

HAYBUSTER®

H-1100 *Tilt* SERIES II

[tub grinder]

HAYBUSTER®



- *The tub tilts up to 65° to open up access to the hammermill and drive components*
- *Grinds loose hay, large round bales, small and large square bales*
- *Grinds ear corn, shelled corn, high moisture corn, sorghum and all feed quality grains*
- *Grinds straw, corn stover and most other types of crop residue*
- *Requires just 150 to 200 PTO horsepower*
- *Electronic Tub Governor regulates the feed rate into the hammermill*



Versatility and performance is what the **H-1100 Tilt** brings to your grinding needs. Whether you grind loose hay, small and large square bales, or round bales. In addition to hay, the **H-1100 Tilt BIG BITE** Tub Grinder can grind most crop residues. The toughest part of the job is loading the hay into the tub.

Equip the **H-1100 Tilt** Tub Grinder with the optional grain grinding hopper and it will grind all feed grains.

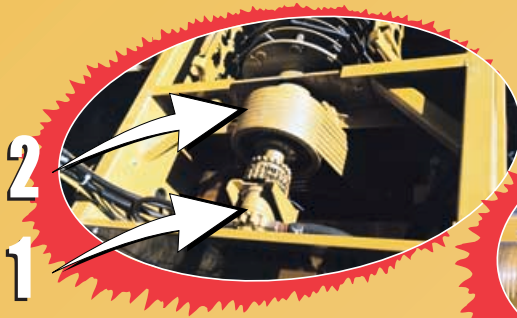
Here, barley is being ground to become one of the key ingredients in a “total mix ration” for dairy cows.

This corn was cracked by a **BIG BITE** Tub Grinder. The feed conversion rate is greatly enhanced by cracking the corn’s tough outer skin.



Versatility and performance are engineered to each **H-1100 Tilt** Series II.





1) The tub drive **hydraulic pump** is directly coupled to the hammermill shaft to eliminate extra pulleys, belts and tighteners.

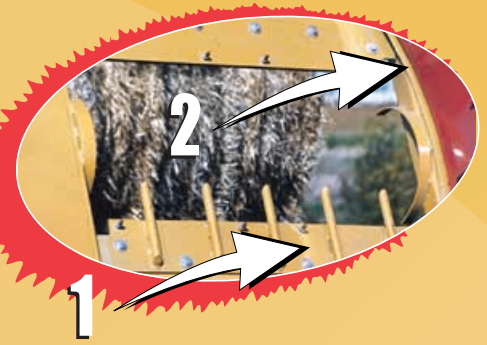
Power from the tractor is transmitted at 1000 RPM to the **H-1100 Tilt** through a PTO shaft.

2) A tough 8-belt drive system multiplies the PTO RPM by approximately two times and supplies it to the hammermill shaft. The higher hammermill speed provides for a more even and smoother feed rate plus increases the grinding capacity.



The **H-1100 Tilt** hammermill has a **"BIG BITE."** At operating RPM, the hammers extend out to make a hammermill diameter of 26", combine this with 50" of length and it forms a great **"BIG BITE."**

1) **88 swinging hammers** are arranged on 8 heavy-duty case-hardened rods. The hammers have four hardened grinding surfaces. As these surfaces are worn, they can be replaced by simply turning the hammer to the next fresh grinding surface.



1) The heavy duty **"slug buster"** enhances the hammers cutting action and acts as a mechanical regulator for the material flow into the hammermill.

2) A metal **"step seal"** replaces the older belting type seals of the past. It's welded to the floor and forms a flat ring under the entire tub wall. This innovative seal discourages pre-ground material from being forced and caught under the tub wall.



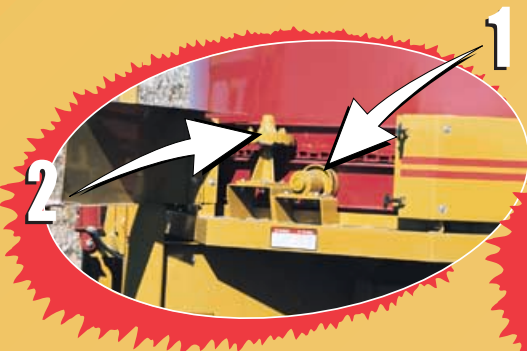
The **step seal clean-out passage** works to eliminate any material buildup between the tub wall and the step seal. Material that finds its way between the step seal and the tub wall is ejected onto the conveyor.



Here is the secret to even and smooth feeding to the hammermill...the **DuraTech electronic governor**. This governor maintains a constant load on the tractor's PTO system by adjusting the tub's RPM which controls the feed rate of the material into the hammermill.



The **shields** for the pressure and tub rollers not only are stylish but deflect the routine loading spillage off the rollers. The shields are raised 1-1/2" off the floor to provide an exit for any spillage that may have worked its way behind the shields.



1) “**Smooth edge design**” means the tub rollers have sealed bearings, a less exposed rotating shaft and all the edges have been rounded to resist twine buildup.
 2) The pressure rollers have serviceable tapered roller bearings that are fully sealed.



What’s in a tub?

- 1) A **12 gauge wall thickness** gives it the rigidity and strength to grind away year after year.
- 2) The loading height has been decreased by 5” from the previous model.



The belly and the discharge conveyor chain drives have **spring loaded tensioners**. These **tensioners** reduce routine maintenance and improve the service accessibility.



“**Easy clean**” rollers are used with the belly and the discharge conveyors. The Haybuster “**easy clean**” roller design discourages material buildup while encouraging self cleaning through centrifugal force. Clean rollers maintain accurate belt tracking and good belt traction.



The **H-1100 Tilt** walking beam **tandem axles** are set further to the rear of the frame. This increases the hitch weight which improves stability when the discharge conveyor is unfolded or when folded during road transport.



- 1) The high capacity **discharge conveyor** is 22’ long and has a 18” wide rubber belt with 1-1/2” cleats.
- 2) The discharge conveyor position is moved and held with steel strap linkages and a hydraulic cylinder that is powered from the tractor’s hydraulic system.
- 3) The operator simply moves the control valve’s lever to raise, hold or lower the discharge conveyor.



At last, just what you've been asking for....a tub that tilts up and out of the way! Now you have easy and convenient access to the screens and other critical components.



Tilting the tub **65°** takes the chore out of changing screens. Machinery maintenance is demanding enough without having to remove shields and look into dark small areas in an attempt to do a good visual inspection. The **H-1100 Tilt** reduces these maintenance concerns with the tub opened and locked to **65°**. You now can easily inspect the hammermill, bearings, screens, drive belts and hydraulic components.



When you're done grinding for the day, cleaning up the **H-1100 Tilt** is a snap. Just open and lock the tub to clean and inspect. The tub opens with one of the tractor's remote hydraulic valves. Tilt the tub right from the safety and convenience of your tractor seat.

Even the tub drive components are easily checked with the tub tilted up and locked.

HAMMERMILL

Length	50" (127 cm)
Diameter	26" (66.04 cm) with hammers extended
Feed Opening	27" x 52" (68.58 cm x 132.08 cm)
Hammers	3/8" (.952 cm) hardened swing
Number of Hammers	88
Rods	15/16" (.952 cm) case hardened
Cylinder Plates	1/4" (.635 cm) thick x 15 3/4" (.635 cm x 40 cm) dia.
Cylinder Shaft	3 1/2" (8.89 cm) stress proof steel
Bearings	3" (7.62 cm) pillow block
Hole Size of Standard Screens	1) 3" (7.62 m) & 1) 4" (10.16 cm)
Screen thickness	1/4" (.635 cm)
Total Screen Area	2,781 sq. in. (7063.75 sq cm)
Drive	1000 RPM PTO through sheave and eight "B" sized V-belts

TUB FEATURES

Loading Height	8'9" (2.67 m)
Tub Width at Flare	11'3" (3.42 m)
Depth	50" (127 cm)
Tub Inside Diameter at Base	8'11" (2.72 m)
Tub Wall Thickness	12 gauge (2.66 cm)
Tub Floor Thickness	10 gauge (3.42 cm)
Drive	Mechanism electro/hydraulic
Speed Control	electronic governor
Hydraulic Oil Capacity	28 gal. (106 l)
Service Access	3" x 24" (7.62 cm x 60.92 cm) hydraulic cylinder, tub tilts up (or opens) 65°

BELLY CONVEYOR

Type	rubber belt w/ 1 1/2" (3.81 cm) high cleats
Width	30" (76.2 cm)
Drive	Mechanical
Drive & Idler Roller	"easy clean"

DISCHARGE CONVEYOR

Type	rubber belt with 1 1/2" (3.81 cm) high cleats
Drive	Mechanical
Drive & Idler Roller	"easy clean"
Length	22' (6.71 m) long
Width	18" (45.72 cm)
Maximum Conveyor Discharge Height	14' 6" (4.42 m)
Conveyor Lift Type	hydraulic
Conveyor Lift Cylinder	3 1/2" x 12" (8.89 cm x 20.32 cm)
Conveyor Fold	spring assisted manual fold

OPERATOR CONTROLS

Tub Rotation	3 position hydraulic valve for clockwise, stop and counter-clockwise
Tub Speed	DuraTech model RCB93 electronic governor stabilizes engine load by adjusting tub rotation speed
Conveyor Lift	3 position hydraulic valve for raise, hold & lower

Tub Tilt	tractor hydraulic control valve
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WEIGHT

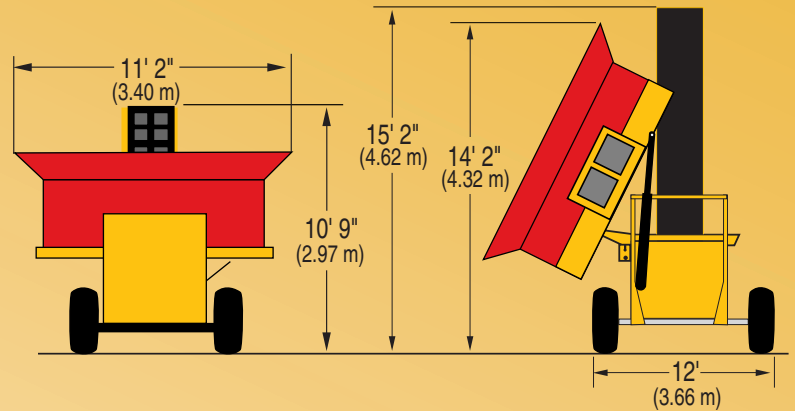
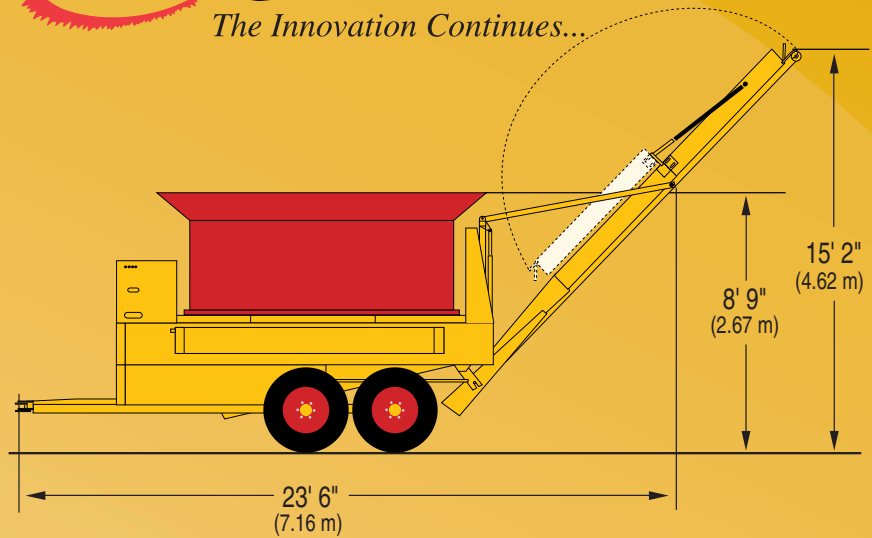
Total	9,440 lbs. (4282 kg)
Hitch, Conveyor Folded	900 lbs. (408 kg)

SHIPPING DIMENSIONS

(conveyor not mounted)	
Width	11' 3" (3.43 m)
Length	15' 2" (4.62 m)
Height	9' 8" (2.94 m)

TRANSPORT DIMENSIONS

(conveyor mounted)	
Width	11' 3" (3.43 m)
Length	24' 6" (7.47 m)
Height	9' 8" (2.94 m)

SPECIFICATIONS**CH-1100 Tilt Series 117***The Innovation Continues...*

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**CHASSIS FEATURES**

Towing Arrangement	clevis type hitch
Tires	four tubeless 9.5 x 15 implement tread
Wheels	8" x 15", 16 bolt, drop center
Bearing Type	tapered roller

REQUIREMENTS FOR OPERATION TRACTOR

- 1000 RPM PTO
- Min. PTO horsepower required-150
- Max. PTO horsepower allowed-200
- Min. Hydraulic Output-8 gpm (30.28 lpm) at 1,500 psi (30.28 lpm @ 10,342,135.92 pascal)
- Hydraulic Remote Control Valves - 2 double acting control valves with ISO compatible quick coupler outlets
- 12 Volt DC
- Choose the tractor's half PTO shaft size, either 1 3/8" (3.49cm) or 1 3/4" (4.45cm) 1000 RPM
- 10 gallons (37.85 l) of hydraulic oil (Mobil 423, Coop super HTB or equivalent).

OPTIONS EQUIPMENT

- Grain Grinding Hopper
- Ear Corn Kit
- Geyser Plate
- Mill Grate
- 4' Conveyor Extension
- Bark & Wood Chip Kit
- Loose Hay Guide
- Grinding Screen Hole Diameters (in inches) 1/8, 3/16, 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/2, 2, 3, 4, 5, 6, 7, 8
- Diameters (in centimeters) .317, .476, .635, .953, 1.27, 1.59, 1.91, 2.54, 3.81, 5.08, 7.62, 10.16, 12.7, 15.24, 17.78, 20.32