

Mat Hoist® Mat Storage System 1000 Maxi Mini

1.0 General

1.1 STANDARD PRODUCT INCLUDES:

- A. One motor operated mat storage system with 5 year warranty.
- B. Exclusive intrinsically safe 24 volt power system.
- C. Two adjustable CL-5 unit clamps with supporting rods.

1.2 WORK/ITEMS NOT INCLUDED

- A. Electrical Work from the building source to the hoist.
- B. Added support steel and/or additional clamps.
- C. Field painting.
- D. Wrestling mat and its storage core.
- E. Installation.
- F. Freight

1.3 SUBMITTALS TO ARCHITECTIC BY DEALER

- A. All necessary specifications, drawings, electrical volts available, wiring diagrams, etc requested by the Architect. NGE, Inc. has complete shop drawings available including mounting brackets and wiring diagrams.

2.0 PRODUCT SPECIFICATIONS

2.1 Mat storage system shall be the Mat Hoist® Storage System 1000 Maxi Mini as manufactured by N.G.E. Inc., P.O. Box 370, 302 N. Erickson, Industrial Park NE Roland, Iowa (515)388-4118, fax (515)388-4340

A. Submitted Specifications:

Mat Hoist® Storage system shall be a 10' long lift/lower system consisting of a direct drive (2" diameter) solid keyed shaft weighing 630lbs. A 14' long load bar weighing 188lbs., and a one-piece vinyl/nylon sling designed to lift/lower/store up to three (3) 15'x 45' mat sections in a pyramid arrangement within the sling in balance at all times. Storage system shall be complete with 15lb. brake/motor, two 5/16" x 35' galvanized aircraft support cables, and all accessories required for installation and operation. Storage system shall be installed with a minimum of two (2) clamping support points.

B. Vertical movement shall be single motor-operated, 1 1/2 hp with a motor voltage 208,230, or 460, three-phase complete with both up/down limit switches ending up-down travel and brake motor with fast action brake gearing. Final output speed of 9.6 rpm-9,352 output pound in torque to lift 2,000 lbs. on two 4" diameter drums directly coupled to a 2" diameter x 10' solid keyed shaft. Motor, starter, and thermal overload protection shall be mounted direct to helical geared reducer. Unit shall be factory lubricated and sealed. Motor shall be operated by an electrical key switch wired to an intrinsically safe 24 volt power system with automatic return and up/down legend plate.

C. Pulleys shall not be used to increase lifting power.

3.0 Execution

3.1 PREPARATION

- A. Coordinate electrical rough-in requirements and locations with the Electrical Contractor.
- B. Installation shall be coordinated through the General Contractor.

3.2 INSTALLATION

- A. Deliver and erect the mat storage/transporter system at location indicated on plans.
- B. Electrical Contractor shall furnish and install electrical raceways, boxes, wiring, and make final connections to the safety disconnect switch, starter, and 24 volt keyed control switch.
- C. Adjust storage unit to correct height, plumb, level, and align with floor and walls.
- D. In addition to this specification, the entire installation shall be in accordance with the manufacturer's instructions and recommendations.
- E. Instruct Owner in the operation, maintenance and care of the mat storage system.