

SPECIFICATIONS

Pneumatic Impact Tool System

Introduction

These purchase specifications cover the minimum requirements for a Pneumatic Impact Tool System to be purchased by _____. Emergency personnel for cutting metal and composites, breaking masonry walls, penetrating concrete floors, forcible entry and digging during tunnel operations, shall use this system. This system will consist of the following components and accessories:

- One Airgun 40 SC, w/ Inline Oiler
- One Cylinder
- One Cylinder Rack, self-contained unit
- Two Pressure Regulators
- One Hose
- Oil
- One Tool, retainer service
- Two Hex keys
- One Manual
- One pair of Goggles
- One Storage and carrying case
- One Driver for Neoprene Plug
- Ten Bits
- One Coupling

Instructions to Bidders

Bidders shall conform as much as possible to these specifications. Exceptions or omissions must be set out in writing on a separate sheet entitled "Exceptions" which must accompany the bid. Failure to do so will result in an automatic rejection of the bid.

The buyer shall be the sole interpreter of the intent of any clause of these specifications and shall be the sole judge as to whether the equipment or any part thereof complies with the specifications.

The buyer reserves the right to reject any and all bids, to waive informalities in bidding, to negotiate small options with the successful bidder and to accept the bid, which in the opinion of the buyer, will be in its best interests.

General Construction Features

The Pneumatic Impact Tool System will allow for immediate operation from any compressed air source. The Pneumatic Impact Tool System shall consume air only on the power stroke. The

Pneumatic Impact Tool System shall be lightweight, have very low air consumption and have a wide range of power settings.

Dimensions and Capacities

The Pneumatic Impact Tool System shall adhere to the following technical information:

Length (without bit)	23.0 in. (584 mm.)
Width	13.0 in. (330 mm.)
Thickness	9.75 in. (248 mm.)
Weight (Airgun SC without bit)	19.6 lb. (8.9 kg.)
Air Pressure Range	40 – 250 psi (2.8 – 17.2 Bar)
Air Consumption at 100 – psi	5.2 CFM (137 L / min.)
Blows / Minute (Approx.)	600
Power Output	40 ft. / lb. (5.5 m. / kg.) @ 250 – psi to 6 ft. / lb. (0.83 m. / kg.) @ 50 – psi
Kit Weight	77 lb. (35 kg.)
Kit Dimensions	32.0 in. long (813 mm.) 22.0 in. wide (559 mm.) 12.0 in. high (305 mm.)

Airgun 40 SC w/ Inline Oiler

The Pneumatic Impact Tool System shall include an Airgun 40 SC with an Inline Oiler. The Airgun 40 SC shall be designed to exceed current U.S. Air Force requirements for aircraft skin penetration. It will carry its own limited self-contained air supply so a firefighter can rapidly insert several penetrator / applicator nozzles depending on the location and spread of fire or fuel. These penetrator / applicator nozzles will flow water, AFFF solutions and Halon. When the self-contained air supply is exhausted the air supply assembly shall be quickly detached in favor of another source.

Cylinder

The Pneumatic Impact Tool System shall contain a Cylinder with 3000–psi composite as a self-contained unit.

Cylinder Rack

The Pneumatic Impact Tool System shall contain a self-contained Cylinder Rack.

Pressure Regulator

There shall be two Pressure Regulators with a variable output feature controlled by regulating the outlet pressure of the regulator. One of the Pressure Regulators shall operate with pressures from 6000 to 310–psi and the other shall operate from 6000 to 175–psi.

Hose

A 32 ft. (9.75 m.) length of 300–psi wp (20.6 bar) hose shall be provided.

Oil

There shall be 4 oz. (124 g.) of a high quality, lightweight air tool lubricating oil included.

Tool, Retainer Service

A device shall be provided to tighten and remove the Bit Retainer.

Hex key

Two hex keys shall be included for field service. One hex key shall be 7/32 in. (5.56 mm.) and the other shall be 3/16 in. (4.76 mm.)

Manual

There shall be an illustrated operation and maintenance manual included. The manual shall be written in compliance with U.S. Military requirements for commercial training manuals. The manual shall provide details on operation, field maintenance, parts list and repair.

Goggles

Hard plastic safety goggles shall be provided for safety while operating a Pneumatic Impact Tool.

Storage & Carry Case

A heavy-duty waterproof composite storage and carry case shall be provided for the Pneumatic Impact Tool System.

Driver for Neoprene Plug

A driver for a Neoprene Plug shall be provided for field service.

Neoprene Plug

A Neoprene Plug 4 in. (102 mm.) long and ¾ in. (19 mm.) to 1.5 in. (38 mm.) in diameter shall be provided.

Bits

The Pneumatic Impact Tool System shall include the following heat-treated tool steel bits with the corresponding designations and dimensions:

Designation	Dimensions
Curved metal cutter	10 in., 1 in. wide (254 mm. X 25.4 mm.)
Curved metal cutter	11 in. (280 mm.)
Heavy duty metal cutter	10 in. w/ 0.8 in. depth of cut (254 mm.)
Bullpoint	11 in. (280 mm.)
Chisel	11 in., ¾ in. wide (280 mm.)
Deep – panel cutter for metals	1.2 in. (30.5 mm.)
Deep – panel cutter w/ relief	1.1 in. (28 mm.)
Spade	20 in. x 3 in. (508 mm. X 76 mm.)
Piercing Applicator	6 in. x ¾ in. O.D. x ½ in. (152 mm. X 19 mm. X 13 mm.)
Piercing Applicator	14 in. x 1 in. O.D. x ¾ in. (346 mm. X 25.4 mm. X 19 mm.)

Coupling

The Pneumatic Impact Tool System shall contain a 1-1/2 in. (38.1 mm.) coupling for easy connection.

Warranty

The seller shall be required to furnish a warranty on the complete Pneumatic Impact Tool System as described in these specifications for the service intended of the buyer. All equipment furnished by the successful bidder shall be warranted against all defects in material and workmanship for a period of at least one year from the date of acceptance. The seller agrees to replace, without charge, any parts shown to be defective under the terms of this warranty.

Use, Care and Maintenance Manual

Seller shall provide an illustrated step-by-step guide on the use, care and maintenance of the Pneumatic Impact Tool System provided.

