

TANA SHARK 220DTeco SHREDDER
Technical specification 220DTeco-D101437C 15.9.2015

GENERAL

Single rotor slow speed shredder
Built on tracks
Powered by diesel engine
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

MAIN DIMENSIONS

	SI	US	
Weight	24240 kg	53400 lb	
Total length in operation	15760 mm	51 ft	8 in
Total length in transportation	10530 mm	34 ft	6 in
Total width	2860 mm	9 ft	5 in
Total height in operation	3730 mm	12 ft	3 in
Total height in transportation	3350 mm	10 ft	12 in
Height of the fifth wheel coupling			
Feeding height	2960 mm	9 ft	9 in
Powerpack length			
Powerpack width			
Powerpack height			
Ambient operating temperature	-30 °C...+45 °C		
Exhaust emissions	Fulfills U.S. EPA Tier 4 final, CARB Tier 4 final and EU Stage IV		
Warranty	Basic warranty 12 months/1500 operating hours		
Noise emissions	Lwa 116 dB (ISO3744:2010)		

SHREDDING TOOLS

	SI	US	
Rotor shredding length	3000 mm	9 ft	10 in
Rotor diameter	870 mm	2 ft	10 in
Nominal rotor torque	220 kNm		
Rotor speed	0-27 rpm		
Turnable, bolt-on rotor knives with two wearing surfaces			
Number of rotor knives	22 pcs		
Turnable, drop-in counter knives with two wearing surfaces			
Number of counter knives	23 pcs		

DIESEL ENGINE
Cummins QSX15, Tier 4 final (EU stage IV)
6-cylinder, in-line, water-cooled, turbo-charged, after-cooled, four-stroke diesel engine. Displacement 15 liters.
Electronic engine control system which communicates with shredder's TCS-control system through CAN-bus.
Power rating 399 kW (535 bhp)@2100 rpm, SAEJ1995
Maximum power 433 kW (580 bhp)@1800 rpm, SAEJ1995
Maximum torque 2644 Nm (1950 lb-ft)@1400 rpm, SAEJ1995
Dry type air cleaner with replaceable primary and safety element. In built pre-cleaner and service indicator.
Fuel coarse and fine filter, water separator
Oil filter, coolant filter
Radiator + separate charge air cooler
Exhaust aftertreatment device

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

UREAN TANK
Suction stainer
Capacity 56 l (15 US gal)
Level sensor with alarm

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

ELECTRICAL EQUIPMENT
24 VDC system
Batteries 12 V 180 Ah, 2 pcs
Circuit breaker
Socket for hand light in engine compartment

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

TRACKS
Two tracks with steel shoes
Overall track length appr. 4 m
Track shoe width 500 mm
Maximum speed 2.5 km/h
Transfer (operation) with remote control

DISCHARGE CONVEYOR			
	SI	US	
Discharge height	3610 mm	11 ft	10 in
Belt width	1030 mm	3 ft	5 in
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 103 - 258 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.