

WACHS

TSE

1.0 TUBE SQUARING MACHINE

- **SQUARE BURR FREE PREPS ON ALL TUBING FROM 1/8" (3.175 MM) THROUGH 1" (25.4 MM) O.D.**
- **TSE 1.0 OFFERS FAST OPERATION AND EASY HANDLING. IDEAL FOR CONTRACTORS, FABRICATORS AND MAINTENANCE DEPARTMENTS INVOLVED WITH HIGH PURITY TUBING WORK.**
- **SQUARE ENDS CONSISTENTLY WITHIN .001" **PERPENDICULAR TO THE OUTSIDE TUBE DIAMETER.**



SPECIAL FEATURES...

- **"Micrometer Index Gauge"** for precise machining to exact lengths.
- **"Stainless steel collets"** grip the tube firmly without causing tube deformation.
- **"Cutter Window"** provides a clear view of the cut during operation.
- **"Exclusive Tooling Design"** channels chips away from cut.

FAST SETUP...

EASY OPERATION...

- Hand tensioning system centers and squares the tube automatically in seconds.
- Linear feed design provides the user with smooth in-feed and excellent control.
- Trigger activated, variable speed electric motor, for operator convenience.
- Once the prep is completed, the lock nut quickly releases collet tension for immediate tube removal.

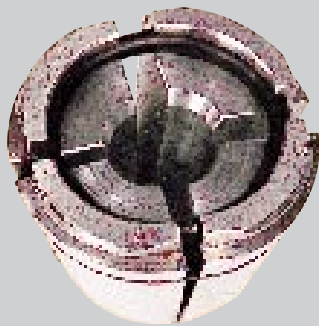
** MEASUREMENT PERTAINS TO 1" TUBE. VALUE CHANGES WITH TUBE SIZES



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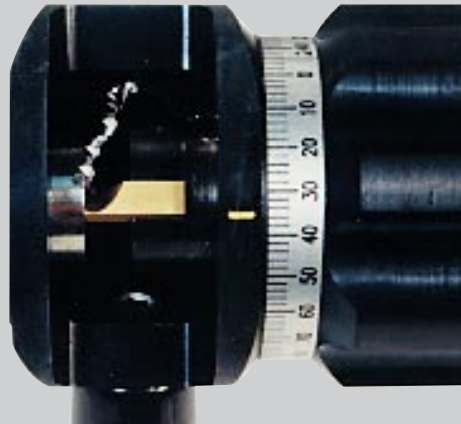
COLLET SYSTEM

- New stainless steel collet and lock nut design provides maximum grip with easy release.
- Stainless steel collets are ideal for high purity weld applications.
- O.D. mount prevents contact damage to the electro polished tube I.D.



MICROMETER INDEX GAUGE

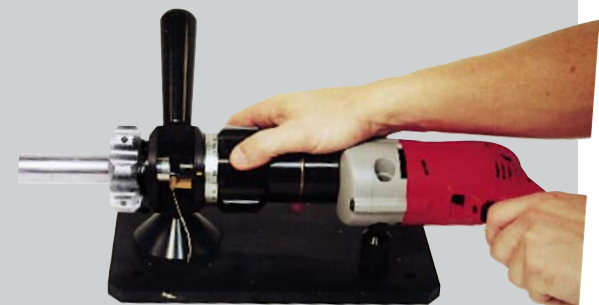
- Allows for fast, precise machining to exact cut length with lathe-like accuracy.
- Simply determine the amount of tube to be removed and monitor its removal using the index gauge.



TOOLING

- Standard tool bits are available for a complete range of tubing materials, including soft alloys and all grades of STAINLESS STEEL, TITANIUM and INCONEL.
- Tool bit adjustment and change out is quick and easy.
- Long tool bit life and smooth, burr free cuts are assured with Wachs premium quality coated tooling.

BENCH MOUNT SYSTEM



- 17 Collet sizes are available from 1/8" (3.175 mm) to 1" (25.4 mm), Metric 6mm to 25mm each clearly marked for easy identification.

- Index gauge gives the operator excellent control when tube length dimensions must be maintained.

- An optional mounting base is available to quickly convert the hand held machine to a bench mounted system.

SPECIFICATIONS

MACHINING FUNCTION:	SQUARE, BURR-FREE, FACING
MACHINING CAPACITY:	1/8" (3.175 mm) THROUGH 1" (25.4 mm) O.D. TUBE
MACHINING MATERIALS:	ALL
WALL THICKNESS:	.010" (.25 mm) THROUGH .120" (mm)
CLAMPING SYSTEM:	STAINLESS STEEL COLLETS WITH STAINLESS STEEL HAND RETRACTABLE LOCKING NUT
CLEARANCE RADIUS:	1-1/2" (38.1 mm) FROM CENTERLINE
TOOL ADVANCE:	HAND ADVANCEABLE & RETRACTABLE SPINDLE WITH INDEX GAUGE .245" (6.22 mm) per rev.
MOTOR:	ELECTRIC 110 OR 220 VOLT
CONTROLS:	ON - OFF VARIABLE SPEED TRIGGER SWITCH
TOOLING:	COATED AND UNCOATED FORM TOOLS
TOOL RPM:	0 TO 600 RPM, VARIABLE
AXIAL FEED:	.400" (10.16mm) MAXIMUM
WEIGHT:	8 LBS (3.62 kg.)
FINISH:	HARD-ANODIZED AND OXIDED
DIMENSIONS:	15" (381 mm) LONG, 7" (177.8 mm) HIGH & 3" (76.2mm) WIDE
STANDARD EQUIPMENT:	• TSE 1.0 MACHINE, OPERATING TOOLS AND MANUAL • ONE FACING TOOL
OPTIONAL EQUIPMENT:	• STAINLESS STEEL COLLETS • SOFT MATERIAL / HARD MATERIAL TOOL BITS • STORAGE CASE • BENCH MOUNT SYSTEM



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