



**FURNISHING OF NEW LEVELING ACTUATOR ASSEMBLIES,
USED ON RAPID TRANSIT RAIL CARS**

1. SCOPE

1.1 This specification describes the requirements for a Contractor to furnish and deliver new, complete Leveling Actuator assemblies originally manufactured by the Liebherr Corporation, to be used for the replacement of assemblies found to be defective and non-repairable during the course of Chicago Transit Authority (CTA) rail car maintenance operations.

2. GENERAL INFORMATION..... 2

2.1 DEFINITIONS N/A 2

2.2 ACRONYMS 2

2.3 APPLICABLE INFORMATION 2

3. DELIVERABLES 2

3.1 PRE-AWARD 2

3.2 POST-AWARD..... 2

4. CHICAGO TRANSIT AUTHORITY CONTRACT REQUIREMENTS..... 3

4.1 QUALITY CONTROL AND ASSURANCE..... 3

4.2 CONTRACTOR REQUIREMENTS 3

4.3 DETAILED REQUIREMENTS 4

4.4 PERFORMANCE REQUIREMENTS N/A..... 5

4.5 SAFETY REQUIREMENTS N/A 5

4.6 WARRANTY INFORMATION..... 5

4.7 DELIVERY, STORAGE, HANDLING 5

4.8 APPROVED AND NON-APPROVED ITEM INFORMATION 6

4.9 ADDITIONAL INFORMATION FOR POTENTIAL CONTRACTORS..... 6

5. CHICAGO TRANSIT AUTHORITY CONTRACT WORK INSTRUCTIONS N/A 6

5.1 INSTALLATION N/A..... 6

5.2 TESTING AND COMMISSIONING N/A 6

5.3 FINAL INSPECTION N/A 6

5.4 FINAL ACCEPTANCE N/A..... 6

5.5 DEMOLITION, STORAGE, AND REMOVAL N/A 6

6. APPENDIX N/A 6



**FURNISHING OF NEW LEVELING ACTUATOR ASSEMBLIES,
USED ON RAPID TRANSIT RAIL CARS**

2. GENERAL INFORMATION

2.1 ACRONYMS

2.1.1 CTA: Chicago Transit Authority

2.1.2 OEM: Original Equipment Manufacturer

2.1.3 QMS: Quality Management System

2.2 APPLICABLE INFORMATION

2.2.1 The version of a standard, code, statute, or guideline referenced herein that is current on the date of Contract award must apply.

2.2.2 Sections that are “Not Applicable” to this specification are indicated as “N/A.”

3. DELIVERABLES

3.1 PRE-AWARD

3.1.1 The potential Contractor must provide the following items with its bid or within five (5) business days of CTA’s request:

- a. Documentation: Contractor’s experience furnishing and delivering the assemblies detailed in this specification (see paragraph 4.2.1).
- b. Documentation: Contractor’s references (see paragraph 4.2.2)
- c. Documentation: Manufacturer’s QMS meets the requirements detailed in this specification (see paragraph 4.1)

3.2 POST-AWARD

3.2.1 The Contractor must provide the following items within five (5) business days of CTA’s request:

- a. Testing Reports
- b. Inspection Reports

3.2.2 The Contractor must maintain stock levels that are readily available in the continental United States for a minimum of three (3) years.



**FURNISHING OF NEW LEVELING ACTUATOR ASSEMBLIES,
USED ON RAPID TRANSIT RAIL CARS**

3.2.3 Upon award of a Contract, the product must be identical to the item that was proposed to and approved by the CTA. Any deviations must first be submitted in writing and approved in writing by an applicable CTA Manager.

4. CHICAGO TRANSIT AUTHORITY CONTRACT REQUIREMENTS

4.1 QUALITY CONTROL AND ASSURANCE

4.1.1 Quality Control

4.1.1.1 The Manufacturer of the Leveling Actuator Assemblies must have an established industry defined Quality Management System (QMS), which provides specific performance and control operating procedures for materials and workmanship.

4.1.2 Quality Assurance

4.1.2.1 The Manufacturer of the Leveling Actuator Assemblies is responsible for all inspection requirements prior to submission to CTA. The CTA reserves the right to perform any additional inspections required to assure conformity to the requirements contained within this specification.

4.1.2.2 The Manufacturer's QMS must incorporate, but not necessarily be limited to, the following:

- a. Action criteria that will be used to identify "out of control" production by the control charts.
- b. Properties to be measured and inspected and the testing frequencies must be stated by the Manufacturer.
- c. Procedures to follow when the product is deemed unsatisfactory must be listed.
- d. The Manufacturer's QMS must state the titles/positions of the individuals or persons in charge of correcting any possible unsatisfactory product.

4.2 MANUFACTURER REQUIREMENTS

4.2.1 The Manufacturer of the Leveling Actuator Assemblies must be a professional business entity with at least five (5) years' experience furnishing and delivering Leveling Actuator Assemblies specified in this specification. The CTA requires documentation meeting the requirements of this specification with the bid response package, or within five (5) business days of the CTA request.



**FURNISHING OF NEW LEVELING ACTUATOR ASSEMBLIES,
USED ON RAPID TRANSIT RAIL CARS**

4.2.2 The Manufacturer must furnish in the bid response package a list of three (3) references, including the name of the company, contact name and phone number, of Leveling Actuator Assemblies have been furnished within the last two (2) years. The CTA requires documentation meeting the requirements of this specification with the bid response package, or within five (5) business days of CTA's request.

4.3 DETAILED REQUIREMENTS

4.3.1 Complete, assembled, Leveling Actuator Assemblies must be equal in fit, form, and function to the units manufactured by the Liebherr Corporation and must be ready to install, requiring only mounting and connection of hydraulic lines from the rail car.

4.3.1.1 Leveling Actuators Assemblies Part Information

- a. CTA Lot no. 4530026
- b. Liebherr Part number: 4563A0000-02
- c. Article number: 11036195

4.3.2 Each Leveling Actuator Assembly must be shipped with all hydraulic port connections capped or plugged to prevent entry of foreign matter.

4.3.3 Leveling Actuator assembly must include the latest approved modification per Liebherr Document No. 91853-MOD-1001 which serves as locking mechanism between the Guide Bushing (CTA Lot no. 4530313) and the Backup Cylinder (CTA lot no. 4530277). The approved modification must include the Dowel Pin with CTA lot no. 1320019 and Snap Ring with CTA lot no.1320018.

4.3.4 Bench testing is required per CTA Series 5000 Rail Car Maintenance Manual, which includes the required acceptance test procedure L-4563-ATP-0003 and the acceptance test report L-4563-ATR-0003.

4.3.5 Each Leveling Actuator assembly must be shipped with a Test Report per test procedure L-4563-ATR-0003. An electronic version of Test Report L-4563-ATR-0003 must be submitted to the applicable CTA Manager at the time of delivery of each Leveling Actuator Assembly. Each Test Report L-4563-ATR-0003 must include the Leveling Actuator Assembly's Serial Number and the date of testing.



**FURNISHING OF NEW LEVELING ACTUATOR ASSEMBLIES,
USED ON RAPID TRANSIT RAIL CARS**

4.3.6 Each Leveling Actuator Assembly furnished must have the following information permanently and legibly shown on a label attached to the Leveling Actuator Assembly's external housing and easily visible and accessible:

- a. Full Manufacturer's name and address.
- b. Manufacturer's part number.
- c. Manufacturer's serial number.
- d. Manufacturer's final production date.

4.4 WARRANTY INFORMATION

4.4.1 The Leveling Actuators assemblies must carry a warranty to be free from defects in material and workmanship for the specified warranty period.

4.4.2 The Contractor agrees to promptly correct by repair or replacement any defect or failure of compliance that may develop within the warranty period. Any part or component replaced under this warranty extends the original warranty an additional warranty period for that part or component replaced. See warranty information in the Special Conditions. Any warranty information in the special conditions will prevail.

4.5 DELIVERY, STORAGE, HANDLING

4.5.1 Each shipment of the product(s) furnished by the Contractor to the CTA under this specification must include a complete packing list. Each packing list provided must include, but not necessarily be limited to, the following information:

- a. Description of Product(s).
- b. Quantity.
- c. Manufacturer's Name & Part Number.
- d. CTA Item Number (If applicable).
- e. CTA Purchase Order Number (If applicable).
- f. CTA Release Number (If applicable).

4.5.2 Failure by the Contractor to furnish a complete packing list for a given product(s) may result in rejection of shipment and/or delay in payment.

4.5.3 All products furnished by the Contractor must be appropriately packaged in a temporary protective covering, box or wrap, prior to shipping to ensure protection from damage during shipping, handling, and storage operations. When applicable,



**FURNISHING OF NEW LEVELING ACTUATOR ASSEMBLIES,
USED ON RAPID TRANSIT RAIL CARS**

product(s) must be placed atop a pallet or pallets made of wood or polymer material.

4.5.4 Packaging must be clearly labeled with the original Manufacturer's name/logo, product identification and model or part number.

4.5.5 The Contractor must maintain all applicable labels, in conformance with Federal, State, and Local regulations, on each storage container. Markings must include but are not limited to, warnings of hazards, storage instructions, handling precautions, shelf life expiration date, and instructions to be followed in the event of contact with the container contents.

4.6 APPROVED AND NON-APPROVED ITEM INFORMATION

4.6.1 The Contractor must only furnish and deliver CTA approved items under the terms of a given Contract. Should a potential Contractor wish to offer for CTA consideration an alternate item not currently approved, the potential Contractor may coordinate the delivery of a sample to be tested with the Procurement Administrator or Buyer. The CTA's User-Group approval will be final.

4.6.2 The time required for reviewing and/or testing each item offered will vary and depend on the applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future Contract.

4.7 ADDITIONAL INFORMATION FOR POTENTIAL CONTRACTORS

4.7.1 Potential Contractors requiring any additional information must contact the CTA Procurement Administrator or Buyer listed 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 in violation of the provisions set forth in the Contract Documents.



**FURNISHING OF NEW LEVELING ACTUATOR ASSEMBLIES,
USED ON RAPID TRANSIT RAIL CARS**

DISTRIBUTION LIST:

Sr. Mgr., Engineering & Technical Services – Rail

REVIEWER / Writer(s):

CJ, BB/bb – Initial Specification – 04/24/23