

OPERATOR'S MANUAL



ROTARY WELDING POSITIONER MODEL: WP-1800F

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THANK YOU & WARRANTY

Thank you for your purchase of a machine from Baileigh Industrial. We hope that you find it productive and useful to you for a long time to come.

Inspection & Acceptance. Buyer shall inspect all Goods within ten (10) days after receipt thereof. Buyer's payment shall constitute final acceptance of the Goods and shall act as a waiver of the Buyer's rights to inspect or reject the goods unless otherwise agreed. If Buyer rejects any merchandise, Buyer must first obtain a Returned Goods Authorization ("RGA") number before returning any goods to Seller. Goods returned without a RGA will be refused. Seller will not be responsible for any freight costs, damages to goods, or any other costs or liabilities pertaining to goods returned without a RGA. Seller shall have the right to substitute a conforming tender. Buyer will be responsible for all freight costs to and from Buyer and repackaging costs, if any, if Buyer refuses to accept shipment. If Goods are returned in unsalable condition, Buyer shall be responsible for full value of the Goods. Buyer may not return any special-order Goods. Any Goods returned hereunder shall be subject to a restocking fee equal to 30% of the invoice price.

Specifications. Seller may, at its option, make changes in the designs, specifications or components of the Goods to improve the safety of such Goods, or if in Seller's judgment, such changes will be beneficial to their operation or use. Buyer may not make any changes in the specifications for the Goods unless Seller approves of such changes in writing, in which event Seller may impose additional charges to implement such changes.

Limited Warranty. Seller warrants to the original end-user that the Goods manufactured or provided by Seller under this Agreement shall be free of defects in material or workmanship for a period of twelve (12) months from the date of purchase, provided that the Goods are installed, used, and maintained in accordance with any instruction manual or technical guidelines provided by the Seller or supplied with the Goods, if applicable. The original end-user must give written notice to Seller of any suspected defect in the Goods prior to the expiration of the warranty period. The original end-user must also obtain a RGA from Seller prior to returning any Goods to Seller for warranty service under this paragraph. Seller will not accept any responsibility for Goods returned without a RGA. The original end-user shall be responsible for all costs and expenses associated with returning the Goods to Seller for warranty service. In the event of a defect, Seller, at its sole option, shall repair or replace the defective Goods or refund to the original end-user the purchase price for such defective Goods. Goods are not eligible for replacement or return after a period of 30 days from date of receipt. The foregoing warranty is Seller's sole obligation, and the original end-user's exclusive remedy, with regard to any defective Goods. This limited warranty does not apply to: (a) die sets, tooling, and saw blades; (b) periodic or routine maintenance and setup, (c) repair or replacement of the Goods due to normal wear and tear, (d) defects or damage to the Goods resulting from misuse, abuse, neglect, or accidents, (f) defects or damage to the Goods resulting from improper or unauthorized alterations, modifications, or changes; and (f) any Goods that has not been installed and/or maintained in accordance with the instruction manual or technical guidelines provided by Seller.

EXCLUSION OF OTHER WARRANTIES. THE FOREGOING LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. ANY AND ALL OTHER EXPRESS, STATUTORY OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. NO WARRANTY IS MADE WHICH EXTENDS BEYOND THAT WHICH IS EXPRESSLY CONTAINED HEREIN.

Limitation of Liability. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER OR ANY OTHER PARTY FOR ANY INCIDENTIAL, CONSEQUENTIAL OR SPECIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR DOWN TIME) ARISING FROM OR IN MANNER CONNECTED WITH THE GOODS, ANY BREACH BY SELLER OR ITS AGENTS OF THIS AGREEMENT, OR ANY OTHER CAUSE WHATSOEVER, WHETHER BASED ON CONTRACT, TORT OR ANY OTHER THEORY OF LIABILITY. BUYER'S REMEDY WITH RESPECT TO ANY CLAIM ARISING UNDER THIS AGREEMENT IS STRICTLY LIMITED TO NO MORE THAN THE AMOUNT PAID BY THE BUYER FOR THE GOODS.



Force Majuere. Seller shall not be responsible for any delay in the delivery of, or failure to deliver, Goods due to causes beyond Seller's reasonable control including, without limitation, acts of God, acts of war or terrorism, enemy actions, hostilities, strikes, labor difficulties, embargoes, non-delivery or late delivery of materials, parts and equipment or transportation delays not caused by the fault of Seller, delays caused by civil authorities, governmental regulations or orders, fire, lightening, natural disasters or any other cause beyond Seller's reasonable control. In the event of any such delay, performance will be postponed by such length of time as may be reasonably necessary to compensate for the delay.

Installation. If Buyer purchases any Goods that require installation, Buyer shall, at its expense, make all arrangements and connections necessary to install and operate the Goods. Buyer shall install the Goods in accordance with any Seller instructions and shall indemnify Seller against any and all damages, demands, suits, causes of action, claims and expenses (including actual attorneys' fees and costs) arising directly or indirectly out of Buyer's failure to properly install the Goods.

Work By Others; Safety Devices. Unless agreed to in writing by Seller, Seller has no responsibility for labor or work performed by Buyer or others, of any nature, relating to design, manufacture, fabrication, use, installation or provision of Goods. Buyer is solely responsible for furnishing, and requiring its employees and customers to use all safety devices, guards and safe operating procedures required by law and/or as set forth in manuals and instruction sheets furnished by Seller. Buyer is responsible for consulting all operator's manuals, ANSI or comparable safety standards, OSHA regulations and other sources of safety standards and regulations applicable to the use and operation of the Goods.

Remedies. Each of the rights and remedies of Seller under this Agreement is cumulative and in addition to any other or further remedies provided under this Agreement or at law or equity.

Attorney's Fees. In the event legal action is necessary to recover monies due from Buyer or to enforce any provision of this Agreement, Buyer shall be liable to Seller for all costs and expenses associated therewith, including Seller's actual attorneys' fees and costs.

Governing Law/Venue. This Agreement shall be construed and governed under the laws of the State of Wisconsin, without application of conflict of law principles. Each party agrees that all actions or proceedings arising out of or in connection with this Agreement shall be commenced, tried, and litigated only in the state courts sitting in Manitowoc County, Wisconsin or the U.S. Federal Court for the Eastern District of Wisconsin. Each party waives any right it may have to assert the doctrine of "forum non conveniens" or to object to venue to the extent that any proceeding is brought in accordance with this section. Each party consents to and waives any objection to the exercise of personal jurisdiction over it by courts described in this section. Each party waives to the fullest extent permitted by applicable law the right to a trial by jury.

Summary of Return Policy.

- 10 Day acceptance period from date of delivery. Damage claims and order discrepancies will not be accepted after this time.
- You must obtain a Baileigh issued RGA number PRIOR to returning any materials.
- Returned materials must be received at Baileigh in new condition and in original packaging.
- Altered items are not eligible for return.
- Buyer is responsible for all shipping charges.
- A 30% re-stocking fee applies to all returns.

Baileigh Industrial makes every effort to ensure that our posted specifications, images, pricing and product availability are as correct and timely as possible. We apologize for any discrepancies that may occur. Baileigh Industrial reserves the right to make any and all changes deemed necessary in the course of business including but not limited to pricing, product specifications, quantities, and product availability.

For Customer Service & Technical Support:

Please contact one of our knowledgeable Sales and Service team members at: (920) 684-4990 or e-mail us at sales@baileigh.com



INTRODUCTION

The quality and reliability of the components assembled on a Baileigh Industrial machine guarantee near perfect functioning, free from problems, even under the most demanding working conditions. However, if a situation arises, refer to the manual first. If a solution cannot be found, contact the distributor where you purchased our product. Make sure you have the serial number and production year of the machine (stamped on the nameplate). For replacement parts refer to the assembly numbers on the parts list drawings.

Our technical staff will do their best to help you get your machine back in working order.

In this manual you will find: (when applicable)

- Safety procedures
- Correct installation guidelines
- Description of the functional parts of the machine
- Capacity charts
- Set-up and start-up instructions
- Machine operation
- Scheduled maintenance
- Parts lists

GENERAL NOTES

After receiving your equipment remove the protective container. Do a complete visual inspection, and if damage is noted, **photograph it for insurance claims** and contact your carrier at once, requesting inspection. Also contact Baileigh Industrial and inform them of the unexpected occurrence. Temporarily suspend installation.

Take necessary precautions while loading / unloading or moving the machine to avoid any injuries.

Your machine is designed and manufactured to work smoothly and efficiently. Following proper maintenance instructions will help ensure this. Try and use original spare parts, whenever possible, and most importantly; **DO NOT** overload the machine or make any modifications.



Note: This symbol refers to useful information throughout the manual.





IMPORTANT PLEASE READ THIS OPERATORS MANUAL CAREFULLY

It contains important safety information, instructions, and necessary operating procedures. The continual observance of these procedures will help increase your production and extend the life of the equipment.

SAFETY INSTRUCTIONS

LEARN TO RECOGNIZE SAFETY INFORMATION

This is the safety alert symbol. When you see this symbol on your machine or in this manual, **BE ALERT TO THE POTENTIAL FOR PERSONAL INJURY!**



Follow recommended precautions and safe operating practices.

UNDERSTAND SIGNAL WORDS

A signal word – **DANGER**, **WARNING**, or **CAUTION** – is used with the safety alert symbol. **NOTICE**, which is not related to personal injury, is used without a symbol.

DANGER: Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION: Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE: Indicates a situation which, if not avoided, could result in property damage.







NOTICE



SAVE THESE INSTRUCTIONS. Refer to them often and use them to instruct others.



PROTECT EYES

Wear safety glasses or suitable eye protection when working on or around machinery.





PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear suitable hearing protective devices such as ear muffs or earplugs to protect against objectionable or uncomfortable loud noises.





BEWARE OF PINCH POINT

Keep hands and fingers clear of any gears or mechanisms.





PROTECT SKIN

Keep hands and body protected from the welding arc and hot sparks. The heat from the welding arc is very intense and can pierce the skin resulting in serious burns. Always wear gloves and suitable clothing. **DO NOT** touch hot piece part without gloves.





FUMES AND GASES

The welding process produces fumes and gases that can be hazardous to your health. If the area is not properly ventilated to remove them, use an air supplied respirator.







ELECTRICAL SHOCK CAN KILL

The welding process uses and produces high voltages that can **severely injure or kill**. Disconnect power source before performing service or repairs. Insulate yourself from the piece part or other components in the weld circuit.





ELECTRICAL AND MAGNETIC FIELDS

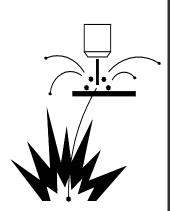
Certain welding processes create electric and magnetic fields (EMF). These magnetic fields can have an effect on pacemakers and other sensitive electronic equipment. If you wear a pacemaker or similar device contact your doctor before operating this type of equipment. Prolonged exposure to EMF may have other health effects which are not yet known.





CUTTING SPARKS

A spark or piece of hot metal can fly out of the arc while welding. Remove all flammable materials from the welding area. Wear approved eye protection, and proper hand and body protection.





HIGH VOLTAGE

USE CAUTION IN HIGH VOLTAGE AREAS. DO NOT assume the power to be off.

FOLLOW PROPER LOCKOUT PROCEDURES.





SAFETY PRECAUTIONS



Metal working can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result.

Safety equipment such as guards, hold-downs, safety glasses, dust masks and hearing protection can reduce your potential for injury. But even the best guard won't make up for poor judgment, carelessness or inattention. **Always use common sense** and exercise **caution** in the workshop. If a procedure feels dangerous, don't try it.

REMEMBER: Your personal safety is your responsibility.



WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY

Dear Valued Customer:

- All Baileigh machines should be used only for their intended use.
- Baileigh does not recommend or endorse making any modifications or alterations to a
 Baileigh machine. Modifications or alterations to a machine may pose a substantial risk of
 injury to the operator or others and may do substantial damage to the machine.
- Any modifications or alterations to a Baileigh machine will invalidate the machine's warranty.

PLEASE ENJOY YOUR BAILEIGH MACHINE!PLEASE ENJOY IT SAFELY!

- 1. FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE MACHINE. Learn the machine's application and limitations as well as the specific hazards.
- 2. Only trained and qualified personnel can operate this machine.
- 3. Make sure guards are in place and in proper working order before operating machinery.
- 4. **Remove any adjusting tools.** Before operating the machine, make sure any adjusting tools have been removed.
- 5. **Keep work area clean.** Cluttered areas invite injuries.
- 6. **Overloading machine.** By overloading the machine you may cause injury from flying parts. **DO NOT** exceed the specified machine capacities.



- 7. **Dressing material edges.** Always chamfer and deburr all sharp edges.
- 8. **Do not force tool.** Your machine will do a better and safer job if used as intended. **DO NOT** use inappropriate attachments in an attempt to exceed the machines rated capacity.
- Use the right tool for the job. DO NOT attempt to force a small tool or attachment to do the
 work of a large industrial tool. DO NOT use a tool for a purpose for which it was not
 intended.
- 10. **Dress appropriate. DO NOT** wear loose fitting clothing or jewelry as they can be caught in moving machine parts. Protective clothing and steel toe shoes are recommended when using machinery. Wear a restrictive hair covering to contain long hair.
- 11. **Use eye and ear protection**. Always wear ISO approved impact safety goggles. Wear a full-face shield if you are producing metal filings.
- 12. **Do not overreach**. Maintain proper footing and balance at all times. **DO NOT** reach over or across a running machine.
- 13. **Stay alert**. Watch what you are doing and use common sense. **DO NOT** operate any tool or machine when you are tired.
- 14. Check for damaged parts. Before using any tool or machine, carefully check any part that appears damaged. Check for alignment and binding of moving parts that may affect proper machine operation.
- 15. Observe work area conditions. DO NOT use machines or power tools in damp or wet locations. Do not expose to rain. Keep work area well lighted. DO NOT use electrically powered tools in the presence of flammable gases or liquids.
- 16. **Keep children away**. Children must never be allowed in the work area. **DO NOT** let them handle machines, tools, or extension cords.
- 17. **Store idle equipment**. When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep them out of reach of children.
- 18. **DO NOT operate machine if under the influence of alcohol or drugs**. Read warning labels on prescriptions. If there is any doubt, **DO NOT** operate the machine.
- 19. Sparks and hot material from cutting can easily go through small cracks and openings into adjacent areas.
- 20. Do not cut where the atmosphere might contain flammable dust, gas, or liquid vapors such as from gasoline.
- 21. Wear oil-free protective garments such as leather gloves, heavy shirt, high shoes or boots, cuffless trousers, and a cap.
- 22. Watch for fire and keep a fire extinguisher close by.
- 23. DO NOT touch live electrical components or parts.
- 24. Turn off power before checking, cleaning, or replacing any torch parts.



- 25. Be sure all equipment is properly installed and grounded according to national, state, and local codes.
- 26. Keep all cords dry, free from grease and oil, and protected from sparks and hot metal.
- 27. Inspect power and control cables periodically. Replace if damaged or bare wires are exposed. **Bare wiring can kill!**
- 28. Keep visitors a safe distance from the work area.

TECHNICAL SPECIFICATIONS

Speed	0 - 6 rpm (Variable)
Thru Hole (Material OD)	2.25" (57.15mm)
Chuck Capacity	1/4"OD - 12"ID (6.35OD – 305ID mm)
Chuck Size Three Jaw	8" (203mm)
Maximum Current	300 Amps
Weight Capacity - Vertical	250lbs (113kg)
Weight Capacity – Horizontal	200lbs (91kg) 6"from Chuck
Weight Capacity - Angled	150lbs (68kg) 6"from Chuck
Drive	Automatic / Manual
Power	110V, 60hz, 15A
Motor	220V, 1/8Hp (90W)
Shipping Weight	400lbs. (181kg)
Shipping Dimensions	60" x 44" x 68" (1524 x 1118 x 1727mm)

TECHNICAL SUPPORT

Our technical support department can be reached at 920.684.4990, and asking for the support desk for purchased machines. Tech Support handles questions on machine setup, schematics, warranty issues, and individual parts needs: (other than die sets and blades).

For specific application needs or future machine purchases contact the Sales Department at: sales@baileigh.com, Phone: 920.684.4990, or Fax: 920.684.3944.

Note: The photos and illustrations used in this manual are representative only and may not depict the actual color, labeling or accessories and may be intended to illustrate technique only.

Note: The specifications and dimensions presented here are subject to change without prior notice due to improvements of our products.



UNPACKING AND CHECKING CONTENTS

Your Baileigh machine is shipped complete. Separate all parts from the packing material and check each item carefully. Make certain all items are accounted for before discarding any packing material.

WARNING: SUFFOCATION HAZARD! Immediately discard any plastic bags and packing materials to eliminate choking and suffocation hazards to children and animals.

If any parts are missing, DO NOT place the machine into service until the missing parts are obtained and installed correctly.

Cleaning

WARNING: DO NOT USE gasoline or other petroleum products to clean the machine. They have low flash points and can explode or cause fire.

CAUTION: When using cleaning solvents work in a well-ventilated area. Many cleaning solvents are toxic if inhaled.

Your machine may be shipped with a rustproof waxy coating and/or grease on the exposed unpainted metal surfaces. Fully and completely remove this protective coating using a degreaser or solvent cleaner. Moving items will need to be moved along their travel path to allow for cleaning the entire surface. For a more thorough cleaning, some parts will occasionally have to be removed. **DO NOT USE** acetone or brake cleaner as they may damage painted surfaces.

Follow manufacturer's label instructions when using any type of cleaning product. After cleaning, wipe unpainted metal surfaces with a light coating of quality oil or grease for protection.

Important: This waxy coating is **NOT** a lubricant and will cause the machine to stick and lose performance as the coating continues to dry.







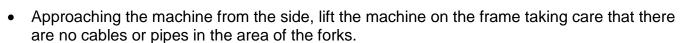


TRANSPORTING AND LIFTING

IMPORTANT: Lifting and carrying operations should be carried out by skilled workers, such as a truck operator, crane operator, etc. If a crane is used to lift the machine, attach the lifting chain carefully, making sure the machine is well balanced.

Follow these guidelines when lifting with truck or trolley:

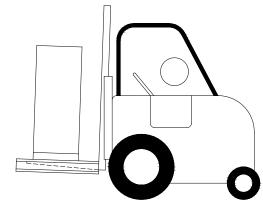
- The lift truck must be able to lift at least 1.5 − 2 times the machines gross weight.
- Make sure the machine is balanced. While transporting, avoid rough or jerky motion, and maintain a safe clearance zone around the transport area.
- Use a fork lift with sufficient lifting capacity and forks that are long enough to reach the complete width of the machine.
- Remove the securing bolts that attach the machine to the pallet.



- Move the machine to the required position and lower gently to the floor.
- Level the machine so that all the supporting feet are taking the weight of the machine and no rocking is taking place.

Follow these guidelines when lifting crane or hoist:

- Always lift and carry the machine with the lifting holes provided at the top of the machine.
- Use lift equipment such as straps, chains, capable of lifting 1.5 to 2 times the weight of the machine.
- Take proper precautions for handling and lifting.
- Check if the load is properly balanced by lifting it an inch or two.
- Lift the machine, avoiding sudden accelerations or quick changes of direction.
- Locate the machine where it is to be installed, and lower slowly until it touches the floor.





INSTALLATION

IMPORTANT:

Consider the following when looking for a suitable location to place the machine:

- · Overall weight of the machine.
- Weight of material being processed.
- Sizes of material to be processed through the machine.
- Space needed for auxiliary stands, work tables, or other machinery.
- Clearance from walls and other obstacles.
- Maintain an adequate working area around the machine for safety.
- Have the work area well illuminated with proper lighting.
- Keep the floor free of oil and make sure it is not slippery.
- Remove scrap and waste materials regularly, and make sure the work area is free from obstructing objects.
- If long lengths of material are to be fed into the machine, make sure that they will not extend into any aisles.
- **LEVELING:** The machine should be sited on a level, concrete floor. Provisions for securing it should be in position prior to placing the machine. The accuracy of any machine depends on the precise placement of it to the mounting surface.
- **FLOOR:** This tool distributes a large amount of weight over a small area. Make certain that the floor is capable of supporting the weight of the machine, work stock, and the operator. The floor should also be a level surface. If the unit wobbles or rocks once in place, be sure to eliminate by using shims.
- WORKING CLEARANCES: Take into consideration the size of the material to be processed. Make sure that you allow enough space for you to operate the machine freely.
- **POWER SUPPLY PLACEMENT:** The power supply should be located close enough to the machine so that the power cord is not in an area where it would cause a tripping hazard. Be sure to observe all electrical codes if installing new circuits and/or outlets.



GENERAL DESCRIPTION

- You have made a practical choice in purchasing the WP-1800F Welding Positioner. It has been carefully built of high quality materials and designed to give many years of efficient service. The simplicity of design and minimum effort required to operate the machine contributes towards meeting schedules and producing greater profits.
- The WP-1800F Welding Positioner is a ruggedly designed machine with many features standard. It can be easily rotated from horizontal to vertical by a simple handwheel adjustment.
- Control of the chuck is accomplished by use of a rugged DC gear motor with a specially designed DC control. The control has a forward / reverse selection, max speed setting, locking brake, and a variable foot control.
- The electronics and motor are fully isolated for maximum protection from noise or shorts.
 Current is carried from a large copper brush and transferred to the ground stud via braided cable.
- The chuck assembly utilizes a large thru hole for longer horizontal jobs and the cabinet has a
 hole in the top for longer vertical work. The chuck is fully reversible for inside or outside
 chucking.

ASSEMBLY AND SET UP

WARNING: For your own safety, DO NOT connect the machine to the power source until the machine is completely assembled and you read and understand the entire instruction manual.

- 1. Remove the machine from the skid it was shipped on and install the casters and wheels.
- 2. Read through the remainder of the manual and become familiar with normal operation.
- 3. Position the machine as desired following the installation guidelines.
- 4. Follow the electrical guidelines to connect the machine to a power supply.



ELECTRICAL

CAUTION: HAVE ELECTRICAL UTILITIES CONNECTED TO MACHINE BY A CERTIFIED ELECTRICIAN!

Check if the available power supply is the same as listed on the machine nameplate.

WARNING: Make sure the grounding wire (green) is properly connected to avoid electric shock. DO NOT switch the position of the green grounding wire if any electrical plug wires are switched during hookup.

Power Specifications

Your tool is wired for 115 volts, 60Hz alternating current. Before connecting the tool to the power source, make sure the machine is cut off from power source.

Before switching on the power, you must check the voltage and frequency of the power to see if they meet with the requirement, the allowed range for the voltage is ±5%, and for the frequency is ±1%.

Considerations

- Observe local electrical codes when connecting the machine.
- The circuit should be protected with a time delay fuse or circuit breaker with a amperage rating slightly higher than the full load current of machine.
- A separate electrical circuit should be used for your tools. Before connecting the motor to the
 power line, make sure the switch is in the "OFF" position and be sure that the electric current
 is of the same characteristics as indicated on the tool.
- All line connections should make good contact. Running on low voltage will damage the motor.
- In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING: In all cases, make certain the receptacle in question is properly grounded. If you are not sure, have a qualified electrician check the receptacle.



- Improper connection of the equipment-grounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
- Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
- Repair or replace damaged or worn cord immediately.

Extension Cord Safety

Extension cord should be in good condition and meet the minimum wire gauge requirements listed below:

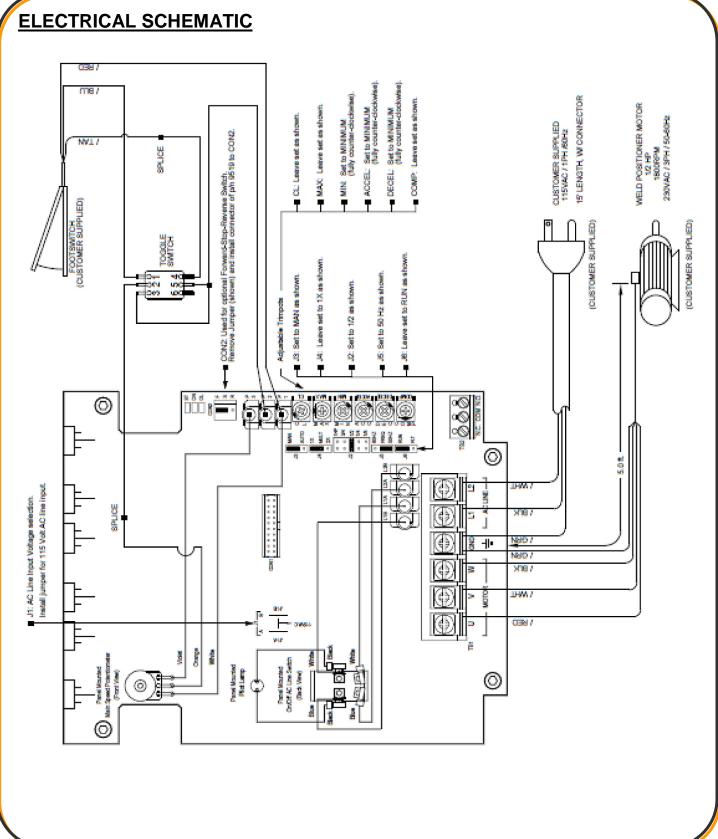
	LENGTH		
AMP RATING	25ft	50ft	100ft
1-12	16	16	14
13-16	14	12	12
17-20	12	12	10
21-30	10	10	No
	WIRE GAUGE		

An undersized cord decreases line voltage, causing loss of power and overheating. All cords should use a ground wire and plug pin. Replace any damaged cords immediately.

Power cord connection:

- 1. Turn the main disconnect switch on the control panel to the OFF position.
- 2. Unwrap the power cord and route the cord away from the machine toward the power supply.
 - a. Route the power cord so that it will NOT become entangled in the machine in any way.
 - b. Route the cord to the power supply is a way that does NOT create a trip hazard.
- 3. Connect the power cord to the power supply and check that the power cord has not been damaged during installation.
- 4. When the chuck and pivot area is clear of any obstruction, electrical power may be turn ON to test the operation. Unplug from power or turn the main disconnect to OFF when the machine is not in operation.







OPERATION

CAUTION: Always wear proper eye protection with side shields, safety footwear, and leather gloves to protect from burrs and sharp edges.

When handling large heavy material, make sure they are properly supported.

Machine Start-up

Operation of this machine is very straight forward. Follow the next steps to become familiar with the machine.

- 1. Plug in the machine to a properly grounded 115V outlet.
- 2. Select the Forward or Reverse operation (A).
- 3. Select which control you would like to use "Foot Control" or "Panel Control" (B).
 - a. If you select "Panel Control" the chuck will begin to rotate in the direction chosen and the speed the "Speed Pot" (C) is set at and the foot control will be de-activated.
 - b. If you select "Foot Control" the foot pedal will start and stop the chuck rotation and control the speed up to the speed in which the "Speed Pot" on the control panel is set to.
- 4. When the chuck and any material installed into/onto the chuck is clear of any persons or objects, Turn the power switch (D) to ON.
 - a. If Panel Control is selected, the chuck will rotate at the selected speed.
 - b. If Foot Control is selected, the chuck will not rotate until the foot pedal is depressed.



It is best to practice welding on a piece to set the optimum chuck speed.

Clamp the material into/onto the chuck tight enough to hold the material so that it will not spin or slip or be deformed.



General Welding Use

- 1. Before attempting any welding, it is very important to connect the welder's ground clamp to the 1-1/2" (38mm) diameter aluminum ground clamping stud. Failure to connect the ground could cause control failure.
- 2. Insert material into the chuck and set your welder.
- 3. Strike an arc and begin depressing the foot pedal speed up or slow down depending on your puddle / weld results.
- 4. It is sometimes easier to set the max speed of the weld / chuck to be full compression of the foot pedal. This requires less coordination.
- 5. The above septs are merely suggested ways to dial in the machine. Every welder will have their own method of welding and the WP-1800F will be able to be configured to meet their style of welding.



Aluminum Ground Stud

Copper conducting rod



Chuck in Horizontal Position

Chuck in Vertical position



LUBRICATION AND MAINTENANCE

WARNING: Make sure the electrical disconnect is <u>OFF</u> before working on the machine.

Maintenance should be performed on a regular basis by qualified personnel.

Always follow proper safety precautions when working on or around any machinery.

- Check daily for any unsafe conditions and fix immediately.
- Check that all nuts and bolts are properly tightened.
- On a weekly basis clean the machine and the area around it.
- Lubricate threaded components and sliding devices.
- Apply rust inhibitive lubricant to all non-painted surfaces.
- The only grease zerks on the machine feed the bearings.



Note: Proper maintenance can increase the life expectancy of your machine.

Oil Disposal

Used oil products must be disposed of in a proper manner following your local regulations.

Storing Machine for Extended Period of Time

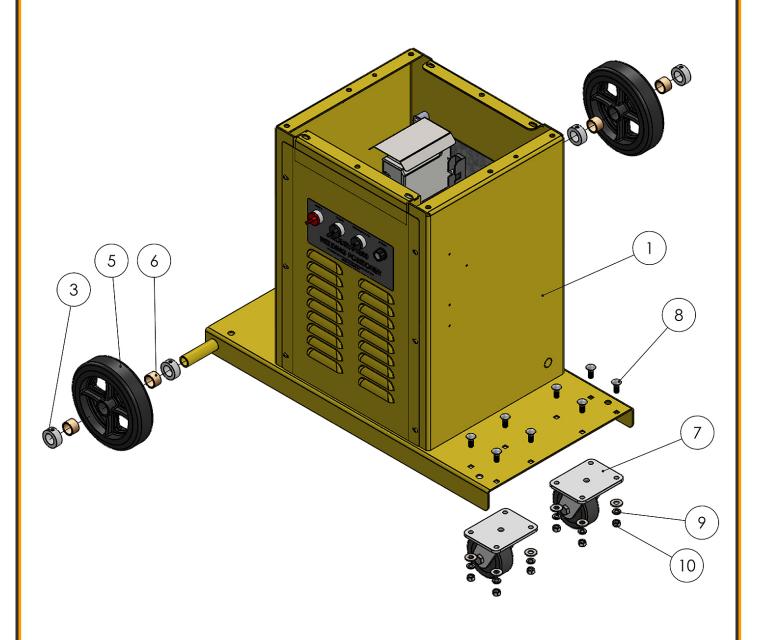
If the Vertical Milling Machine is to be inactive for a long period of time, prepare the machine as follows:

- Disconnect the electrical supply from the power panel.
- Empty and clean the coolant reservoir.
- Clean and grease the machine.
- Cover the machine.

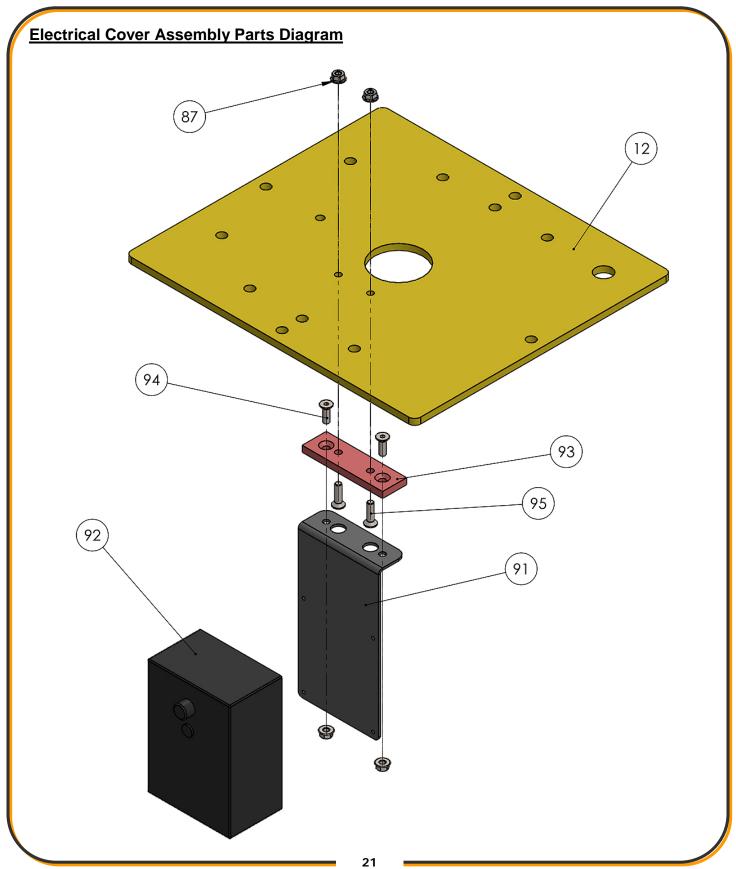


PARTS DIAGRAM

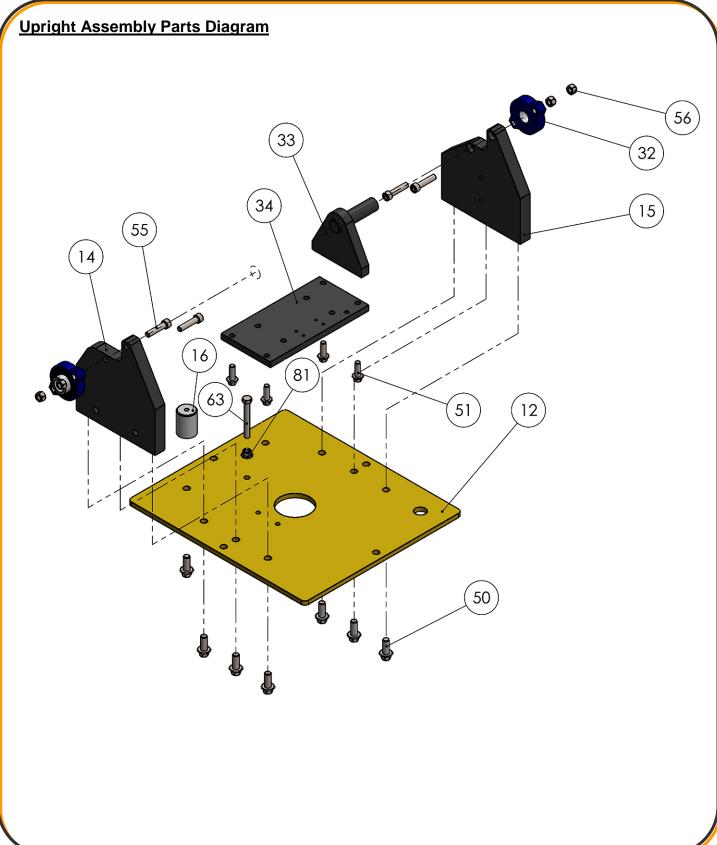
Cart Assembly Parts Diagram



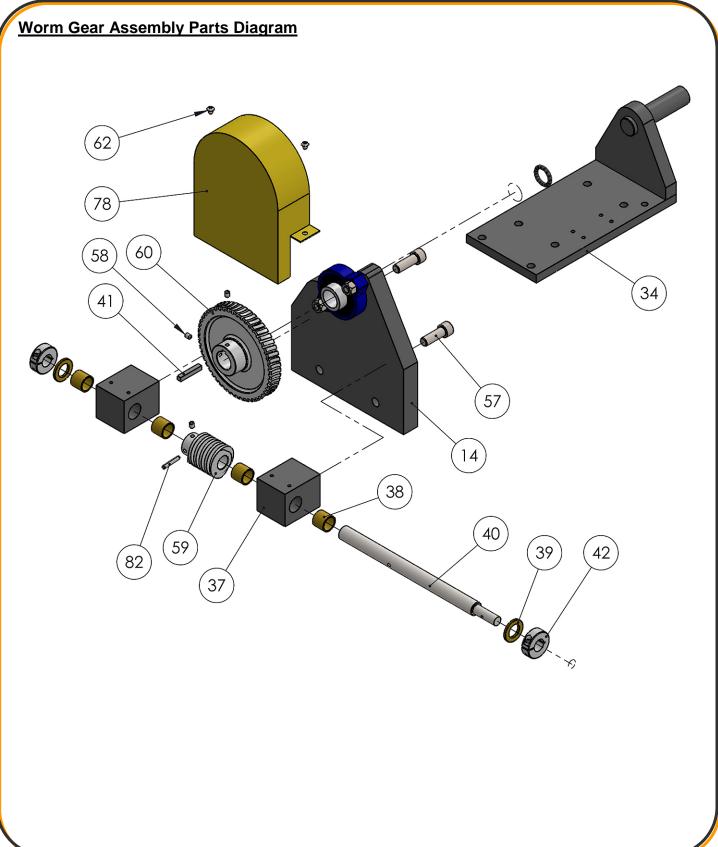




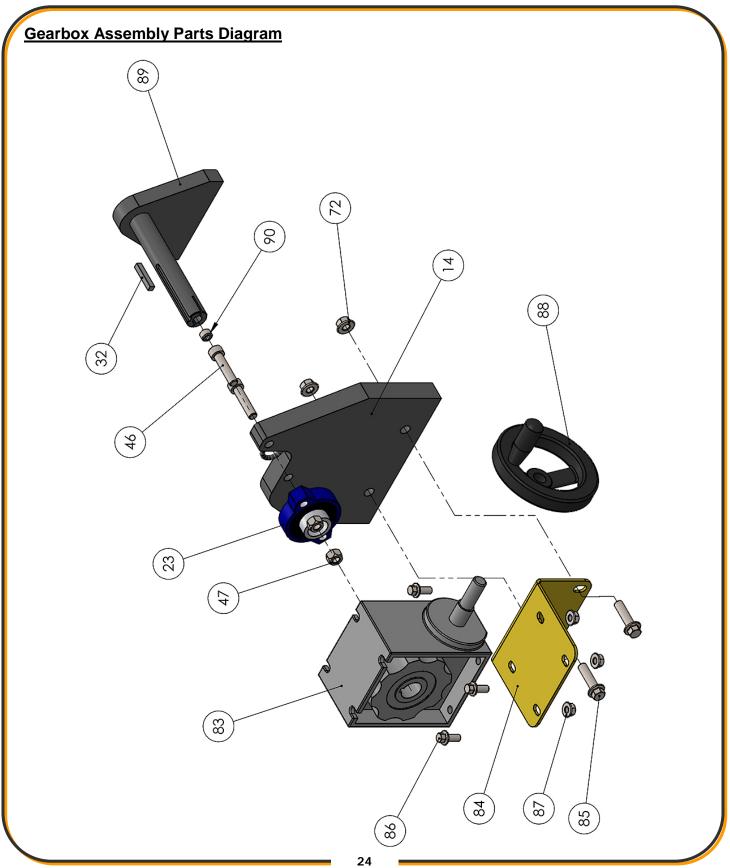




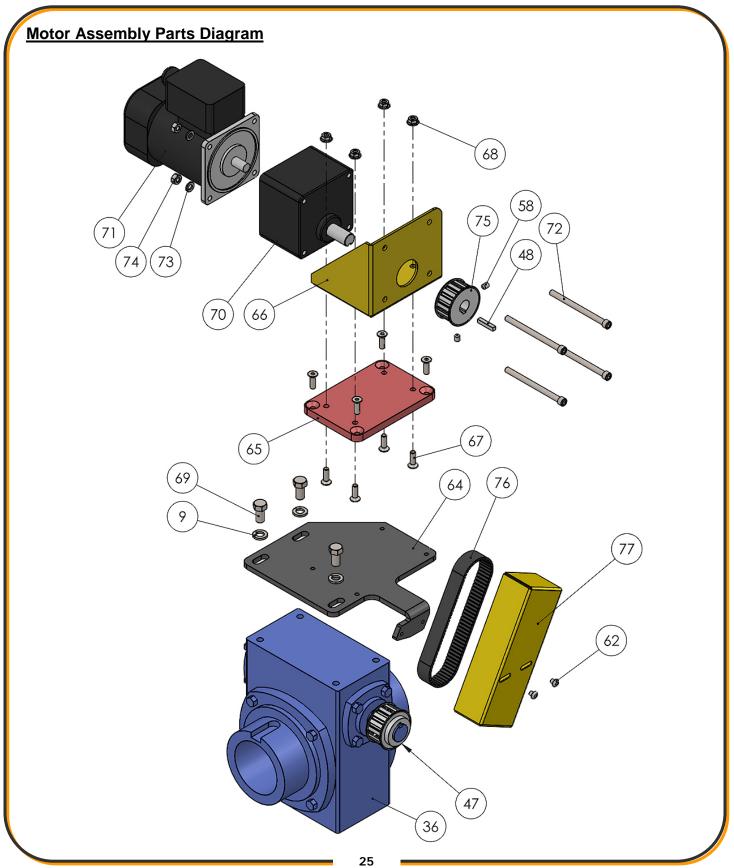














Parts List

Item	Part Number	Description	Qty.
1	M150-5A014	UPRIGHT, BASE	1
2	M150-6A034	BASE, M150 ROLLER	1
3	PP-0035	1" SET SCREW COLLAR	4
4	M150-5A007-PIPE	AXLE SHAFT	1
5	PP-0064	8" RUBBER WHEEL	2
6	PP-0043	1.0 ID X 1.1875 OD X 0.75 LG BUSHING	4
7	PP-0048	4.0 INCH CASTER	2
8	STD.	3/8-16 X 1 CARRIAGE BOLT	8
9	STD.	.375 LOCK WASHER	11
10	STD.	3/8"-16 HEX NUT	8
11	STD	3/8" FLAT WASHER	8
12	ME-WP-6A007	BASE PLATE	1
13	M150-6A035	CROSS BAR	1
14	ME-WP-6A019-V2	BEARING UPRIGHT (L.H.)	1
15	ME-WP-6A020	BEARING UPRIGHT (R.H.)	1
16	ME-WP-7A004	GROUND STUD	1
17	N/A	ELECTRICAL PANEL ASSEMBLY	1
18	ME-WP-7A003	ISOLATION SPACER	4
19	WP-6A031	DRIVE SHROUD	1
20	PP-1401	RED LIGHT UP SWITCH	1
21	WP-6A021	CONTROL PANEL	1
22	WP-6A022	DECAL	1
23	PP-0505	1.0" BEARING	2
24	ME-WP1800-5A007	UPRIGHT ASSEMBLY (RIGHT)	1
25	ME-WP-6A017	GEAR BOX PLATE	1
26	WP-6A012	BRUSH MOUNT	2
27	PP-0452	GEARBOX	1
28	ME-WP-6A006	BEARING BLOCK	2
29	PP-0053	0.75 ID X 0.875 OD X 0.75 WIDE	4
30	PP-0322	0.75 ID X 1.25 OD X .125 THK	
31	WP-7A005	WORM SHAFT	1
32	STD.	.25 X .25 X 1.50 KEY	1
33	PP-0781	3/4-16 THREADED CLAMP COLLAR	2



Item	Part Number	Description	Qty.
34	ME-WP-7A002	CONTACT BRUSH	1
35	WP-7A008	RETAINING WASHER	2
36	PP-0058-WP	SPRING	1
37	PP-0207	3-JAW CHUCK	1
38	ME-WP-7A009	GEARBOX PULLEY	1
39	STD.	.1875 X 1 KEYSTOCK	2
40	M6 FLATWASHER	STD.	4
41	M12 X 1.75 X 30	HEX FLANGE	11
42	M10 X 1.5 X 30	HEX FLANGE	4
43	M6 X 1.0 X 10	BUTTON HEAD	4
44	SHCS	M6 X 1.0 X 10	8
45	3/8-16 X 1.0	SHCS	4
46	M10 X 1.5 X 45	SHCS	4
47	M10 X 1.5	NYLON LOCK NUT	4
48	M12 X 1.75 X 35	SHCS	2
49	M6 X 1.0 X 8	SET SCREW	7
50	ME-WP-6A033	WORM GEAR	1
51	ME-WP-6A032	PIVOT GEAR	1
52	M12 X 1.75	FLANGE NUT	4
53	M5 X 0.8 X 6	BUTTON HEAD	10
54	STD	M10 X 1.5 X 80	2
55	ME-WP-6A015	MOTOR MTG PLATE	1
56	ME-WP-6A030	ISOLATION PLATE	1
57	WP-6A026	MOTOR MTG BRKT (AC MOTOR)	1
58	M6 X 1.0 X 20	FHCS	8
59	M6 X 1.0	FLANGED NUT	4
60	.375-16 X .75	HHCS	3
61	PP-1400	ORIENTAL MOTOR GEARBOX	1
62	PP-1399	90W 3 PHASE ORIENTAL MOTOR	1
63	.25-20 X 3.50	SHCS	4
64	STD	.25 LOCK WASHER	4
65	.25-20	HEX NUT	4
66	ME-WP-7A017	PINION PULLEY	1
67	PP-0509	BELT	1
68	ME-WP-6A038	PULLEY COVER	1



Item	Part Number	Description	Qty.
69	WP-6A009	GEAR GUARD	1
70	PP-0510	GROUND STRAP	1
71	M10 X 1.5 X 20	HEX FLANGE	2
72	M10 X 1.5	FLANGE NUT	4
73	3/16 X 1.125	SLOTTED SPRING PIN	1
74	3/16 X 1.5	SLOTTED SPRING PIN	1
75	ME-IDX-7A013	CHUCK MTG. DISK (3 JAW)	1
76	ME-IDX-6A032	DISC CLAMP TOP	1
77	ME-IDX-6A031	CLAMP DISC BOTTOM	1
78	M12 X 1.75 X 45	SHCS	2
79	M10 X 1.5 X 30	SHCS	3
80	WP-7A014	PLEATE SPACER	3
81	WP-7A013	CONTACT DISC	1
82	M6 X 1.0 X 30	SHCS	3
83	PP-1592	GEARBOX	1
84	ME-WP-6A034	GEARBOX PLATE	1
85	M10 X 1.5 X 40	HEX FLANGE	2
86	M8 X 1.25 X 20	HEX FLANGE	4
87	M8 X 1.25	FLANGE NUT	8
88	PP-0170 .625 BORE	5.0 HANDWHEEL	1
89	ME-WP-5A008	UPRIGHT WELDMENT (LH)	1
91	ME-WP-6A035	CONTROLLER BRACKET	1
92	PP-1720	KBMA CONTROLLER	1
93	ME-WP-6A036	CONTROL BOX ISOLATION PLATE	1
94	M8 X 1.25 X 25	FHCS	2
95	M8 X 1.25 X 30	FHCS	2



NOTES



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