



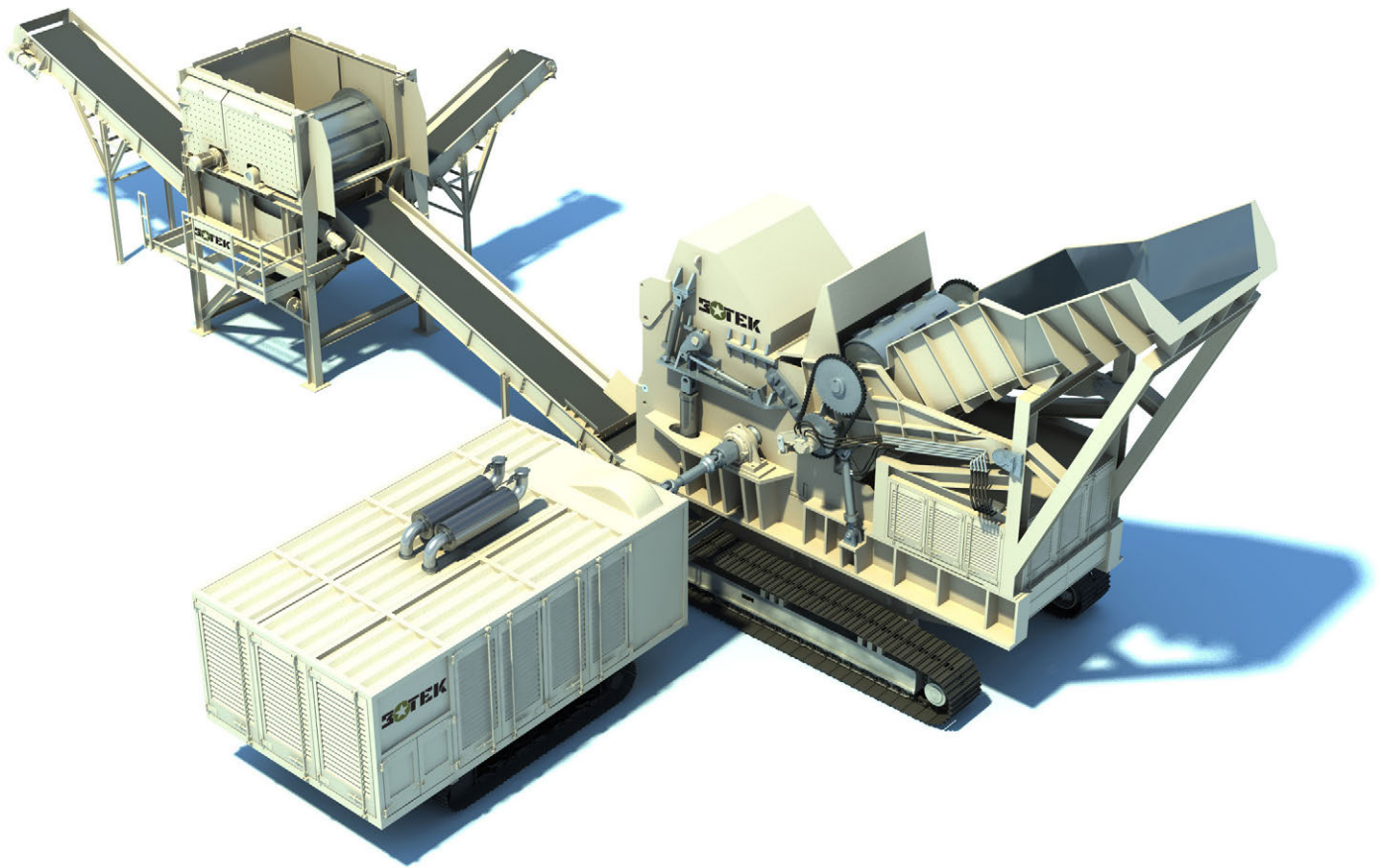
**ALPHA**

7400 ★ 2100



**REDEFINING  
MOBILE SHREDDING**





## ALPHA 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
- » CAT 4.4L Tier 4 certified diesel engine provides 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" (1,880 mm) wide, 182" (4,623 mm) long, 16,000 lbs. (7,257 kg)
- » Hydraulically powered @ 900 cycles/minute

### FEED SYSTEM

- » Ramp: 40 degree angle, 24 ft. (7.3 m) long, loading height 30 ft. (9.1 m); one inch (1") (25.4 mm) thick replaceable AR wear plates under feed rolls

### DOUBLE FEED ROLL SYSTEM

- » Feed Roll Speed: Variable, 0-14 RPM
- » Hydraulic Drive: Two hydraulic motors driven by closed loop piston pump

### 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 inch (1") (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
- » Track power: provided by CAT 4.4 Liter engine

### AUXILIARY ENGINE

- » Manufacturer/Model: CAT C4.4 Liter Tier 4 certified Diesel
- » Engine HP: 145 HP @ 1900 RPM
- » Fuel Storage: 25 gallons (95 liters)
- » Engine runs to drive track functions and for maintenance purposes only

### PIN PULLER PLATFORM

- » Included as standard with stair access
- » Hydraulic cylinder mounted to work platform

### ALPHA SYSTEM CONTROLS

- » Control system with master display has multicolored graphical module with easy to read display
- » Industry standard Allen Bradley industrial control platform for shredder and power module performance and diagnostic information
- » Fully functional automatic feed control system designed to maximize production by analyzing machine performance inputs from multiple sources
- » Tethered control box

## ALPHA 7400 ★ 2100

<b>OUTPUT</b>	40 tons/hr. ferrous output capability (36.4 m tons/hr.)	
<b>OUTPUT SCRAP DENSITY</b>	75-85 lbs./cubic ft. (1.2-1.3 m ton/cubic meter) capable	
<b>OPERATING COST/TON</b>	Less than \$20/ton	
<b>ASSEMBLED &amp; OPERATING DATA</b>	<b>ALPHA 7400 SHREDDER MODULE</b>	<b>ALPHA 2100 POWER MODULE</b>
<b>WEIGHT</b>	411,000 lbs. (186,430 kg)	80,000 lbs. (36,292 kg)
<b>LENGTH</b>	34'9" (10.57 m)	23'5" (7.13 m)
<b>WIDTH</b>	16'0" (4.88 m)	15'6" (4.75 m)
<b>HEIGHT</b>	29'2" (8.89 m)	13'6" (4.10 m)
<b>LOADING HEIGHT</b>	30' (9.1 m)	NA
<b>FUEL CONSUMPTION AT RATED OUTPUT</b>	NA	70 gal./hr. (265 liters/hr.)

## ALPHA 2100 POWER MODULE

### PRODUCTION ENGINE

- » Manufacturer: Caterpillar Certified Tier compliant
- » Model: 3516, 78 Liter
- » Engine HP: 2100 HP @ 1750 RPM
- » Engine Configuration: V16 cylinder, Turbo & Aftercooled
- » Intake: Four (4) Donaldson dry type air filters with safety elements and pre-cleaners
- » Cooling: HD folded core radiator with mechanically driven fan
- » Fuel Storage: 150 gallon (568 L) day tank complete with float switch to connect to remote fuel storage tank
- » Fuel Consumption at rated production: 70 gallons/hour (265 liters/hour)

### DRIVE TRAIN

- » Torque Converter with integrated clutch
- » Speed Reducer: Two heavy, steel pulleys 20" and 48" in diameter with twenty (20) 8V belts reducing speed from 1750 diesel engine RPM to 720 shredder rotor RPM. The drive shafts are specifically chosen to handle the shock loads and high torque required during the shredding operation. It is a flange mounted unit with universal joints at each end and a splined slip joint mounted in a heavy tubular construction
- » Drive Shaft: Heavy duty with U Joints and flanges on both ends

### TRACK UNDERCARRIAGE

- » Size Class: 320
- » Track Power: Provided by CAT 3516 Engine

## OPTIONAL EQUIPMENT

### FERROUS/NON-FERROUS DRUM SEPARATION

- » Single and Double magnet assemblies available

### FOAM INJECTION SYSTEM

- » Reduces processed material dust and other emissions while reducing water runoff

### WATER INJECTION SYSTEM

- » Similar to above, also for dust control

### INFEED CONVEYOR

- » Standalone eighty eight (88') foot steel belt utilizing CAT D4 components with fixed support structure. This device couples to 40 degree feed ramp enabling shredder loading at lower height and higher sustained feed rates.

### REMOTE DIAGNOSTIC AND PERFORMANCE DATA LINK

- » Monthly performance data and reports services available

### NON-FERROUS SEPARATION SYSTEMS

- » We offer a complete array of separation solutions that match our shredder output. Please contact us for more information.

# BUILT LIKE A TANK

*Specifications are subject to change.*



# MOBILE AND STATIONARY DOWNSTREAM SEPARATION SYSTEMS



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