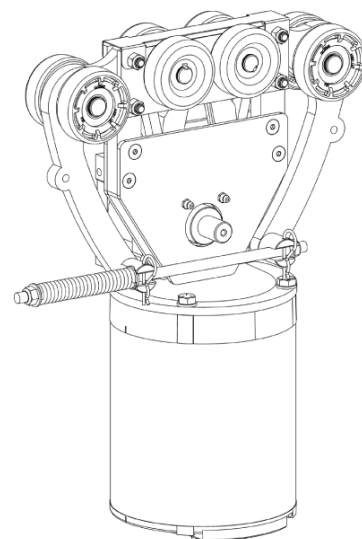
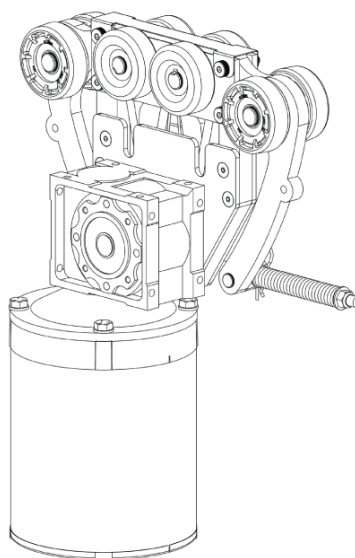


Work Station Crane Tractor Drive

Installation, Operation & Maintenance Manual



Part Number: MAN-US079-R00 Released 7/2026
Find manual updates at:
<https://www.gorbel.com/service-support/archived-installation-manuals>



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Gorbel® Customer Order No. / Serial No.

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 General Arrangement Drawing

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Questions? Concerns? Comments? Please call (800) 821-0086 (US and Canada).

INTRODUCTION

Thank you for choosing Gorbel® Work Station Crane Tractor Drives to solve your material handling needs. The innovative design and heavy duty construction of the Gorbel® Tractor Drive will provide a superior quality product that will offer years of long term value. Gorbel® Work Station Crane Tractor Drives will provide many years of dependable service by following the installation and maintenance procedures described herein.

Normal safety precautions: These include, but are not limited to:

- Checking for obstructions in crane travel
- Checking that all bolts and threaded rods are tight and have lock washers
- Making sure that end stops are in place
- Making sure that festooning cannot be snagged or pinched, whether it is electric or pneumatic

For additional safety precautions, see page 8.

WARNING

Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein can result in serious bodily injury and/or property damage. Check State and Local regulations for any additional requirements.

WARNING

Crane cannot be utilized as a ground: A separate ground wire is required. For example, systems with three phase power require three conductors plus one ground wire.

WARNING

Reference the American Institute of Steel Construction (AISC) Manual of Steel Construction, Specification for Structural Joints using ASTM A325 or A490 Bolts for the proper procedures to follow when using any torque-tightening method.

WARNING

Unless otherwise specifically stated, Gorbel® parts and products are designed for indoor use. Storing and/or using your items outside (even if covered), exposed to the elements, or in any method other than intended, may void all or some of the product warranty. Always store Gorbel® parts and products indoors, in a cool and dry area.

INSTALLATION

STEP 1 - PRE-ASSEMBLY

➡ **TIP:** Packing list can be found in plastic sleeve in hardware box: Tractor Drive General Arrangement Drawing and additional literature can be found enclosed in this installation manual.

Read entire installation manual **before** you begin installing your tractor drive.

- 1.1 Check packing list to make sure **correct quantity** of parts is included.
- 1.2 Tools and materials (by others) typically needed to assemble tractor drive are as follow:
 - Hand tools
 - Ladders/man lifts
 - Torque wrench (able to torque up to 30 ft.-lb.)

STEP 2 - VERIFY THE TRACTOR DRIVE ASSEMBLY

- 2.1 Verify that your drive matches your rail. The Tractor Drive comes in two versions, "Standard" and "Fast". The Tractor Drive will be labeled (See Diagram 2A) with the crane location (Bridge or Trolley) and the rail series (1000 or 2000/4000) and the version type (S=Standard, F=Fast). In addition, the 1000lb units have a notch on the arms as highlighted in Diagram 2B. The 2000lb units do not have a notch.

Label P/N:
S/N 12521
**BRIDGE
1000S**
Diagram 2A.
Tractor Drive label

- 2.2 The two versions of the Tractor Drive vary only based on the speed requirements. "Standard" drives have a recommended working speed range of 19-57fpm and the data plate on the reducer will indicate a 20:1 ratio. "Fast" drives have a recommended working speed range of 38-114 fpm and the data plate on the reducer will indicate a 10:1 ratio. On fully driven systems, bridges and trolleys are not required to use the same drives, i.e. the bridge can be fast and the trolley can be standard.

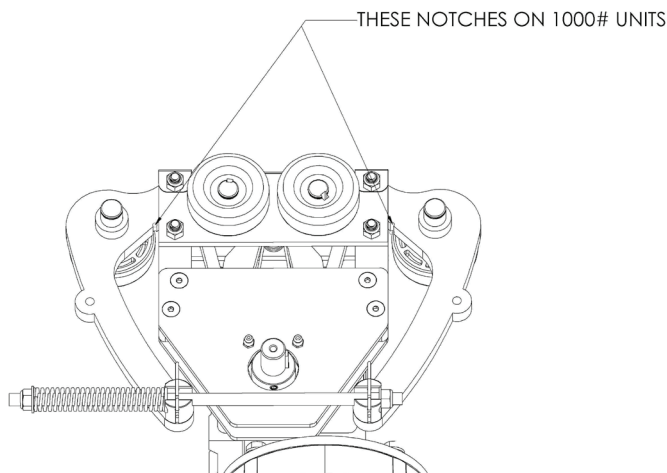


Diagram 2B. Notches on 1000lb unit.

STEP 3 - END TRUCK/TROLLEY BRACKET INSTALLATION

➡ **TIP:** Note the orientation of the wheels prior to disassembly so that they can be reinstalled properly.

- 3.1** Remove the two wheels on the end of the hoist trolley on which you are going to mount the tractor drive bracket. The wheels are held onto the axle by retaining rings. Keep the retaining rings to reassemble the wheels after mounting the bracket. Removal of the wheels should not be required when mounting the bracket to an end truck.

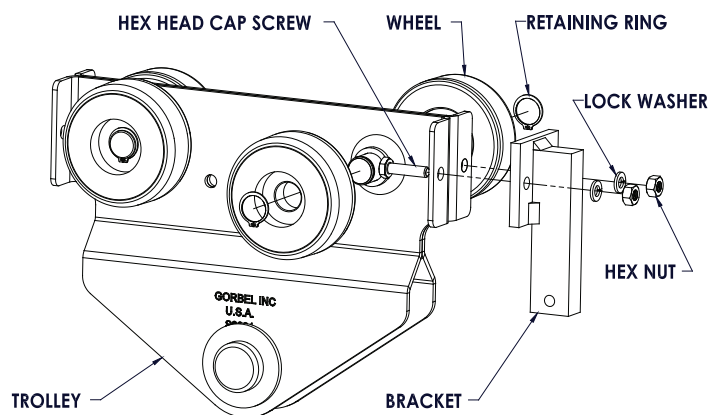


Diagram 3A. Hoist Trolley/End Truck Bracket Mounting.

- 3.2** Align the mounting holes of the End Truck/Trolley Bracket with the mating holes in the the hoist trolley/end truck. Ensure the bracket is in the orientation shown in **Diagram 3A**.
- 3.3** Install the mounting hardware furnished and torque per the torque code chart on page 7.
- 3.4** Reassemble the two wheels onto the axles and reinstall in the retaining rings. Use caution to ensure that the wheels are assembled in the same orientation as the two wheels which are already on the hoist trolley. Ensure that the retaining rings are fully seated in the grooves on the axles.

Extended End Trucks

- 3.5** If field installing a tractor drive to an existing extended end truck, 13/32" diameter holes are required. Drill holes, as shown in **diagram 3B**, 1" from end of extension tube for 2" wide tubes (1000 series) and 1-1/2" from end for 3" wide tubes (2000 and 4000 series).

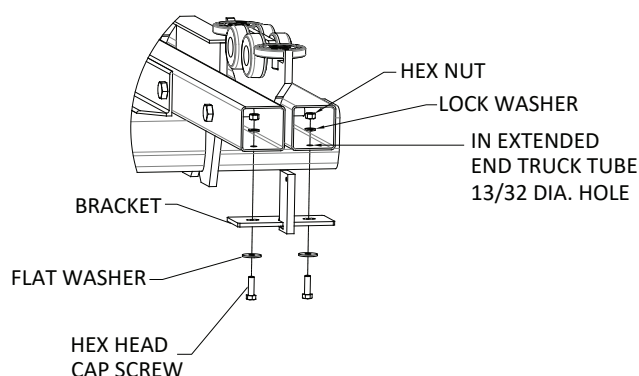


Diagram 3B. Extended End Truck Mounting Bracket.

- 3.6** Align the mounting holes of the extended end truck bracket with the mating holes in the extended end truck extension tubes. Ensure the bracket is in the orientation shown in **diagram 3B**.
- 3.7** Install the mounting hardware and torque per the torque code chart on page 7.

STEP 4 - TRACTOR DRIVE INSTALLATION

WARNING

Do not allow arms to swing open further than shown (Diagram 4B). Use of zip ties or other means to restrain arms is recommended.

- 4.1** Remove cotter pins and spring/rod assembly. Reference **diagram 4A**. Install the tractor drive assembly into the enclosed track. Once in position, reinstall spring/rod (reference diagram 4A). Ensure the washer is between the spring and the clevis. The spring/rod can be oriented in either direction to avoid festooning or other obstacles.

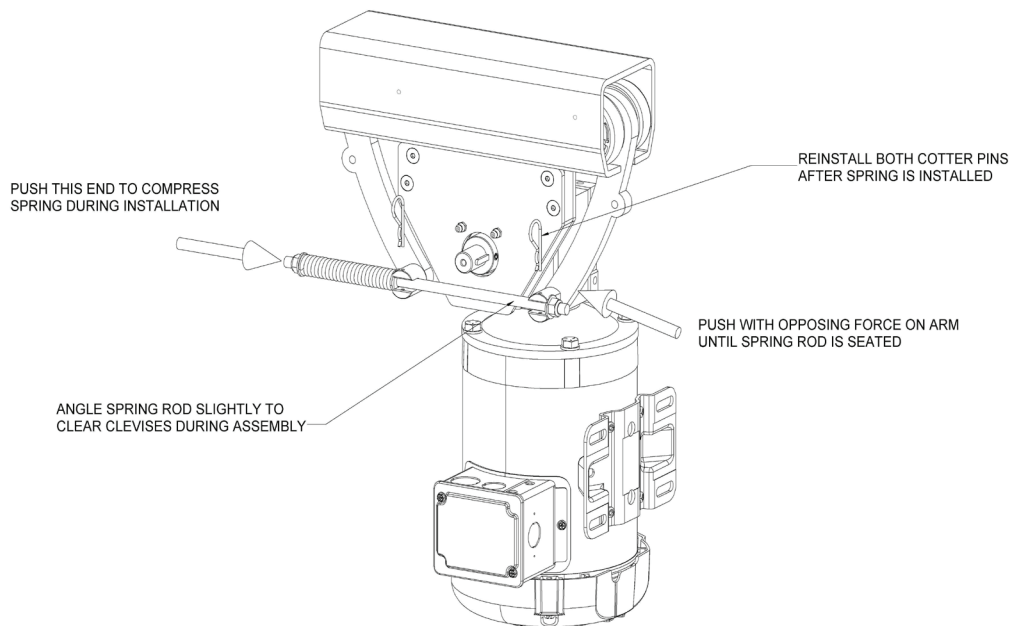


Diagram 4A. *Installation of Tractor Drive.*

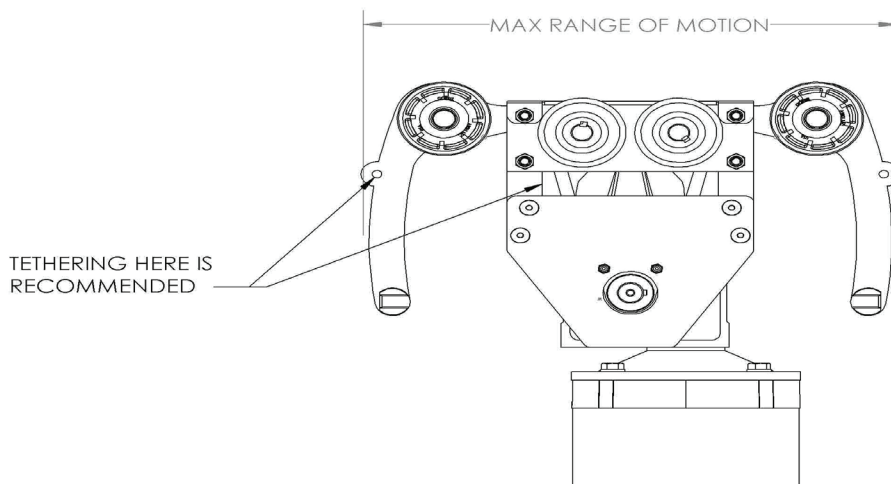


Diagram 4B. *Installation of Tractor Drive.*

STEP 5 - DRIVE WHEEL ADJUSTMENT

➡ **TIP:** The spring/rod assembly is set from the factory for most applications. We do not recommend tightening unless slippage is occurring. Overtightening can lead to premature component wear.

- 5.1 Drive tractor drive or disengage spring and move by hand to position it between verticals.
- 5.2 If it is determined that the spring needs to be adjusted, use a 9/16" wrench on each end of the spring/rod assembly to tighten or loosen.

For reference, the factory spacing of the nuts between flange faces on the spring is 10-5/8" for 2000# and 11-1/2" for 1000#.

STEP 6 - END TRUCK/TROLLEY TO TRACTOR DRIVE CONNECTION

- 6.1 Carefully roll the end truck/hoist trolley up to tractor drive unit. Use caution not to let the two collide.
- 6.2 Position the hole in the hoist trolley/end truck bracket with the hole in the tractor drive single wheel trolley as shown in **diagram 6A**.
- 6.3 Slide the pin portion of the master link into the holes as shown in **diagram 6A**. Slide the side plate onto master link pins and secure with cotter pins.

Note: Part number TDM.LINK includes master link, master link side plate and cotter pins.

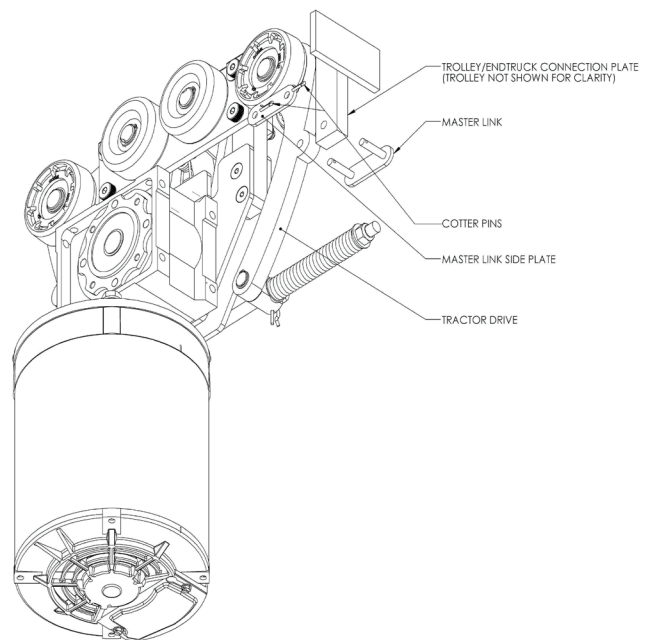


Diagram 6A. Link Pin Installation.

STEP 7 - TRACTOR DRIVE MOTOR CONTROLLER(S)

The drive controller(s) for the Tractor Drives are pre-programmed at Gorbel for variable speed (VFD) operation. For trouble shooting and general information, a brief summary of how the drive controller(s) are designed to be used is included below. No additional programming is required.

WARNING

The drive controller must only operate on its own control voltage and not be connected to an external voltage source. Allowing 24 or 120 voltage to go through the drive will **PERMANENTLY DAMAGE** the internal controls!

VFD - ONE, TWO OR THREE SPEED OPTION

The motor speed is varied to determine the desired tractor drive speed. The reducer ratio used is that for the fastest speed: 120 fpm. The drive controller(s) are then programmed for the motor to operate at one, two or three different percentages of full speed based on the desired speeds specified by the customer at the time the order is placed.

DRIVE CONTROLLER PROGRAMMING

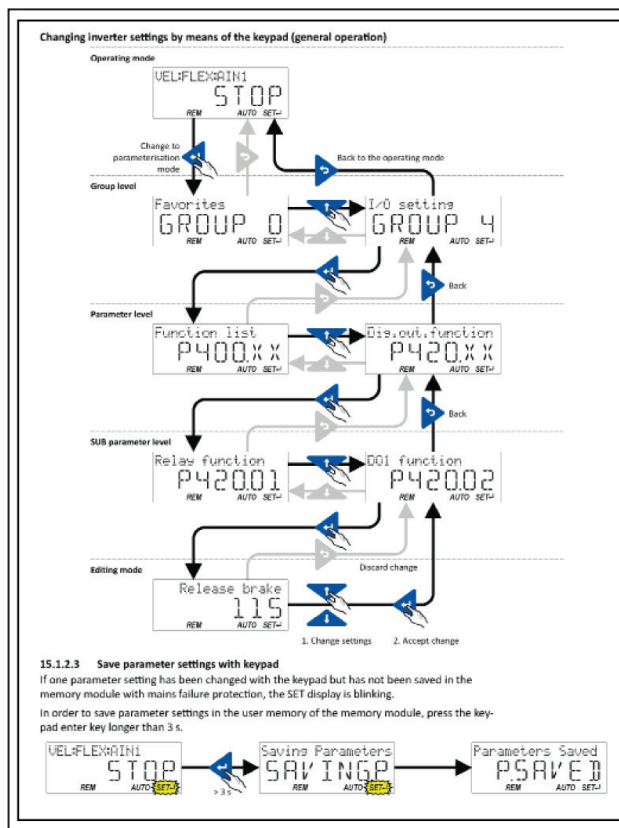
Note: The VFD consists of pre-set speeds, it is not infinitely variable during use.

Gorbel pre-programs a number of parameters in the drive controller prior to shipment.

Parameter #	Name	Lenze Default Value	Gorbel 230VAC Value	Gorbel 460VAC Value	Unit
P208:001	Rated Mains Voltage	N/A	230	460	Veff
P220:000	Acceleration time 1	5	5	5	sec
P221:000	Deceleration time 1	5	3	3	sec
P308:003	Motor Overload monit. (i^2t)	Fault	Fault/Off	Fault/Off	N/A
P450:001	Frequency Setpoint Presets	20	As Required	As Required	Hz
P450:002	Frequency Setpoint Presets	40	As Required	As Required	Hz
P450:003	Frequency Setpoint Presets	60	As Required	As Required	Hz

Changing Inverter Settings:

The diagram to the right shows how to change the inverter settings by means of the keypad.



STEP 7 - TRACTOR DRIVE MOTOR CONTROLLER(S) (CONTINUED)

Deceleration time: The deceleration time is factory set at 3 seconds. This can be adjusted to a shorter time period with the following warning. If the deceleration time is set to too short a time period, the drive controller will shut down and show an alarm. This is the result of the bridge or trolley having too much inertia for the reducer and motor to stop in such a short time. If this occurs, increase the deceleration time.

WARNING

Do not remove or install the EPM module while power is applied to the drive controller. After removing power to the drive controller, wait three (3) minutes before removing the EPM module for the capacitors to discharge.

TROUBLE SHOOTING GUIDE

PROBLEM	CHECK	YES	NO
Tractor does not drive	1. Is the AC contactor coil pulling in when ON is pressed and does it stay in?	See No. 2	Check fuses in panel. Check pendant wiring. Check control transformer fuse. Check that drive is not showing an alarm.
	2. Is the motor shaft turning?	See No. 3	Check that motor leads are secure. Check thermal overloads.
	3. Is the drive wheel pressure adjusted properly?	See No. 4	Adjust the drive wheel pressure per the instructions on page 4.
	4. Is the EPM module installed in the drive controller?	See No. 5	Install the EPM module and ensure that it is completely seated in the drive unit.
	5. Is the drive controller showing an error code?	See No. 6 and note the error.	Refer to drive manual.
	6. Call factory and ask for Customer Service.		

If you are experiencing any other problems in the start-up or operation of your **Gorbel®** crane please call (800) 821-0086.

HARDWARE TORQUE CHART

HARDWARE SIZE	TORQUE
1/4"-20	6-1/3 ft.-lbs.
5/16"-18	13 ft.-lbs.
3/8"-16	23 ft.-lbs.
M10 x 1.5	30 ft.-lbs.

CRANE OPERATOR INSTRUCTIONS

Overhead cranes and jib cranes generally handle materials over working areas where there are personnel. Therefore, it is important for the Crane Operator to be instructed in the use of the crane and to understand the severe consequences of careless operation. It is not intended that these suggestions take precedence over existing plant safety rules and regulations or OSHA regulations. However, a thorough study of the following information should provide a better understanding of safe operation and afford a greater margin of safety for people and machinery on the plant floor. It must be recognized that these are suggestions for the Crane Operator's use. It is the responsibility of the owner to make personnel aware of all federal, state and local rules and codes, and to make certain operators are properly trained.

Qualifications

Crane operation, to be safe and efficient, requires skill: the exercise of extreme care and good judgment, alertness and concentration, and rigid adherence to proven safety rules and practices as outlined in applicable and current ANSI and OSHA safety standards. In general practice, no person should be permitted to operate a crane:

- Who cannot speak the appropriate language or read and understand the printed instructions.
- Who is not of legal age to operate this type of equipment.
- Whose hearing or eyesight is impaired (unless suitably corrected with good depth perception).
- Who may be suffering from heart or other ailments which might interfere with the operator's safe performance.
- Unless the operator has carefully read and studied this operation manual.
- Unless the operator has been properly instructed.
- Unless the operator has demonstrated his instructions through practical operation.
- Unless the operator is familiar with hitching equipment and safe hitching equipment practices.

Handling the Bridge Travel Motion

Before using the bridge of the crane, the operator should be sure the hook is high enough to clear any obstruction. Before a load is handled by the crane, the bridge should be brought into position so that it is directly over the load. Start the bridge slowly and bring it up to speed gradually. Approaching the place where it is desired to stop the bridge, reduce the bridge speed.

Handling the Trolley Motion

Before a load is handled, the hoist should be positioned directly over the load that is to be handled. When the slack is taken out of the slings, if the hoist is not directly over the load, bring it directly over the load before hoisting is continued. Failure to center the hoist over the load may cause the load to swing upon lifting. Always start the trolley motion slowly and reduce the trolley speed gradually.

Handling the Hoist Motion

Refer to the lifting (hoist) equipment's operating instructions.

GENERAL SUGGESTIONS

Know Your Crane

Crane operators should be familiar with the principal parts of a crane and have a thorough knowledge of crane control functions and movements. The crane operator should be required to know the location and proper operation of the main conductor disconnecting means for all power to the attachments on the crane.

Responsibility

Each crane operator should be held directly responsible for the safe operation of the crane. Whenever there is any doubt as to SAFETY, the crane operator should stop the crane and refuse to handle loads until: (1) safety has been assured or (2) the operator has been ordered to proceed by the supervisor, who then assumes all responsibility for the SAFETY of the lift.

Do not permit **ANYONE** to ride on the hook or a load.

Inspection

Test the crane movement and any attachments on the crane at the beginning of each shift. Whenever the operator finds anything wrong or apparently wrong, the problem should be reported immediately to the proper supervisor and appropriate corrective action taken.

Operating Suggestions

One measure of a good crane operator is the smoothness of the crane operation. The good crane operator should know and follow these proven suggestions for safe, efficient crane handling.

1. The crane should be moved smoothly and gradually to avoid abrupt, jerky movements of the load. Slack must be removed from the sling and hoisting ropes before the load is lifted.
2. Center the crane over the load before starting the hoist to avoid swinging the load as the lift is started. Loads should not be swung by the crane to reach areas not under the crane.
3. Crane-hoisting ropes should be kept vertical. Cranes shall not be used for side pulls.
4. Be sure everyone in the immediate area is clear of the load and aware that a load is being moved.
5. Do not make lifts beyond the rated load capacity of the crane, sling chains, rope slings, etc.
6. Make certain that before moving the load, load slings, load chains, or other lifting devices are fully seated in the saddle of the hook with hook latch closed (if equipped with hook latch).
7. Check to be sure that the load and/or bottom block is lifted high enough to clear all obstructions when moving boom or trolley.
8. At no time should a load be left suspended from the crane unless the operator has the push button with the power on, and under this condition keep the load as close as possible to the floor to minimize the possibility of an injury if the load should drop. When the crane is holding a load, the crane operator should remain at the push button.
9. Do not lift loads with sling hooks hanging loose. If all sling hooks are not needed, they should be properly stored, or use a different sling.
10. All slings or cables should be removed from the crane hooks when not in use (dangling cables or hooks hung in sling rings can inadvertently snag other objects when the crane is moving).
11. Operators shall not carry loads and/or empty bottom blocks over personnel. Particular additional caution should be practiced when using magnet or vacuum devices. Loads, or parts or loads, held magnetically could drop. Failure of power to magnets or vacuum devices can result in dropping the load. Extra precaution should be exercised when handling molten metal in the proximity of personnel.
12. Whenever the operator leaves the crane the following procedure should be followed:
 - Raise all hooks to an intermediate position.
 - Spot the crane at an approved designated location.
 - Place all controls in the "off" position.
 - Open the main switch to the "off" position.
 - Make visual check before leaving the crane.
13. In the case of emergency or during inspection, repairing, cleaning or lubrication, a warning sign or signal should be displayed and the main switch should be locked in the "off" position. This should be done whether the work is being done by the crane operator or by others.
14. Contact with rotation stops or trolley end stops shall be made with extreme caution. The operator should do so with particular care for the safety of persons below the crane, and only after making certain that any persons on the other cranes are aware of what is being done.
15. **ANY SAFETY FEATURES AND MECHANISMS BUILT-IN OR OTHERWISE PROVIDED WITH THE CRANE BY GORBEL ARE REQUIRED FOR THE SAFE OPERATION OF THE CRANE. DO NOT, UNDER ANY CIRCUMSTANCES, REMOVE OR OTHERWISE IMPAIR OR DISABLE THE PROPER FUNCTIONING OF ANY CRANE SAFETY MECHANISMS OR FEATURES BUILT-IN OR OTHERWISE PROVIDED BY GORBEL FOR SAFE OPERATION OF THE CRANE. ANY REMOVAL, IMPAIRMENT OR DISABLING OF ANY SUCH SAFETY MECHANISMS OR FEATURES OR OTHER USE OR OPERATION OF THE CRANE WITHOUT THE COMPLETE AND PROPER FUNCTIONING OF ANY SUCH SAFETY MECHANISMS OR FEATURES AUTOMATICALLY AND IMMEDIATELY VOIDS ANY AND ALL EXPRESS AND IMPLIED WARRANTIES OF ANY KIND OR NATURE.**

LIMITED WARRANTY

It is agreed that the equipment purchased hereunder is subject to the following LIMITED warranty and no other. Gorbel Incorporated ("Gorbel") warrants the manual push-pull Work Station Cranes, Jib Crane, and Gantry Crane products to be free from defects in material or workmanship for a period of ten years or 20,000 hours use from date of shipment. Gorbel warrants the Motorized Work Station Cranes and Jib Crane products to be free from defects in material or workmanship for a period of two years or 4,000 hours use from the date of shipment. Gorbel warrants the G-Force® and Easy Arm™ products to be free from defects in material or workmanship for a period of one year or 2,000 hours use from the date of shipment. This warranty does not cover Gantry Crane wheels. This warranty shall not cover failure or defective operation caused by operation in excess of recommended capacities, misuses, negligence or accident, and alteration or repair not authorized by Gorbel. No system shall be field modified after manufacture without the written authorization of Gorbel, Inc. Any field modification made to the system without the written authorization of Gorbel, Inc. shall void Gorbel's warranty obligation. OTHER THAN AS SET FORTH HEREIN, NO OTHER EXPRESS WARRANTIES, AND NO IMPLIED WARRANTIES, ORAL OR WRITTEN, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE, ARE MADE BY GORBEL WITH RESPECT TO ITS PRODUCTS AND ALL SUCH WARRANTIES ARE HEREBY SPECIFICALLY DISCLAIMED. GORBEL SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR ANY INCIDENTAL, SPECIAL AND/OR CONSEQUENTIAL DAMAGES WHATSOEVER, WHETHER OR NOT FORESEEABLE, INCLUDING BUT NOT LIMITED TO DAMAGES FOR LOST PROFITS AND ALL SUCH INCIDENTAL, SPECIAL AND/OR CONSEQUENTIAL DAMAGES ARE HEREBY ALSO SPECIFICALLY DISCLAIMED. Gorbel's obligation and Purchaser's or end user's sole remedy under this warranty is limited to the replacement or repair of Gorbel's products at the factory, or at the discretion of Gorbel, at a location designated by Gorbel. Purchaser or end user shall be solely responsible for all freight and transportation costs incurred in connection with any warranty work provided by Gorbel hereunder. Gorbel will not be liable for any loss, injury or damage to persons or property, nor for damages of any kind resulting from failure or defective operation of any materials or equipment furnished hereunder. Components and accessories not manufactured by Gorbel are not included in this warranty. Purchaser's or end user's remedy for components and accessories not manufactured by Gorbel is limited to and determined by the terms and conditions of the warranty provided by the respective manufacturers of such components and accessories.

A) DISCLAIMER OF IMPLIED WARRANTY OF MERCHANTABILITY

Gorbel and Purchaser agree that any claim made by Purchaser which is inconsistent with Gorbel's obligations and the warranty remedies provided with Gorbel's products, and in particular, special, incidental and consequential damages, are expressly excluded.

B) DISCLAIMER OF IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE

Gorbel and Purchaser agree that the implied warranty of fitness for particular purpose is excluded from this transaction and shall not apply to the goods involved in this transaction.

C) DISCLAIMER OF EXPRESS WARRANTY

Gorbel's agents, or dealer's agents, or distributor's agents may have made oral statements about the machinery and equipment described in this transaction. Such statements do not constitute warranties, and Purchaser agrees not to rely on such statements. Purchaser also agrees that such statements are not part of this transaction.

D) DISCLAIMER OF SPECIAL, INCIDENTAL AND CONSEQUENTIAL DAMAGES

Gorbel and Purchaser agree that any claim made by Purchaser which is inconsistent with Gorbel's obligations and the warranty remedies provided with Gorbel's products, and in particular, special, incidental and consequential damages, are expressly excluded.

E) DEALER OR DISTRIBUTOR NOT AN AGENT

Gorbel and Purchaser agree that Purchaser has been put on notice that dealer or distributor is not Gorbel's agent in any respect for any reason. Gorbel and Purchaser also agree that Purchaser has been put on notice that dealer or distributor is not authorized to incur any obligations or to make any representations or warranties on Gorbel's behalf other than those specifically set forth in Gorbel's warranty provided in connection with its product.

F) MERGER

This warranty agreement constitutes a final and complete written expression of all the terms and conditions of this warranty and is a complete and exclusive statement of those terms.

G) PAINTING

Every crane (excluding components) receives a quality paint job before leaving the factory. Unfortunately, no paint will protect against the abuses received during the transportation process via common carrier. We have included at least one (1) twelve ounce spray can for touchup with each crane ordered (unless special paint was specified). If additional paint is required, contact a Gorbel® Customer Service Representative at 1-800-821-0086 or 1-585-924-6262.

Title and Ownership:

Title to the machinery and equipment described in the foregoing proposal shall remain with Gorbel and shall not pass to the Purchaser until the full amount herein agreed to be paid has been fully paid in cash.

Claims and Damages:

Unless expressly stated in writing, goods and equipment shall be at Purchaser's risk on and after Seller's delivery in good shipping order to the Carrier. Gorbel shall in no event be held responsible for materials furnished or work performed by any person other than it or its authorized representative or agent.

Cancellations:

If it becomes necessary for the purchaser to cancel this order wholly or in part, he shall at once so advise Gorbel in writing. Upon receipt of such written notice all work will stop immediately. If the order entails only stock items, a flat restocking charge of 15% of the purchase price will become due and payable by Purchaser to Gorbel. Items purchased specifically for the canceled order shall be charged for in accordance with the cancellation charges of our supplier plus 15% for handling in our factory. The cost of material and/or labor expended in general fabrication for the order shall be charged for on the basis of total costs to Gorbel up to the time of cancellation plus 15%.

Returns:

No equipment, materials or parts may be returned to Gorbel without express permission in writing to do so.

Extra Charge Delay: If Purchaser delays or interrupts progress of Seller's performance, or causes changes to be made, Purchaser agrees to reimburse Gorbel for expense, if any, incident to such delay.

Changes and Alterations:

Gorbel reserves the right to make changes in the details of construction of the equipment, as in its judgment, will be in the interest of the Purchaser; will make any changes in or additions to the equipment which may be agreed upon in writing by the Purchaser; and Gorbel is not obligated to make such changes in products previously sold any customer.

Third Party Action:

Should Gorbel have to resort to third party action to collect any amount due after thirty (30) days from date of invoice, the Purchaser agrees to pay collection costs, reasonable attorney's fees, court costs and legal interest.

OSHA Responsibilities:

Gorbel agrees to fully cooperate with Purchaser in the design, manufacture or procurement of safety features or devices that comply with OSHA regulations. In the event additional equipment or labor shall be furnished by Gorbel, it will be at prices and standard rates then in effect, or as may be mutually agreed upon at the time of the additional installation.

Equal Employment Opportunity:

Gorbel agrees to take affirmative action to ensure equal employment opportunity for all job applicants and employees without regard to race, color, age, religion, sex, national origin, handicap, veteran, or marital status. Gorbel agrees to maintain non-segregated work facilities and comply with rules and regulations of the Secretary of Labor or as otherwise provided by law or Executive Order.

INSPECTION AND MAINTENANCE SCHEDULE

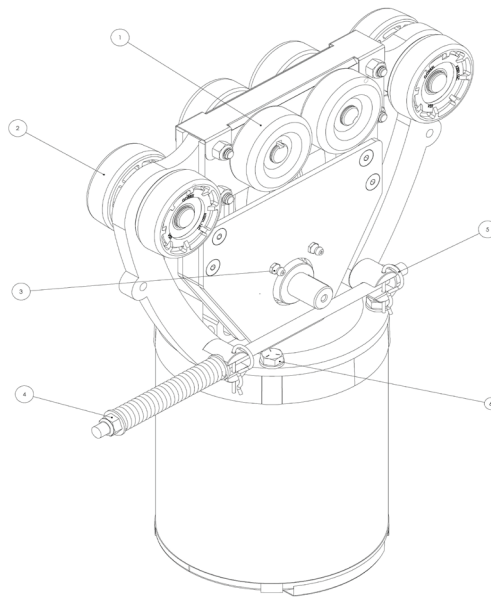
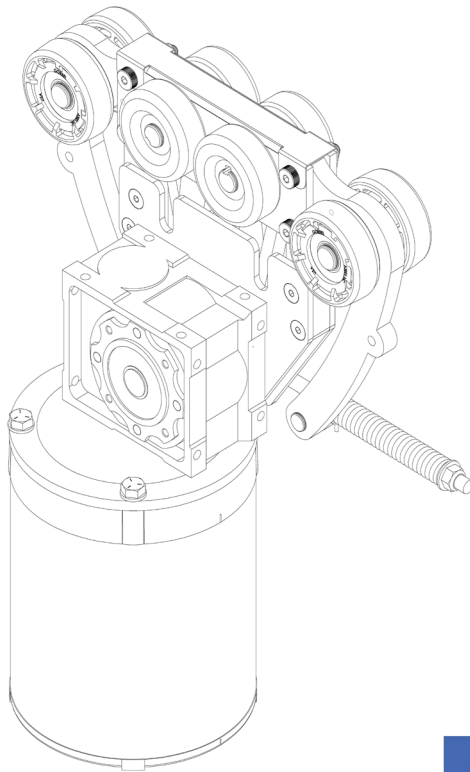
GORBEL® TRACTOR DRIVE: INSPECTION AND MAINTENANCE SCHEDULE			
ITEM	COMPONENT	MAINTENANCE	FREQUENCY*
1	Drive Wheels	Check wheel tread for uneven wear, tread separation, and/or damage. If any of these conditions exist, wheels may need to be replaced. Uneven wear may be corrected with reducer mounting and/or track alignment.	Every 2,000 hours or yearly
2	Trolley Wheels	Check for cracks, pits, and/or grooves: all of these increase pull forces. If any of these conditions exist, wheels should be replaced.	Every 2,000 hours or yearly
3	Chain Drive	One squirt of white synthetic grease in each fitting.	Every 2,000 hours or yearly
4	Drive Wheel Hardware	Spring tension adjustment, only as needed if slippage occurs. Refer to Page 5.	Every 2,000 hours or yearly
5	Hardware	Verify cotter pins are present and properly installed.	Every 2,000 hours or yearly
6	Reducer Mounting Hardware	Check that all hardware is tightened to the torque specifications noted on page 7.	Every 2,000 hours or yearly
7	Trolley Wheels	Check for cracks, pits, and/or grooves: all of these increase pull forces. If any of these conditions exist, wheels should be replaced.	Every 2,000 hours or yearly

* Federal, state and local codes may require inspection and maintenance checks ore often. Please check the federal, state and local code manuals in your area.

Note: Gear box is sealed with a high grade synthetic lubricant. Replacement is not required.

WARNING

Any changes in operation or unusual noises must be immediately identified and corrected.



GORBEL®

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Fax: (800) 828-1808
E-mail: info@gorbel.com
<http://www.gorbel.com>

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WARNING

This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information: www.P65Warnings.ca.gov



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