

SECTION 14665 - GANTRY CRANES

City of San Diego, CWP Guidelines

PART 1 - GENERAL

1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes furnishing a portable gantry crane, complete and operable, having adjustable span, height, and tread and suitable for periodic maintenance work and equipment handling as indicated.

1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.
 - 1. Section 14600 Hoists and Cranes, General

PART 2 - PRODUCTS

2.1 PORTABLE GANTRY CRANE

- A. **Construction:** The gantry shall have adjustable span, height, and tread. The beam assembly shall be of AISC standard steel I-beam, supported with self-alignment A-frame with fully braced aluminum or steel pipe legs and caster wheels.
- B. A safety cable shall be provided to prevent over-spread while being adjusted. The casters shall have swivel lock to secure the casters in any of the four positions or permit free swiveling. The legs shall be provided with spring loaded height position bolts which engage automatically to minimize aligning of bolts with holes. The entire gantry system shall be coated in accordance with Section 09800.
- C. **Hoist:** The hoist shall be a heavy duty, low headroom, hand chain hoist of the capacity listed below. It shall be a high speed, spur gear, aluminum alloy unit, equipped with load limiters for automatic overload protection, with fully enclosed brake and safety hook.
- D. **Trolley:** The hoist shall be suspended from a geared hand chain trolley of the same capacity as the hoist. The trolley shall have steel side plates, a strong, forged yoke, and four wheels to fit the I-beam. The hand chain shall reach to 4 feet above floor at maximum crane height.
- E. **Characteristics:** The gantry crane system shall have the following characteristics:
 - 1. Gantry Crane:

Equipment I.D. No.	-	[]
Capacity (tons)	-	[]
Maximum span (ft)	-	[]

- Adjustable height (ft) - []
- Adjustable frame spread - []
- 2. Hoist:
 - Capacity (tons) - []
 - Lift (ft) - []
 - Hand chain drop (ft) - []

2.2 MANUFACTURERS

- A. Gantry cranes shall be supplied by one of the following (or equal):
 - 1. Abell-Howe Company
 - 2. Thern, Inc., (Cal South Equipment Co.)
 - 3. B.E. Wallace Products Corporation

PART 3 - EXECUTION

3.1 ERECTION

- A. The CONTRACTOR shall erect the gantry cranes in strict accordance with the manufacturer's written recommendations and shall comply with the requirements of State of California, Division of Occupational Safety and Health (DOSH).
- B. The CONTRACTOR shall have the gantry cranes examined by an authorized certificating agent and obtain the necessary certificate complying with the requirements of DOSH, State of California.

**** END OF SECTION ****