

GRAIN HANDLING SYSTEMS

NORSTAR



U-Trough



Sure Grip Wheel

BIN UNLOADING SYSTEMS



U-Trough

available in 8" and 10" models

Widemouth gate

- More capacity at first gate
- Allows for clumping in bin, maximizes grain flow through 360 degree sweep
- Gates run on NyLatron rollers for less friction and ease of opening and closing operation
- Internal linkage to exterior handle gate control
- Rack and pinion gate control on exterior bin for safe and easy control of gate openings
- Backboard clearance adjustment



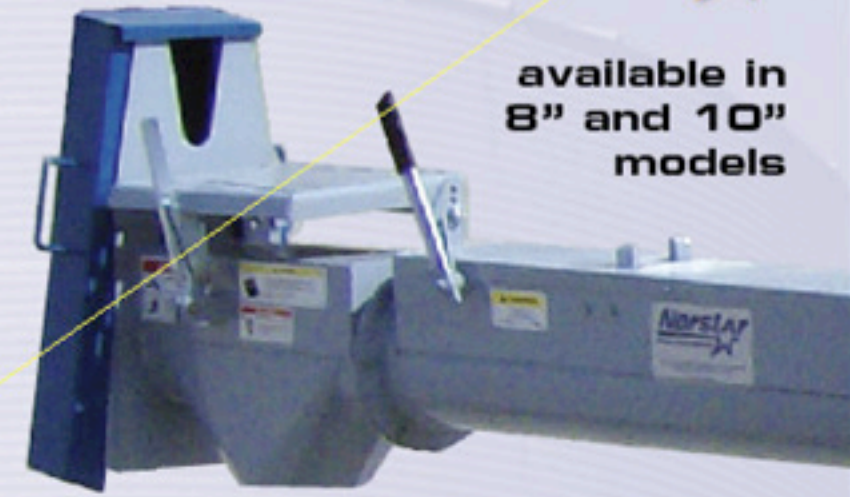
Sure Grip Wheel

- 18" vulcanized rubber tread design
- Gear reduction 16:1
- Positive traction
- Zero entry
- Easy retrofit
- Adaptable to gear driven and portable sweeps
- Backboard clearance adjustment



Gearbox Sweep Drive

- External controls, externally powered
- Internal shifting mechanisms
- Non spring-loaded clutch engage
- The unload flighting drives the sweep through a double gearbox
- The gearbox and sweep can be moved from one bin to another
- Adjustable sweep length
- Self propelled sweep, no need to enter bin
- Safety stop externally controlled
- Optional Sure Grip Wheel available
- Optional upgrade from 7 1/4" flighting to 9"



available in 8" and 10" models

Tube Unloading Systems

Complete package includes:

- Tube, flighting, gearboxes, power sweep, rack and pinion slide gates, and Sure Grip Wheel optional

Manual Tube Unloads

- Basic unload, manual slide gates, control rods, sweep pivot rods



'09 power head

1. Ratchet handle belt tensioner
2. Factory installed hanger bearing with oil impregnated bearing
3. Drop panel seals airflow
4. Factory installed shaft eliminates slop and maintains flighting clearance
5. Flange to the outside for quick attach/detach

- Pre-installed hanger bearing
- Factory assembled shaft
- Maintenance free design



Horizontal Power Head

- For use with unload tubes that are off the ground (24") to allow room for portable grain auger hopper.
- Can be moved from bin to bin and connected to U-Trough or unload tube.
- Quick detach motor mount is provided to move motor from bin to bin, or to store for the off season.
- Available in Electric or Hydraulic drives.



25° Power Head

- Designed to raise unloading discharge height 24" above floor level of grain bin, this is sufficient height for portable auger hoppers to go under discharge spout.
- Comes with a stand to support weight or an optional 2-wheel caddy which permits power head and flight to be moved from bin to bin.
- Available in Electric or Hydraulic drives.



Vertical Power Head

- Designed specifically to load grain directly onto truck.
- Only one motor is required which drives the vertical and horizontal augers through a gearbox arrangement.
- Available in 8" and 10" diameters.

PORTABLE MOTORIZED SWEEPS



electric



hydraulic

- Comes in 7 1/4" & 9" sweeps
 - Easily moved from bin to bin
 - Electric or hydraulic
 - Designed to complete the unloading process of your grain bin after gravity flow of the grain has stopped.
 - After gravity flow has stopped, carry bin sweep into grain bin and slip pivot pin in centre hopper receptacle, bin sweep will lay on the grain at the angle the grain has stopped flowing.
 - To operate sweep start motor on power head first and then bin sweep from outside of bin and sweep will work it's way down to the floor.
 - Once it reaches floor level, a wheel on the end propels the sweep into the grain.
- ⚠ CAUTION – do not enter bin when equipment is operating.

POWER REQUIREMENTS

Based on 460 R.P.M. – Unload Capacities up to 8170 B.P.H.

Bin Dia. (ft.)	U-Trough		# of Sumps	Bin Dia. (ft.)	U-Trough		# of Sumps
	8"	10"			8"	10"	
16	5 hp	5 hp	2	40	10 hp	10 hp	3
19	5 hp	5 hp	2	42	15 hp	15 hp	3
21	5 hp	7.5 hp	2	44	15 hp	15 hp	4
25	7.5 hp	7.5 hp	2	48	15 hp	15 hp	4
27	7.5 hp	7.5 hp	3	54	-	15 hp	4
30	10 hp	10 hp	3	60	-	20 hp	5
34	10 hp	10 hp	3	72	-	20 hp	5
37	10 hp	10 hp	3				



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