

CHICAGO TRANSIT AUTHORITY

DETAIL SPECIFICATION FOR

SERVICE, PARTS, MAINTENANCE, CALIBRATION, & SUPPORT; SIMMONS MACHINE WHEEL PRESS, WHEEL BORE, AND WHEEL TRUING MACHINE

CTA SPECIFICATION NO. 8366-18

1. SCOPE

- 1.1. This specification will detail the requirements for a Contractor to provide service, parts, maintenance, calibration, and support for a Simmons wheel press, wheel bore, and wheel lathe used for various maintenance operations of rapid transit railcars at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

- 2.1. Simmons Machine Tool Corporation developed and designed the electrical, hydraulic, and mechanical systems of the wheel press, wheel bore, and wheel lathe currently owned by the CTA.
- 2.2. The wheel press and wheel bore systems are located at the CTA's Skokie Heavy Maintenance Shop and the wheel lathe system is located at the CTA's Midway facility.
- 2.3. Contractor shall provide the following items for the systems described in this specification.

Equipment Service
Replacement Components and Parts
Factory Specified Maintenance
Technical Support

3. DETAIL REQUIREMENTS - REPLACEMENT COMPONENTS & PARTS

- 3.1. When required, Contractor shall only furnish factory new, genuine, original equipment manufacturer (OEM) replacement components and parts for a given Simmons system. Any deviation to the requirement stated in this section shall first be approved in writing by an applicable CTA Manager.
- 3.2. All replacement components or parts shall be furnished in their OEM packaging and come with the standard OEM factory warranty against any potential defect in material or workmanship.

- 3.3. All existing components and parts replaced by the Contractor in a given Simmons system shall be given to the applicable CTA Manager for disposition.
- 3.4. Contractor labor used to install a given replacement component or part in a given Simmons system shall have a minimum one (1) year warranty on workmanship.
- 3.5. The CTA shall inform the Contractor of all applicable CTA Manager names, phone numbers, e-mail addresses, etc. after award of contract for the purpose of scheduling the maintenance tasks.
- 3.6. Contractor shall furnish all tools, equipment, and labor necessary in order to perform the required maintenance tasks on a given Simmons system.
- 3.7. If required, CTA will furnish the following usual and customary utility services for Contractor personnel to perform maintenance work on a given Simmons system.

120 VAC, Single Phase, 60 Hz, Grounded Electrical Power Receptacles
Refuse Bin / Wastebasket
Typical Shop Area Overhead Lighting

- 3.8. Contractor shall properly dispose of all rubbish and waste generated per all applicable regulations. Spent coolant and contaminants are included in this requirement.
- 3.9. Contractor personnel shall abide by all CTA safety and security procedures and practices. This includes, but not necessarily limited to, displaying of a CTA issued visitor's pass while on CTA property.
- 3.10. All invoices issued by the Contractor to the CTA shall be fully itemized.
- 3.11. Contractor personnel performing service work a given Simmons system shall have a minimum of two (2) years servicing experience on the equipment brands mentioned in Section 2 of this specification.

4. DETAIL REQUIREMENTS – FACTORY SPECIFIED MAINTENANCE

- 4.1. Contractor shall perform preventative maintenance work on a given Simmons system as agreed upon by CTA and Simmons.
- 4.2. Maintenance work shall be performed between the hours of 7:00 am to 3:30 pm, Central Standard Time, not including Saturdays, Sundays, or Holidays, unless agreed upon otherwise by the Contractor and the applicable CTA Manager.
- 4.3. Contractor personnel performing the maintenance tasks on a given Simmons system shall have a minimum of two (2) years servicing experience on the equipment brands mentioned in Section 2 of this specification.

- 4.4. Contractor personnel performing given maintenance tasks on a given Simmons system shall provide proper paperwork to the applicable CTA Manager legibly showing the equipment maintenance tasks that were performed prior to leaving CTA property.
- 4.5. Contractor personnel shall inform the applicable CTA Manager of any observed equipment abnormality when performing the scheduled maintenance tasks on a given Simmons system.
- 4.6. After all required maintenance work has been performed by the Contractor on a given Simmons system, the given system shall perform to factory specifications.
- 4.7. The quality of workmanship on the maintenance work performed by the Contractor shall be to the satisfaction of the applicable CTA Manager.
- 4.8. After all required preventative maintenance work has been performed by the Contractor on a given Simmons system, the system shall perform to factory specifications.

5. DETAIL REQUIREMENTS – EQUIPMENT SERVICE; UNSCHEDULED/EMERGENCY

- 5.1. Contractor shall perform service work to a given Simmons system as directed by the CTA.
- 5.2. Contractor shall be able to accept a request for service work by the CTA and perform service work during the hours of 7:00 am to 3:30 pm, Central Standard Time, not including Saturdays, Sundays, or Holidays, unless agreed upon otherwise by the Contractor and the applicable CTA Manager.
- 5.3. After receiving a request for service, Contractor shall be on-site and investigating a given Simmons system within twenty-four (24) hours, not including Saturdays, Sundays, or Holidays.
- 5.4. Contractor shall furnish all tools, equipment, and labor necessary in order to perform the required repair work on a given Simmons system.
- 5.5. Contractor shall follow all applicable factory issued service procedures and technical service bulletins issued on a given Simmons system and shall inform the applicable CTA Manager of any factory technical service bulletins, revisions, upgrades, etc. issued on a given Simmons system being serviced.
- 5.6. All existing components and parts replaced by the Contractor in a given Simmons system shall be given to the applicable CTA Manager for disposition.
- 5.7. All service work by the Contractor on a given Simmons system shall be done on-site. If off-site service work is required, Contractor shall first obtain written permission from the applicable CTA Manager before any Simmons system component is removed from CTA property.

- 5.8. All service work performed by the Contractor on a given Simmons system shall come with a minimum one (1) year warranty on workmanship.
- 5.9. The quality of workmanship on the service work performed by the Contractor shall be to the satisfaction of the applicable CTA Manager.
- 5.10. After any service work has been completed by the Contractor, the applicable Simmons system shall perform to factory specifications.
- 5.11. CTA will furnish the Contractor the following usual and customary utility services for the Contractor's on-site service work on a given Simmons system if requested.

120 VAC, Single Phase, 60 Hz, Grounded Electrical Power Receptacles
Refuse Bin / Wastebasket for Appropriate Rubbish
Typical Shop Area Overhead Lighting

6. DETAIL REQUIREMENTS - TECHNICAL SUPPORT

- 6.1. Contractor, or Contractor's authorized agent, shall be available for no-cost, basic technical support services on the brands of equipment or their equivalent mentioned in Section 2 (General Information) of this specification.
- 6.2. Contractor, or Contractor's authorized agent, shall be able to accept requests for no-cost, basic technical support services via phone or e-mail during the hours of 7:00 am to 3:30 pm, Central Standard Time, not including Saturdays, Sundays, or Holidays.
- 6.3. Contractor, or Contractor's authorized agent, shall respond back within four (4) hours after receiving a given request for no-cost, basic technical support services, not including Saturdays, Sundays, or Holidays.

7. MAINTENANCE/EQUIPMENT SERVICES – TASKS

- 7.1. The Contractor shall provide maintenance/equipment services for the Simmons machine wheel bore that shall consist of, but not necessarily be limited to, the following tasks:
 - Testing flatness of table parallels
 - Boring bar tool tip alignment
 - Chuck-jaw plane test
 - Chuck-jaw radial
 - Screw to nut inspection
 - Screw end play inspection
 - Bore taper testing
 - Bottom bushing adjustment

- Operational cycling

7.2. The Contractor shall provide maintenance/equipment services for the Simmons machine wheel press that shall consist of, but not necessarily be limited to, the following tasks:

- Check hoses and electrical lines are free of twist and chafing over entire range of operation after start-up.
- Check all hydraulic connections are properly tightened, aligned, and secured.
- Check hydraulic pump and system are properly supported and fastened.
- Moving abutment and tie bars are properly aligned.
- Swinging yoke, tooling, and ram extensions are properly aligned and operate smoothly.
- Wheel elevators operate smoothly and evenly.
- Check all movable components for freedom of movement without binding.
- Pneumatic system for ram extensions operating smoothly and without leaks.
- All terminals, operator devices, switches and solenoids properly tagged.
- Machine, motors, and all cabinets properly grounded.
- All circuits fused with proper class and rated fuses.
- All transformers and motors properly connected.
- All wire terminal connections tight and properly insulated.
- All sealtight connectors supplied with sealing rings and fully tightened.

7.3. The Contractor shall provide maintenance/equipment services for the Simmons wheel truing machine that shall consist of, but not necessarily be limited to, the following tasks:

- Test pump pressure, chuck pressure, burnish pressure, lube tank.
- Test head stock (center, center runout, axle on bearing journal).
- Test tail stock (center, center runout, axle on bearing journal).
- Visual and audible check of spindle, carriages, burnish rollers, oil tank levels.
- Cutting tests

7.4. All maintenance/service tasks shall be presented to the CTA prior to any services performed by the Contractor.

7.5. At the conclusion of the maintenance/equipment service the Contractor shall provide to the CTA representative a detailed, itemized report that includes, but not necessarily be limited to:

- All repairs made.
- Procedures and tests conducted, and test readings performed and recorded.
- All results of test performed including the results of any audible testing performed.
- Parts (part description, part number, quantities) repaired or replaced.
- Cost estimate of suggested or recommended for future work.

8. CONTRACTOR QUALIFICATIONS

- 8.1. Contractor is to be a legitimate business entity involved in performing maintenance and service work for the past five (5) years minimum on Simmons systems. Contractor shall state in their bid response package, or within five (5) days if so requested by the CTA, that the requirement presented in this section has been met.
- 8.2. Contractor is to be factory authorized, factory certified, or factory approved to perform maintenance and service work on the brands of Simmons system components mentioned in Section 2 of this specification. Contractor shall state in their bid response package, or within five (5) days if so requested by the CTA, that the requirement presented in this section has been met.
- 8.3. The Contractor shall be responsible for meals and lodging incurred in the performance of a given CTA contract.

9. ADDITIONAL INFORMATION FOR POTENTIAL CONTRACTORS

- 9.1. Potential Contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential Contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential Contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

DISTRIBUTION: Sr. Mgr., Rail Technical Services
Mgr., Rail Maintenance

BB/bb - Initial Specification - 12/01/15
BB, LB/bb - 2nd Revision - 12/23/15
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