

# DUAL-SHEAR SHREDDER UNIT SPECIFICATIONS

<b>Model</b>	<b>M120H(75)</b>	<b>Customer Name</b>	<b>Pitbull Blade Demo</b>
	<b>275 HP (205 kW)</b>	<b>Customer Order</b>	<b>421.1254</b>
<b>Serial No.</b>	<b>S3138</b>	<b>Job No</b>	<b>21.1054</b>

<p><b>Electrical</b></p> <p>Voltage/Phase/Freq. N/A</p> <p>Control Voltage 24 VDC</p> <p><b>Planetary Gear Reducer</b></p> <p>Manufacturer Reggiana</p> <p>Model RR15000-L2</p> <p>Ratio 17.4:1</p> <p><b>Hydraulic Motor</b></p> <p>Manufacturer Hagglunds CA50/32</p> <p>Forward Cross port Relief 4,200 psi (290 Bar)</p> <p>Reverse Cross port Relief 1,700 psi (120 Bar)</p> <p><b>Hydraulic Pump</b></p> <p>Manufacturer Sundstrand</p> <p>Model #1 Pump 90R250</p> <p>Model #2 Pump Metaris MA10VS</p> <p>Total Displacement 18.9 cu.in./rev (310 ml/rev)</p> <p><b>Cutter Stack</b></p> <p>Start Clearance 0.25in (6.4mm)</p> <p>Stack Order see S3138.xls</p> <p>Cutter Diameter 24.0 in (610 mm)</p> <p>Thickness (Nominal) 3.00 in (76 mm)</p> <p><b>Endplate Preload Hub Torques</b></p> <p>Jacking Bolt Torque 50 ft-lb (68 Nm)</p> <p><b>Gearbox Bearing Nut Torque</b></p> <p>Bearing Lock Bolt Torque 18 ft-lb (25 Nm)</p> <p><b>Oil Capacities</b></p> <p>Shredder Gear Box 77 gal (291 L)</p> <p>Planetary Gear Reducer 5.8 gal (22 L)</p> <p>Hydraulic Motor Case 0.5 gal (2 L)</p> <p>Hydraulic Power Unit 140 gal (530 L)</p> <p><b>HPU Settings</b>      <b>Closed Loop Hydraulic System</b></p> <p>Maximum Motor Flow 180 gpm (682 L/min)</p> <p>A-Port Pressure 4,200 psi (290 Bar)</p> <p>Overloaded Pressure Swit 3,900 psi (269 Bar)</p> <p>B-Port Pressure 1,700 psi (117 Bar)</p> <p>Charge Pressure 350 psi (24 Bar)</p> <p>Hot Oil Relief 250 psi (17 Bar)</p> <p>Step Down Pressure 2,356 psi (162 Bar)</p> <p>Step Down Pilot Pressure 109 psi (7 Bar)</p> <p>Aux Pump Compensator 2,200 psi (152 Bar)</p> <p>Aux Pump Differential 300 psi (21 Bar)</p> <p>Aux Valve Relief 2,320 psi (160 Bar)</p> <p><b>Hydraulic Ram Settings</b>      Regenerative Circuit</p> <p>Ram Pressure Switch 1,700 psi (117 Bar)</p> <p style="text-align: right;">Revised: 1/28/2022      PKB</p>	<p><b>Shredder Dimensions</b></p> <p>Cutting Chamber Width 46 in (1168 mm)</p> <p>Cutting Chamber Length 75 in (1905 mm)</p> <p>Stand Height 48.00 in (1219 mm)</p> <p><b>Weights</b></p> <p>System Assembly 54,000 lb (24,300 kg)</p> <p>Maintenance weights</p> <p>Hopper 2,000 lb (3,600 kg)</p> <p>Motor and Reducer 1,820 lb (820 kg)</p> <p>Shaft (drive) 1,710 lb (770 kg)</p> <p>Cutter 220 lb (100 kg)</p> <p>Endplate 1,600 lb (720 kg)</p> <p>Shredder Head 27,000 lb (12,150 kg)</p> <p><b>Shaft Speeds</b></p> <p>Right Hand Shaft 16 rpm</p> <p>Left Hand Shaft 13 rpm</p> <p><b>Shaft Torque (Peak)</b></p> <p>Right Hand Shaft 118,800 ft-lb (161,100 Nm)</p> <p>Left Hand Shaft 141,900 ft-lb (192,400 Nm)</p> <p><b>Cutter Force at Tip (Peak)</b></p> <p>Right Hand Shaft 118,800 lbs (528,500 N)</p> <p>Left Hand Shaft 141,900 lbs (631,500 N)</p> <p><b>Cutter Tip Speed at Tip</b></p> <p>Right Hand Shaft 99 ft/min (0.50 m/s)</p> <p>Left Hand Shaft 83 ft/min (0.42 m/s)</p> <p><b>Shredder Hydraulic Hoses</b></p> <p>(2) 4500psi hoses w/ 1-1/2" SAE code 62 Flange Ends</p> <p>Case Drain - (1) 500psi hose w/ 1" ORFS Ends</p> <p><b>Diesel Engine</b></p> <p>Fuel Capacity 100 gal (379 L)</p> <p>Rated Speed 2200 RPM</p>
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