



TRI TOOL INC.

TRI TOOL INTERNATIONAL INC.

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TRI TOOL INC. TECHNICAL SPECIFICATION MODEL 512A1 PANEL SAW JANUARY, 2001

MODEL 512A1 PANEL SAW

The Pneumatic Panel Saw is a track mounted saw for making vertical or horizontal abrasive cut-off wheel cuts in boiler water walls, either across the tubes (horizontal) or through the membranes (vertical). The saw requires that a track be tack welded to the panel parallel to the cut line. After the track is mounted the panel saw is then engaged to the track for cutting. The saw incorporates a pneumatic motor which drives the abrasive cut-off wheel. The motor is governed to optimize the motor power curve, while maintaining the optimum speed for the cutting wheel.

The Model 512A1 comes complete with:

- A. Panel Saw Assembly
- B. Track Section (64")
- C. Weld Tabs
- D. Locator Tabs
- E. Abrasive Cut-off Blade (Expendable)
- F. Mounting Screws
- G. Tool Kit
- H. Operator's Kit
- I. Operator's Manual

Accessories:

- A. Cross Track Assembly (For Membrane Slitting)

The Cross Track Assembly positions the 512A1 Panel Saw to perform membrane slitting operations as required for beveling the water wall tube ends. Repositioning the Track Section (64"), used for making horizontal cuts, is not required.

Refer to Model 103 Rep Beveler Technical Specifications for additional information regarding beveling of water wall tube ends.

Design and Operating Features:

1. Integral down feed pivot and gear reduction housing.
2. Pivot mounting for down feed (into the panel) cutting.

3. Automatic track brake system, to hold saw assembly in position, on the track, for down feed cutting and ease of moving to the next cut increment.

NOTE: Cross feed cutting by moving the saw assembly on the track is not recommended due to the tendency of an abrasive cut-off wheel to “walk” off of the cut line.

4. Wheel change-out lock position for operator’s safety.
5. Tool packaged in a kit complete with shipping and storage box, adaptors, tools and safety equipment.
6. Materials – as suitable for abrasive cut-off wheels.

Specifications

1. Reference Envelope Drawing No. 77-0611 and 77-0702
2. Track:

Length	64” (1,625.6 mm)
Weight	57 lbs. (25.8 kg)
3. Saw Assembly:

Length	20.8” (528.3mm)
Width	12.0” (304.8mm)
Height (maximum down position)	8.3” (210.8mm)
(maximum up position)	22.0” (558.8mm)
Weight	53.0 lbs. (24.0 kg)
4. Cutting Depth: (full diameter wheel) 4.38” (111.1mm)
5. Wheel capacity:

Diameter:	12.0” (304.8mm)
Width	.093” (2.78mm)
6. Length of Travel: 49.0” (124.5mm)
7. Drive Motor:

Blade R.P.M. (governed)	5000 (maximum)
Air Volume Required	157 CFM (74.1 liter / sec)
Air Pressure Required	90 psi (621 kPa)
8. Shipping Weight of Kit: 205 lbs. (93.2 kg)

Spare parts and standard tool bits are available from stock. Engineering design services for custom tool bits and special function modifications are available from the factory.

All TRI TOOL Inc. and allied equipment products are subject to design improvements and specification changes at any time with no obligation to units already sold.

Warranty (limited), parts and/or equipment are warranted against defects in material and workmanship for a period of one year from date of purchase. Full details supplied on request and/or with tools.

Filter, regulator, lubricator required to protect warranty on air powered tools.

COMPANY CONFIDENTIAL

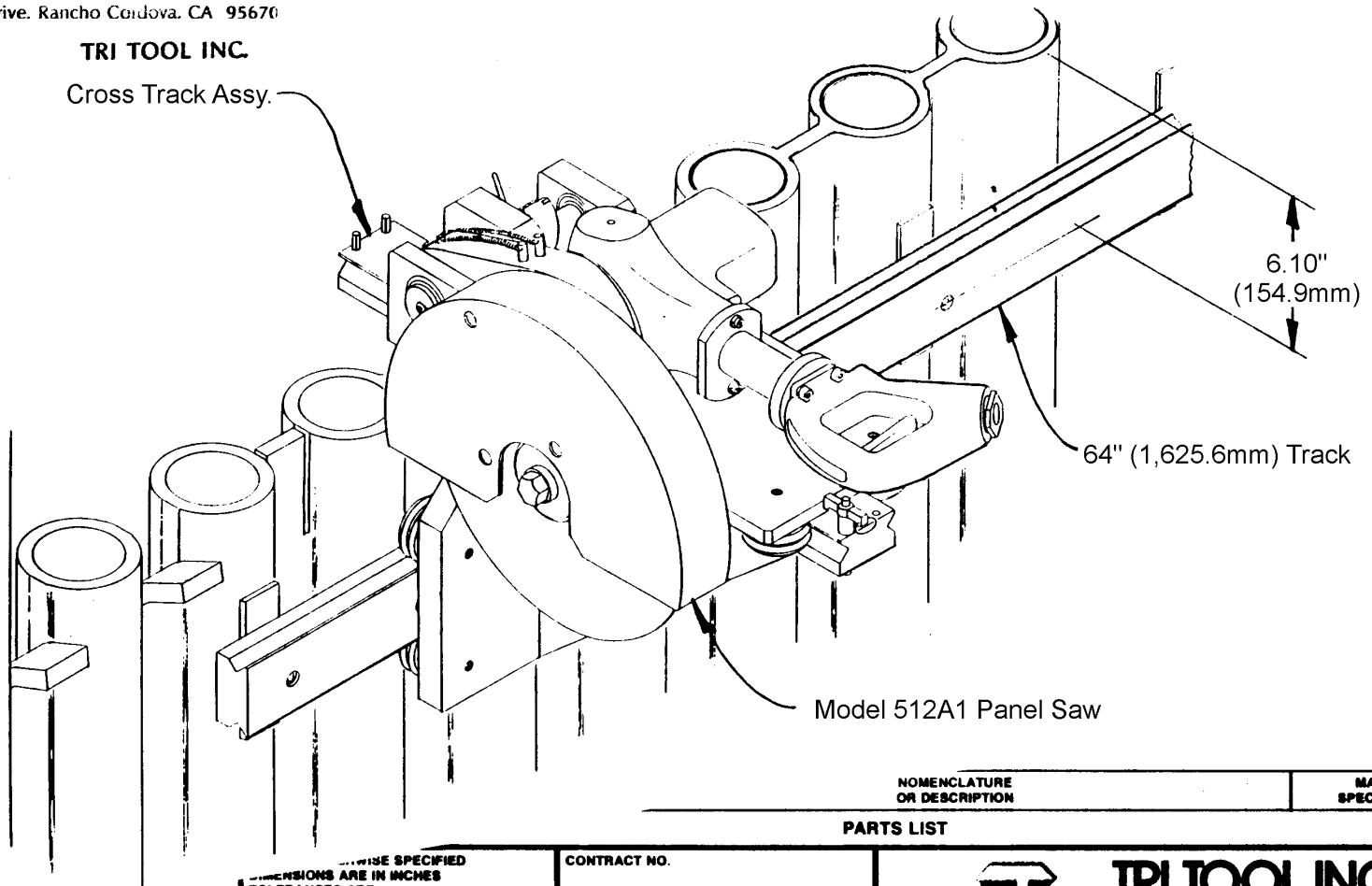
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TRI TOOL INC.

Cross Track Assy.




Model 512A1 Panel Saw

NOMENCLATURE
OR DESCRIPTION

MATERIAL
SPECIFICATION

PARTS LIST

UNLESS SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		 TRI TOOL INC. 3806 SECURITY PARK DRIVE, RANCHO CORDOVA, CA 95670		
FRACTIONS ±	DECIMALS .XX ± .XXX ±	ANGLES ±	APPROVALS			
MATERIAL	DRAWN <i>PFAFMAN</i>		8/24/88		MEMBRANE SLITTING SYSTEM	
FINISH	CHECKED <i>J Silber</i>		8-25-88			
NEXT ASSY	USED ON	ISSUED	SIZE A	FSCM NO.	DWG. NO. 77-0702	REV.
APPLICATION		DO NOT SCALE DRAWING		SCALE	SHEET 1 OF 1	