

TECHNICAL SPECIFICATION MODEL 550 CHIPLESS TUBE CUTTER

The Model 550 Tube Cutter is a series of different size machines, each designed to sever one size of an in-line tube. Individual tube size machines are available in the range from .188" (4.77mm) through 2.00" (50.8mm) for use in areas where access to and around the tube is limited.

The Model 550 Tube Cutter may be purchased in any combination of sizes. A drive system is required for operation.

Kits Established

- A10 Tube Cutting Kit
 - B1 Tube Cutting Kit
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Special Purpose Accessories

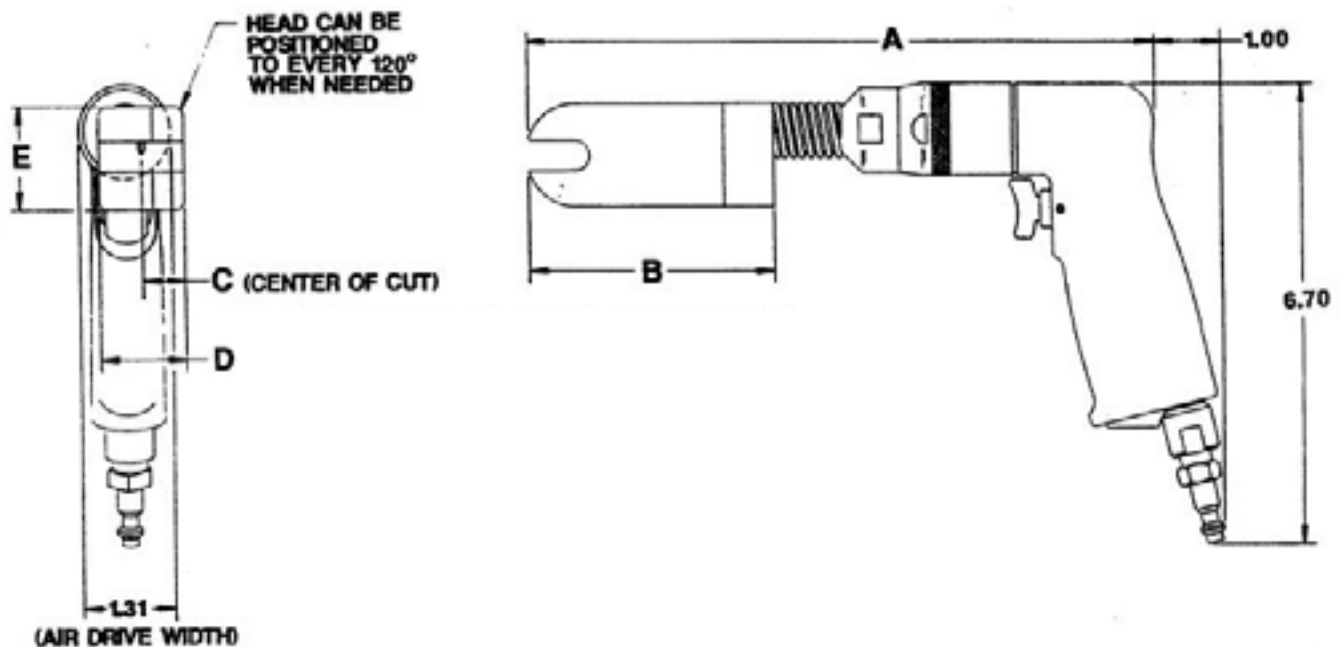
- Flexible Drive Cables
 - Manual Drive Systems (special order only)
 - Electric Drive System (special order only)
 - Carrying Case
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Design and Operating Features

- The machine's compact size allows access into areas that have limited clearance problems.
- The machine's horseshoe type head design allows for easy installation and removal from the tube.
- The machine is self-centering for quick and easy mounting.
- Each tool is equipped with an autofeed mechanism for ease of operation.
- Chipless cutting wheel provides extremely long life.
- A removable pin allows the cutting wheel to be changed when necessary.
- A pneumatic drive system for use in hazardous areas is standard.
- The drive system has a quick disconnect system for quick and easy changes from one size machine to another.

Specifications/Clearances

Reference Envelope Drawing No. 77-0556



Model #	A	B	C	D	E
550-03	9.32	3.67	0.70	1.25	1.53
550-04	9.32	3.67	0.70	1.25	1.53
550-05	9.32	3.67	0.70	1.25	1.53
550-06	9.32	3.67	0.70	1.25	1.53
550-08	10.01	4.36	0.77	1.53	2.25
550-10	10.18	4.53	0.77	1.53	2.38
550-12	10.28	4.63	0.77	1.53	2.50
550-14	10.53	4.88	0.77	1.53	2.63
550-16	10.67	5.02	0.77	1.53	2.75
550-18	11.53	5.88	0.77	1.53	3.13
550-20	11.78	6.13	0.77	1.56	3.38
550-24	12.75	7.10	0.77	1.56	4.00
550-28	13.35	7.70	0.77	1.56	4.38
550-32	13.84	8.19	0.77	1.56	4.75

Material Cutting Capabilities

Materials include, but are not limited to, carbon steel, low alloy steel, chrome steel, chrome/moly alloys (Rc 32 max), stainless steel, titanium, copper, aluminum and copper nickel alloys. Cutting inconel requires custom equipment, contact Tri Tool Technologies for more information. Listed below are examples of some materials and wall thickness.

**Note: Wall thickness will vary depending upon material.*

Model #	Tube Size (Dia.)	Alumiumum	Stainless Steel	Titanium
550-03	.18" (4.8mm)	.065" (1.7mm)	.055" (1.4mm)	.055" (1.4mm)
550-04	.25" (6.4mm)	.070" (1.8mm)	.055" (1.4mm)	.055" (1.4mm)
550-05	.31" (7.9mm)	.065" (1.7mm)	.055" (1.4mm)	.055" (1.4mm)
550-06	.38" (9.5mm)	.065" (1.7mm)	.055" (1.4mm)	.055" (1.4mm)
550-08	.50" (12.7mm)	.090" (2.3mm)	.075" (1.9mm)	.075" (1.9mm)
550-10	.63" (15.9mm)	.125" (3.2mm)	.100" (2.5mm)	.100" (2.5mm)
550-12	.75" (19.1mm)	.095" (2.4mm)	.085" (2.2mm)	.085" (2.2mm)
550-14	.88" (22.2mm)	.120" (3.1mm)	.100" (2.5mm)	.100" (2.5mm)
550-16	1.00" (25.4mm)	.095" (2.4mm)	.085" (2.2mm)	.085" (2.2mm)
550-18	1.13" (28.7mm)	.105" (2.7mm)	.100" (2.5mm)	.100" (2.5mm)
550-20	1.25" (31.8mm)	.090" (2.3mm)	.080" (2.0mm)	.080" (2.0mm)
550-24	1.50" (38.1mm)	.125" (3.2mm)	.100" (2.5mm)	.100" (2.5mm)
550-28	1.75" (44.5mm)	.125" (3.2mm)	.100" (2.5mm)	.100" (2.5mm)
550-32	2.00" (50.8mm)	.125" (3.2mm)	.100" (2.5mm)	.100" (2.5mm)

Weight

Model #	Lbs. (kg)
550-03	.8 lbs. (.36kg)
550-04	.8 lbs. (.36kg)
550-05	.8 lbs. (.36kg)
550-06	.8 lbs. (.36kg)
550-08	1.8 lbs. (.81kg)
550-10	2.0 lbs. (.91kg)
550-12	2.1 lbs. (.95kg)
550-14	2.3 lbs. (1.0kg)
550-16	2.5 lbs. (1.1kg)
550-18	3.3 lbs. (1.5kg)
550-20	3.7 lbs. (1.7kg)
550-24	5.1 lbs. (2.3kg)
550-28	6.1 lbs. (2.8kg)
550-32	7.1 lbs. (3.2kg)

* Pneumatic Drive System 1.7 lbs. (.77kg)

Note To The Customer

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 Technologies 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 equipment are warranted against defects in material and workmanship for a period of one (1) year from date of purchase. Full details supplied on request and/or with the tools.



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