

1.00 SCOPE

- 1.10** The purpose of these specifications is to define an On-Car Brake Lathe to machine brake rotors on car and trucks while on the vehicle.

2.00 EQUIPMENT

- 2.10** The brake lathe shall be a computerized electronic style powered by 115v, 1-phase power for maximum flexibility. 220v units will not be accepted.
- 2.20** The brake lathe shall have a rigid tool arm perpendicular and parallel to spindle axis.
- 2.30** The brake lathe shall be equipped with one piece hub adaptors for ease of use.
- 2.40** The brake lathe shall have a motor of no less than 1 hp in size to smoothly handle the turning of AWD and 4WD rotors.
- 2.50** The brake lathe shall have a lateral run-out compensation system with Fully Automatic Computerized run-out compensation and Fully Automatic adjustment system to reduce input and potential error from the operator.
- 2.60** Lathe Body shall be cast aluminum to provide natural dampening.
- 2.70** Lathe shall have an automatic shut off device that will turn off the lathe motor after the rotor has been cut. This feature is desired for hands free operation and to increase technician productivity.
- 2.80** The cutting head shall be able to fit within the caliper bracket if bracket isn't required to be removed to surface rotor.
- 2.90** The brake lathe shall be furnished with a mobile trolley for ease of operation.
- 2.10** The lathe trolley shall be of an I-Beam construction, 4-wheel design that is capable of operating at lift height as well as floor stand height.
- 2.11** The brake lathe shall have a fixed spindle speed of approx. 123 rpm and a fixed feed rate.
- 2.12** The brake lathe shall be of a hub-mount design as accepted as the industry standard. Caliper mount brake lathes will not be accepted.
- 2.13** The brake lathe shall have a fixed spindle speed and fixed feed rate to provide the optimum rotor finish and roughness average. Lathes with adjustable spindle speeds and/or feed rates will not be accepted.

3.00 CAPABILITIES

- 3.10** The brake lathe shall be capable of providing a smooth non-directional finish while removing up to 0.040" per pass or 0.020" per rotor side in a single pass to minimize the needs for multiple cuts.
- 3.20** The brake lathe shall handle rotors between 0.2 inches (5 mm) and 1.750 inches (44 mm) wide and diameters between 3.83 inches (97 mm) and 17.2 inches
- 3.30** The brake lathe shall be equipped with all nuts, bolts, adaptors and accessories to handle the majority of vehicles through 1-ton in capacity.

4.00 WARRANTIES

- 4.10** Brake lathe shall be warranted for a period of no less than 2 year parts and labor. Additional the lathe body has a warranty of 3 years

5.00 BRAND NAME & MODEL

- 5.10 Pro-Cut 9.2 DRO or equal.
- 5.20 Lathe Brand & Model is noted as a known unit that will meet required specifications. All bids must include a full brochure and specification set shown to meet the minimum specification listed above.

6.00 OPTIONS

- 6.10 Optional cutting head upgrade.
- 6.20 Optional Adaptor Kit to handle medium duty truck rotors including F-450 and F-550.
- 6.30 Optional Flex Arm Mounted Dial Indicator.
- 6.40 Optional Digital Rotor Micrometer.
- 6.50 Optional Annual Preventative Maintenance Program.
- 6.60 Optional validated brake system.

7.00 SERVICE

- 7.10 The supplier of the aforementioned brake lathe shall have a service capability no farther than 150 miles from the proposed installation site and shall have sufficient spare parts in stock to provide service in the event of mechanical or electrical breakdown.
- 7.40 End User shall be adequately trained on basic equipment repair and all parts are to remain available to end-user to repair in the event of failure outside of the warranty provisions.

8.00 MAINTENANCE

- 8.10 The supplier shall train the end user in the normal maintenance and care of the machine.
- 8.20 The lathe shall be equipped with an operator adjustable gib assembly to adjust for periodic wear of the cutting head/slide assembly.



PFM 9.2DRO W/ 6ADP SHOWN

PFM 9.2 DRO SPECIFICATIONS

SPEED LOCK CUTTING HEAD (Standard)

| | |
|-------------------------|---------------|
| Maximum Rotor Thickness | 1.75" |
| Minimum Rotor Thickness | 0.13" |
| Maximum Rotor Diameter | 16.2" |
| Maximum Friction Face | 3.43" |
| Maximum Depth of Cut | 0.015" / Side |
| Weight | 7.68 lbs |

PRECISION-MATCH CUTTING HEAD (Optional)

| | |
|-------------------------|--------------|
| Maximum Rotor Thickness | 2.00" |
| Minimum Rotor Thickness | 0.13" |
| Maximum Rotor Diameter | 17.2" |
| Maximum Friction Face | 3.83" |
| Maximum Depth of Cut | 0.15" / Side |
| Weight | 9.38 lbs |

MACHINE

| | |
|-------------------|-------------------|
| Spindle Speed | 123 RPM |
| Carriage Speed | 0.005" / rev. |
| Motor | 1.00 HP |
| Shipping Weight | 200 lbs. |
| Electrical Supply | 120v / 1ph / 60hz |
| Feed Distance | 163mm / 176mm |