



Whiting Equipment Canada Inc.

Guide to Modernizing Overhead Travelling Cranes

Guide to Modernizing Overhead Traveling Cranes



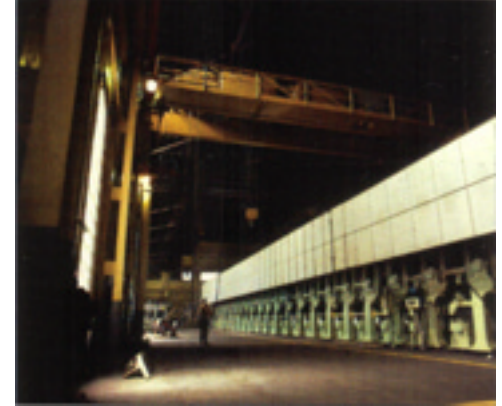
Integrated solutions that
increase the productivity
of your material handling
systems

Whiting Corporation

A trusted name in overhead material handling.

The objectives of our Crane Modernization Programs are to:

- Improve Plant Safety during overhead material handling
- Increase Productivity in material handling operations



Plant safety programs are essential for controlling costs related to:

- **Accidents**
- **Insurance premiums, including workers' compensation**
- **Lawsuits**
- **Production downtime**
- **Fines and other citations by government agencies**

Overhead cranes must be maintained and modernized to reduce the above-defined costs improve performance and comply with changing plant safety regulations.

Statutory Laws related to Overhead Cranes

The Federal regulatory agency that defines, updates, and enforces safety standards is the **Occupational Safety and Health Administration (OSHA)**. These standards are published in the Code of Federal Regulations, Title 29, part 1910.179 for overhead and gantry cranes.

The **American National Standards Institute, ANSI B30.2** recommends safety standards for overhead and gantry cranes. These standards could also be enforced by OSHA under the general duty clause.

A number of states including California, Washington, and Nevada, have state-enforced OSHA programs which may exceed Federal OSHA requirements.



Does your overhead crane meet production and plant safety requirements?



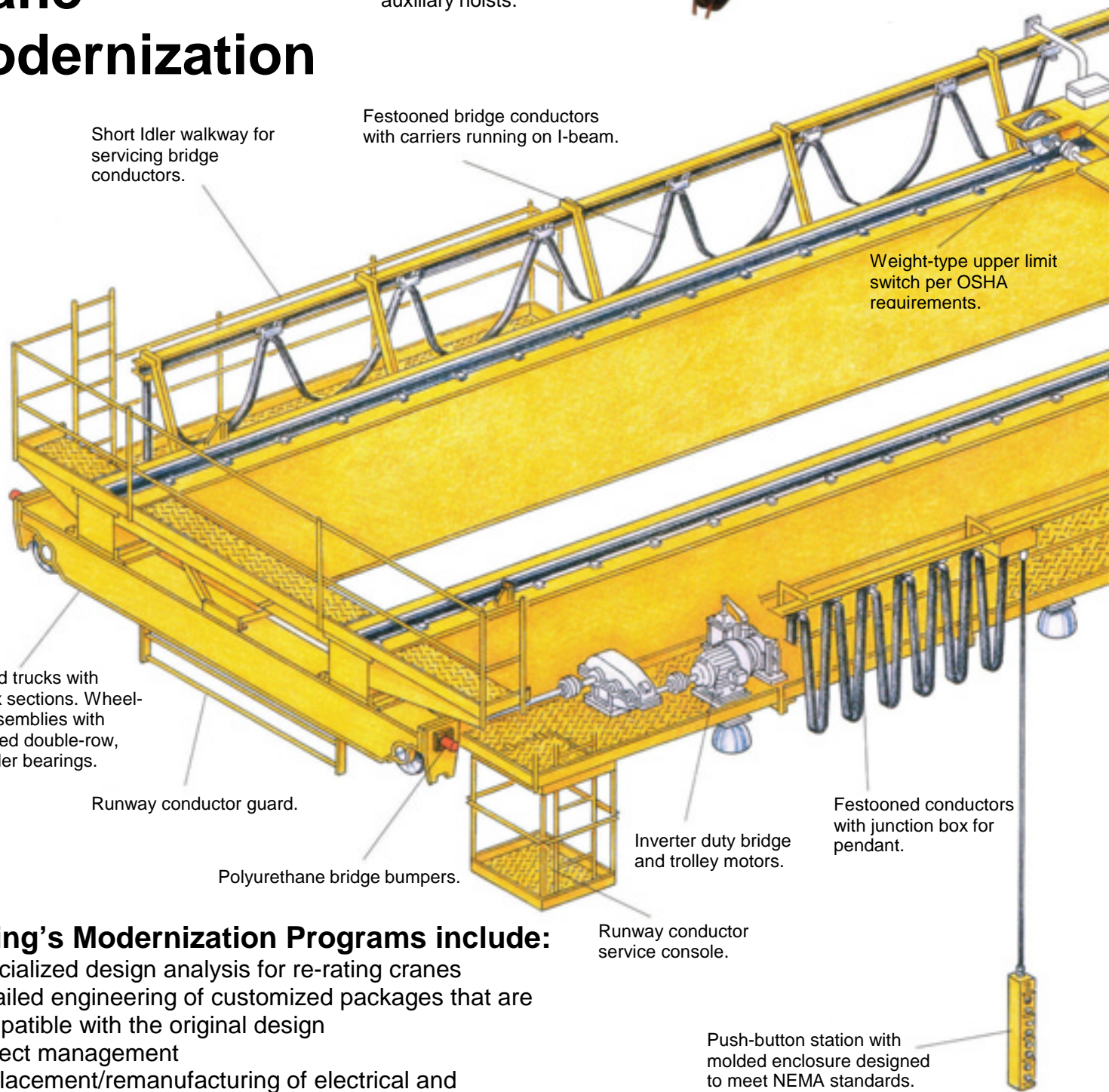
If not, call Whiting to:

1. Evaluate your material handling requirements and keep pace with new and emerging technologies.
2. Discuss with experienced sales and application engineers to determine a cost-effective approach.
3. Obtain a written proposal that offers a customized solution.
4. Consult with our Safety Management Group on the legal consequences related to the current laws on plant safety, and identify solutions that minimize your insurance, legal and other safety costs.

Engineered solutions to overhead crane modernization



Whiting heavy-duty Tiger™ Trolley with main and auxiliary hoists.



Whiting's Modernization Programs include:

- Specialized design analysis for re-rating cranes
- Detailed engineering of customized packages that are compatible with the original design
- Project management
- Replacement/remanufacturing of electrical and mechanical components
- On-site services including training programs and installations
- Original equipment parts and re-engineered parts
- After-sale customer service and support

AC or DC hoist motors sized for the required duty cycle. Whiting AC flux Vector motors with Ultradrive™ controls provide 1000:1 speed variation and capable of producing 100% torque at zero speed. Hoist shown with Eddy-current brakes.

Bridge and Trolley motions driven by variable frequency controls with dynamic braking. These controls permit precision load spotting and reduced brake maintenance.

Whiting Crane-duty double/triple reduction gearboxes for bridge and trolley motions. Gearboxes horizontally mounted to facilitate easy maintenance.

Heavy-duty hoist gearbox – Whiting-designed for CMAA Class D, E, F, AISE spec #6 and other special purpose applications. Helical, herringbone and spur gear sets.

Geared type upper and lower limit switch

Audio/Visual status indicators.

Large digital scoreboard to read out weight of hook load.

Whiting SESA TM heavy-duty, self-adjusting shoe brakes.

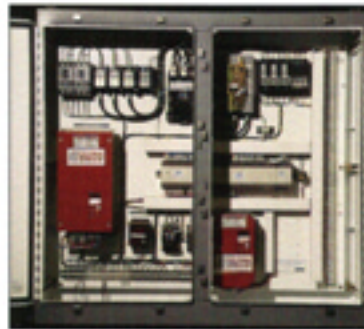
Whiting Wide-Vision™ cab with ergonomically designed operator's chair.

Radio control antenna.

Crane lights with swing arm supports for easy maintenance.

Totally enclosed heavy-duty block.

Panel shows Whiting Ultra-Drive™ variable frequency controls integrated through Whiting Compu-logic™ system and designed to lower maintenance expenses and provide vital diagnostic data.

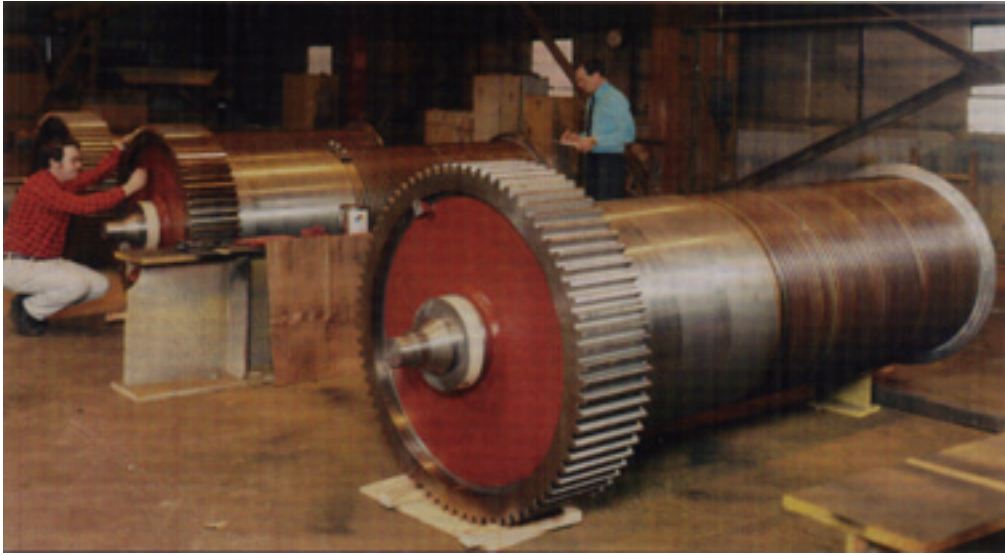


We deliver the following benefits:

- Renewed operational life with minimal expenses
- Meet increased demand for overhead material handling
- Reduced maintenance and operating expenses
- Better load spotting and load control
- Improved reliability
- Reduced production downtime
- Know the law! Understand the current safety standards mandated by OSHA and other regulators
- Increased production cycle times
- Reduce insurance premiums and legal costs

Have Whiting modernize your crane... take advantage of integrated solutions from the experts in overhead material handling

- **Overhead and Gantry Cranes**
- **OEM parts**
- **Field services**
- **24-hour customer support**



Whiting Communications Directory

1. **Whiting Sales Engineering**
(+1) 800-407-3384 Ext 273
2. **Whiting Services**
(+1) 800-407-3384 Ext 253
3. **Customer Service**
(+1) 800-407-3384



- **Rail/Rapid Transit Maintenance Equipment** car progression and repair systems, turntables, washers, jacks
- **Chemical Process Equipment** including Swenson evaporators, crystallizers, dryers
- **Metallurgical Equipment** complete melt shop equipment from Electric arc furnaces to ladles
- **Material Handling** light to heavy duty cranes, roller, Belt and telescopic conveyors
- **Trackmobile®** bi-modal transport system providing an efficient and economical means of switching railcars within industrial plants and railroad terminals.

Whiting Equipment Canada Inc.



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