

HANDLER



26E RED WING LATHE

OPERATING MANUAL

**IMPORTANT INSTRUCTIONS
DO NOT DISCARD**



HANDLER 
MANUFACTURING CO., INC.

OVER EIGHTY YEARS OF QUALITY MANUFACTURING AND SERVICE...

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017-26E

RED WING MOTOR

Thank you for purchasing a Red Wing Motor. Your Red Wing has been inspected prior to being shipped. Open the package and inspect its contents. Should damage have occurred in transit, contact the freight forwarder immediately. Do not contact Handler as the receiver of a product must file a claim for damage within 14 days. Failure to file a claim in a timely manner could result in the loss of your rights of recovery. Should you require assistance, please contact Handler Manufacturing at: 1-908-233-7796 or 1-800-274-2635

INSTRUCTIONS:

Remove the lathe from the carton and place it in a suitable location on a sturdy horizontal surface. The unit must be bolted to the table top. Bolting the unit securely to a solid table top will prevent possible lathe movement during operation and possible operator injury.

Plug the lathe's cordset into a grounded 220 Volt/50 Hz electrical socket only. Do not utilize a an adaptor. Failure to plug the lathe into a properly grounded receptacle may result in operator injury. Your lathe is now ready for operation with the aid of chucks placed on the shaft (see page 2).

The No. 26E lathe is constructed to function on two speeds. Low speed is 1425 RPM and high speed is 2850 RPM. The lathe shaft is provided with special dental tapered shafts which will accept chucks which fit onto a tapered shaft only. The models 27E, 29E, & 29E are built to function at 2850 RPM. NOTE: If you have specified that your lathe should contain 1/2" straight shafts, only chucks which contain a 1/2" arbor hole will adapt to these shafts.

The polishing motor with a tapered shaft is provided with a left and right chuck remover (see figure No. 1). By pulling upward toward the front of the lathe, the chuck remover will unscrew outward to "push" the chuck from the tapered shaft. Various types of chucks and chuck accessories are utilized to perform different types of grinding and polishing operations with your lathe. These are attached to your lathe's shaft via a friction fit.

To place a chuck onto the shaft of your lathe, please follow these instructions:

1. Make certain both the lathe shaft and the arbor hole of the chuck to be placed on the shaft are clean of any dust and debris. Be certain the chuck remover on each side is in place.

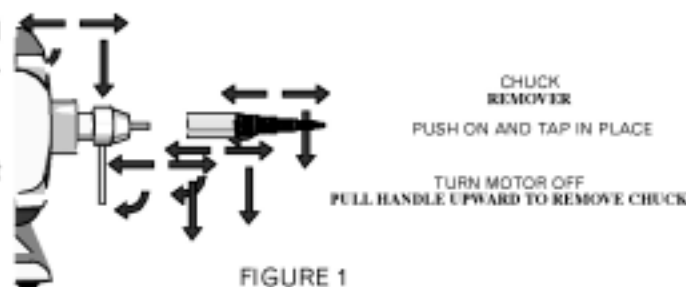
2. With the lathe turned "OFF," place the chuck onto the right or left shaft of your lathe. Make certain the chuck is properly labeled "R" for the right shaft or "L" for the left shaft of the lathe. DO NOT place a chuck labeled "R" or "L" on the opposite shaft.

3. Push the chuck onto the shaft as far as it will go. Since the chucks fit onto tapered shafts via friction fit, make certain the chuck is placed securely on the lathe shaft. It may be necessary to tap the end of the chuck onto the lathe shaft with the aid of a soft rubber, plastic, or leather mallet. Do not use a metal hammer or mallet as this will damage the chuck.

4. After the chuck has been placed securely on the lathe shaft, place the buff, brush, abrasive wheel, bur, or mandrel onto the chuck. Secure this in place as per the manufacturers suggestions.

5. Turn the lathe on and make certain the accessory which has been placed on the lathe chuck is securely in position. If either the chuck or accessory have not been secured to the lathe shaft, secure it now.

NOTE: Many Red Wing polishing motors are shipped with 1/2" straight shafts. Chucks used on Red Wing Polishing motors equipped with a 1/2" straight shaft utilize a set screw to hold the chuck in position. Make certain to tighten this securely.



PROTECTION - IMPORTANT

1. Never attempt to use a polishing motor without proper instruction.
2. Never use a polishing motor unless the motor has been fitted with polishing (splash)hoods or a similar protective device containing a protective shield.
3. Always use a dust collector when performing polishing or grinding operations.
4. Read and follow all instructions contained in this manual regarding "tool safety."

Handler manufactures a full line of Chucks, Splash Hoods, Dust Collectors, and Protective Shields. Contact us at the address below to request a Handler Catalogue.

CHUCK REMOVAL

After finishing and completing a polishing or grinding operation, you may wish to remove the chuck accessory and change to another type of chuck or accessory. This is completed as follow:

1. Turn the lathe off and allow the shaft to come to a complete stop.
2. Using the chuck remover located on the left or right side of the lathe, pull upward on the remover's handle. This will push the remover outward, and push the chuck from the lathe shaft, (See Figure 1. Page 1).

A few chucks may require the chuck remover to be rotated 360° before the chuck accessory is removed. Chucks fitted to polishing motors containing a 1/2" shaft are removed by loosening the set screw which holds it in position.

3. To place another chuck onto the lathe shaft, follow the procedure listed on this page.

CARE AND MAINTENANCE

Your Red Wing polishing motor has been fitted with ball bearings. No further lubrication is necessary during the life of your motor. Occasionally remove the motor's cordset from its electrical source and wipe the unit clean with a clean, soft cloth. DO NOT use abrasive or liquid cleaners. Read, fully, the safety instructions contained on page 6.

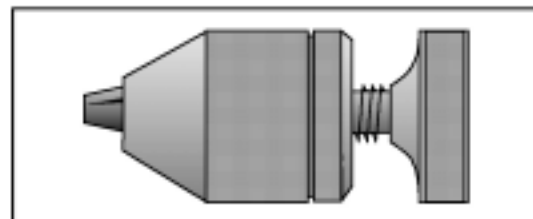
ACCESSORIES

Handler manufactures a full line of Chucks, Protective Hoods, Shields, and Dust Collectors for use with your Red Wing motor. Handler chucks are precision manufactured to fit onto your Red Wing motor. A few of these are described below.

The No. 7 L or R chuck is made to accommodate buffing wheels and brushes for polishing acrylic dentures, plastics, and metals. The threads contained on the tapered portion of the chuck's frontal surface secure the buff or brush in position.



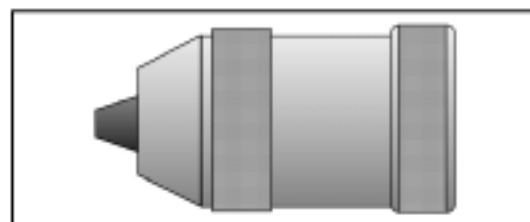
Handler 8T Jacobs type chucks are made to accommodate from 3/32" to 1/4" burs and mandrels. It is manufactured for gross finishing.



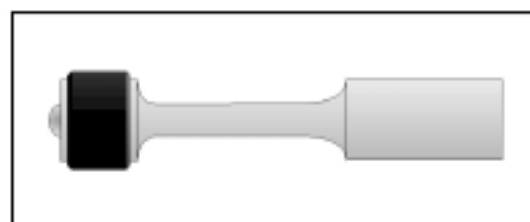
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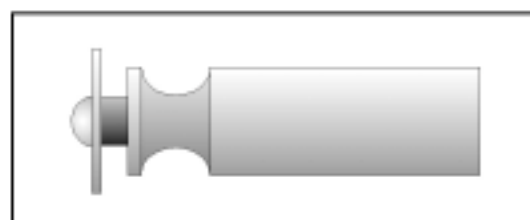
Handler's No. 18 Atlas Jacobs type chuck is precision ground to provide excellent concentricity and durability. This chuck will accommodate burs and mandrels from 0" to 1/4" in diameter.



Our No. 9 Arbor band chuck is built to accept 3/4" x 3/4" abrasive bands. These are used for gross finishing of plastics or metals.



Handler's No. 1-6 stone chucks are built to accept abrasive stones and lathe wheels with 5/16", 3/8", and 1/4", arbor mountings for the right and left side.



- 1 - 3/8" R 4 - 5/16" L
- 2 - 3/8" L 5 - 1/4" R
- 3 - 5/16" R 6 - 1/4" L

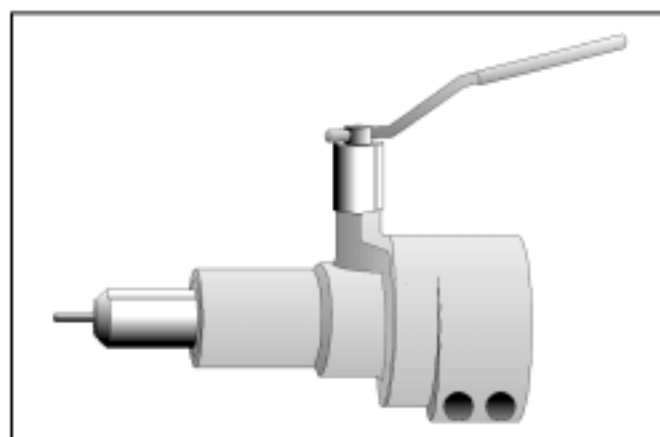
NOTE: Specify a No. 20 L or R chuck for a polishing motor with a straight 1/2" shaft.

Handler has designed and built a full line of automatic chucks which will adapt to your Red Wing or other polishing motors. Handler's automatic chucks are durable and built to save processing time and money.

16 Chuk/Changer

The Handler Chuk/Changer was designed to provide full automatic, precision changing of 1/4" and 3/32" diameter burs, mandrels and chuck accessories with the slight movement of a handle while the motor is turning.

The Chuk/Changer provides the technician with exacting concentricity and quick, easy changing of various chucks which greatly speeds grinding, polishing and finishing procedures. The No.16 Chuk/Changer is adaptable to most types of dental motors, including older models e.g. R & M, Ritter, Baldor, Emesco and Red Wing. The No.16 is shipped complete with chuck accessories as follows. . .



- P-16-15 Arbor Band Chuck.....Qty - 1
- P-16-16 Spiral Tapered Chuck.....Qty - 1
- P-16-19 Stone Chucks.....Qty - 2
- P-16-20 Mandrels for small abrasive wheels.....Qty - 2
- P-16-8 Collet Wrench.....Qty - 1
- P-16-10 Clutch.....Qty - 1
- P16-ADW Adapter.....Qty - 1



NOTE: Specify make, model and catalogue number of lathe when ordering.

16L Chuk/Changer is for use on left side of motor.

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PROTECTIVE SHIELDS AND HOODS

Polishing and Grinding must be completed with the addition of a protective hood with shield or a protective shield. Handler manufactures a full line of protective hoods and shields to protect the technician from possible flying dusts and debris. Below are three examples of the various types available.

The 86D hood with shield provides adjustable protection for the technician. Constructed of ever-brite aluminum, it contains an adjustable 6" x 9" clear acrylic shield to help protect the polisher. Hoods are available in 6" x 8" and 10" widths.

The Protector was designed to provide protection from possible flying debris. Constructed of 3/8" clear acrylic, the protector offers excellent protection for lathe and handpiece grinding.

Protect yourself from UNIDENTIFIED FLYING OBJECTS. The New #26SHLD shield from Handler mounts directly to your Lathe. Made of 8" x 6" x 1/8" clear Polycarbonate, fully adjustable, replaceable shield, helps comply with OSHA requirements. Comes with all mounting hardware. Contact your dealer or Handler.

Handler manufactures a full line of protective hoods, shields, and dust collectors. To obtain a Handler catalogue illustrating our hoods, shields, and dust collectors, contact us at the address below, or call 1-800-27Handl (1-800-274-2635).



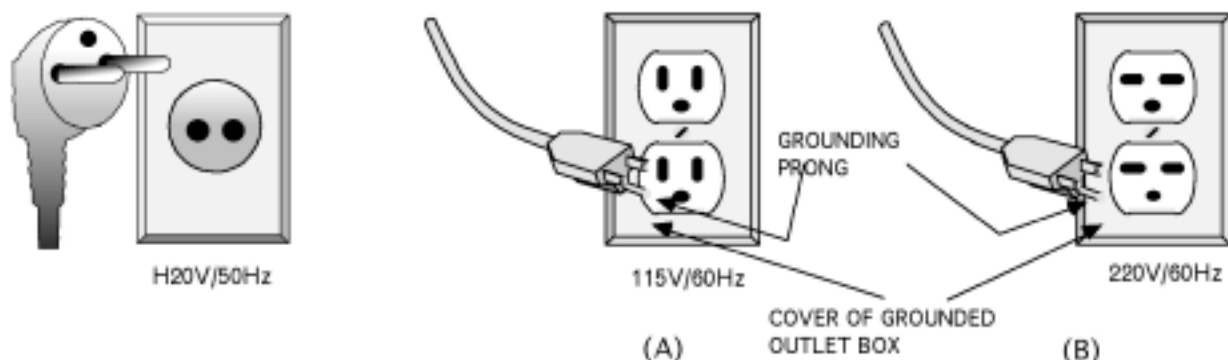
**550 PORTA-VAC
HOOD W/ BUILT
IN DUST COLLECTOR**

SAFETY INSTRUCTIONS

I. GROUNDING INSTRUCTIONS

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with an approved three-conductor cord and three-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal. If your unit is for use on less than 150 volts, it has a plug that looks like that shown in sketch (A) in Figure 1. If it is for use on 150 to 250 volts, it has a plug that looks like that shown in sketch (B). Use of an extension cords or a 2 prong adapter is not recommended.

FIGURE 1
GROUNDING METHODS



TOOL SAFETY INSTRUCTIONS

1. Keep Work Area Clean

Cluttered areas and benches invite accidents.

2. Avoid Dangerous Equipment

Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit.

3. Keep Children Away

All visitors should be kept safe distance from work area and appliance.

4. Store Idle Tools

When not in use, tools should be stored in dry, high, and locked location out of the reach of children.

5. Don't Force Tool

It will do the job better and be safe at the rate for which it was designed.

6. Use Right Tool

Don't force small tool or attachment to do the job of a heavy-duty tool.

7. Wear Proper Apparel

Do not wear loose clothing or jewelry which may get caught in moving parts. Tie back long hair or use a proper hair net.

8. Use Safety Glasses

Use safety glasses with all rotating tools. Also use a face or dust mask if cutting operation is dusty.

9. Don't Abuse Cord

Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.

10. Secure Work

Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.

11. Don't Overreach

Keep proper footing and balance at all times.

12. Maintain Tools with Care

Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

13. Disconnect Tools

When not in use; before servicing; when changing accessories such as blades, bits, cutters, etc.

14. Avoid Accidental Starting

Be sure switch is OFF when plugging in.

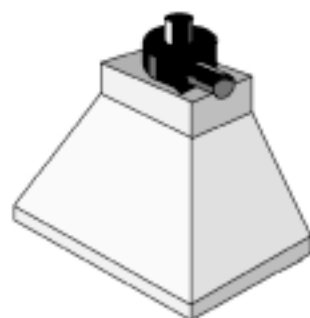
Don't Forget Handler's Other Fine Lab Products.



TECH-AIRE CHAIR



RED WING LATHES & MOTORS



STD. & SPECIAL FUME HOODS



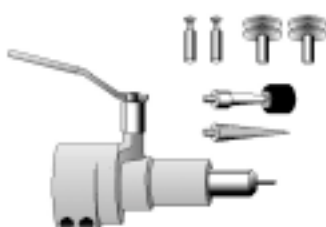
ATLAS PRECISION CHUCK



FISHMOUTHS



SYNCR/TORQUE III
ELECTRONIC HANDPIECE



CHUK/CHANGER FULLY AUTOMATIC



ADJUSTABLE ARM &
MAGNIFYING LAMPS

HANDLER *Over Eighty Years of Quality Manufacturing and Service...*

FAX OR E-MAIL TODAY FOR A FREE CATALOGUE

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E-Mail: info@handlermfg.com Website: www.handlermfg.com

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FREE LAB LAYOUT KIT

