

Pricing Evaluation Summary

CLIN 0001
Product

NSN: 4910-01-370-0317

Mounter/Demounter

Performance

Verification Test



Range	Year 1		Year 2		Year 3		Year 4		Year 5	
	Unit Price	Wgt.								
44-59		5%		80%		80%				80%
60-85		5%		10%		10%				10%
86-115		85%		5%		5%				5%
116-150		5%		5%		5%				5%

- Contractor's failing to bid on all years and all ranges may be disqualified.
- For evaluation purposes, the Government has weighted the ranges based on the likelihood that if an order is placed, it will be placed in that particular range. An evaluation price will be calculated by multiplying the offered prices by their respective weights and minimum quantities for each range and adding the totals for all years.
- The offeror shall indicate the brand name and model of the items proposed in the space provided. Offerors proposing to offer something other than a Hennessy Mounter/Demounter Model number 9000 shall fill in the cost of product performance verification testing in the space provided. These costs will be added to the evaluation price

BRAND NAME:

MODEL NUMBER:

**BATTLEFIELD MAINTENANCE SYSTEMS
DESCRIPTION FOR PURCHASE**

**MOUNTER-DEMOUNTER
PNEUMATIC TIRE, STATIONARY
NSN 4910-01-370-9855**

1 SCOPE

1.1 Scope. This Description for Purchase covers a stationary, power-driven, tire mouter-demounter for mounting and demounting large military truck and trailer tires.

2 APPLICABLE DOCUMENTS

2.1 Publications. The following document(s) form a part of this Description for Purchase to the extent specified herein. The issues of the documents, which are indicated as DOD adopted, shall be the issue listed in the current DODISS and the supplement thereto, if applicable.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI C1	- National Electrical Code (NFPA-70)
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(Application for copies should be addressed to the American National Standards Institute, 1430 Broadway, New York, NY 10018.)

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM D3951-98	- Standard Practice for Commercial Packaging
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(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA)

Electrical Standards MG-1	- Motors and Generators
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(Application for copies should be addressed to the National Electrical Manufacturer's Association, 155 East 44th Street, New York, NY 10017.)

2.2 Order of precedence. In the event of a conflict between the text of this Description for Purchase and the references cited herein, the text of this Description for Purchase shall take precedence.

3 REQUIREMENTS

3.1 Product conformance verification. The contractor shall provide certification and warranty that the tire mounter-demounter has been designed, constructed, inspected, and tested in accordance with the requirements of this Description For Purchase. The Government reserves the right to conduct inspection and product performance verification of the tire mounter-demounter. When specified in the contract or purchase order, one complete mounter-demounter shall be subjected to product performance verification and inspection. (See 4.3, 6.2.b.).

3.2 Design. The mounter-demounter may be of any design that meets the requirements as stated herein.

3.2.1 Material. Materials not specifically designated herein or in the contract shall be of a quality commensurate with commercial practice within the tire mounter-demounter industry. When dissimilar metals are used in contact with each other, suitable protection against galvanic corrosion shall be applied.

3.2.2 Reclaimed materials. The contractor is encouraged to use reclaimed materials for fabricating new parts without jeopardizing the chemical and physical properties, design integrity, and intent of the materials originally selected or specified. The reclaimed materials shall have been reprocessed, remanufactured, or recycled in a manner that shall restore them to the same chemical composition and physical properties as the materials originally selected for use. It shall not be permissible to use reclaimed parts as is, or rebuilt from scrap or other used equipment.

3.2.3 Measurement commonality. The US Customary System of Units (US) or the International System of Units (SI) shall be used in the design and construction of the mounter-demounter, its components, and all ancillary equipment. Whichever system of measurement the manufacturer elects to incorporate, US or SI, that system shall be incorporated throughout the mounter-demounter, its components, and all ancillary equipment. In this Description for Purchase all measurements, dimensions, sizes and capacities are given in the US Customary System of Units.

3.3 Construction. The mounter-demounter shall be complete so that, when installed or connected to the specified source of power (see 6.2), it can be used for any operation for which designed. Construction shall be free from any characteristic or defect that would prevent the mounter-demounter from performing any of the requirements specified herein. The mounter-demounter shall be constructed with lift points or shackles for sling loading. Construction shall be durable enough to sustain long term transportation in a cross-country/off-road environment.

3.3.1 Castings and forgings. All castings and forgings shall be free of surface defects. Strength and other essential properties of the castings and forgings shall meet the performance requirements specified herein.

3.3.2 Welding, brazing, and soldering. Welding, brazing, and soldering shall be of a quality which shall sustain the performance requirements of the welded, brazed, or soldered part. These operations, however, shall not be employed as repair measures for defective parts.

3.3.3 Fastening devices. All screws, pins, bolts, and similar parts shall be installed with means for preventing loss of tightness.

3.3.4 Threads. All threads shall be manufactured in accordance with the best commercial practices of the machine tool industry.

3.3.5 Gears. All gear and pinion designs, used in the mounter-demounter or its components, shall be manufactured in accordance with the best commercial practices of the machine tool industry.

3.3.6 Lubrication. All bearings (except sealed-for-life type), mating gears, and sliding parts shall be provided with standard means for lubrication. Oil holes, grease fittings, and filler caps shall be readily accessible. Lubrication reservoirs shall have means for checking levels.

3.3.7 Safety devices. Parts that are hazardous to the operator shall be guarded. Protection against electrical shock shall be provided. When specified (see 6.2), special safety devices shall be provided as required by the procuring activity. Sharp corners that present hazards shall be removed or shielded.

3.3.8 Interchangeability. All respective parts of the end item shall be interchangeable without requiring modification of the replaced part or its mating components. All parts shall be assigned a manufacturer's part number and shall be identified in the repair parts manual.

3.3.9 Surfaces. All surfaces of castings, forgings, molded parts, stampings, and welded parts shall be clean and free from sand, dirt, fins, sprues, scale, flux, and other harmful or extraneous materials. External surfaces shall be smooth and all edges shall be either rounded or beveled.

3.3.10 Painting. Painting and finishing shall be in accordance with standard commercial practice provided the following minimum criteria are met or exceeded: all surfaces to be painted shall be clean and free of all foreign matter detrimental to painting and at least one coat of primer and one coat of enamel or equivalent, applied.

3.4 Operation and Performance. The mounter-demounter shall successfully perform all operations specified herein with no more than one operator required to accomplish the tasks, in the time frame specified, with no more equipment than is to be supplied with the mounter-demounter, and with no visible damage to the mounter-demounter or the wheels and tires. The mounter-demounter shall be capable of being operated by one person with minimum training (four hours). The mounter-demounter shall successfully meet all performance requirements stated herein under its own power. It shall not require assistance from the machine operator or other personnel in the form of leverage bars or other contrivances to aid or cause the mounter-demounter to rotate and thereby accomplish lifting the bead foot completely over and off of the rim of the wheel. (This requirement does not apply to the tire irons used to lift the bead for inserting powered bead lifting tools or to other tools such as pliers that are used to hold the bead after it has been lifted.)

3.4.1 Operating time. The mounter-demounter shall completely demount and remount each tire specified herein in no more than 20 minutes for the most difficult tire, and less time for less difficult tires. The 20-minute time frame begins with a deflated tire on a wheel with the bead not yet broken, setting on the floor next to the mounter-demounter, but not touching it. The time frame ends with the reassembled wheel and tire back on the floor, not touching the mounter-demounter, the bead not yet set, and the tire ready for re-inflation. (This time frame does not include changing valve stems.)

3.4.2 Tire and wheel damage. The mounter-demounter shall successfully meet all performance requirements specified herein and shall not damage any and all wheels or tires specified herein as a result of the bead breaking and mounting-demounting operations, and removal and installation of lock rings. The mounter-demounter structure or components, except the bead-breaking disc, shall not rub against the tire. There shall be no visible evidence of damaged rubber, sidewall, bead foot, or damaged wheel parts including dents to any part of the wheel or scratches that will cause loss of air pressure. There shall be no permanent visible deformation of metal in the wheels beyond its initial manufactured state.

3.4.3 Tire and rim lubricant. Tire and rim lubricant shall be provided and delivered in two-gallon quantities with each mounter-demounter. An applicator shall be provided and a devoted resting-place for the applicator and at least one pint of lubricant shall be provided on the machine in an easily reached position. At least one refillable bottle no smaller than one pint in holding capacity shall be provided to hold the lubricant for use and shall fit the devoted storage location on the machine.

3.4.4 Tire capacity. The contractor shall provide certification and warranty that the tire mounter-demounter has been designed, constructed, inspected, and tested, in accordance with all of the requirements specified herein, and is capable of successfully mounting and demounting all tube and tubeless tires listed in the following Table for Tube and Tubeless Tires:

TUBE AND TUBELESS TIRES

VEHICLE MODEL	TIRE SIZE	TIRE TYPE	RIM TYPE
H150C & M0M02 Forklift:	8.25-15	Bias/tube, load range F	15" drop center
8 Ton and MB70 Trailers:	9.00-15 10.00R15	Bias and radial, load ranges F and C	15" drop center
M1009 Truck:	10R15LT	Radial/tubeless, load range C	15" drop center
M172A1 Trailer:	11.00X15	Radial	15" drop center
720 Dolly:	7.00-16	Bias/tube, load range D	16" drop center
750 CFM compr:	7.50-16	Bias/tube, load range E	16" drop center
M116A2 and M101A2 Trailer:	900X16 9.00R16	Bias & radial, load range D	16" drop center
M1008 Truck:	LT235/85R16	Radial/tubeless 16", E load range	16" drop center
250 CFM Compr:	9.50-16.5	Bias/tubeless, load range E	16" drop center
M794 Trailer:	12-16.5	Bias/tubeless, load range E	16.5" drop center
XM1048 Trailer:	12-16.5	Bias/tubeless, load range F	16.5" drop center
M793:	14X17.5	Bias, load range C	17.5" 2 piece rim
M1000 Trailer:	215/75R17.5	Radial/tubeless, load range C	17.5" x 6.75" drop center single piece
M989 Trailer:	15-19.5	Bias/tubeless, load range C	19.5" drop center
M747 Trailer:	15-19.5	Bias/tubeless, load range H	11.75x19.5" drop center
M747 Trailer:	445/65R19.5	Radial/tubeless load range L	11.75x19.5" drop center

VEHICLE MODEL	TIRE SIZE	TIRE TYPE	RIM TYPE
M198 Dolly:	16.5x19.5	Bias, tubeless	19.5" drop center
M100 Trailer:	750R20	Radial, load range D	20" drop center
M876 Truck"	8.25x20	Bias/tube, load range E	20" Flat base with demountable split ring
M119 Trailer:	9.00-20	Bias/tube, load range D	20" Multi-piece
Crane (10 FM):	9.00-20	Bias/tube, load range F	20" drop center
M872 Trailer:	10.00x20	Bias/tube, load range G	20" drop center
XM974 & XM871 Trailer:	11.00-20	Bias/tube, load range F	20" drop center
MT250 Crane:	11.00-20	Bias/tube, load range F	20" Three piece flat base
M819 & M246 Wreckers:	11.00x20	Bias/tube, load range H	20" Three piece flat base
F5070 Truck:	12.00-20	Bias/tube, load range H	20" Multi-piece
M878 Truck:	12.00-20	Bias/tube, load range H	20" Multi-piece
M936 Truck:	12.00-20	Bias/tube, load range G	20" Flat base with demountable split ring
SEE/HMMH:	12.5R20	Radial	20" drop center
M35, M44, M54, M39, M809 & M939 basic	9.00x20 11.00x20 12.00x20 14.00x20	Bias/tube/load ranges F, G & H	20" Flat base with demountable split ring
Water trailer WD6S:	10.00-22	Bias/tube, load range F	
M915A1 Truck:	1R22.5	Radial/tubeless, load range G	22.5" single piece
M989A1 Trailer:	15x22.5	Bias, tubeless load range H	22.5" drop center
M746 & M860A1 Truck & Trlr:	18X22.5	Bias/tubeless load ranges H and M	22.5" single piece
M866:	18-22.5	Bias/tubeless, load range H	22.5" drop center
M916/M920 Trk:	11.00-24	Bias/tube, load range G	24" single piece
250 T Crane, M123A1C, M123E2 M123C & M911:	14.00X24	Bias/tube, load ranges J and L	24" single piece

The Government reserves the right to conduct inspection and product performance verification of the tire mounter-demounter. When Government inspection and product performance verification are required, (see 6.2), the inspection and product performance verification shall be conducted in accordance with 3.4.4.1 through 3.4.4.6, 4.5 through 4.7 (inclusive).

3.4.4.1 MI98. The mounter-demounter shall successfully break the bead and demount a used Goodyear Supersingle KK95952B 16.5 - 19.5 16 Ply rated tubeless tire from the wheel used on the MI98 Howitzer. After breaking the bead and demounting the used tire, the mounter-demounter shall successfully mount a new Goodyear Supersingle KK95952B on the same rim.

3.4.4.2 M860A1. The mounter-demounter shall successfully break the bead and demount a used Goodyear XTRA DUTY ROAD LUG MD400976 from a Goodyear Rim Number 820472. The tire is 18-22.5, 22 ply rated and the assembly is normally found on a Military M860A1 Truck Tractor. In the absence of available used equipment, new wheels and tires may be used for testing purposes with the written approval of the procuring agency. After breaking the bead and demounting the used tire, the mounter-demounter shall successfully mount a new Goodyear MD400976 on the same rim.

3.4.4.3 M747. The mounter-demounter shall successfully break the bead and demount a used Firestone Tire Part Number 2F-29G-22-C-95 from either of two types of special military wheels found on the M747 Heavy Equipment Trailer. The tire is a 15-19.5, 14 ply rated. After breaking the bead and dismounting the old tire, the mounter-demounter shall successfully mount a new Firestone 2F-29G-22-C-95 on the same rim. NOTE: Due to uncontrollable circumstances, some M747 trailers may have non-standard or unauthorized tires mounted to their wheels. Check the tires for correct identification before demounting or mounting the tires.

3.4.4.4 M915A1. The mounter-demounter shall break the bead and demount a used Goodyear Tire Number 135-802-993 from a Firestone Rim Number 27404. The tire is an 11R-22.5, 14 ply rated and the rim is an 11.00 X 22.5. The wheel and tire assembly is normally found on the M915A1 truck tractor. After successfully breaking the bead and demounting this tire from this rim the mounter-demounter shall successfully mount a new Goodyear Number 135-802-993 on the same rim.

3.4.4.5 MI009. The mounter-demounter shall successfully break the bead and demount a used 10R15C on/off road tire from a General Motors wheel Number 1406337. For information purposes, the wheel is a 15 X 8.0 with six-hole lug pattern having a 5.5 inch diameter bolt circle and a .66 inch offset. After successfully breaking the bead and demounting this tire the mounter-demounter shall successfully mount a new 10R15C tire to the same wheel.

3.4.4.6 MI008. The mounter-demounter shall successfully break the bead and dismount a used LT235/85R-16E on/off road tire from a General Motors wheel Number 14035374. For information purposes, the wheel has an eight-hole lug pattern with 6.5inch diameter bolt circle and a 67 inch of offset. After breaking the bead and demounting the tire the mounter-demounter shall mount a new LT235/85R-16E on the same wheel.

3.5 Detail of components. All components and component systems of the mounter-demounter shall be designed for safe and efficient tire changing operations. The manufacturer may elect to use any system or combination of systems referenced within the specification to accomplish the required performance results.

3.5.1 Base. The base of the mounter-demounter shall be constructed of steel capable of supporting the mounter-demounter during the operations specified herein. The base shall incorporate a method for securing the mounter-demounter to the floor to retain the mounter-demounter in a stationary position during the tire mounting and demounting operation and for securing the mounter-demounter to a prime mover cargo bed.

3.5.2 Motor and drive mechanism enclosure. The mounter-demounter shall incorporate a housing to enclose the drive mechanism. The housing shall be removable or shall include removable panels to afford access to the motor and drive.

3.5.3 Wheel holding unit. The wheel holding unit, of the mounter-demounter, shall mount and retain the wheel and tire assemblies, within the capacities specified. The wheel holding unit shall hold the rim by the center hole mounting method or self-centering jaws, which position directly on the rim. Rotary type demounter shall be capable of demounting the tire in only one direction of rotation. Wheel holding units shall grip and retain the wheel by positive action such that the wheel shall not be loosened without deliberate positive action by the operator. The wheel shall not be deformed or released from the grip of the wheel holding unit if, or when, the rotation is reversed with the tool jammed between the tire and wheel such that the tool prevents the wheel and tire from rotating in the reverse direction.

3.5.4 Wheel lifting unit. The mounter-demounter shall incorporate a power lifting unit capable of lifting the wheel and tire assemblies specified in 3.4.4.1 thru 3.4.4.6 from floor level, or by means of using a ramp, from a level elevated slightly above floor level, to the demounting position and lowering the wheel and rim assembly to floor or ramp level, after removal of the tire, in such a manner that the wheel is not driven into the floor or ramp. The lifting unit shall be operated by a foot or hand control.

3.5.5 Bead breaker unit(s). The mounter-demounter shall incorporate bead breaker unit(s) for breaking the beads away from the wheel. The bead breaker unit(s) shall break the outer and inner tire beads away from the wheel rim and shall completely remove tires from drop center rims. This shall be accomplished without the necessity of repositioning the wheel assembly on the wheel holding and rotating device. The bead breaker unit(s) shall not interfere with the mounting of the wheel and tire assembly on the wheel holding unit and shall incorporate a controlled positive adjustment to securely position the bead breaker unit(s) to accommodate the tire capacities specified herein.

3.5.6 Pneumatic system(s). Mechanisms without on board compressor units and utilizing compressed air as a power source shall function and perform with no more than 15 CFM and 150 psi. Mechanisms that function and perform adequately to meet the requirements herein on less than 150 psig are also acceptable. Pneumatic pressure shall be maintained for not less than two minutes at a force of not less than 90% of operating pressure with no more than 5 psig pressure drop when the unit is pressurized and then isolated from the source of air pressure with a temporary valve placed in the air line for test purposes at the inlet coupling on the tire changer. Air hoses shall be of a proper length and design such that no kinks in the hoses shall occur during normal operation. An air supply line with connections for 15 CFM compressor shall be provided for each machine. Unless otherwise specified, the air supply line shall be not less than ten feet in length.

3.5.7 Hydraulic systems. Hydraulic system components shall be rated for three times the maximum operating pressure in the mounter-demounter. Hydraulic Systems shall operate at maximum pressure for ten minutes in a dead stall condition without damage to the pump, all other components, and with no visible leakage.

3.5.7.1 Hydraulic gages. A 2-inch or larger hydraulic gage shall be placed in easy view of the operator that accurately indicates system pressure within one percent of full scale value. The full scale value of the gage shall not exceed the maximum system operating pressure or more than one hundred percent.

3.5.8 Electrical Systems. The electrical components shall conform to applicable NEMA and ANSI Standards, unless otherwise specified herein. Connections of conductors and terminal parts

shall be of the screw, pressure, or solder type. When soldered connections are used, the conductors and terminal parts shall be mechanically secured to prevent loss of tightness. The electrical system shall operate on 5 kw or less of power.

3.5.8.1 Motor. Motors for driving the mounter-demounter shall be of sufficient horsepower to meet the requirements specified herein. Unless otherwise specified (see 6.2), the drive motor shall be an induction squirrel-cage type of a continuous-duty classification, with an ambient temperature rating of 50 degrees centigrade in conformance with NEMA MG-1, with Grade B insulation or better. Unless otherwise specified (see 6.2), the motor shall be wired to operate on 5 kw or less of power. The motor shall be protected against thermal damage from electrical overload with a manual reset protection device.

3.5.8.2 Electric power supply cable. An electric power supply cable shall be installed on each machine. Unless otherwise specified the cable shall be not less than ten feet in length and shall terminate in not less than one inch of stripped tinned wire without a receptacle plug. The cable covering shall be type SO heavy duty, in accordance with ANSI C1.

3.5.8.3 Electrical protection. The mounter-demounter's electrical circuits shall be protected against thermal overload above 50 degrees centigrade or short. The thermal overload protection device shall be manually resettable.

3.5.8.4 Power switch. An electric power on-off switch shall be provided and may include the thermal overload device.

3.5.9 Controls. Hand or foot operated controls that control the movements of the machine shall be of the "deadman" type, returning to neutral position when released, thereby stopping the movement of the machine. All controls must be within reach of the operator from one position so that mounting-demounting tires and removal and installation of run flat inserts can be accomplished from one position only.

3.6 Hand tools, wheel adapters, and attachments. The mounter-demounter shall be delivered with only those tire irons, hand tools, wheel adapters, and attachments necessary to perform tire changing including split ring removal. Tire irons, hand tools, wheel adapters, and attachments shall be kept at a minimum.

3.7 Identification marking and lubrication plates. Unless otherwise specified, (see 6.2), a corrosion-resistant metal identification plate and lubrication plate shall be permanently attached to each mounter-demounter. The identification plate shall be permanently and legibly marked in the English language and shall include the item nomenclature, National Stock Number (NSN), manufacturer's name and part number, serial number, and contract number. Lubrication plates shall include points of lubrication, service interval, type of lubricant, viscosity, and Military or Federal specification of lubricant.

3.8 Workmanship. Standards of workmanship shall assure that the mounter-demounter shall have the strength, safety, stability, and efficient operating characteristics found in standard commercial units and as specified herein.

3.9 Operation and repair parts manuals. Operation and repair parts manuals shall be furnished as specified elsewhere in the contract (see 6.2).

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection and product performance verification. Unless otherwise specified in the contract, the contractor is responsible for the inspection and product performance verification of all requirements as specified herein. Except as otherwise specified in the contract, the contractor may use his own or any other facilities suitable for the performance of the inspection and product performance verification in accordance with the requirements specified herein unless disapproved by the Government. The contractor shall provide certification and warranty that all inspection and product performance verification has been performed on the mounter-demounter in accordance with the requirements specified herein and that the mounter-demounter has successfully met all of the requirements. Failure of the contractor to provide this certification and warranty shall be cause for rejection. The Government reserves the right to perform inspection and product performance verification as set forth in the requirements of this specification where such inspection and product performance verification are deemed necessary to assure equipment and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items must meet all requirements of Sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of assuring that all products submitted to the government for acceptance comply with all requirements of the contract. Sampling for quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the government to acceptance of defective material.

4.2 Classification of inspection. The inspection requirements specified herein are classified as follows:

- a. Operational inspection (see 4.3)
- b. Quality conformance inspection (see 4.4)

4.3 Operational inspection. Inspection and product operation and performance verification shall be performed on the pre-production model(s) or initial production item(s) noted in 3.1. Inspection and product performance verification shall consist of the product examination in 4.5 and all the operational and performance verification procedures of 4.6. Failure of the mounter/demounter to pass the examination or any of the operational and performance verification procedures shall be cause for rejection.

4.4 Quality conformance inspection. Quality conformance inspection shall be applied to production units being offered for acceptance under the contract. The inspection shall consist of (a) through (f) as follows and failure of any unit to pass these examinations or verification procedures shall be cause for rejection of the unit.

- a. Product examination (4.5)
- b. Operational verification (see 4.6.1)
- c. Pressure unit leak verification (see 4.6.2)

- d. Performance verification (see 4.6.3)
- e. Jammed tool verification (see 4.6.4)
- f. Packaging inspection (see 4.7)

4.4.1 Sampling for quality conformance inspection. Sampling inspection may be performed in place of 100% inspection of each unit. Sample size shall be not less than three (3) units randomly selected from each lot of up to twenty (25) units produced. Failure of any of the units to pass any of the quality conformance inspections shall result in rejection of the lot and subsequent 100% inspection of the units in that lot.

4.5 Product examination. Visually, dimensionally, and manually examine each mounter-demounter to determine conformance with the requirements of 3.2 through 3.3.10, 3.4, 3.5, 3.5.1, 3.5.2, 3.5.7 through 3.5.9 and 3.6 through 3.9. Visual examination shall include verification of completeness of manufacture and assembly, conformance to specified standards, adequacy of markings, proper cleaning, and freedom from the identified defects. Dimensional examination includes measuring dimensions as specified. Manual examinations shall include the operation of movable parts by hand to assure proper functioning. The examination provisions may be applied at the earliest practical point in manufacturing at which it is feasible to inspect for acceptance without risk of change in the characteristic by subsequent operation. Failure of the contractor to provide objective evidence that the item and its components have passed the examinations prescribed for them by the contractor's inspection system shall be cause for rejection. In addition, failure of the contractor to provide objective evidence that all parts are manufactured to definite standards, clearances, and tolerances so that no replacement part will degrade the form, fit, or function of the end item (see 3.3.8), shall be cause for rejection.

4.6 Operational and performance verification. Failure of the mounter-demounter to pass any of the listed product operational and performance verification procedures shall be cause for rejection.

4.6.1 Operational verification. The fully assembled mounter-demounter shall be set up for operation in accordance with the manufacturer's instructions and turned on. All mounter-demounter controls shall be fully exercised to put the machine through its full range of motions, and the operation of the mounter-demounter observed for proper response.

4.6.2 Verification of pressure unit or hydraulic system. Dependent upon which design and construction method is used, the mounter-demounter shall be subjected to 4.6.2.1 or 4.6.2.2:

4.6.2.1 Pressure unit leak verification. The mounter-demounter, shall be connected in series with an air pressure gage and leak free shut off valve to a regulated source of compressed air. The air pressure gage shall be located between the shut off valve and the pressure unit(s), and the assembly shall be as direct and compact as possible to minimize the volume of air which can be entrapped between the shut off valve and pressure unit(s). The air pressure gage shall be accurate to within one percent of the reading over the range of 75 to 150 psig, or more, and readable to the nearest psig. The gage shall be calibrated. The calibration standard shall be traceable to the National Bureau of Standards. The source of compressed air shall be capable of providing regulated pressures of 0 to 150 psig, or more. With the shut off valve open, the supply pressure shall be raised to 135 psig, or more, and the shut off valve closed to entrap the compressed air in the pressure unit(s). The pressure gage shall then be observed for a period of not less than two minutes. Air leakage from any pressure unit

sufficient to cause a drop in pressure of more than five psig over the period of two minutes shall be cause for rejection (see 3.5.6).

4.6.2.2 Hydraulic system verification. For those units utilizing a hydraulic system, the system shall be operated at maximum pressure for ten minutes in a dead stall condition. There shall be no damage to the pump, or any components and there shall be no visible leakage (see 3.5.7).

4.6.3 Performance verification. The mounter-demounter shall demount and mount all tires listed in paragraphs 3.4.4.1 through 3.4.4.6. Each tire and wheel assembly shall be positioned on the machine using the wheel lifting unit (see 3.5.4) and held in place with the wheel holding unit (see 3.5.3). With the tire deflated, the bond between each bead and rim shall be broken by the bead breaker unit(s) (see 3.5.5), and the tire removed from the wheel. There shall be no visible permanent damage to the tire or wheel (see 3.4.2). After mounting, each tire shall be inflated to its rated pressure and tested for leakage. Leakage past either bead shall be considered evidence of damage. Failure of the mounter-demounter to demount and mount all tires listed in 3.4.4.1 through 3.4.4.6 without damage to itself, and without damage to the tires and wheels, shall be cause for rejection. Failure of the mounter/demounter to demount and mount each tire within the 20 minute time frame as specified in 3.4.1 shall be cause for rejection.

4.6.4 Jammed tool performance verification. The fully assembled mounter-demounter shall be set up such that a wheel and tire is mounted with the shoe inserted and partially breaking the bead. Under this condition, locking pliers, C-clamp or other device shall be attached to the wheel so that they block the shoe, preventing rotation of the wheel and tire in the reverse direction. The wheel holding unit will be reversed until contact is made with the locking pliers. Upon binding for thirty seconds, the wheel holding unit shall not loosen the wheel. Loosening of the wheel, or deformation of the wheel under this condition (see 3.5.3), shall be cause for rejection.

4.7 Packaging inspection. The mounter-demounter shall be inspected before and after packaging to determine compliance with the preservation, packaging, packing, and marking requirements as specified in Section D of the contract.

5. PACKAGING

5.1 Packaging shall be in accordance with ASTM-D-3951 and the following additional requirements.

5.2 Additional Requirements:

5.2.1 If oak or chestnut wood products are used in the performance of this contract, these wood or wood products must be free of all bark.

5.2.2 Workmanship shall be such that when proper procedure is followed, materials and equipment being processed will be provided the maximum protection against corrosion, deterioration and be suitable for storage to the level of packaging specified.

5.2.3 The Mounter-Demounter shall be palletized so that the entire mounter-demounter is supported. The pallet shall have forklift-handling features. The center of gravity and lift point shall be marked on the shipping container or crate.

5.2.4 The Mounter-Demounter shall be blocked, braced and cushioned to prevent any physical or functional damage or twisting of the machine when handled by forklift or when shipped by road, rail, sea or air.

5.2.5 The Mounter-Demounter shall be packaged to be kept clean and dry, and all accessories shipped with the machine kept immobile.

5.3 Marking requirements

5.3.1 Container markings shall be in capital letters of equal height, shall be proportionate to the available marking space and shall contain the following information in the order listed:

- a. NSN/NATO stock number.
- b. CAGE code of the company awarded the contract and part number of the item as specified in the contract.
- c. Quantity and Unit of Issue: 1 each
- d. Level of Protection and Date Packed
- e. Contract or Purchase order number
- f. Gross Weight and Cube
- g. Item description or nomenclature.
- h. Control number or Reference number (As a minimum, the Transportation Control Number (TCN) shall be provided as the single standard shipment identification number.
- i. FROM: Name and Address of consignor (DOD Activity address code (DODAAC) and in the clear address if applicable).
- j. To: Name and Address of consignee (DOD Activity address code (DODAAC) and in the clear address if applicable).
- k. Name and Address of the contractor (including nine-digit zip code). When supplies are shipped from a subcontractor, only the address of the company awarded the contract shall be used.
- l. Center of gravity and lift points.

5.3.2 In addition to the above the following shall be bar coded on the container using the 3 of 9 format in accordance with ANSI MH10.8M

- a. NSN/NATO stock number.
- b. Contract or Order number.
- c. CAGE code of the company awarded the contract.
- d. Contract Line Item Number (CLIN) if applicable.

6 NOTES

6.1 Intended use. The mounter-demounter is intended for use in base shops, field service, and maintenance shops to facilitate the changing of tires on military vehicles, and light and heavy commercial trucks and trailers.

6.2 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this Description For Purchase.

- b. Inspection and product performance verification when required (see 3.1).
- c. Special safety devices when required (see 3.3.7).
- d. Motors if different and current, voltage, Hz, and phase if different (see 3.5.8.1).
- e. Power supply cord if different (see 3.5.8.2).
- f. Painting if different (see 3.3.10).
- g. Identification marking if different (see 3.8).
- h. Operation and repair parts manuals (see 3.10).

52.212-1 Instructions to Offerors--Commercial Items.

As prescribed in 12.3 (1), insert the following provision:

INSTRUCTIONS TO OFFERORS--COMMERCIAL ITEMS (MAR 2000)

(a) Standard industrial classification (SIC) code and small business size standard. The SIC code and small business size standard for this acquisition appear in Block 10 of the solicitation cover sheet (SF 1449). However, the small business size standard for a concern which submits an offer in its own name, but which proposes to furnish an item which it did not itself manufacture, is 500 employees.

(b) Submission of offers. Submit signed and dated offers to the office specified in this solicitation at or before the exact time specified in this solicitation. Offers may be submitted on the SF 1449, letterhead stationery, or as otherwise specified in the solicitation. As a minimum, offers must show--

- (1) The solicitation number;
- (2) The time specified in the solicitation for receipt of offers;
- (3) The name, address, and telephone number of the offeror;
- (4) A technical description of the items being offered in sufficient detail to evaluate compliance with the requirements in the solicitation. This may include product literature, or other documents, if necessary;
- (5) Terms of any express warranty;
- (6) Price and any discount terms;
- (7) 'Remit to' address, if different than mailing address;
- (8) A completed copy of the representations and certifications at FAR

52.212-3 ;

- (9) Acknowledgment of Solicitation Amendments;
- (10) Past performance information, when included as an evaluation factor, to include recent and relevant contracts for the same or similar items and other references (including contract numbers, points of contact with telephone numbers and other relevant information); and

(11) If the offer is not submitted on the SF 1449, include a statement specifying the extent of agreement with all terms, conditions, and provisions included in the solicitation. Offers that fail to furnish required representations or information, or reject the terms and conditions of the solicitation may be excluded from consideration.

(c) Period for acceptance of offers. The offeror agrees to hold the prices in its offer firm for 30 calendar days from the date specified for receipt of offers, unless another time period is specified in an addendum to the solicitation.

(d) Product samples. When required by the solicitation, product samples shall be submitted at or prior to the time specified for receipt of offers. Unless otherwise specified in this solicitation, these samples shall be submitted at no expense to the Government, and returned at the sender's request and expense, unless they are destroyed during preaward testing.

(e) Multiple offers. Offerors are encouraged to submit multiple offers representing alternative terms and conditions or commercial items for satisfying the requirements of this solicitation. Each offer submitted will be evaluated separately.

(f) Late submissions, modifications, revisions, and withdrawals of offers. Offerors are responsible for submitting offers, and any modifications, revisions, or withdrawals, so as to reach the Government office designated in the solicitation by the time specified in the solicitation. If no time is specified in the solicitation, the time for receipt is 4:30 p.m., local time, at the designated Government office on the date that offers or revisions are received.

(2)(i) Any offer, modification, revision, or withdrawal of an offer received at the Government office designated in the solicitation after the exact time specified for receipt of offers is "late" and will not be considered unless it is received before award is made, the Contracting Officer determines that accepting the late offer would not unduly delay the acquisition; and--

(A) If it was transmitted through an electronic commerce method authorized in the solicitation, it was received at the initial point of entry to the Government infrastructure not later than 5:00 p.m. one working day prior to the time specified for receipt of offers; or

(B) There is acceptable evidence to establish that it was received at the Government installation designated for receipt of offers and was under the Government's control prior to the time set for receipt of offers; or

(C) If this solicitation is a request for proposals, it was the only proposal received.

(ii) However, a late modification of an otherwise successful offer, that makes its terms more favorable to the Government, will be considered at any time it is received and may be accepted.

(3) Acceptable evidence to establish the time of receipt at the Government installation includes the time/date stamp of that installation on the offer wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.

(4) If an emergency or unanticipated event interrupts normal Government processes so that offers cannot be received at the Government office designated for receipt of offers by the exact time specified in the solicitation, and urgent Government requirements preclude amendment of the solicitation or other notice of an extension of the closing date, the time specified for receipt of offers will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which normal Government processes resume.

(5) Offers may be withdrawn by written notice received at any time before the exact time set for receipt of offers. Oral offers in response to oral solicitations may be withdrawn orally. If the solicitation authorizes facsimile offers, offers may be withdrawn via facsimile received at any time before the exact time set for receipt of offers, subject to the conditions specified in the solicitation concerning facsimile offers. An offer may be withdrawn in person by an offeror or its authorized representative if, before the exact time set for receipt of offers, the identity of the person requesting withdrawal is established and the person signs a receipt for the offer.

(g) Contract award (not applicable to Invitation for Bids). The Government intends to evaluate offers and award a contract without discussions with offerors. Therefore, the offeror's initial offer should contain the offeror's best terms from a price and technical standpoint. However, the Government reserves the right to conduct discussions if later determined by the Contracting officer to be necessary. The Government may reject any or all offers if such action is in the public interest; accept other than the lowest offer; and waive informalities and minor irregularities in offers received.

(h) Multiple awards. The Government may accept any item or group of items of an offer, unless the offeror qualifies the offer by specific limitations. Unless otherwise provided in the Schedule, offers may not be submitted for quantities less than those specified. The Government reserves the right to make an award on any item for a quantity less than the quantity offered, at the unit prices offered, unless the offeror specifies otherwise in the offer.

(i) Availability of requirements documents cited in the solicitation.
(i) The GSA Index of Federal Specifications, Standards and Commercial Item Descriptions, FPMR Part 101-29, and copies of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained for a fee by submitting a request to--

GSA Federal Supply Service Specifications Section
Suite 8100, 470 L'Enfant Plaza, SW
Washington, DC 20407
Telephone (202) 619-8925
Facsimile (202) 619-8978.

(ii) If the General Services Administration, Department of Agriculture, or Department of Veterans Affairs issued this solicitation, a single copy of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained free of charge by submitting a request to the addressee in paragraph (i)(1)(i) of this provision. Additional copies will be furnished for a fee.

(2) The DOD Index of Specifications and Standards (DODISS) and documents listed in it may be obtained from the:

Department of Defense Single Stock Point (DoDSSP)
Building 4, Section D,
700 Robbins Avenue

Philadelphia, PA 19111-5094
Telephone (215) 697-2667/2179
Facsimile (215) 697-1462.

(i) Automatic distribution may be obtained on a subscription basis.

(ii) Order forms, pricing information, and customer support information may be obtained--

(A) By telephone at (215) 697-2667/2179; or

(B) Through the DoDSSP Internet site at <http://assist.daps.mil>.

(3) Nongovernment (voluntary) standards must be obtained from the organization responsible for their preparation, publication or maintenance.

(j) Data Universal Numbering System (DUNS) Number. (Applies to offers exceeding \$25,000.) The offeror shall enter, in the block with its name and address on the cover page of its offer, the annotation 'DUNS' followed by the DUNS number that identifies the offeror's name and address. If the offeror does not have a DUNS number, it should contact Dun and Bradstreet to obtain one at no charge. An offeror within the United States may call 1-800-333-0505. The offeror may obtain more information regarding the DUNS number, including locations of local Dun and Bradstreet Information Services offices for offerors located outside the United States, from the Internet home page at <http://www.customerservice@dnb.com>. If an offeror is unable to locate a local service center, it may send an e-mail to Dun and Bradstreet at globalinfo@mail.dnb.com.

(End of provision)

[65 FR 16286, March 27, 2000]

52.212-4 Contract Terms and Conditions--Commercial Items.

As prescribed in 12.301 (b)(3), insert the following clause:

CONTRACT TERMS AND CONDITIONS--COMMERCIAL ITEMS (MAY 1999)

(a) Inspection/Acceptance. The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The Government reserves the right to inspect or test any supplies or services that have been tendered for acceptance. The Government may require repair or replacement of nonconforming supplies or reperformance of nonconforming services at no increase in contract price. The Government must exercise its post-acceptance rights--

(1) Within a reasonable time after the defect was discovered or should have been discovered; and

(2) Before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

(b) Prior to offering any units for Government acceptance, the contractor shall present a report to the Government thirty days after award which provides the results of the analysis, demonstrations, examinations, and tests specified in PD-387, paragraph 4.3, entitled "verification", on a minimum of 2 each air compressors.

(c) Assignment. The Contractor or its assignee's rights to be paid amounts due as a result of performance of this contract, may be assigned to a bank, trust company, or other financing institution, including any Federal lending agency in accordance with the Assignment of Claims Act (31 U.S.C. 3727).

(d) Changes. Changes in the terms and conditions of this contract may be made only by written agreement of the parties.

(e) Disputes. This contract is subject to the Contract Disputes Act of 1978, as amended (41 U.S.C. 601-613). Failure of the parties to this contract to reach agreement on any request for equitable adjustment, claim, appeal or action arising under or relating to this contract shall be a dispute to be resolved in accordance with the clause at FAR 52.233-1, Disputes, which is incorporated herein by reference. The Contractor shall proceed diligently with performance of this contract, pending final resolution of any dispute arising under the contract.

(f) Definitions. The clause at FAR 52.202-1, Definitions, is incorporated herein by reference.

(g) Excusable delays. The Contractor shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of the Contractor and without its fault or negligence such as, acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. The Contractor shall notify the Contracting Officer in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to the Contracting Officer of the cessation of such occurrence.

(h) Invoice. The Contractor shall submit an original invoice and three copies (or electronic invoice, if authorized,) to the address designated in the contract to receive invoices. An invoice must include--

(1) Name and address of the Contractor;

(2) Invoice date;

(3) Contract number, contract line item number and, if applicable, the order number;

(4) Description, quantity, unit of measure, unit price and extended price

of the items delivered;

(5) Shipping number and date of shipment including the bill of lading number and weight of shipment if shipped on Government bill of lading;

(6) Terms of any prompt payment discount offered;

(7) Name and address of official to whom payment is to be sent; and

(8) Name, title, and phone number of person to be notified in event of defective invoice. Invoices will be handled in accordance with the Prompt Payment Act (31 U.S.C. 3903) and office of Management and Budget (OMB) Circular A-125, Prompt Payment. Contractors are encouraged to assign an identification number to each invoice.

(i) Patent indemnity. The Contractor shall indemnify the Government and its officers, employees and agents against liability, including costs, for actual or alleged direct or contributory infringement of, or inducement to infringe, any United States or foreign patent, trademark or copyright, arising out of the performance of this contract, provided the Contractor is reasonably notified of such claims and proceedings.

(j) Payment. Payment shall be made for items accepted by the Government that have been delivered to the delivery destinations set forth in this contract. The Government will make payment in accordance with the Prompt Payment Act (31 U.S.C. 3903) and Office of Management and Budget (OMB) Circular A-125, Prompt Payment. If the Government makes payment by Electronic Funds Transfer (EFT), see 52.212-5(b) for the appropriate EFT clause. In connection with any discount offered for early payment, time shall be computed from the date of the invoice. For the purpose of computing the discount earned, payment shall be considered to have been made on the date which appears on the payment check or the specified payment date if an electronic funds transfer payment is made.

(k) Risk of loss. Unless the contract specifically provides otherwise, risk of loss or damage to the supplies provided under this contract shall remain with the Contractor until, and shall pass to the Government upon:

(1) Delivery of the supplies to a carrier, if transportation is f.o.b. origin; or

(2) Delivery of the supplies to the Government at the destination specified in the contract, if transportation is f.o.b. destination.

(l) Taxes. The contract price includes all applicable Federal, State, and local taxes and duties.

(m) Termination for the Government's convenience. The Government reserves the right to terminate this contract, or any part hereof, for its sole convenience. In the event of such termination, the Contractor shall immediately stop all work hereunder and shall immediately cause any and all of its suppliers and subcontractors to cease work. Subject to the terms of this contract, the Contractor shall be paid a percentage of the contract price reflecting the percentage of the work performed prior to the notice of termination, plus reasonable charges the Contractor can demonstrate to the satisfaction of the Government using its standard record keeping system, have resulted from the termination. The Contractor shall not be required to comply with the cost accounting standards or contract cost principles for this purpose. This paragraph does not give the Government any right to audit the Contractor's records. The Contractor shall not be paid for any work performed or costs incurred which reasonably could have been avoided.

(n) Termination for cause. The Government may terminate this contract, or any part hereof, for cause in the event of any default by the Contractor, or if the Contractor fails to comply with any contract terms and conditions, or fails to provide the Government, upon request, with adequate assurances of future performance. In the event of termination for cause, the Government shall not be liable to the Contractor for any amount for supplies or services not accepted, and the Contractor shall be liable to the Government for any and all rights and remedies provided by law. If it is determined that the Government improperly

terminated this contract for default, such termination shall be deemed a termination for convenience.

(o) Title. Unless specified elsewhere in this contract, title to items furnished under this contract shall pass to the Government upon acceptance, regardless of when or where the Government takes physical possession.

(p) Warranty. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

(q) Limitation of liability. Except as otherwise provided by an express or implied warranty, the Contractor will not be liable to the Government for consequential damages resulting from any defect or deficiencies in accepted items.

(r) Other compliances. The Contractor shall comply with all applicable Federal, State and local laws, executive orders, rules and regulations applicable to its performance under this contract.

(s) Compliance with laws unique to Government contracts. The Contractor agrees to comply with 31 U.S.C. 1352 relating to limitations on the use of appropriated funds to influence certain Federal contracts; 18 U.S.C. 431 relating to officials not to benefit; 40 U.S.C 327, et seq., Contract Work Hours and Safety Standards Act; 41 U.S.C. 51-58, Anti-Kickback Act of 1986; 41 U.S.C. 265 and 10 U.S.C. 2409 relating to whistle blower protections; 49 U.S.C 40118, Fly American; and 41 U.S.C. 423 relating to procurement integrity.

(t) Order of Precedence. Any inconsistencies in this solicitation or contract shall be resolved by giving precedence in the following order:

- (1) The schedule of supplies/services.
- (2) The Assignments, Disputes, Payments, Invoice, Other Compliances, and Compliance with Laws Unique to Government Contracts paragraphs of this clause.
- (3) The clause at 52.212-5 .
- (4) Addenda to this solicitation or contract, including any license agreements for computer software.
- (5) Solicitation provisions if this is a solicitation.
- (6) other paragraphs of this clause.
- (7) The Standard Form 1449.
- (8) other documents, exhibits, and attachments.
- (9) The specification.

(End of clause)

[64 FR 10542, March 4, 1999]

PART 1 SECTION D

PACKAGING

National Stock Number (NSN): 4910-01-370-9855

MOUNTER AND DEMOUNTER, PNEUMATIC, STATIONARY, TYPE I

Preservation/Packaging/Packing shall be in accordance with U.S. Army TACOM-ARDEC Battlefield Maintenance Systems Description for Purchase DFP-401, entitled "Mounter and Demounter, Pneumatic Tire, Stationary," Dated 20 FEB 2001.

DOCUMENT SUMMARY LIST

Item: TIRE MOUNTER/DEMOUNTER
NSN: 4910-01-370-9855
Control Number/PRON: T40TAEX4

Identifies all first tier documents (cited in SOW) (applicable DIDs). Also included are all referenced documents (2nd, (includes DID block 10 references), 3rd and lower tier) which have been tailored.

DOCUMENT CATEGORY:

CATEGORY 0 - Unless otherwise specified in the solicitation, contract, or contract modifications, all documents are for guidance and information only.

CATEGORY 1 - The requirements contained in the directly cited document are contractually applicable to the extent specified. All referenced documents are for guidance and information only.

CATEGORY 2 - The requirements contained in the directly cited document and the reference documents identified in the directly cited document are contractually applicable to the extent specified. All subsequently referenced documents are for guidance and information only.

CATEGORY 3 - Unless otherwise specified in the solicitation, contract or contract modification, all requirements contained in the directly cited document and all reference and subsequently referenced documents are contractually applicable to the extent specified.

Document Number (Contract Reference) Applicable Tailoring	Document Title	Document Date/ Document Category
1a. MIL-STD-2549 Table DIP 4-1	Configuration Management Data Interface	30 Jun 97 Cat 2
1b. DI-CMAN-81554 (seq A001)	Configuration Change Control Data Information Packet	30 Jun 97 Cat 2
2. ANSI/ISO/ASQC Q9002 or equivalent	Model for Quality Assurance in Production, Installation & Servicing	18 Jul 94