1 – Telescoping PTO Drive
2 – Mill/Blower Drive Sheave
3 – Auger/Transmission Drive Sprocket
4 – Main Drive Shaft
5 – Pump & Pump Driven Sheave
6 – Pump Drive Sheave
7 – Transmission Drive Sprocket
8 – Transmission Driven Sprocket
9 – Transmission
10 – Mixing Auger
11 – Auger/Transmission Drive Shaft
12 – Blower
13 – Mill Cylinder
14 – Mill/Blower Drive Shaft
15 – Intake Auger Shear Device
16 – Mill/Blower Driven Sheave
17 – Auger/Transmission Driven Sprocket
18 – Auger/Transmission Shear Device
19 – Intake Auger

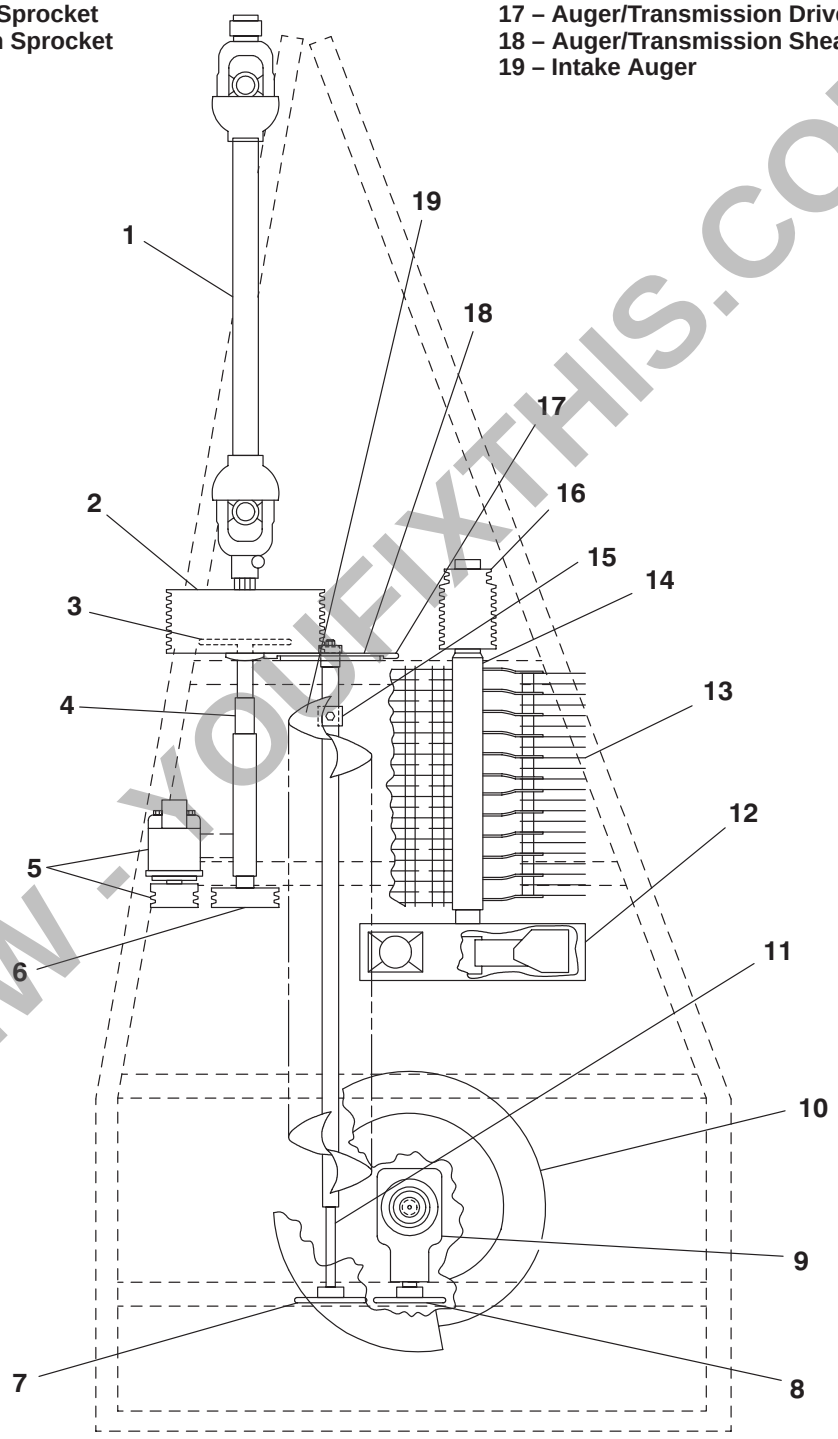


Fig. 15: Drive Line Components

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CHAPTER 9
SERVICE

WARNING

BEFORE servicing this unit, exercise the MANDATORY SAFETY SHUTDOWN PROCEDURE (page 10).

NOTE: *The following information is referred to in both the Troubleshooting Guide and the Maintenance Schedule chapters of this manual. It should be understood that all services detailed in this chapter are Owner-Operator responsibilities. Where indicated, certain service routines should only be carried out under the direction of an authorized GEHL equipment dealer.*

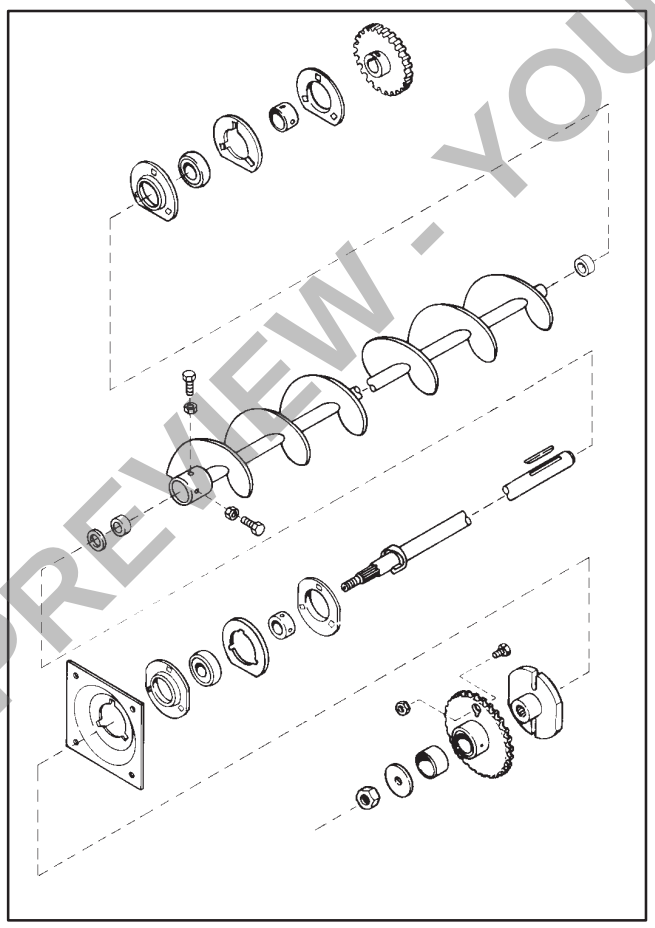


Fig. 42: Auger/Transmission Drive Exploded View

AUGER/TRANSMISSION (MAIN) DRIVE SHAFT & INTAKE AUGER (Fig. 42)

Removal

The following steps MUST be taken to remove the Auger/Transmission (Main) Drive Shaft & Intake Auger from the Mixer.

In the rear of the Mixer:

1. Loosen and remove the Transmission (Rear) Drive Chain Guard.
2. Release the Drive Chain Idler tension and remove the Chain.
3. Remove and retain the Key and Drive Sprocket from the end of the Auger/Transmission Drive Shaft.
4. Loosen, remove and retain the Set Collar.

In the front of the Mixer:

5. Open the large Front Guard. Remove the Guard by detaching the Hinges from the Mixer Frame.

NOTE: *If the Grinder Mixer has a 1000 RPM Drive, proceed to step 6. If the Grinder Mixer has a 540 RPM Drive, it will be necessary to remove the Mill/Blower Drive Belt, to loosen the Main Drive Shaft Take-ups and to move the Mill/Blower Drive Sheave away to provide the necessary clearance for Drive Sprocket and Shear Plate removal as well as component replacement.*

6. Release Idler tension and remove the Front Drive Chain.
7. Loosen and remove the Lock Nut, the Sprocket and the Shear Plate.
8. With the Bearing and Retainers loosened (but NOT removed), remove the Mill Bearing Cover by detaching the (4) corner fasteners.
9. After the Bearing Cover is removed, the Shaft and Auger assembly can be removed from the Mixer.
10. If one or the other component (Auger or Shaft) is being replaced, remove the Intake Auger Shear Bolt so that both parts can be separated.

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TORQUE SPECIFICATIONS

NOTE: *Use these torque values when tightening **GEHL** hardware (excluding: Locknuts and Self–tapping, Thread Forming and Sheet Metal Screws) unless specified otherwise.*

All torque values are in Lb-Ft except those marked with an * which are Lb-In
(For metric torque value Nm, multiply Lb-Ft value by 1.355 or Lb-In value by 0.113)

Unified National Thread	Grade 2		Grade 5		Grade 8	
	Dry	Lubed	Dry	Lubed	Dry	Lubed
8-32 8-36	19* 20*	14* 15*	30* 31*	22* 23*	41* 43*	31* 32*
10-24 10-32	27* 31*	21* 23*	43* 49*	32* 36*	60* 68*	45* 51*
1/4-20 1/4-28	66* 76*	50* 56*	9 10	75* 86*	12 14	9 10
5/16-18 5/16-24	11 12	9	17 19	13 14	25	18 20
3/8-16 3/8-24	20 23	15 17	30 35	23 25	45 50	35
7/16-14 7/16-20	32 36	24 27	50 55	35 40	70 80	55 60
1/2-13 1/2-20	50 55	35 40	75 90	55 65	110 120	80 90
9/16-12 9/16-18	70 80	55 60	110 120	80 90	150 170	110 130
5/8-11 5/8-18	100 110	75 85	150 180	110 130	220 240	170 180
3/4-10 3/4-16	175 200	130 150	260 300	200 220	380 420	280 320
7/8-9 7/8-14	170 180	125 140	430 470	320 360	600 660	460 500
1-8 1-14	250 270	190 210	640 710	480 530	900 1000	680 740
Metric Course Thread	**Grade 8.8**		**Grade 10.9**		**Grade 12.9**	
	Dry	**Lubed**	**Dry**	**Lubed**	**Dry**	**Lubed**
M6-1	8	6	11	8	13.5	10
M8-1.25	19	14	27	20	32.5	24
M10-1.5	37.5	28	53	39	64	47
M12-1.75	65	48	91.5	67.5	111.5	82
M14-2	103.5	76.5	145.5	108	176.5	131
M16-2	158.5	117.5	223.5	165.5	271	200

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CHAPTER 13
TROUBLESHOOTING

NOTE: *This Troubleshooting guide presents problems, causes and suggested remedies beyond the extent of loose, worn or missing parts and it was developed with the understanding that the machine is in otherwise good operating condition. Refer to the index at the back of this manual for Chapter and Topic page references. BE SURE to exercise the MANDATORY SAFETY SHUTDOWN PROCEDURE (page 10), BEFORE making any adjustments or repairs.*

MILL & MIXER DRIVE

PROBLEM	CAUSE	REMEDY
Power Shaft vibrates excessively.	Improper tractor hook-up.	Adjust hook-up.
	Tractor being operated at an angle.	Align tractor straight-away with Mixer.
	Power Shaft bent.	Replace Power Shaft.
	Power Shaft Bearings worn.	Replace Bearings.
Mill does NOT turn.	Pin NOT engaged (improperly engaged).	Correctly engage Pin
	Mill/Blower Drive Belt slipping.	Readjust Belt tension.
Mixing Auger NOT turning.	Transmission Shear Bolt sheared.	Replace Bolt and correct cause of Bolt failure.
	Front Drive Chain disconnected.	Repair or replace Chain.
	Transmission (Rear) Drive Chain disconnected.	Repair or replace Chain.
	Sprocket Key(s) sheared.	Replace Key(s).
	Transmission Gear Key(s) sheared.	Replace Key(s).
	Broken Shaft(s).	Replace Shaft(s).
Intake Auger NOT turning.	Intake Auger Shear Bolt sheared.	Replace Bolt and correct cause of Bolt failure.
	Front Drive Chain is broken or disconnected.	Repair or replace Chain.

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CHAPTER 2
SPECIFICATIONS

All Dimensions are in Inches (Millimeters) Unless Otherwise Noted

Model & Description . . . . . MX125 Mixer
Tank Capacity . . . . . 125 cu ft (3.54 cu m)
Overall Length 155 (3940)
Overall Height 106 (2690)
Transport Width (Maximum) 96 (2440)
Ground Clearance 10 (255)
Hydraulic System . . . . . Self-contained (Includes Pulley-driven Pump, Reservoir, Filter and Pressure Relief Valve)

Weights (Approximate):

Mixer with Swinging Auger Feeder Attachment . . . . . 3000 lb (1360 kg)
Mixer with Feed Roll Attachment . . . . . 2800 lb (1270 kg)
Mixer with Swinging Auger/ Feed Roll Attachment . . . . . 3160 lb (1435 kg)
For 11L x 15 Tires . . . . . Add 25 lb (11 kg)
For Electronic Scale & Weighbars . . . . . Add 40 lb (18 kg)
Mill to Tank Transfer Auger Diameter 7 (180)
Available Tire Size . . . . . 11L x 15
Recommended Tractor Power . . . . . Up to 115 hp for 540 RPM or Up to 145 hp for 1000 RPM

Mill/Blower

Cylinder and Blower Speed . . . . . 2700 RPM
Hammers . . . . . 66; 4-way Reversible
Inlet Opening 21 (535)
Cylinder Diameter 20 (510)
Drive . . . . . 8 “A” Section Banded Drive Belt
Hopper . . . Furnished with Metal Extracting Magnet

Discharge & Unloading Conveyor

Conveyor Diameters 8 (205)
Unloading Conveyor
Length 144 (3660)
Height . . . . . Adjustable up to 156 (3960)
Unloading Rate (Max) 28 Bushels/Min (1.0 m^3/min)
Drives . . . . . Independent Hydraulic Motors
Concentrate Hopper . . . . . 23 (585) W x 18 (455) L x 35 (890) Above the Ground

Swinging Auger Feeder (“SAF”)

Conveyor Length 84 (2135)
Auger Diameter 12 (305)
Infeed Hopper
Width . . . . . 42 (1065); with Fold-in Flare
Height . . . . . Adjustable as low as 20 (510)
Drive - Direct . . . . . Independent Hydraulic Motor

Feed Roll Feeder (“FR”)

Drive - Direct . . . . . Independent Hydraulic Motor

Swinging Auger/Feed Roll Feeder (“SAFR”)

Conveyor Length 84 (2135)
Auger Diameter 12 (305)
Infeed Hopper
Width . . . . . 42 (1065); with Fold-in Flare
Height . . . . . Adjustable as low as 20 (510)
Drive . . . . . 2 Hydraulic Motor Drives - has Shut-off for Swinging Auger Feeder to use Feed Roll Feeder Separately

Selectable Features - Factory Installed

Feeder Attachments:
Swinging Auger Feeder (“SAF”)
Feed Roll Feeder (“FR”)
Swinging Auger/Feed Roll Feeder (“SAFR”)
Gravity Feeder (“GF”)
Electronic Weighing Scales (Model 1500/2100 or 3200 Scale Indicator)
Axle Sets - Standard or Electronic Scale (Adaptable)
PTO Drives - 540 or 1000 RPM

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CHAPTER 17
MAINTENANCE LOG

SERVICE EVERY 10 HOURS	
COMPONENT and SERVICE REQUIRED	**PROCEDURE and/or CHAPTER TOPIC REFERENCE (Check Page No. in Index)**
Lubricate Chains and appropriate grease fittings.	Refer to **Lubrication** chapter for Grease Fitting locations.
Oil Unloading Conveyor Winch and Pulleys and Rotating Telescoping PTO Drive Guard.	Refer to **Lubrication** chapter.

Date After Service is Completed							

SERVICE EVERY 50 HOURS	
Check Front Drive Chain tension.	Refer to **Adjustments** chapter for details.
Check Agitator Drive Belt and Hydraulic Pump Drive Belt tension.	Refer to **Adjustments** chapter for details.
Check Transmission Drive (Rear Drive Chain) tension.	Refer to **Adjustments** chapter for details.
Inspect condition of Unloading Conveyor Cable and Winch Mechanism.	See Unloading Conveyor topic in **Service** chapter.
Check Tire Pressure and Wheel Nut Torque.	Inflate Tires to 36 PSIG (252 kPa) and torque Wheel Nuts to 90 ft-lb (124 Nm).
Check hydraulic system oil level.	Refer to details in **Lubrication** chapter.
Lubricate appropriate grease fittings.	Refer to **Lubrication** chapter for Grease Fitting locations.
Oil Unloading Conveyor Transport Latch Pin and Feeder Attachment Pivot and Linkages.	Refer to **Lubrication** chapter.

Date After Service is Completed							

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CHAPTER 6
OPERATION

EMERGENCY SHUTDOWN

In an emergency or in case a foreign object enters the Mill Inlet, STOP Mixer operation IMMEDIATELY by disengaging the tractor PTO.

GENERAL INFORMATION

CAUTION

BEFORE operating the Mixer, review and comply with ALL SAFETY recommendations set forth in the SAFETY chapter of this manual.

NOTE: *Before starting to grind a crop, BE SURE the Tank Lid is closed, the Discharge Slide is closed and the Collector Cover is open.*

Best performance, smooth operation, uniformity of mixing and extended component life are obtained by operating the Mixer on level ground. To prolong the life of the Drive Line components, always maintain a straight-line alignment between the tractor and Mixer.

The most efficient grinding will be obtained by maintaining the tractor rated PTO speed which produces a Mill Cylinder speed of 2700 RPM. Cylinder speed should NOT be allowed to exceed 3000 RPM or to drop below 2400 RPM. Before starting to grind, BE SURE the Discharge Slide is completely closed.

For best mixing action inside the Tank, add supplements after a small amount of feed has been ground, then dry granular materials next and hay or straw last. Grind heavy feeds before light feeds since light feeds do not mix as readily if ground first. When heavy feeds are high in moisture content, the heavy damp material should be mixed into the light material to obtain a better mixing action.

NOTE: *DO NOT attempt to grind feeds with too high a moisture content because this can cause a packing problem, plugging and result in poor mixing. Abnormally damp crops will not feed or mix well.*

Liquids, such as molasses, should only be added either by using an accessory Molasses Attachment or by direct application through the Mixing Tank Lid (and only after the Tank is filled half-way).

Observe the action of the ground feed through the Mixer Tank Windows. When the ground feed reaches the Port Hole Window, at the right rear corner of the Tank, the Tank is full and grinding should be immediately stopped. After all the ground material is cleared out of the Mill, stop the Mixer by exercising the MANDATORY SAFETY SHUTDOWN PROCEDURE (page 10) and disengaging the Pin on the Mill/Blower Drive Sheave.

IMPORTANT: *DO NOT overfill the Mixing Tank because this will cause the feed to pack and place unnecessary stress on the Drive Line components. Also, always keep the Tank Lid closed and properly latched in position so that if the Tank accidentally becomes overloaded the Lid can pop open and release pressure inside the Tank.*

The two full-length Windows on the side of the Tank are calibrated with numbers representing bushels of ground feed. Check both Windows for an accurate visual indication of the amount of material in the Tank.

NOTE: *For the most accuracy in rationing or proportioning, the Mixer should be equipped with an optional Electronic Scale.*

After grinding is completed, stop the tractor and disengage the Mill/Blower Drive Sheave Pin. Then, start the tractor again and allow the Mixer to continue running for several minutes to thoroughly mix the ground feed. If the Mixer is to be transported for any distance, it is advisable to disengage the Mill and allow the Mixer to run.

IMPORTANT: *To prevent damage to the Telescoping Drive and Drive Line components while transporting the Mixer with the Tank full and mixing, disengage the tractor PTO before turning corners.*

MIXER POWER

Telescoping Drive (Fig. 13)

MX125 Mixers are available with 540 Drive for use with up to 115 hp (86 kW) 540 RPM tractors or with 1000 Drive for use with up to 145 hp (109 kW) 1000 RPM tractors.

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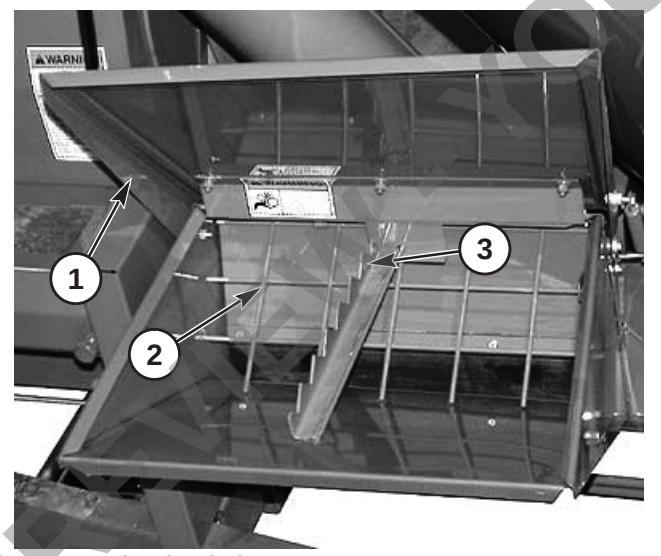
CHAPTER 5
CONTROLS & SAFETY EQUIPMENT

The Mixer is provided with several features for operator safety and convenience.

CAUTION

Become familiar with and know how to use ALL safety devices and controls on the Mixer BEFORE operating this equipment. Know how to stop Mixer operation BEFORE starting it. This Gehl Mixer is designed and intended to be used ONLY with a mounted Gehl Company Feeder Attachment. Gehl Company will NOT be responsible for operator safety if used without a completing Gehl Feeder Attachment.

CONCENTRATE HOPPER (Fig. 1)



1 – Spring-loaded Cover
2 – Bag Guard
3 – Bag Breaker

Fig. 1: Concentrate Hopper with Cover Open

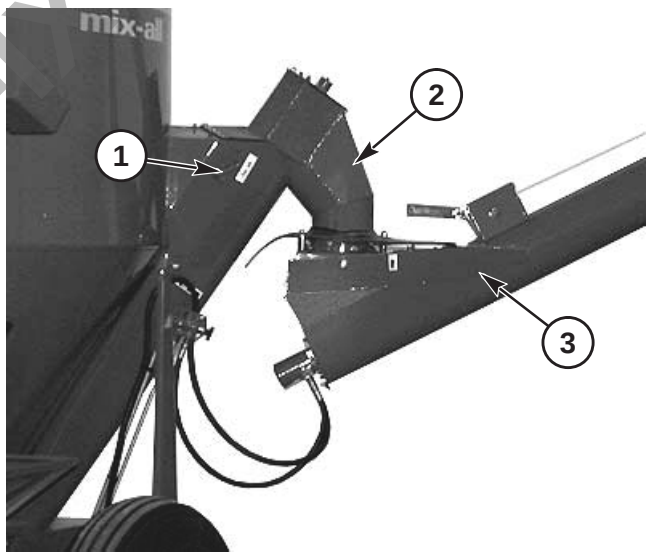
The Concentrate Hopper is used to place dry additives into the Mixer. The Cover on the Concentrate Hopper is spring-loaded to hold it in either the open or closed position. A Bag Guard is provided and should NEVER be removed while operating the Mixer. A Paper Bag Breaker is also provided; BE SURE to flip the toothed-side over, when the Bag Breaker is NOT being used.

WARNING

DO NOT use the concentrate hopper unless the bag guard is in place. Keep hands out of the area of the concentrate hopper.

NOTE: *With NO material in the Concentrate Hopper, Intake Auger rotation can be observed by looking into the base of the Concentrate Hopper.*

DISCHARGE CONVEYOR (Fig. 2)



1 – Sliding Plate Control Crank (Each Side)
2 – Discharge Conveyor
3 – Unloading Conveyor

Fig. 2: Discharge & Unloading Conveyors

The Discharge Conveyor is used to remove ground feed from the Mixing Tank. The Conveyor Auger is driven directly by a Hydraulic Motor which is connected in series with the Unloading Conveyor Motor. Motor operation is controlled by a single “on-off” Valve.

A Manual Crank-controlled Sliding Plate is used to regulate the amount of material feeding into the Discharge Conveyor through the Discharge Chute.

NOTE: *BE SURE the Sliding Plate is completely closed over the Discharge Chute before starting to grind, mix or unload.*

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