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CRANE AND HOIST



TOTAL  TOOL
SUPPLY, INC.

INSPECTIONS

OVERHEAD CRANES AND HOISTS

MANUAL HOISTS

RIGGING

Repairs

Parts

Emergency Service

Radio Control Installations

New Wire Ropes and Replacements

New Equipment Installations

Equipment Modifications

Control Conversions

Daily:
The operator is required to perform a simple inspection daily or prior to each shift for plants running multiple shifts. The person performing the inspection must be trained how to conduct the inspection and what to look and listen for. This inspection is not required to be documented.

Monthly:
Each month you are required to do a hook and wire rope/chain inspection, the person performing the inspection must be trained how to perform the inspection. Hook and wire rope inspections must be documented.

Periodically (1-12 months):
Depending on usage you are required to do a complete, or what most crane inspection companies call an “annual” inspection of the crane. The person performing the inspection must be trained on how to perform the inspection. Periodic inspections must be documented. In most cases performing the periodic inspection annually is sufficient.

OSHA & ASME INSPECTION REQUIREMENTS

HOISTING			ASME		
PRE SHIFT	MONTHLY	ANNUAL	PRE SHIFT	MONTHLY	ANNUAL
✓	✓ * †	✓ *	✓	✓ * †	✓ *
✓	✓ * †	✓ *	✓	✓ * †	✓ *
✓	✓ * †	✓ *	✓	✓ * †	✓ *
✓	✓ * †	✓ *	✓	✓ * †	✓ *
✓		✓ * ‡	✓	✓ * †	✓ *
✓		✓ * ‡	✓	✓ * †	✓ *

RIGGING			ASME		
PRE SHIFT	MONTHLY	ANNUAL	PRE SHIFT	MONTHLY	ANNUAL
✓		✓ *	✓		✓ *
✓			✓		✓ *
✓			✓		✓ *
✓			✓		✓ *
✓			✓	✓	✓ *

✓ = INSPECTION REQUIRED NO RECORDS ✓* = INSPECTION REQUIRED WITH RECORDS ✓*† = INSPECTION OF HOOK AND WIRE ROPE/CHAIN ONLY WITH RECORDS
 ✓*‡ = MUST FOLLOW MANUFACTURERS REGULATION - ALL REQUIRE MIN OF ANNUAL

References: ASME B30.9 (slings), ASME B30.20 (Below the hook lifting devices), ASME B30.2 (Overhead Cranes), ASME B30.11 (Monorails and Underhung Cranes), ASME B30.16 (Overhead Hoists), OSHA 1910.184 - Materials Handling and Storage, OSHA 1926.251 - Rigging Equip for Material Handling, OSHA 1910.179 - Overhead and Gantry Crane, OSHA 1926.554 - Overhead Hoists

Please note that this document does not cover all possible situations where OSHA may require a crane to be inspected. It is intended to be a general guideline. Attached is the section of OSHA 1910.179 that deals with overhead crane inspections and a copy of typical, daily, monthly and annual inspection reports. It is up to the end user to interpret the OSHA standards.



REPAIR

Total Tool Supply's experienced service technicians know that downtime is expensive and they are committed to getting you back up and running as soon as possible. Our technicians are fully equipped with a full complement of tools, rigging, and a man lift. We can repair and provide parts for all makes and models of overhead cranes and hoisting equipment.

Most common types of repairs:

- Replacement wire ropes with installation
- Electrical troubleshooting
- Control pendant repairs and replacements
- Brake repairs and replacements
- Load testing, including rental of test weights
- Gearbox repairs and replacements
- Runway repairs and alignment

Total Tool In-House Hoist Repair Option

Sometimes it is not economical to send a service tech to your site to repair electric chain hoists or manual hoisting equipment such as chain falls or lever hoists. Total Tool has regional repair shops that can handle those repairs. We repair all major brands and models, we can even offer rental hoisting equipment so you can continue to work while your equipment is in for repair.



SAFETY

If your company demands safety from your vendors and contractors we can deliver.

Our technicians undergo extensive safety training to ensure safety at your site. We work in highly safety sensitive industries like: Refineries, Pipe Lines, Government, Mining, and Paper just to name a few. We are registered on ISNetworld and Browz safety networks.



NEW EQUIPMENT SALES AND INSTALLATIONS

Total Tool can design, build and install any type of crane system. Whether you are building a new structure or adding a new crane system to an existing structure we can help. We will work with your design/engineering team to design the right system for your application and install it. We can assist with any size project from a small monorail hoist to multi crane systems with capacities up to 50 tons. **Think of us for: Bridge Cranes, Jib Cranes and Monorail Cranes.**



VFD CONTROLS



Energy Consumption

Variable Speed Drives (VSDs) allow you to consume less energy than other speed control techniques when load requirements are less than full speed.

Tighter Process Control with Variable Speed Drives

No other AC motor control method compares to variable speed drives when it comes to accurate process control. Full-voltage (across the line) starters can only run the motor at full speed, and soft starts and reduce voltage soft starters can only gradually ramp the motor up to full speed, and back down to shutdown. Variable speed drives, on the other hand, can be programmed to run the motor at a precise speed, to stop at a precise position, or to apply a specific amount of torque.

Extended Equipment Life and Reduced Maintenance

Single-speed starting methods start motors abruptly, subjecting the motor to a high starting torque and to current surges that are up to 10 times the full-load current. Variable speed drives, on the other hand, gradually ramp the motor up to operating speed to lessen mechanical and electrical stress, reducing maintenance and repair costs, and extending the life of the motor and the driven equipment.

Precise positioning

Precise speed control

Increased equipment life

Reduced maintenance costs

Cost effective alternative to continued repair of old equipment

CONTROL CONVERSIONS & MODERNIZATIONS

Increase production requirements may demand more capacity, faster operating speeds, better controls, or automation. Reliability may have deteriorated resulting in unscheduled shutdowns and increase production costs. Parts may be obsolete, resulting in high spare parts costs and long lead times. Inspections may show excessive wear or non-compliance with current safety standards or practices.

We can revitalize your crane by converting the existing contactor controls to VFD motor controls, we can replace the hoist or other components that are no longer serviceable, saving you the time and expense of completely replacing the crane or continuing to put money into equipment that is outdated and possibly unsafe.

Collision Avoidance

Reducing the potential for collisions between overhead cranes, monorail systems, and fixed objects/obstructions has been a challenge for the overhead material handling industry for many years. Until recently it was only possible to minimize the resulting impact from collisions using mechanical means such as bumpers or limit switches. With today's advances in electrical technology, it is now possible to prevent these collisions using more sophisticated means in a variety of operating environments. This means reducing maintenance costs and increasing operator safety.



IMPROVED – SAFETY, PRODUCTION AND RELIABILITY



Bellybox Transmitter incorporates the latest electronic technology in a lightweight, comfortably contoured, yet durable case. It's available with several customizable options to provide the ideal solution for a variety of applications and industries.

RADIO CONTROLS

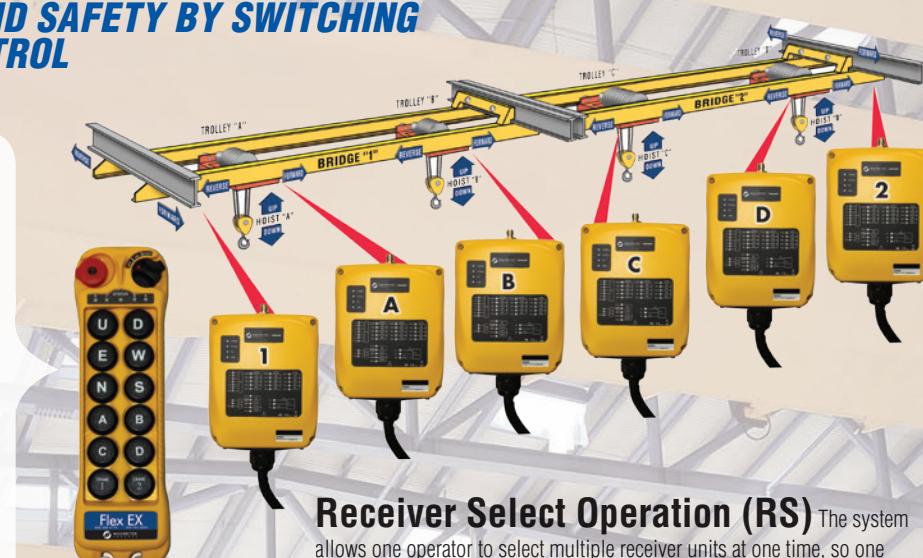
The trend in the industry today is to operate overhead cranes from the floor rather than from a traveling operator's cab, or in many instances, have an option for controlling the crane from either location. Because of the high cost of labor, it is more economical to remove the operator from the cab and free him up to do other tasks.

While pendant pushbutton stations suspended from the hoist or on a separate festoon track bring the crane operator closer to the load and eliminated the need for a separate person to "hitch" or "signal", they are often in the wrong place for safe or efficient operation, forcing the crane operator to dodge obstacles or untangle cords. Remote wireless control solves these problems.

INCREASE PRODUCTIVITY AND SAFETY BY SWITCHING YOUR CRANE TO RADIO CONTROL

Radio Remote Controls

The Enrange™ Flex EX series of radio remote controls provides a cost-effective solution to the restrictive use of hardwired pendants. These durable and rugged radios are ideal for use in material handling, overhead crane, mobile hydraulic, and industrial applications. Flexible and reliable, these systems are designed to be ergonomic and lightweight, and are available in 4, 6, 8 and 12 button style options to meet all your application needs.



Receiver Select Operation (RS) The system allows one operator to select multiple receiver units at one time, so one operator can control up to 2 bridges and 4 trolley/hoists simultaneously independently, this simplifies installation by eliminating control festooning between the bridge and trolley/hoists and freeing up the trolley/hoist to run from one bridge to the next. (Available on 8- and 12-button models).

Push-Button Pendants are excellent for crane control and ergonomically designed to accommodate from 2 to 12 buttons. Many standard and custom configurations possible. High-impact NEMA 4X case with Neoprene-booted buttons for indoor or outdoor use. Two and three button Pistol-Grip versions are available. UL and CSA listed.





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