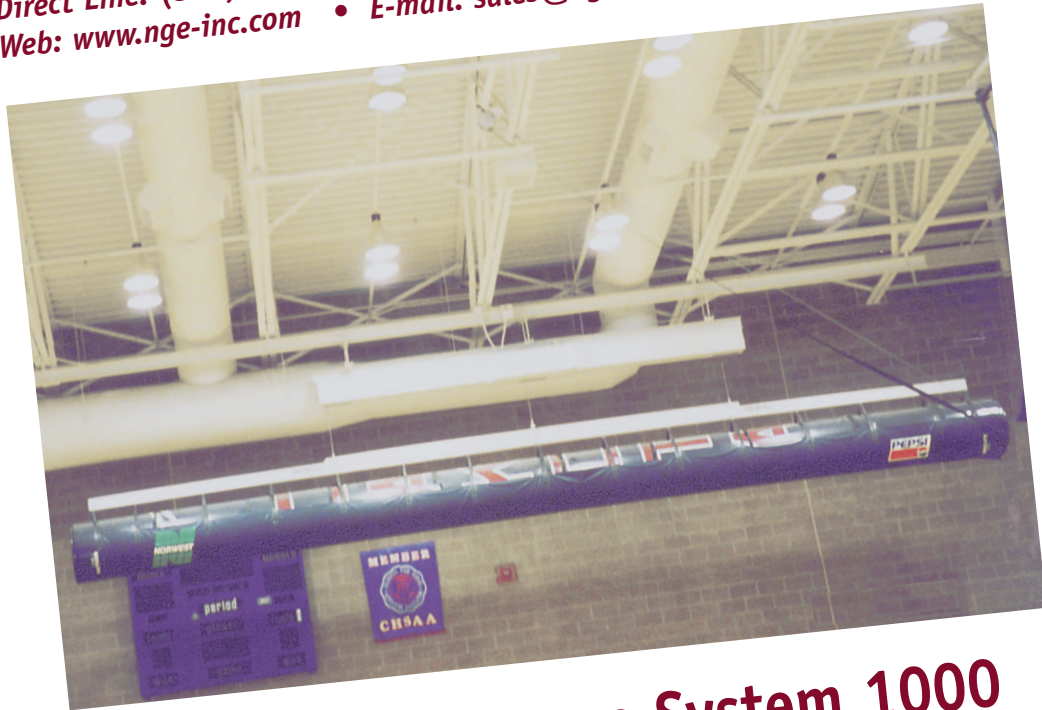




P.O. Box 370/Industrial Park (northeast)  
 302 North Erickson • Roland, IA 50236  
 Direct Line: (515) 388-4118 • FAX: (515) 388-4340  
 Web: www.nge-inc.com • E-mail: sales@nge-inc.com



## Mat Hoist Storage System 1000

### Mat Hoist® Storage Systems

MH 500: Stores up to one (45' x 45') mat

MH 1000: Stores up to two (42' x 42') mats

### Mat Hoist® Transport Systems

MH 2000: Manual push/pull from balcony to gym. Transports up to one (45' x 45') mat

MH 3000: Electric in/out drive from balcony to gym. Transports up to one (45' x 45') mat

Mini 2000 or 3000: Transports up to one (15' x 45') section

## Protects Mats

The **Mat Hoist® Storage System** tops conventional storage methods by eliminating the risks. This is done simply by storing your wrestling and gymnastics mats at ceiling level, leaving gym floors free for other activities, and reducing damage to the mat. Unless you have a practice room, mats are usually stored in hallways, closets, stages, bleachers, and gym floors. This ties up valuable space provided for other usage, in addition to damaging the mat when it is moved. Movement through doorways cuts multiple V-shaped gouges in the vinyl surface and core of the mat. The **Mat Hoist®** solves these problems simply and easily. Just roll your mat into the one-piece sling. Attach the sling to the steel load bar and turn the key until the system automatically stops. The key switch is centrally located so the entire process can be viewed during movement. The entire storage operation takes only minutes.

## Protects Student/Athletes

The **Mat Hoist** takes the danger out of moving wrestling and gymnastics mats by lifting them to be stored at ceiling level. Present procedures require an army of untrained student/athletes to maneuver approximately 1,700 lbs. of mat across bleachers, through doorways, and over other dangerous obstacles. With the **Mat Hoist®**, there is no heavy lifting and balancing on bleachers. Just a turn of the key and the operation is done safely!

## Protects Institutions

This all means protection for the institution. By avoiding the chance of injury to student/athletes, the **Mat Hoist®** reduces risks of liability for the school, and eliminating risks is essential.



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## **Mat Storage System Model 1000**

### **SPECIFICATIONS**

#### **1.0 GENERAL**

##### **1.1 WORK INCLUDED**

- A. One (1) motor operated mat storage unit with five year warranty.
- B. Three (3) adjustable unit clamps with six grade B-7 3/4" x 18" supporting rods.
- C. Installation, adjustment, and demonstration.

##### **1.2 WORK SPECIFIED ELSEWHERE**

- A. Electrical work.
- B. Structural framing.
- C. Field painting.
- D. Wrestling mat.

##### **1.3 SUBMITTALS**

- A. Submit for review: Complete shop drawings including mounting brackets, wiring diagrams, and power requirements.

#### **2.0 PRODUCT**

- 2.1 Ceiling or wall mounted mat storage system shall be the **Mat Hoist® Storage System 1000** as manufactured by N.G.E., Inc., P.O. Box 370, 302 N. Erickson, Industrial Park (northeast), Roland, IA 50236, (515) 388-4118 and FAX (515) 388-4340, having these features:
  - A. Mat storage hoist shall be a twenty (20) foot long lift/lower unit consisting of a direct drive (2" diameter) solid keyed shaft with a forty (40) foot long load bar and one-piece 12' x 40' long vinyl/nylon super sling. Sling shall be capable of storing (TWO) 42' x 42' wrestling/gymnastic mats rolled inside one another and weighing approximately one pound per square foot with a 3500 lb. sling capacity. Storage system unit shall be complete with three (3) 5/16" x 35' support steel cables and all accessories required for installation and operation. Storage system shall be installed with a minimum of three (3) clamping support points spaced equally at engineer approved ceiling truss or wall.
  - B. Vertical movement shall be motor-operated, 1 1/2 H.P. 208/230/460 volts three phase complete with both up/down limit switches, 15 lb. fast action brake motor, gearing - 95%, efficiency. Final output speed of 9.6 rpm -9,352 output lb. in. torque to lift 3,500 lbs. on three 4" diameter drums directly coupled to a 2" diameter x 20' solid keyed shaft. Motor starter and thermal overload protection shall be factory lubricated and sealed. Motor shall be operated by an electrical key switch with automatic off return and raise/lower legend plate, with emergency lowering manual override brake.
  - C. Complete system must have documented proof from an independent testing laboratory that load tests were performed by ceiling mounting and load testing system to 17,500 lbs., thus obtaining a 5:1 safety factor. Tested system must have obtained 17,500 lbs. lift capacity on it's own. No outside source such as chain hoist, larger motors, pulleys, or sprocketed roller chain between reducer and shaft shall be used. System shall be direct gear drive only.
  - D. Manufacturer must have proof that they have been manufacturing mat hoisting systems for at least five years.

#### **3.0 EXECUTION**

##### **3.1 PREPARATION**

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

##### **3.2 INSTALLATION**

- A. Deliver and erect the mat storage 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 keyed control switch.
- C. Adjust storage unit to correct height, level and align with floor and walls.
- D. In addition to this specification, the entire installation shall be in accordance with the manufacturer's installation recommendations.
- E. Instruct owner in the operation, maintenance, and care of the storage system.