



SUNDANCE
EQUIPMENT, LLC



The Kid Grinding System is totally enclosed for safe and trouble free Particle Reduction.

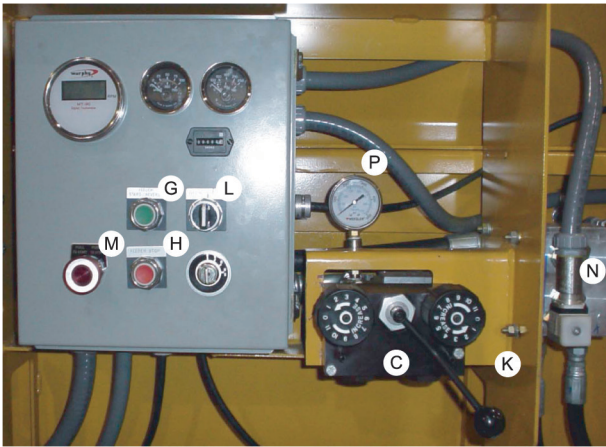
The "PATENTED" GENERAL PURPOSE YARD AND WOOD WASTE PARTICLE REDUCTION GRINDER/CHIPPER

THE KID III WILL EASILY GRIND:

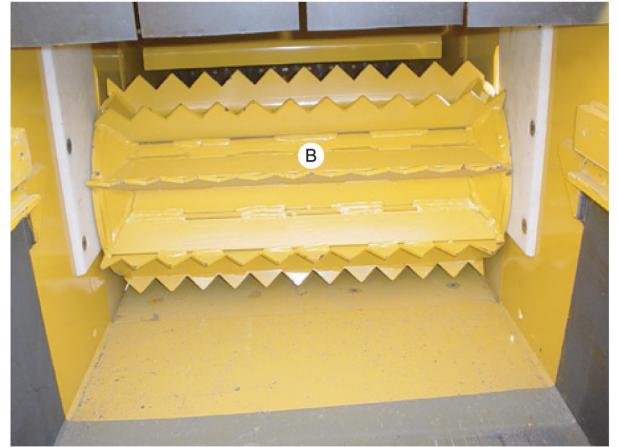
- ✓ Wet material up to 70% moisture content.
- ✓ Typical food waste without plugging.
- ✓ Regrind unsaleable chipper chips into a profitable mulch.
- ✓ Construction waste at the job site and the yard.
- ✓ Typical yard waste - provide quicker composting due to fine grind.
- ✓ Paper and cardboard for use as a bedding material or bulking agent.
- ✓ Landscape waste and convert it to valuable mulch or compost.
- ✓ Wood waste from pallet manufacturers and lumber yards and convert it to saleable mulch.
- ✓ Hard to grind material such as palm fronds and other stringy type material.
- ✓ Regrind compost material prior to sale. Eliminate the screening process.
- ✓ Tumbleweeds and other problem weeds.

...AND OTHER DIFFICULT TO GRIND ORGANIC MATERIALS.

THE KID EXCLUSIVE "AUTO-CYCLE" FEEDING SYSTEM



Control Panel



Feed Roll- Lower Position

THE KID III exclusive "Auto Cycle" hydraulic drive feeding system controls the flow of material to the extra heavy duty rotor and hammers. Material to be ground is placed in the hopper using an appropriate size loader or by hand. The feeder assembly movement is controlled by twin hydraulic cylinders (A) which moves material to the rotating Feed Roll (B). The speed of the feeder assembly is controlled by the Flow Control Valve (C). Directional movement of the feeder assembly is activated by limit switches at the end of the forward and reverse strokes of the feeder assembly. As the feeder assembly moves forward, a Feed Plate (D) is pulled with it which seals off the bottom section of the hopper. Material placed on the feed plate falls to the bottom section of the hopper as the feeder assembly moves to the rear. The same material is then fed to the feed roll and rotor on the forward stroke of the feeder assembly. Material can be dumped into the hopper whether the feeder assembly is in the forward (E) or rear position (F) or anywhere in between.

The feeder or ram is started in motion by pressing the green feeder start button (G), and stopped by pressing the red feeder stop button (H). The feed roll is driven by a direct drive heavy-duty hydraulic motor (J), through a chain coupling. The speed of the feed roll is controlled by a flow Control Valve (K). A manual directional switch (L) controls the forward and reverse rotation of the feed roll. The entire machine, including the engine, can be stopped by pushing the Emergency Stop button (M) on the control panel or another on the loading side of the grinder.

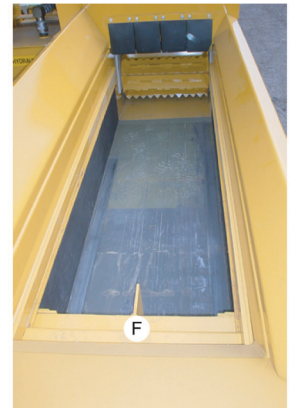
The hydraulic system is supplied by a pressure and load compensating hydraulic pump which supplies pressure and flow only as required, thus generating less heat, resulting in improved hydraulic performance.

When the rotor R.P.M. drops below 1700, an underspeed switch pauses both the feeder assembly and the feed roll until three seconds after the R.P.M. again exceeds 1700.

The hydraulic system is equipped with a pressure switch (N) that reverses the feeder assembly and the feed roll when the feeder assembly cylinder pressure exceeds the preset level. After the pressure drops below the preset level, and after a three second delay, the direction of the feeder and feed roll return to normal. This action helps prevent plugging at the feed roll opening and provides trouble free and unattended performance. A pressure gauge (P) indicates the hydraulic system pressure and a pressure relief valve at the controls, as well as in the pump, protects the hydraulic system.



Feeder - Forward position



Feeder - Rear Position

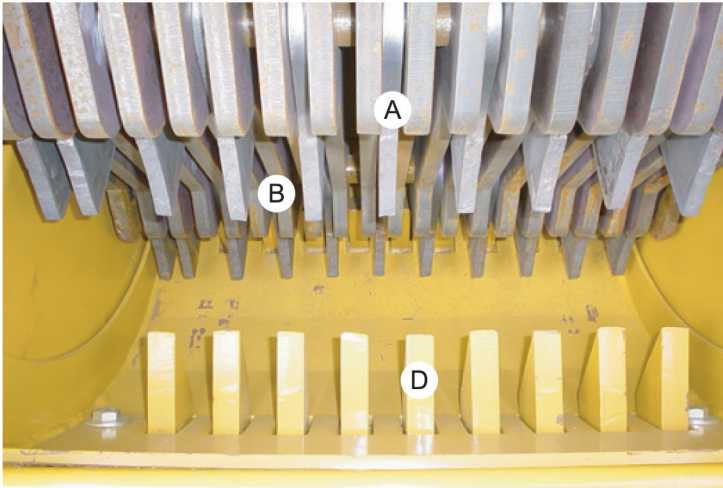


Feeder Double Hydraulic Cylinder

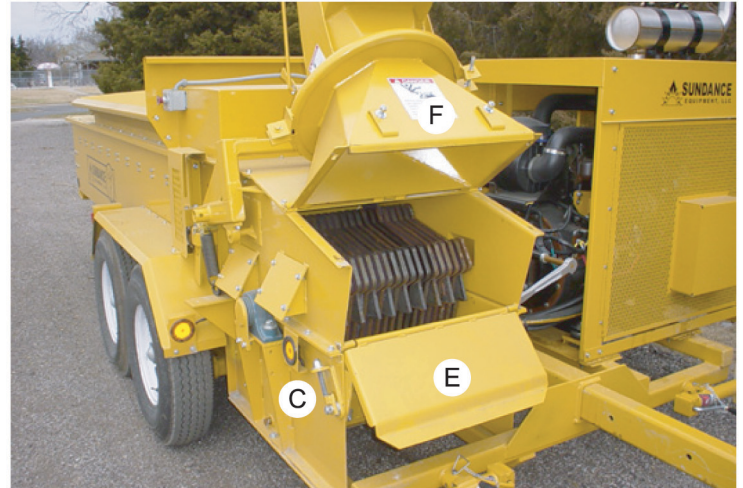


Heavy Duty Hydraulic Motor Turns Feed Roll

THE TOTALLY ENCLOSED AND SAFE GRINDING SYSTEM PROVIDES EFFICIENT AND UNIFORM PARTICLE REDUCTION



Heavy duty rotor with hammers and stationary grinding fingers



Grinder with access panel lowered and discharge to the rear for easy access to hammers and grinding chamber

The heart of the Kid III patented grinding system is the heavy 1400 pounds balanced Rotor Assembly (A) equipped with 44 (optional 80) pointed, heat treated and hard surfaced hammers (B). The 32" diameter rotor assembly provides extra momentum to grind wet materials and other difficult to grind waste products. The rotor shaft is 3" in diameter and the rotor bearings are 2.5" in diameter for added strength and durability.

Particle size is determined by positioning of the adjustable concave (C), the number of finger bars (D) engaged, the rate of material feed and the rotor R.P.M. In positioning the concave, the closer the concave and fingers are to the hammers, the finer the particle size. Material is moved into the grinding chamber by action of the hammers. Initial grinding takes place at the shear plate. The material and hammers then pass through grinding fingers where final particle reduction takes place.

The KID III can grind wet and difficult to grind material because the use of screens, which tend to plug in difficult grinding conditions, has been eliminated. Hammers are easily turned for longer life or replaced by opening the easy access panel (E), moving the pivoting discharge (F) to the rear and removing the hammer pin access plate.

The ground material is thrown out the discharge chute (G) up to 25' from the grinder into a pile, truck, or other container. It is possible to make a windrow of material by moving the discharge or the grinder to form a typical window. The discharge is locked into position by a convenient Discharge Positioning Control (H) and can rotate a full 360 degrees for easy positioning and accurate placement of material.



Forward directing discharge for easy and accurate positioning of material



Hammer access panel in operating position and exclusive grinding fingers where final particle reduction takes place



Engine and Control side of Grinder



Telescoping Tongue in retracted position

The Horizontal feed KID III grinder/chipper can grind wet and other difficult material where other grinders tend to plug in operation. The KID III's ability to handle this material is a result of our patented grinding process accomplished without the use of grinding screens.

The Grinder weighs 9600 pounds, with a 25" wide rotor weighing 1400 pounds with a rotor speed of 1950 R.P.M.

TYPES OF MATERIAL FOR PARTICLE REDUCTION

Yard and Landscape Waste

Limbs, shrubs, pine cones, leaves, bush, bark, vines, stalks, green or dry wood, grass clippings, compost, palm fronds, shrub clippings.

Commercial Waste

Newspaper, cardboard, trimmings, food waste, cans, wood for fuel, construction wood waste, wood shingles, animal zoo waste, sod.

Agriculture

Hay, Straw for bedding, grain, ear corn, manure, poultry bedding, orchard and vineyard clippings, corn stalks.

United States Patent #5205496

Canadian Patent #2110405



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YOUR LOCAL REPRESENTATIVE

SUNDANCE KID III SPECIFICATIONS

DIMENSIONS

Overall Length (hitch extended).....	22'
Overall Width.....	102"
Overall Height (discharge installed).....	100"
Loading Height (rear loading side flare).....	54"
Hopper Height (rear flare).....	58"
Hopper Width.....	26"
Hopper Width (top of flare).....	42"
Loading Width (top of flare).....	91"
Hopper Floor.....	5/8" thick

WEIGHT

Gross Weight.....	9600 lbs.
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CAPACITIES

Discharge Distance.....	Up to 25'
Discharge Direction.....	360 degrees
Feed Roll Speed.....	0-30RPM
Production.....	Typical Yard Waste - up to 20 tons per hour
	Wood Waste - up to 7 tons per hour
Wood Grinding Diameter.....	Up to 8"

Rotor

Diameter.....	32"
Bearings.....	2 1/2"
Shaft.....	3"
Hammers.....	Std-44-7 1/4" x 5 3/4" Pointed
	Optional (w/Concave Fingers Removed) - 80
Rotor Width.....	25"
Weight (w/Hammers).....	1400 lbs.
Hammer Pins.....	4 - 1 1/4" Steel
Rotor Speed.....	1950 RPM

Hydraulic System

Pump, Pressure and Flow Compensating.....	20gpm @ 1900 RPM
Reservoir Capacity.....	26 Gallon
Pressure Gauge.....	Standard

CONTROLS

Discharge Chute Raise and Lower Deflector	
Concave Adjustment for Particle Size	
Two Sets of Replaceable or Removable Fingers	
Feeder Assembly.....	Variable Speed - Start/Stop
Hydraulics.....	On/Off
Heavy Duty Feed Roll.....	Forward/Stop/Reverse
Heavy Duty Feed Roll.....	Variable Speed
Heavy Duty Feed Roll Crossover Pressure Relief Valve	
Emergency Stop Switch (2)	
Underspeed Pause Control	
High Pressure Feeder/Feed Roll Reverse	
Power	
Perkins 1104C Turbocharged Diesel Engine	
Charge Air Cooled	
Tier II Emissions	
127 H.P. with the following accessories:	

1) Muffler

2) Shutdown Controls for the following:

- Low Oil Pressure
- High Collant Temperature
- Engine Overspeed

3) Heavy Duty Stein 11" Clutch

Fuel Tank.....45 Gallons

Fuel Consumption (approximate).....3 gph

Trailer Package

Tandem Torflex Axles rated at 6000 lbs. each

Electric Brakes Both Axles

DOT Compliant Trailer Lights

Breakaway Control

Fully Adjustable and Removable Tongue

OPTIONS

Other Engines

Electric Drive

Finger Shear Bar

8" Discharge Extension

Hydraulic Oil Cooler

Quick Exit Discharge

Exhaust Silencer

Exhaust Spark Arrestor

Fire Extinguisher

The manufacturer reserves the right to upgrade its products or their specifications at any time without notice or obligation.