

# 3.000" I.D. to 14.000" O.D. (76.2 to 355.6 mm)

## Reliable Performance

The H & S Model MFT is a combination of power, versatility and reliability in a compact package that allows a single operator to machine tube ends from 3.000" (76.2 mm) I.D. to 14.000" (355.6 mm) O.D.

Designed and built for on-site work, it performs equally well on standard and heavy wall materials. Custom H & S gearing ideally matches torque and cutter speed for smooth, accurate finished cuts. Electric motor power is available upon request.

To reduce the amount of weight being handled in a single lift, the centering mandrel can be installed in the pipe separately from the power unit. The mandrel locks the tool for torque-free operation and centers the tooling for accurate cuts. The power unit is then easily located on the center shaft.



- Compact Design
- Torque-Free Operation
- Reliable Pneumatic, Hydraulic Or Electric Power
- Simple One-Person Operation
- Quickly Separates Into Two Pieces For Easy Handling



## Specifications\*

Working Range .....	3.000" (76.2 mm) I.D. to 14.000" (355.6 mm) O.D.
Pneumatic Motor .....	3.0 H.P. (2.2 kW)
Recommended Air Pressure .....	90 PSI (6.1 Bar)
Recommended Volume .....	65 CFM (1.9 m3/min.)
Speed .....	18 RPM
Electric Motor .....	2.5 H.P. (1.1 kW), 120/230 V, 16.0A
Speed .....	0 - 32 RPM
Hydraulic Motor .....	5.36 H.P. (4.0 kW)
Pump Requirements .....	5.28 GPM @ 1740 PSI (20 lpm @ 138 Bar)
Speed .....	0 - 26 RPM
Travel .....	4.500" (114.3 mm)
Radial Tool Clearance .....	14.000" (355.6 mm)
Weight	
Power Unit, Pneumatic .....	69.0 lbs. (31.3 kg)
Power Unit, Electric .....	77.0 lbs. (34.9 kg)
Center Shaft (Standard) .....	20.0 lbs. (9.1 kg)
Length .....	21.000" (533.4 mm)

\* Specifications are subject to change without notice.

## Internal locking



### I.D. Range

Wedge Sets	Inches	MM	Rod/ Shaft
3.000	3.000 - 4.000	76.2 - 101.6	Opt.
3.500	3.500 - 4.500	88.9 - 114.3	Std.
4.500	4.500 - 5.500	114.3 - 139.7	Std.
5.500	5.500 - 6.500	139.7 - 165.1	Std.
6.500	6.500 - 7.500	165.1 - 190.5	Std.
7.500	7.500 - 8.500	190.5 - 215.9	Std.
8.500	8.500 - 9.500	215.9 - 241.3	Std.
9.500	9.500 - 10.500	241.3 - 266.7	Std.
10.500	10.500 - 11.500	266.7 - 292.1	Std.
11.500	11.500 - 12.500	292.1 - 317.5	Std.
12.500	12.500 - 13.500	317.5 - 342.9	Std.

Locking pads are also available to reduce distortion on thin wall, stainless and other materials.



For machining elbows and in other applications where a higher degree of accuracy is required, specify the H&S elbow mandrels.



## Tooling

The tool holder is designed to accept a variety of tooling, enabling you to perform up to three operations at the same time.

### 37.5°, 30.0° O.D. Bevel



3.000" (76.2 mm) I.D. to  
14.000" (355.6 mm) O. D.  
SM-37.500

3.000" (76.2 mm) I.D. to  
14.000" (355.6 mm) O. D.  
SM-37-10

### 90.0° Facing/Shortening



3.000" (76.2 mm) I.D. to  
14.000" (355.6 mm) O. D.  
SM-F

### 10.0° I.D. Bevel



4.000" (101.6 mm) I.D. to  
14.000" (355.6 mm) O. D.  
SM-I



## Flange Facing

The H & S Tool Model MFT is also available as a powerful, accurate flange facing machine with automatic horizontal indexing. Order it as a flange facer and the MFT is delivered ready to install the cutting blade and begin work. You can also order it with the standard machining attachments and order the flange facing package sent along to be converted later. The package comes complete with easy-to-follow, illustrated instructions. The MFT can face flanges up to 16.250" (609.6 mm) maximum working reach. Refer to the Flange Facing sheet for specifications and details.

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