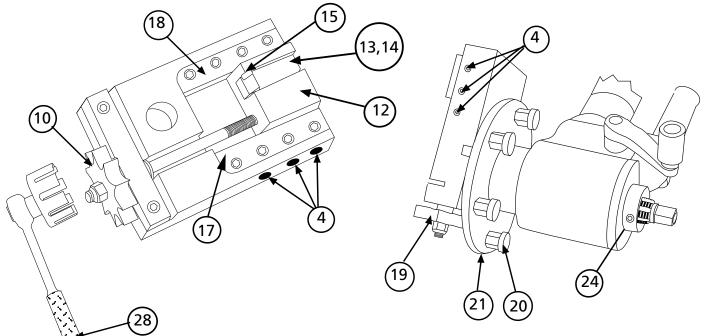


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Operating Recommendations for Model MSF Flange Facer



- Mount the model MSF Machine using the centershaft collet system or the elbow mandrel (see elbow mandrel setup procedure).
- 2. Install cutting insert (15) into holder (13, 14).
- 3. Install the low range or high range holder (13,14), depending upon the flange size, into the tool slide (12).
- 4. Rotation of the flange facer body is clockwise when looking at it from the rear of the machine.
- 5. Set the tool slide (12) by rotating the trip wheel (10) with ratchet and socket (26) until the holder extends past the area to be machined.
- 6. Once the holder is in position, the trip wheel (10) backlash must be cleared and the timing set. Rotate the trip wheel one full turn clockwise to remove the backlash and position it to point directly at the trip ring (19). NOTE: Failure to perform this procedure will damage the trip screws.
- 7. Engage the correct number of trip pins (20) to achieve the required surface finish (see specifications).

Note: It is Important that the gibs (17, 18) are properly adjusted. Correct adjustment maintains proper timing between the trip wheel and the trip screws. The gibs are properly adjusted when the set screws (4) are tightened evenly to apply enough force to the toolslide (12) that it is difficult to turn the trip wheel by hand.

- 8. The depth of cut is controlled by rotating the machine crank handle in a clockwise direction. Note: One complete turn is equal to .028" travel.
- 9. Once the depth of cut is set, tighten set screw (24) in the end plate to lock the machine in place.
- 10. Activate the machine by operating the air motor and allow the insert to face across the raised flange area.

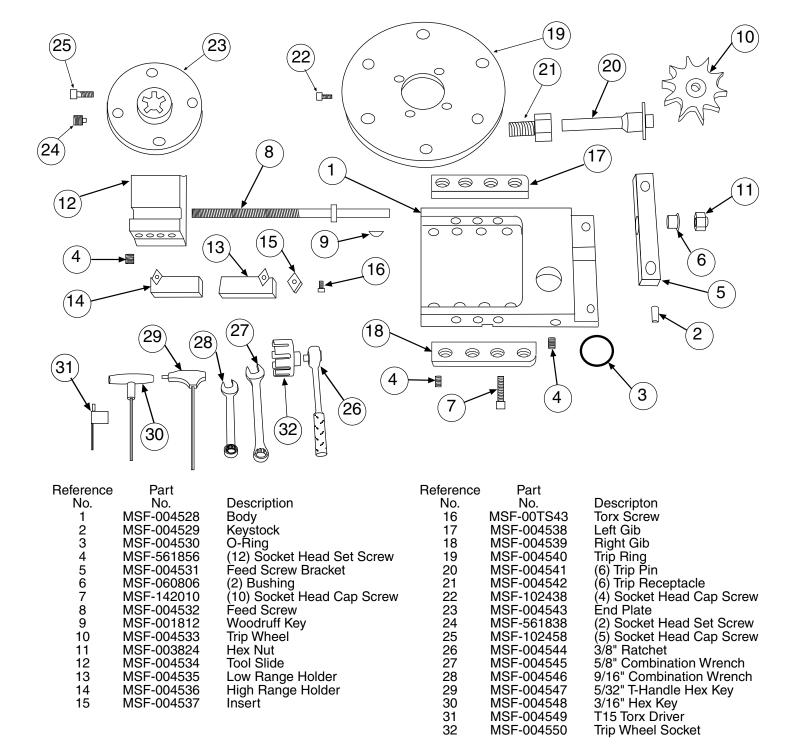
Specifications

Working Range: 1-1/4" (31.8 mm) I.D. to 10" (254 mm) O.D. Radial Tool Clearance — 6" (152.4 mm) Radial Feed Rate: .005" (0.13 mm) per pin: All 6 pins .030" (0.76 mm) Per Revolution Note: Pins must be engaged at opposing positions for even resurfacing. Approximate surface finishes are: 1 pin — 63 RMS 3 pins — 125 RMS 6 pins — 500 RMS Axial Feed Rate: .062" (1.6 mm) Per Full Feed Nut Turn Approximate Feed Depth Adjustments are: 1/4 turn — .015" (0.38 mm) 1/2 turn — .031" (0.79 mm) 3/4 turn — .046" (1.2 mm)



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Parts List MSF Flange Facer Part No. 004527



The performance and reliability of H & S products is the result of a combination of quality parts, accurate machining, and careful assembly. Call H & S with your parts requirement to ensure that your repaired tool retains the quality that you originally purchased.

Complete rebuilding service is also available. Contact the factory for details.



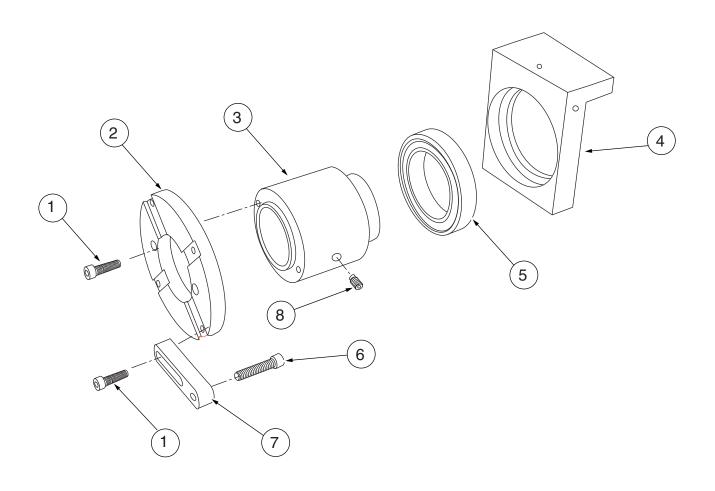
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PARTS LIST MS Fine Adjustment

Assembly No. MSA 004569



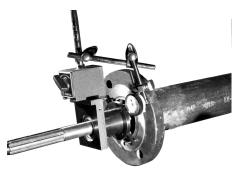
No.	No.	Description
1	MSA-004570	10-32 x 1/2 Socket Head Cap Screw (6)
2	MSA-004571	Adjustment Plate
3	MSA-004572	Hub
4	MSA-004573	Indicator Bracket
5	MSA-004574	R20FF Bearing
6	MSA-004575	10-32 x 1 Socket Head Cap Screw (4)
7	MSA-004576	Extension Arms (4)
8	MSA-004577	5/16-18 x 3/8 Brass Tipped Socket Head Set Screw

Flange Fine Adjustment Alignment Kit



H&S offers this fine adjustment flange facing alignment kit to provide the most accurate setup possible.

Insert the center shaft/locking mechanism into the pipe.
Tighten the draw rod just enough to stabilize the position.
The alignment fixture slides onto the shaft until the four adjusting screws contact the flange surface. The fixture is locked in place with the locking set screw.

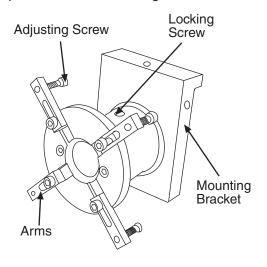


There is a choice of dial indicator mounts. The magnetic base mounts by setting the unit on the bracket and turning the switch to "on". The arms are adjusted to a position where the dial indicator can be swung a full 360 degrees without interference.

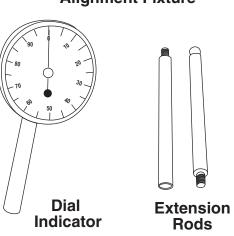


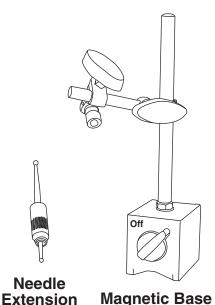
The kit also includes threaded extension rods and clamps for mounting the dial indicator. Tapped holes are provided on the flat and side of the mounting bracket into which a rod can be located. The C-clamp can be locked on that rod and another rod affixed to the clamp to hold the indicator. There are various combinations to give you a setup that will clear surrounding obstructions.

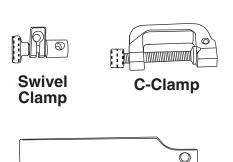
Once the dial indicator is secured in position with the indicator sensor in contact with the flange face, the fixture is rotated to swing the indicator around the surface. The adjusting screws are then used to square the centershaft with the flange. The mandrel is then locked in place, the fixture/dial indicator is removed and the flange facer is



Fine Adjustment Alignment Fixture







Tool Post Holder



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PARTS LIST Dial Indicator Kit
Dial Indicator Kit Part No. FA 004580
Magnetic Base/Arms Part No. FA 004581

Dial Indicator Kit

