GOLIATH® II SUPPORT TOWERS

- All galvanized
- Bolted assembly — no field welding
- 8 ft., 10 ft., 12 ft., and 14 ft. square models
- No guywires required
- Optional ladder and safety cage
- Optional service platforms, stairs, and rest platforms
- 20 ft. and 10 ft. high modules
- Designed to withstand wind pressures up to 33 PSF or the equivalent of 100 MPH winds.

Ohio State University Farm Science Review Center London, Ohio 110' 10 x 10 Goliath® II Support Tower.

SWEET®

GOLIATH® II SUPPORT TOWERS

The use of towers to support one or more bucket elevators, plus accessories, has become popular for more than one reason. While some bucket elevators are self supporting of their own vertical load, including weight of bucket contents, they must be laterally secured by either guying or tied into existing vertical structures such as concrete silos, head houses, or structural steel supports such as towers (but never to corrugated bins which expand, contract, and flex when filled or emptied).

SUPPORT TOWER NOW OFFERS VALUE ALTERNATIVE

Guying of bucket elevators has in the past been frequently used for vertical stabilization. Over the years, however, the average heights of bucket elevators have increased, in part to compensate for turnheads, distributors, diverter valves, scalpers, or cleaners, etc. Taller elevators thus require further distance between ground support attachments (deadmen), consuming much land area that is expensive and not always available. Also, numerous ground guys in proper tension add tremendous vertical loading to a freestanding bucket elevator, particularly the casing or trunking, as well as the boot. This only adds extra cost to the bucket elevator due to heavier construction of casing and boot.

As mentioned above, bucket elevators may be designed to support their own weight and contents. In most cases, they are not designed to take the extra overhung loading of turnheads, spouting runs, diverters, or cleaners. These accessories should always be supported separately from the elevator structure. But with the Goliath® II support towers, all of this can be accomplished, including one or more platforms needed to service the accessories at various levels.

GOLIATH® II ALL GALVANIZED BOLTED SUPPORT TOWERS OFFER CONVENIENCE AND SAFETY

For a little more than the cost of a ladder, cage, rest platforms, and safety devices, you can add Silver Stairs®. The steps are heavy gauge galvanized stampings with raised perforations, providing sure footing in all weather conditions. Units include double handrails of 1 1/2" tubing (on both sides) and bolted continuous connection for added safety.

Multiple use of stairways include access to adjacent catwalks, bin roofs, and platforms. Designed as an integral part of the stairway is the 24" x 30" rest landing conveniently located every 10' rise.

Utilizing Silver Grip® all weather decking, the platform, complete with handrails, provides security at all levels. Easily assembled, the all bolted galvanized stairway requires no welding. Stairways can be erected to ascend clockwise or counterclockwise.

Goliath® II towers are made of hot dipped galvanized, heavy-duty structural steel angle members, accurately punched for fast field bolted assembly. High tensile galvanized bolts and hardware eliminate the need for field welding. The tower legs feature a welded plate on both ends for easy four bolt connection.

Standard sizes include 8' x 8', 10' x 10', 12' x 12', and 14' x 14'. They are all designed to withstand wind pressures to 33 PSF, the equivalent of 100 MPH winds.

Selection of the standard Goliath® II tower is easy ... the standard models provide a range to accommodate a variety of casing profiles, as well as available space around the elevator. All Goliath® II models are designed in 20' and 10' high modules, providing a wide selection to meet necessary requirements while utilizing standard components. The Goliath® II base stage has a welded plate suitable for anchoring to the foundation.

All models have been designed and engineered in cooperation with professional structural engineering consultants.

MOVING INTO THE NEXT GENERATION

GOLIATH® II SUPPORT TOWERS

Sweet Manufacturing Company also manufactures a complete line of conveyor support systems, including our all galvanized Silver-Span® that utilizes our galvanized Silver Grip® grating. Intermediate support towers are also available in various models depending upon application on loading.

Silver Stairs® are designed for both variable pitch incline, such as bin roofs or circular models, for bins or silos. Additional bin accessories, such as bin peak platforms and eave landing platforms, are also available. Request a separate brochure on these products.

SWEET® MANUFACTURING COMPANY

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