimum requirements.
- ◆ Install a standard (120V) electrical receptacle for the Profile Press.
- ◆ Run the wires from the circuit breaker to the area where the vacuum pump control panel will be located.
- ◆ Wire the vacuum pump control panel (electrician provides all supplies) to the circuit breaker.

During installation the electrician must:

- ◆ Wire the vacuum pump motor to the vacuum pump control panel (electrician provides all supplies).

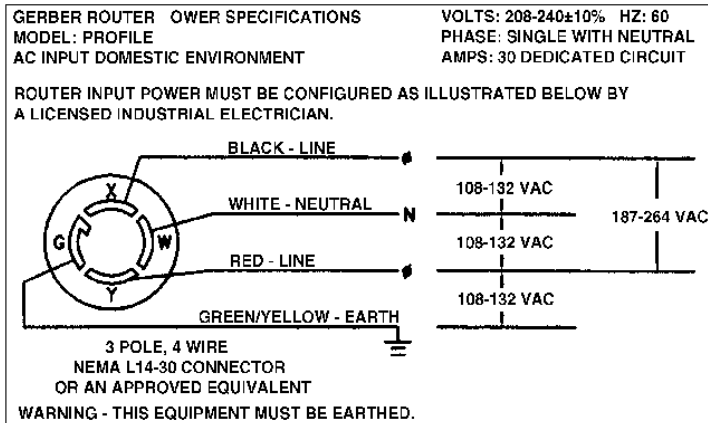
Profile

The Profile requires an input voltage of 187 – 264 VAC, single phase, 50/ 60 Hz. Determine the line voltage prior to installation. The receptacle must be near the Profile, and must be easily accessible. It must be wired by a licensed industrial electrician prior to installation. If there is no wall within six feet of the unit, a ceiling drop should be provided. The system is equipped with a 12' (3.6 m) power cord.



Note: The Profile reaches its maximum positioning rate at nominal line voltage of 230 VAC.

The electrical outlet receptacle (which you provide) must be installed prior to the installation of the Profile. **You MUST use the receptacle specified below.** DO NOT substitute another receptacle in its place. **Do not tie G and W together.**

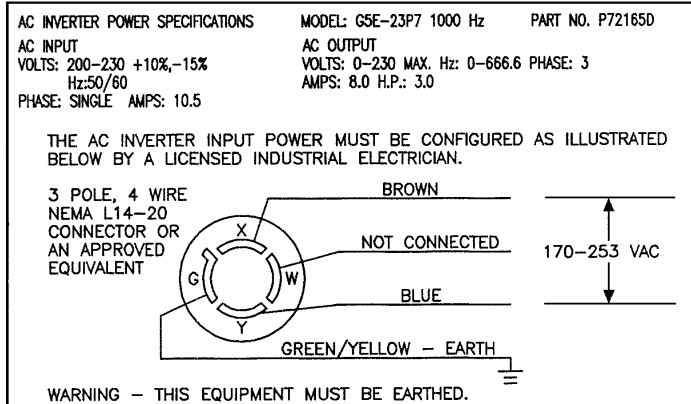


Profile domestic

ATC 3 hp spindle electrical requirements

If you purchased the ATC option with the High Frequency Spindle, it requires its own dedicated electrical circuit in addition to the circuit used by the Profile. It must be wired by a licensed industrial electrician prior to installation. The controller is equipped with an 11-foot (3.4 m) power cord to plug into the outlet receptacle.

The electrical outlet receptacle must be installed prior to the installation of the Profile. **You MUST use the specified receptacle shown below.** DO NOT substitute another receptacle in its place.



3 hp spindle single phase, 200-230 V controller used on domestic routers

Profile Press24 electrical requirements

The Profile Press24 requires 115 V AC, 60 Hz, 5.4 amps. The Profile Press24 is equipped with a 6' (1.8 m) power cord.

Profile Press48 electrical requirements

The Profile Press48 requires 120 V AC, 60 Hz, 13 Amps. The Profile Press48 is equipped with a 6' (1.8 m) power cord.

Vacuum Table Installation Requirements

This section provides pre-installation instructions for the Vacuum Table equipment. The installation technician will position the Vacuum Table equipment when he arrives. You will need to have a licensed industrial electrician make the final connections from the motor through the control panel to the circuit breaker after the equipment is in position.

Vacuum pump motor pre-installation instructions

The standard power requirements for the vacuum pump motor are:

- ◆ 10 hp, three phase, 200 - 240 V at 23 Amps



Note: When ordering the control panel, please specify your facility voltage to ensure that the control panel/ starter is equipped with the correct magnetic coil.

The optional power requirements for the vacuum pump are:

- ◆ 10hp, three phase, 400-480 V at 11.5 Amps



Note: The pumps internal wire must be reconfigured to accommodate the higher voltage.

The vacuum pump motor is supplied with a pre-wired control panel. The control panel is located in the options pallet and is labeled "Profile Starter Kit", locate this controller and provide it to your electrician. The control panel consists of an on/ off switch, a magnetic starter, and a thermal overload heater element. Wiring the control panel and vacuum pump requires a licensed industrial electrician. Have the electrician mount the control panel per facilities code so that the control panel is close to the front of the Profile system as shown in the work area space illustration. The electrician must run the wires from the circuit breaker to the control panel **before** wiring the vacuum pump motor to the control panel. The electrician must supply the wiring that connects the vacuum pump motor to the control panel.

Air Requirements

Profile and ATC air requirements

The Profile equipped with an ATC requires clean and dry compressed air of at least 105 psi (7.38 kg/ cm²) minimum at 13 CFM (0.37 cmm). The purpose of the compressed air is to:

- ◆ control the tool changer movements
- ◆ operate safety system mechanisms in the tool changer
- ◆ cool the 3 hp high frequency spindle
- ◆ operate the spindle's tool holder grab and release mechanism
- ◆ operate safety system mechanisms in the spindle
- ◆ inject air into the kerf to assist in chip removal



Note: To meet the compressed air requirements, we suggest a heavy-duty 5 hp compressor motor with a large tank (approximately 80 gallons (302.8 liters)).



CAUTION: Do not install or run the 3 hp or high frequency spindle unless you have a compressed air supply of at least 105 psi (7.38 kg/ cm²) minimum at 13 CFM (0.37 cmm). This air supply is in addition to any other air requirements that you have and should be provided on a stand-alone line. If the air pressure drops or is interrupted, the spindle will immediately shut down.

The clean and dry compressed air is critical to the safe and efficient operation of the spindle and tool changer. A 5-micron filter/ regulator is mounted on the right rear leg of the Profile to assist in maintaining air quality, but the key to reliable operation is to have a carefully controlled and maintained air source. You must install an air dryer (refrigerated or desiccant) in the air line capable of drying at least 15 CFM at 50° F dew point (0.425 cmm at 10° C). You also must have a filter in the air line to remove any oil blow-by from the compressor.



Note: Failure to install an air dryer and filter voids the warranty on Profile components that use compressed air. Components including the Profile spindle, pressure switch, ATC valve bank, ATC pneumatic cylinders, etc., that are exposed to contaminated compressed air will not be covered under warranty.

Thin Plate Metal Cutting Kit air requirements

The Thin Metal Cutting Kit requires approximately 15 CFM (.42cmm) of compressed air at 100-120 PSI (8.44 kg/ cm²), which can be provided by a 5 to 7.5 horse power compressor with a large tank with a minimum capacity of approximately 80 gallons and air chiller that can lower the ambient air temperature a minimum of 20°. **Optionally, you may use a 7.5 to 10 horsepower compressor to provide air 19 to the Profile, ATC, and Thin Plate Metal Cutting Kit. Use of the**

Thin Plate Metal Cutting Kit increases the air dryer requirements to 30 CFM @50°F (0.71cmm@10°C)

Mist Coolant Option air requirements

The Mist Coolant Option requires approximately 0.5 CFM (0.014 cmm) of compressed air at 100 - 120 psi (8.44 kg/ cm²), which can be provided by a 0.25 to 0.5 horsepower compressor.

Transportation Claims

Gerber Innovations also offers the following guidelines for handling transportation claims. Since the Profile is shipped FOB South Windsor, CT, you, the customer, are responsible for any occurrences relating to the system after it leaves our docks. The following guidelines will assist you with identifying possible damage and the procedures to follow to file a claim. Three primary transportation claims are **loss**, **visible damage**, and **concealed damage**.

Loss

A carrier's driver will have a delivery receipt itemizing the contents of the shipment. You and the driver should physically count the items as they are delivered and verify them with the delivery receipt. If the shipment is not complete, make a loss notation on **ALL** copies of the delivery receipt, which you and the driver should sign.

Clearly and concisely note the shortage on the delivery receipt and the customer copy. Describe **EXACTLY** what is missing; do not just write "one piece short."

Visible damage

When the carrier delivers your shipment, you must examine **EACH** container as it is delivered. If any container shows evidence of damage, open the package **IMMEDIATELY**. You and the driver should make the inspection together. List and describe the damage on the delivery receipt and have it co-signed by the driver. Again, describe the visible damage in as much detail as possible, not just in general terms.

Concealed damage

This is the most difficult type of claim to collect from the carrier. The burden of proof reverts to you, the customer, to prove the shipment suffered the damage or loss while in the carrier's possession. The carrier holds a clear delivery receipt with no notation describing damage or loss. The longer the shipment is in your possession, the more difficult it is to collect from the carrier. Time is of the utmost importance.

When the technician uncrates the Profile system, inspect everything for damage or loss. As soon as you discover concealed damage or loss, telephone the carrier **IMMEDIATELY** and request an inspection. Be sure to ask the name of the person you talk to, and write it down.

IMMEDIATELY confirm your telephone conversation with a letter directed to that person.

If you discover damage (as opposed to loss), stop unpacking and do nothing further to disturb the shipment. Save all packaging and leave the damaged equipment exactly where it is, if at all possible.

The carrier or its agent will make the inspection within five working days after you, the customer, report the concealed damage or loss. If the carrier does not make the inspection or waives inspection, you should make the inspection and record all information to the best of your ability. All reports of concealed loss or damage must be received by the carrier within fifteen working days.

Alternate vacuum pump electrical requirements

You may purchase an alternate vacuum pump to meet your specific needs. The power requirements for the alternate vacuum pump motors are:

- ◆ 10 hp, three phase, 400-480 V at 11.5 Amp
- ◆ 7 hp, single phase, 208-230 V at 39 – 37 Amp

Profile and DieWorks Training

A Gerber Innovations installation technician will provide training on the Profile system and DieWorks software after installation is complete. After training, you will not necessarily be an expert, but you will understand basic router and software operations, applications, tools and materials.

Training prerequisites

Gerber Innovations training assumes that the person(s) you select for training has basic computer skills including:

- ◆ familiarity with the keyboard
- ◆ mouse skills
- ◆ knowledge of Windows 7
- ◆ understanding of file management



Note: Gerber Innovations schedules approximately three days for installation and training. Training delays beyond the normally scheduled installation and training period that occur because of insufficient knowledge will incur extra charges at the current per day rate. Contact Gerber Innovations for up to date training fees.

Training materials

You must provide the materials and tools used during training. Have a sufficient amount of material on hand to allow for training on the types of tooling you will be creating.



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