

“Electric Crane for a Marble Yard”

(The C. D. Jackson & Co., of New York)

Stone An illustrated monthly magazine Devoted to Stone, Marble, Granite, Slate, Cement, Contracting, and Building, Magazine, Frank W. Hoyt, Publisher, New York, pp. 124-125

Excerpt from the article:

“Electric cranes are now being quite generally introduced in large stone and marble yards in place of hand power cranes, and power cranes of other types. The extreme ease with which electric current is carried from either street car or other electric power lines, and the amount of intricate mechanism which the few simple wires will do away with, lead a great many proprietors of marble yards to introduce electricity for cranes....”

“The crane that is shown is in the yard of C. D. Jackson & Co., New York. It was installed by the Northern Engineering Works, crane builders, Detroit, Mich....”

This article, which begins on the next page,
is presented on the Stone Quarries and Beyond web site.

<http://quarriesandbeyond.org/>

Peggy B. Perazzo
Email: pbperazzo@comcast.net
February 2016

ELECTRIC CRANE FOR A MARBLE YARD.



ELECTRIC cranes are now being quite generally introduced in large stone and marble yards in place of hand power cranes, and power cranes of other types. The extreme ease with which electric current is carried from either street car or other electric power lines, and the amount of intricate mechanism which the few simple wires will do away with, lead a great many proprietors of marble yards to introduce electricity for cranes. The crane shown in the accompanying illustration is 25 tons capacity, and has a span of 55 feet. The yard in which it is installed is partly roofed over, so that it has been unnecessary to enclose the trolley as the crane is run under the roof each night. The hoisting speed is 10 to 25 feet a minute; bridge travel speed, 300 feet a minute; and the trolley travel speed on an average 100 to 150 feet a minute. The principal gears are of steel. The hoisting mechanism is so arranged that the lift is in a perfectly vertical line, the wire rope winding right and left on a grooved drum. This crane will carry the full load with a safety factor of not less than 5, allowing



ELECTRIC CRANE IN A NEW YORK MARBLE YARD.

frequent overloads without danger. Truck and trolley wheels are of steel with machined treads, giving absolutely smooth running; all gearing is cut except the drum gear. The crane is provided with both mechanical and electrical brake, and foot brake on the bridge, allowing absolute control under all normal conditions.

The ease and safety with which the heaviest loads are handled by these cranes has done much to introduce them widely in many modern stone yards. The load can be handled rapidly or slowly as desired, the motors being fitted

with crane controllers, so that even the slightest loads can be handled down to a speed of about one foot per minute, and the heaviest loads to a still slower speed if desired. The hoisting speed can be increased to 30 feet a minute on light loads when desired. The block is prevented running into the trolley by means of an automatic switch, which shuts off current when the block is approached within a distance of a few inches from the trolley. These cranes are made to use direct current of either 110, 220, or 500 volts.

The crane that is shown is in the yard of C. D. Jackson & Co., New York. It was installed by the Northern Engineering Works, crane builders, Detroit, Mich., makers of a large variety of electric, pneumatic and hand power cranes, and also of a line of pneumatic and electric hoists, especially adapted to stone yard and quarry use.



ELECTRIC CRANE IN A NEW YORK MARBLE YARD.

(photo caption) "Electric crane in a New York Marble Yard." (C. D. Jackson & Co. of New York)