

TANA SHARK 440E SHREDDER, WITH CONVEYOR
Technical specification 440E, conveyor-D101437C 15.9.2015

GENERAL

Single rotor slow speed shredder
Stationary, separate powerpack and shredding units
Powered by electric motors (400V/50Hz) (2 x 160 kW)
Hydrostatic shredding rotor transmission
Suitable for large variety of different materials and fractions
Controlled by electronic Tana Control System (TCS)
Left side counter wall is operated with hydraulic cylinder in order to remove unsuitable materials from the rotor area
Rotor knives and counter knives can be serviced when the counter wall is opened

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	SI	US	
Weight	21900 kg	48300 lb	
Total length in operation	11880 mm	38 ft	12 in
Total length in transportation	6660 mm	21 ft	10 in
Total width	2290 mm	7 ft	6 in
Total height in operation	3490 mm	11 ft	5 in
Total height in transportation	3260 mm	10 ft	8 in
Height of the fifth wheel coupling			
Feeding height	2860 mm	9 ft	5 in
Powerpack length	3320 mm	10 ft	11 in
Powerpack width	2040 mm	6 ft	8 in
Powerpack height	2400 mm	7 ft	10 in
Ambient operating temperature	-30 °C...+45 °C		
Exhaust emissions			
Warranty	Basic warranty 12 months/1500 operating hours		
Noise emissions	0		

SHREDDING TOOLS

	SI	US	
Rotor shredding length	3000 mm	9 ft	10 in
Rotor diameter	920 mm	3 ft	
Nominal rotor torque	440 kNm		
Rotor speed	0-21 rpm		
Turnable, bolt-on rotor knives with two wearing surfaces			
Number of rotor knives	33 pcs		
Turnable, drop-in counter knives with two wearing surfaces			
Number of counter knives	23 pcs		

ELECTRIC MOTORS	
Two electric motors, nominal power 2 x 160 kW	
Supply voltage 400V/50Hz. Customer is responsible for supply cables, correct sizing and legitimacy of installation. Allowed voltage drop is 10% and short circuit current min.5kA.	
Nominal current 2 x 279A	
Minimum supply fuse size 630A	
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Electric motors are controlled with advanced motor management and protection system. It is able to guard against all motor malfunctions; overload, overheating, current peak, excessive consumption, etc.	
Motor control and monitoring system is part of TCS system. Motor protection components are electronic type of fuses.	

POWER TRANSMISSION	
Closed circuit hydrostatic transmission	
Continuously variable and automatic rotor speed control	
Allows direction of rotor rotation in both directions	
Variable displacement axial piston pumps with electrical control	
Hydraulic motors with planetary gears in both ends of shredding rotor	
Air operated oil cooler	
Return line filter and two charge pressure filters with electrical indication	
Pressurized planetary gear lubrication	

AUXILIARY HYDRAULICS	
Open circuit system	
Electro-hydraulic control	
Used for counter wall open/close, conveyor drive, conveyor tilt, overband magnet drive and overband magnet height control	

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HYDRAULIC OIL TANK	
Hydraulic oil tank is located inside the engine hood.	
Automatic oil level monitoring system	
Breather filter	

CONTROL SYSTEM (TCS)	
Electronic control system	
CAN-bus communication between control modules	
Operational switch panel with colour display	
USB-connection for software updates etc.	
Remote control (Option)	

ELECTRIC BACK UP	
Battery based back up power supply with automatic recharge	
Back up system enables use of control system in case of main power supply errors (self diagnosis can detect faults in power supply)	

PRO TRACK	
Wireless ProTrack connection to TANA Control System information through Internet	

MAIN COMPONENTS AND INSTALLATION	
MAIN COMPONENTS: powerpack, shredder unit and operation switch panel	
Powerpack can be installed about 2 - 12 meters from shredder unit.	
Powerpack can be installed indoor but cooling air flow requirements must be considered.	
If powerpack installed outdoor then optional hoods recommended.	
Operation switch panel can be installed max about 10 meters from powerpack.	
Scope of supply does not include power supply cables.	

DISCHARGE CONVEYOR			
		SI	US
Discharge height			
Belt width			
Hydrostatic drive			
Adjustable belt speed			

SCREEN SYSTEM (optional)	
Shredder can be equipped with under rotor screen	
Size of end product can be easily calibrated by using proper size of screen	
Mesh sizes 109 - 275 mm	

OVERBAND MAGNET (optional)	
Permanent type magnet	
Hydrostatic drive	

TOOLS AND PARTS	
Hand tool kit	
Tools for wear part care	
Filters to be changed after the first 50 operating hours	

LITERATURE	
MANUALS	
TANA – operation manual	
TANA – service & maintenance manual	
TANA – spare parts manual	
Weights and measurements are given within normal tolerances. Manufacturer reserves the right to alter the above as necessary.	