



NEXT 7400

NEXT 2500E



3TEK NEXT™ SHREDDERS

**REDEFINING
SHREDDING**



NEXT 7400 SHREDDER MODULE

GENERAL SHREDDER SPECIFICATIONS

- » Disk Rotor design
- » Width (outer side wall to side wall): 100" (2.5 m)
- » Shredder Wall thickness: 2.0" (50.8 mm)
- » Wear Liner thickness: Contoured 3.0 to 5.0" (76.2 to 127.0 mm)
- » Feed Chute: 40 degrees, 24 ft. (7.31 m) long
- » Double Feed Roll System: feed roll system with variable speed 0-14 RPM
- » QuadPlus 2500 hp DC Drive
- » Electric motor driven HPU for power for hydraulic functions & mobility

ROTOR DETAILS

- » Speed: 720 rpm delivering 160 mph (256 km/hr.) hammer speed
- » Hammer Swing Diameter: 74" tip to tip (1,880 mm)
- » Bearing lubrication: Recirculating oil bath

HAMMERS

- » Weight: 287 Lbs. (130 kg)
- » Material: Cast Manganese
- » Quantity: 10 to 16, 12 is standard
- » Configuration: Variable per customer requirements

OTHER SHREDDER CASTING DETAILS & FEATURES

- » Anvil: Three piece bolt in design
- » Reject Door: 36" (914.4 mm) tall opens inward
- » Back Wall: 7.5" (190.5 mm) thick, reversible
- » Reject Door and Back Wall: Angled grate openings

UNDER MILL VIBRATOR

- » Vibratory shaker deck collects processed scrap from shredder
- » Heavy duty construction
- » Dimensions: 74" (1880 mm) wide, 182" (4,623 mm) long, 16,000 lbs. (7,257 kg)
- » Electrically powered @ 900 cycles/minute

FEED SYSTEM

- » Ramp: 40 degree Angle, 24 ft. (7.3 m) long, loading height 30 ft. (9.1 m); one (1") inch (25.4 mm) thick replaceable AR wear plates under feed rolls.
- » Double Feed Roll System
 - Feed Roll Speed: Variable, 0-14 rpm
 - Hydraulic Drive: Hydraulic Motors driven by two closed loop piston pumps
 - Feed Rolls:
 - Upper: 42" (1,067 mm) drum diameter, 48" (1,219 mm) outer tooth diameter
 - Lower: 32" (812.8 mm) drum diameter, 38" (965.2 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

- » Size: 385 Class
- » Length: 21'10" (6.7 m)
- » Width: 16'0" (4.9 m) wide with 10'0" (3.0 m) inside, 36" (900 mm) Triple Grouser Pads

PIN PULLER PLATFORM

- » Included as standard
- » Hydraulic cylinder mounted on work platform

NEXT SYSTEM CONTROLS

- » Industry Standard Allen Bradley Industrial control platform for Shredder and Power Module performance and diagnostic information
- » Control system with 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
- » Tethered Control Box

NEXT 7400 & NEXT 2500E

OUTPUT	50 tons/hr. ferrous Output capacity (45.5 m tons/hr.)
OUTPUT SCRAP DENSITY	70-75 Lbs./cubic ft. (1.1-1.2 m ton/cubic meter)
OPERATING COST/TON	Less than \$20/ton

ASSEMBLED & OPERATING DATA

	NEXT 7400 SHREDDER MODULE	NEXT 2500E POWER MODULE
WEIGHT	411,000 Lbs. (186,430 kg)	59,000 (26,762 kg)
LENGTH	34'9" (10.57 m)	26'0" (7.9 m)
WIDTH	16'0" (4.88 m)	29'6" (9 m)
HEIGHT	29'2" (8.89 m)	18'0" (5.5 m)
LOADING HEIGHT	30 feet (6.35 m)	N/A

NEXT 2500E POWER MODULE AND CONTROLS

PRODUCTION MOTOR

- » Manufacturer: QuadPlus
- » Model: EMD32
- » Motor Drive Type: DC Drive
- » Motor RPM: 750
- » Motor DC Voltage: 700 VDC

MOTOR BUILDING (UPPER FLOOR)

- » Insulated twenty (20') foot (6.1 m) container with double doors on each end, partition and lighting. Positive pressure ventilation for both motor and motor room. Floor removed for motor.
- » Air Compressor: 15HP, rotary screw type

MOTOR BUILDING (LOWER FLOOR)

- » Twenty (20') foot (6.1 m) Heavy beam construction fully enclosed insulated with lighting. Positive pressure ventilation in hydraulic room. Access doors both ends.
- » Building will contain 150HP HPU and Foam Injection System.

E-BUILDING

- » Insulated twenty (20') foot (6.1 m) container with service entrance doors, partitions, operator's room, MCC/PLC installed, HVAC (10 tons, 120,000 BTU/HR), lighting and outlets. Including fan, filtration and ductwork for motor building.
- » E Building will be supported by metal support legs to enable easy cleaning and rodent control.

NEXT SYSTEM OPTIONAL EQUIPMENT

FERROUS/NON-FERROUS DRUM SEPARATION

- » Single magnet assemblies available

INFEED CONVEYOR

- » Standalone twenty-four (24') foot (7.3 m) steel belt utilizing CAT D4 components with fixed support structure. This device couples to 40-degree feed chute enabling shredder loading at lower height and higher sustained feed rates. Other lengths also available.

REMOTE DIAGNOSTIC AND PERFORMANCE DATA LINK

- » Monthly performance data and reports services available.

SMALL YARDS. RISE UP!



Figure 1: NEXT 7400 & 2500E DC Drive with 3TEK Downstream Separation System

3 TEK DOWNSTREAM SEPARATION SYSTEMS

3TEK SINGLE DRUM MAGNET FERROUS NON-FERROUS DIVIDE

- » Drum Magnet and Heavy-duty stand: 48" (1,219 mm) diameter, 60" (1,524mm) wide permanent alternating pole magnet for improved separation
- » Shredder Product Conveyor: 60" (1,524 mm) wide by 25' (7.6 m) long with stainless steel head pulley for direct feed to drum magnet
- » Ferrous Transfer Conveyor: 36" (914 mm) wide by 20' (15.2 m) long
- » Non-Ferrous Transfer Conveyor: 36" (914 mm) wide by 40' (7.6 m) long
- » Over Band Magnet: to recover ferrous not captured by drum. Drive type: Electric

3TEK FERROUS PICKING STATION AND STOCK PILE CONVEYOR:

- » Picking platform four (4) person with conveyor for Copper and waste picking (removal)
- » Heavy duty support structure
- » Ferrous Stockpile Conveyor: 36" (914 mm) wide by 70' (21.3 m) long
- » Drive type: Electric

3TEK DUAL LINE NON-FERROUS ZORBA RECOVERY PLANT: 95%+ ZORBA RECOVERY

- » The 3TEK ZORBA recovery plant is designed to process ASR discharged from the magnet separation process and recover a high-quality ZORBA product, predominantly aluminum with zinc, copper & brass in small (less than 1 ½") (38 mm) and midsize (1 ½" - 3 ½") (38-89 mm) fractions.
- » Separation technologies used for 3TEK's ZORBA metal recovery:
 - EcoStar disk screen configured for 3 sizes: Less than 1 ½" (38 mm), 1 ½" to 3" (38-89 mm) and 3"+ (< 89 mm)
 - Eriez Rev X Eddy Current Separator – Small & Mid-fraction
- » Conveyors and Platforming:
 - Non-Ferrous takeaway conveyor - 36" X 50' (914 mm X 15.3 m)
 - EcoStar Screen Platform and Supports
 - Eddy Current Separator Platform and Supports – 30' X 13' (9.1 X 4 m) platform 8 ½' (2.6 m) tall
 - Three (3) ASR transfer conveyors (36" X 30') (914 mm X 9.1 m) – small, medium and large fractions
 - Two (2) vibrating feeders for Eriez Eddy Current Separators

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