



Barn Cleaners

For Use in Tie Stall Barns

GEA Farm Equipment | Houle

engineering for a better world

GEA Farm Technologies

GEA Farm Technologies Barn Cleaner Elevators



When it comes to barn cleaner elevators, GEA Farm Technologies knows exactly what it's all about! 100% steel construction makes these elevators tough, durable and effective in the evacuation of very thick manure from tied stall barns. The design and manufacturing of the different models rely on 50 years of expertise in the field, making the barn cleaner elevators from the Houle product line the best in the market!

GEA Farm Technologies cares about the quality of the environment and continuously works to implement effective environmental management systems applicable in all facets of the business.

Barn Cleaner Elevators

The barn cleaner elevators offered by GEA Farm Technologies are designed to be the toughest on the market.

Key Features

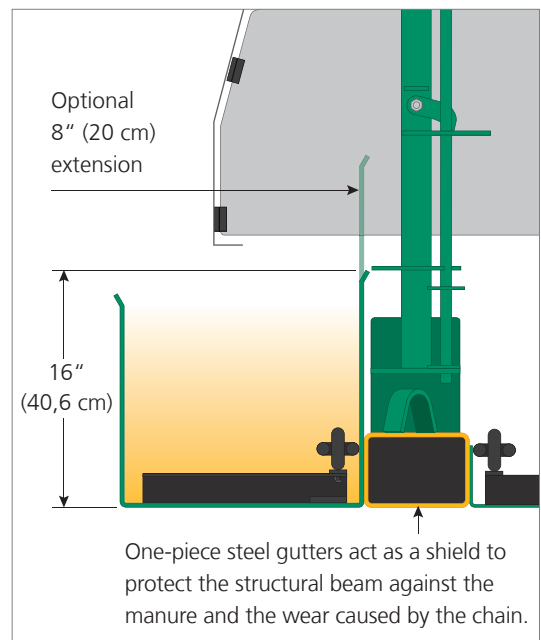
- 100% steel construction;
- Elevators are acid washed, prior to the primer coat resulting in better paint adhesion;
- All elevators are coated with a layer of epoxy primer and 2 layers of urethane paint making them resistant to extreme conditions;
- Standard 16" (40,6 cm) loaded gutter depth;
- One-piece steel gutters act as a shield to protect the structural beam against the manure and the wear caused by the chain.



H-2000 elevator with two safety hand rails

Optional Equipment

- Choice of 1 or 2 safety hand rails;
- 8" (20 cm) extension for loading gutter.



Loading gutter

H-2000 Stationary or Suspended Elevator



Stationary elevator

The economical, ideal choice for small and mid-size farms

Key Features

- Stationary elevators ranging from 10' to 30' (3 to 9 m) with square support. Lengths available in 5' (1,5 m) increments;
- Suspended elevators ranging from 35' to 55' (11 to 17 m) with an A support. Lengths available in 5' (1,5 m) increments.



Suspended elevator with an "A" support

H-4000 Suspended Elevator



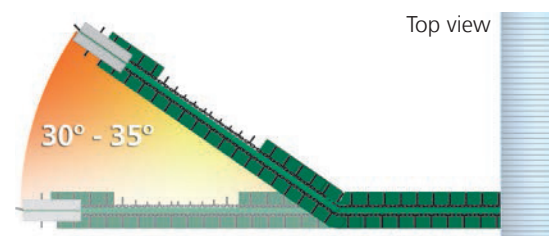
The perfect solution combining savings and efficiency

Key Features

- The upper section of the elevator can swing up to 35° by means of the two winches located at the bottom of the elevator. Depending on the length of the elevator, this rotation will stack manure between 18' and 23' long (5,5 to 7 m);
- Stacks up to 3 times more manure than the H-2000 elevator;
- Elevator lengths available from 40' to 75' (12 to 23 m) in 5' (1,5 m) increments;
- Installed on a rectangular concrete base.



Winches allowing the upper section of the elevator to swing up to 35°



H-8000 Rigid Elevator



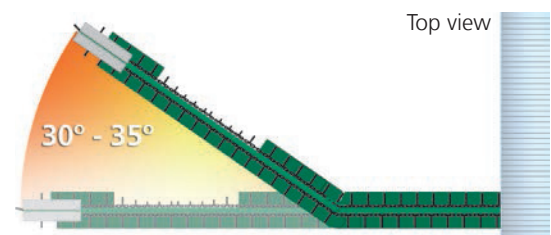
Heavy-duty elevator without cable, requires less maintenance and is easier to operate

Key Features

- Truss style support for greater strength;
- The upper section of the elevator swings up to 35° by means of the 2" (51 mm) pivoting screw. Depending on the length of the elevator, this will stack manure between 18' and 23' long (5,5 to 7 m);
- Elevator lengths available from 45' to 75' (14 to 23 m) in 5' (1,5 m) increments;
- Drain plate included;
- Elevator support designed to ease access to the drive unit;
- Installed on a rectangular concrete base;
- Easy to install inside a building;
- Can replace most of the existing elevators.



2" (51 mm) pivoting screw allows the upper section of the elevator to swing up to 35°



Drive Units

H-86 heavy-duty drive unit

Key Features

- Drives up to 500' (152 m) of chain;
- Heavy-duty #60 and #80 roller chains;
- Automatic releasing clutch in case of overload.

High frame version also available for cross gutter.



H-86 heavy-duty drive unit with high frame for cross gutter
Shown with fixed paddle cleaner

H-95 extra heavy-duty drive unit

Key Features

- Drives up to 700' (213 m) of chain;
- Heavy-duty #60 and #80 roller chains;
- Double automatic roller chain tighteners;
- #80 chain is mounted on a larger diameter sprocket to reduce tension on the roller chain;
- Automatic releasing clutch in case of overload.

High frame version also available for cross gutter.



H-95 extra heavy-duty drive unit
Shown with paddle cleaner

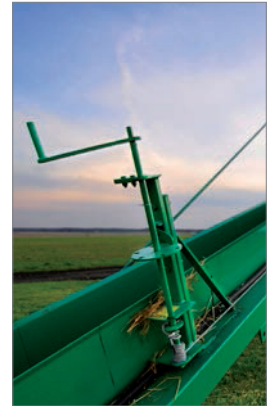
Drive Units - Standard and Optional Equipment

Standard Equipment

- Quick tensionner mounted on drive unit frame when floor mounted or installed on 15' (4,5 m) elevators and shorter;
- Quick tensionner located close to the barn for 20' (6 m) elevators and longer;
- Motor base insulated to protect against stray voltage, mounted on hinges with spring loaded belt tensionner;
- Drive unit hood can be opened from either side;
- 2½" (6,4 cm) main drive shaft mounted on greasable nylon bushings;
- Idler shafts made of high precision shaft material and mounted on greasable ball bearings;
- Double belt clutch pulley;
- Roller chain tighteners made of UHMW plastic.



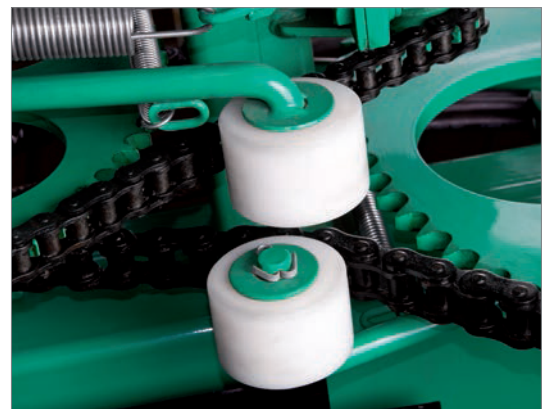
Quick tensionner mounted on the drive unit frame



Quick tensionner located close to the barn (H-4000 suspended)



Drive unit hood can be opened from either side



Roller chain tighteners made of UHMW plastic

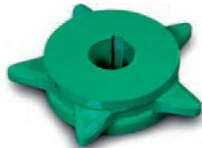
Standard Equipment

- Paddle cleaner with return controlled by a shock absorber to efficiently and quietly clean the paddles;
- Sprocket made of abrasion resistant steel and with a 2 1/2" (6,4 cm) hub.

7/8" (22 mm) chain



Hook and eye chain



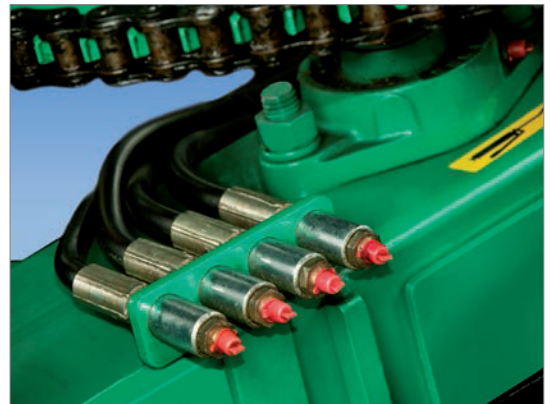
Pintle chain



Paddle cleaner for 7/8" (22 mm) chain

Optional Equipment

- A fixed paddle cleaner is also available for drive units installed in a cross gutter;
- Remote grease line kit to lubricate the main drive shaft and the pivot of the paddle cleaner.

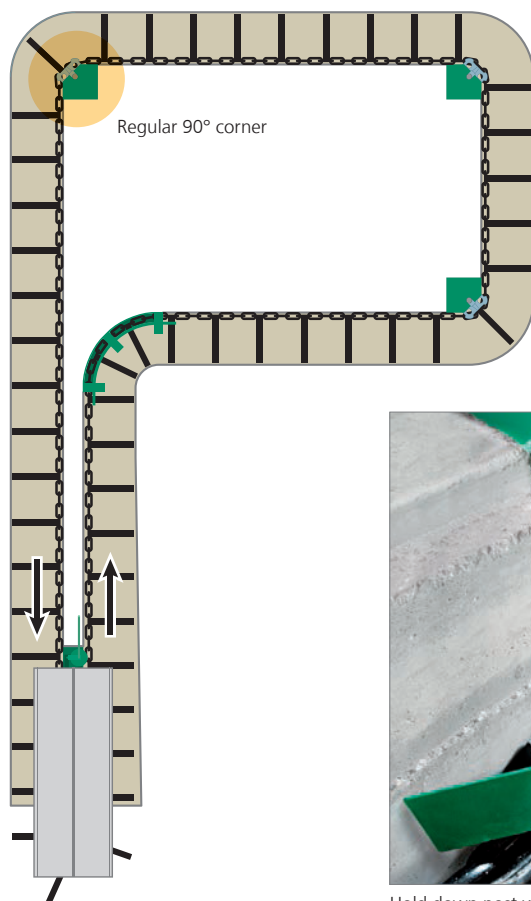


Remote grease line kit

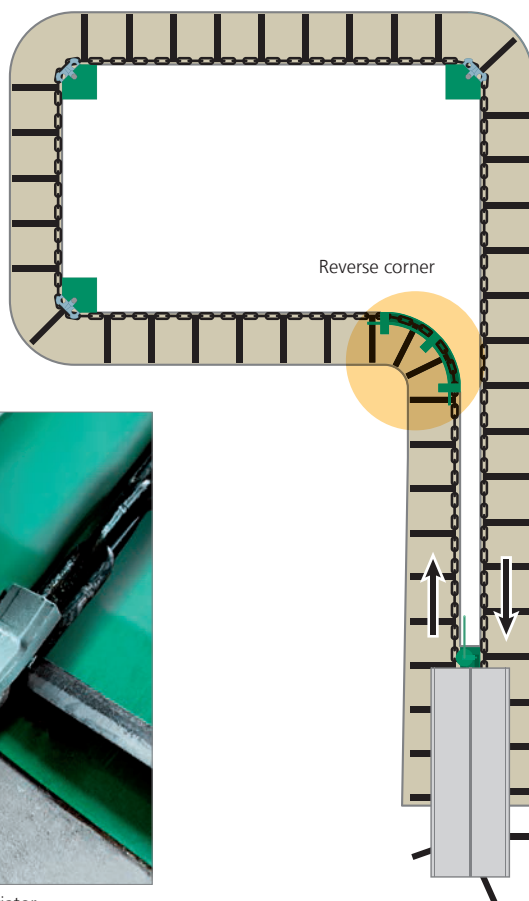
Barn Cleaner Layouts

The barn cleaners system offered by GEA Farm Technologies can be adapted to suit your needs with a variety of layout options.

Counter Clock Wise Rotation

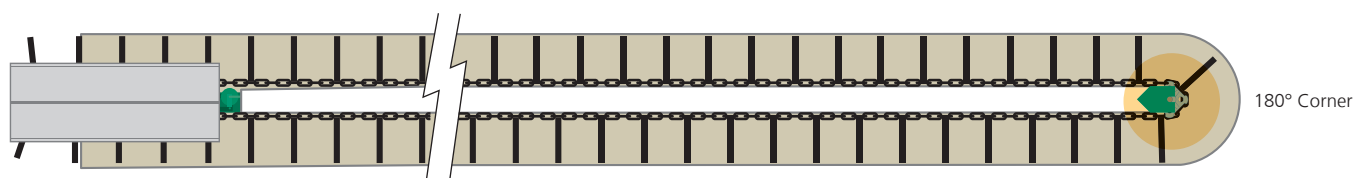


Clock Wise Rotation

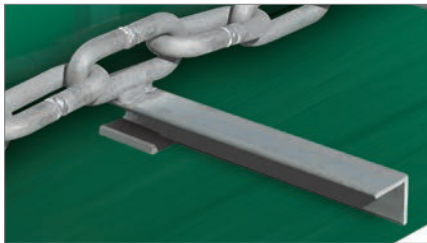


Hold down post with shoe and litter deviator

Cross Gutter

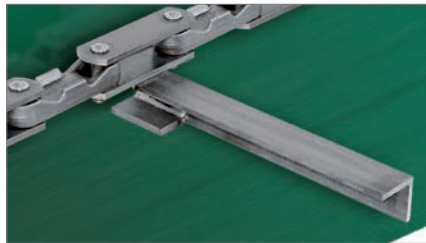


Chains and Corner Boxes



7/8" (22 mm) Chain

- Links made of 7/8" (22 mm) diameter steel rods;
- Uniform joint bearing surface even when articulating;
- 1/4" (6 mm) thick rugged steel paddles, 2" X 2" (51 mm X 51 mm) or 2" X 3" (51 mm X 76 mm);
- Easy to lubricate;
- Large wear shoe 1 1/2" X 3" X 3/8" (38 mm X 76 mm X 10 mm).



Pintle Chain

- Heavy-duty centre link made of heat treated forged steel with thicker material at wear point ;
- Paddle assembly allows you to reverse the forged links for longer chain life;
- High carbon double steel pintle;
- 1/4" (6 mm) thick rugged steel paddles, 2" X 2" (51 mm X 51 mm) or 2" X 3" (51 mm X 76 mm) ;
- Large wear shoe 1 1/2" X 3" X 3/8" (38 mm X 76 mm X 10 mm).



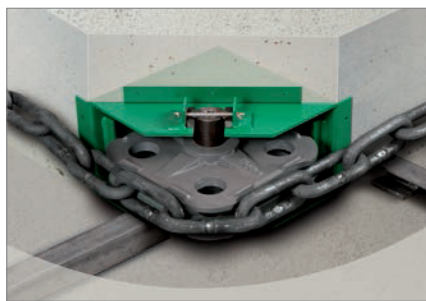
Hook & Eye Chain

- One piece heat treated forged link;
- Thicker material at wear point;
- 1/4" (6 mm) thick rugged steel paddles, 2" X 2" (51 mm X 51 mm) or 2" X 4" (51 mm X 102 mm) ;
- Easy to lubricate;
- Large wear shoes 1 1/4" X 3 1/4" X 1/2" (32 mm X 83 mm X 13 mm).



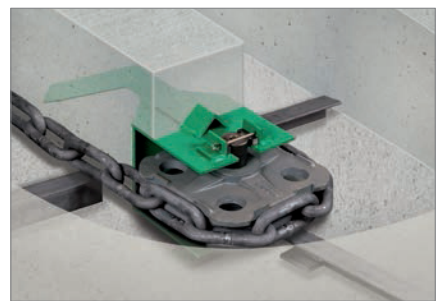
Reverse Corner

- For 7/8" (22 mm), pintle and hook & eye chains;
- Grooved shoe to guide the chain.



90° Corner Box

- For 7/8" (22 mm), pintle and hook & eye chains;
- 2" (51 mm) greasable shaft;
- Optional tapered roller bearings and seals.



180° Corner Box

- For 7/8" (22 mm), pintle and hook & eye chains;
- 2" (51 mm) greasable shaft;
- Optional tapered roller bearings and seals.



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Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA Group is a global engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881, the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX® Europe 600 index.

GEA Farm Technologies

GEA Farm Technologies Canada Inc.

4591, boul. St-Joseph, Drummondville, Qc, Canada J2A 0C6
Tel. +1 819 477 7444, Fax +1 819 477 5565
www.gea.com / www.gea-farmtechnologies.com/houle/en

GEA Farm Technologies Inc. (Houle)

1880 Country Farm Drive, Naperville, IL 60563 USA
Tel. +1 800 563 4685, Fax +1 819 477 0486
www.gea.com / www.gea-farmtechnologies.com/houle/en