

3TEK
G L O B A L

NEXT 6280



3TEK NEXT™ SHREDDERS
REDEFINING
MOBILE SHREDDING



NEXT 6280 MOBILE SHREDDER

GENERAL SHREDDER DETAILS

- » Disk Rotor design: 4 Pin with 9 Disks
- » Width side wall to side wall: 80" (2,032 mm)
- » Shredder Wall thickness: 1.5" (38.1 mm)
- » Wear Liner thickness: 3" (76.2 mm)
- » Feed Chute: 16 ft. (4.9 m) long
- » Single Feed Roll: 42" (1,067 mm) diameter tip to tip with variable speed 6-10 RPM
- » CAT C32 Tier 4 Certified by Factory providing 1125 hp

ROTOR DETAILS

- » Rotor Speed: 750 rpm
- » Hammer Swing Diameter: 62" tip to tip (1,575 mm)
- » Rotor Bearing and Lubrication: 10" (254 mm) bearings with grease lubrication and RTD (resistive temperature device) on each bearing for protection
- » Hammer Pin Diameter: 3 7/8" (98 mm)

HAMMERS

- » Hammer Weight: 240 lbs. (109 kg)
- » Material: Cast Manganese
- » Quantity: 8 as standard

OTHER SHREDDER CASTINGS: GRATES, ANVILS, ETC.

- » Anvil: 3 Piece Bolt in design
- » Reject Door: 24" (610 mm) tall. Designed for aggressive discharge of unshreddables
- » Back Wall: 5.0" thick (127 mm) thick, reversible to increase available life
- » Reject Door and Back Wall: Angled grate opening to improve discharge efficiency

FEED SYSTEM

RAMP

- » 16 feet (4.9 m) long, loading height 24 feet (7.3 m); replaceable AR wear plates under feed roll. Side walls ½" (12.7 mm) thick.

SINGLE FEED ROLL SYSTEM

- » Feed Roll Speed: 0-10 RPM
- » Hydraulic Drive: One hydraulic motor driven by closed loop piston pump

FEED ROLL

- » 36" (914 mm) drum diameter, 42" (1,067 mm) outer tooth diameter
- » Construction: Using one (1 inch) (25.4 mm) thick rolled steel with 3" (76.2 mm) AR (Abrasion Resistant) teeth supported by heavy duty flange bearings

TRACK UNDERCARRIAGE MOUNT

- » Size: 345 Class
- » Length & Width: 16 feet (4.9 m) long with 36" (900 mm) Triple Grouser Pads

SHREDDER TAKEAWAY CONVEYOR

- » 48" (1,219 mm) wide by 12' (3.7 m) long steel belt

PRODUCTION ENGINE

- » Manufacturer: Caterpillar Tier 4 Certified by Factory
- » Model: C32, 32.1 Liter displacement
- » Engine HP: 1125 HP @1750 RPM
- » Engine Configuration: V-12 Cylinder, Four Stroke, Twin Turbocharged and Aftercooled
- » Intake: Two (2) Donaldson dry type air filters with safety elements and pre-cleaners
- » Cooling: HD folded core radiator
- » Fuel Storage: 150 gallon (568 L) Day Tank complete with float switch and motorized pump to connect to remote storage tank.
- » Fuel Consumption at Rated Production: 30 gallons/hour (114 liters/hour)

3TEK NEXT 6280 MOBILE DIESEL HAMMER MILL

| | |
|-------------------------------------|---|
| OUTPUT | 15 tons/hr. in ferrous output capacity (13.7 m tons/hour) |
| YARDS | 10,000 – 30,000 tons/year |
| OUTPUT SCRAP DENSITY | 65-70 Lbs./cubic ft. |
| OPERATING COST/TON* | Less than \$30 USD/ton |
| 3TEK 6280 MACHINE WARRANTY | 14 months/2000 hours |
| CAT EXTENDED ENGINE WARRANTY | 5 year/6000 hours Platinum Limited Warranty* |

NEXT 6280 SHREDDER MODULE ASSEMBLED & OPERATING DATA

| | |
|--|---|
| WEIGHT | 250,000 Lbs. (113,400 kg) |
| LENGTH | 50'0" (15.2 m) edge of feed chute to end of takeaway conveyor |
| WIDTH | 14'0" (4.3 m) |
| HEIGHT | 24'0" (7.3 m) to top of erected feed chute |
| LOADING HEIGHT | 24'0" (7.3m) |
| CAT DIESEL MODEL/HP. | CAT C32 Tier 4 certified @1125 hp |
| FUEL CONSUMPTION AT RATED OUTPUT | 30 gallons/hour (114 liters/hour) |
| DEF FLUID CONSUMPTION AT RATED OUTPUT | 3.0 gal/hour (11.4 L/hour) |

DRIVE TRAIN

- » Torque converter with integrated clutch
- » Speed Reducer: Two heavy duty pulleys with Kevlar V belts reduce speed from 1750 diesel engine RPM to 750 shredder rotor RPM. This drive train design is specifically chosen to handle the shock loads and high torque required during the shredding operation.

NEXT SYSTEM CONTROLS

- » Industry Standard Allen Bradley Mobile Control platform for Shredder performance and diagnostic information
- » Control system with remote master display has multicolored graphical module with easy to read display
- » Fully functional automatic feed control system designed to maximize production by analyzing machine performance inputs from multiple sources

COMPACT PIN PULLER

- » Included as standard

OPTIONAL EQUIPMENT

INFEED CONVEYOR

- » Standalone twenty-four foot (7.3 m) steel belt utilizing CAT D4 components with fixed support structure. This device couples to the shredder feed ramp enabling shredder loading at lower height and higher sustained feed rates. When purchased we integrate control through the NEXT 6280 Shredder Control Module.

MACHINE MOUNTED FUEL TANK

- » 300 gallon (1,136 L) fuel tank replaces standard 150 gallon for added on board fuel capacity

DOWNSTREAM SEPARATION SYSTEMS

FERROUS AND NONFERROUS SEPARATION:

- » Single Drum Permanent Magnet
- » Designed to pair with the NEXT 6280 Shredder takeaway conveyor
- » Steel Skid base stand
- » Two 20' (6.1 m) Ferrous and Nonferrous conveyors included as part of assembly

NONFERROUS SEPARATION SYSTEM

- » Single Eddy Current design
- » Steel skid base stand
- » Designed and sized to align with NEXT 6280 Single Magnet Stand
- » One 20' (6.1m) ECS Negative Conveyor included as part of the assembly

SMALL YARDS. RISE UP!

Specifications are subject to change.

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