

**TANA SHARK 220D SHREDDER**

**Technical specification 220D-D222000- 1.2.2011**

**GENERAL**

Single rotor slow speed shredder
Build on semi trailer chassis
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	23450 kg	51700 lb	
Total length in operation	15740 mm	51 ft	8 in
Total length in transportation	10530 mm	34 ft	6 in
Total width	2520 mm	8 ft	3 in
Total height in operation	4150 mm	13 ft	7 in
Total height in transportation	3880 mm	12 ft	9 in
Height of the fifth wheel coupling	1270 mm	4 ft	2 in
Feeding height	3400 mm	11 ft	2 in
Ambient operating temperature	-30 °C...+50 °C		
Exhaust emissions	Fulfills U.S. EPA Tier 3, CARB Tier 3 and EU Stage IIIA		
Warranty	Basic warranty 12 months/1500 operating hours		

**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		

<b>DIESEL ENGINE</b>
Caterpillar C15 ACERT, Tier3 (stage IIIA)
6-cylinder, in-line, water-cooled, turbo-charged, after-cooled, four-stroke diesel engine. Displacement 15.21 liters.
Electronic engine control system which communicates with shredder's TCS-control system through CAN-bus.
Power rating 407 kW (540 bhp)@2100 rpm, SAE J 1995
Dry type air cleaner with replaceable primary and safety element. In built pre-cleaner and service indicator.
Fuel filter and water separator
Oil filter
Radiator + separate charge air cooler

<b>POWER TRANSMISSION</b>
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

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

<b>HYDRAULIC OIL TANK</b>
Hydraulic oil tank is located inside the engine hood.
Oil level indicator with alarm
Breather filter

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

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

<b>PRO TRACK</b>
12 month wireless Pro Track connection to TANA Control System through Internet

<b>SEMI-TRAILER</b>
EC – Whole Vehicle Type Approval: 2007/46EC – EC-WVTA / Commission regulation 371/2010
Bogie axles with leaf spring suspension
Max towing speed 80 km/h
Pneumatic brake system with ABS
Equipped with manual support legs (std) or hydraulic support legs (option)

<b>DISCHARGE CONVEYOR</b>			
	SI	US	
Discharge height	4000 mm	13 ft	1 in
Belt width	1030 mm	3 ft	5 in
Hydrostatic drive			
Adjustable belt speed			

<b>SCREEN SYSTEM (optional)</b>
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

<b>OVERBAND MAGNET (optional)</b>
Permanent type magnet
Hydrostatic drive

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

<b>LITERATURE</b>
<b>MANUALS</b>
TANA – operation manual
TANA – service & maintenance manual
TANA – spare parts manual
Diesel engine – operation & maintenance manual
Diesel engine – parts catalog
Weights and measurements are given within normal tolerances. Weight of D-, EM-, DT- and ET-models includes overband magnet, screen and screen support bars. Manufacturer reserves the right to alter the above as necessary.