

**A TREATISE ON CRANES. DESCRIPTIVE
PARTICULARLY OF THOSE DESIGNED AND BUILT
BY THE YALE & TOWNE MANUFACTURING CO.,
OWNING AND OPERATING THE WESTON CRANE
CO., INCLUDING ALSO A DESCRIPTION OF
LIGHT HOISTING MACHINERY AS BUILT BY THE
SAME MAKERS**

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A Treatise on Cranes. Descriptive Particularly of Those Designed and Built by the Yale & Towne Manufacturing Co., Owning and Operating the Weston Crane Co., Including Also a Description of Light Hoisting Machinery as Built by the Same Makers by Henry R. Towne

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HENRY R. TOWNE

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BY
HENRY R. TOWNE,
MECHANICAL ENGINEER.

STAMFORD, CONN.,
1883.

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PREFACE.

The subject of Cranes has had but little consideration from technical writers, and has never yet received from them the attention which its importance in the mechanic arts will justify. It is perhaps partly due to this cause that the value and economy of Cranes, as labor-saving machines, is as yet so little appreciated in this country.

The only English books descriptive of Cranes are that of Glynn, written more than thirty years ago, and the catalogues published by various English firms to advertise their products, none of which fully represent what is best in English practice, or affords any information as to the important details of construction embodied in the machines they illustrate.

The present treatise, although intended primarily to place before users of Cranes a description of those built by THE YALE & TOWNE MANUFACTURING COMPANY, includes a careful study of the subject from an independent point of view, and will, it is believed, be found of interest to engineers generally by reason of its comprehensiveness, both as relates to the various types of Cranes and to the details of their construction, and because it carries the art it describes down to a more recent date than

any previous publication. In its description of details and of actual construction, it embodies the results of the combined work of several skilled inventors and mechanical engineers, continued uninterruptedly, under the author's direction, during a number of years and applied, together with the resources of a large establishment, to the study and development of the art of Crane building as a distinct specialty.

It is the first publication descriptive of American, as distinct from European practice, in the specialty of which it treats. The class of machines which it describes has long been recognized in Europe as one of wide importance and interest. It is the purpose of this treatise to indicate to American readers the great variety of uses to which Cranes can be applied with economy and convenience, and to describe the latest and best results of American practice in this field of engineering work.

H. R. T.

September, 1883.

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