PUMP SPECIFICATIONS
Size: 6” Materials/ Sludge Pump
Volute: Fabricated Steel (optional stainless steel and special abrasion resistant steel volutes are available)
Impeller: Recessed vortex, 6 Vane. (optional stainless steel or special abrasion resistant steel impellers are available)
Solids: Handles 3” diameter compressible spherical solids.
Impeller Shaft: High strength steel
Seal: Rotary Mechanical, oil-lubricated, carbon & ceramic (optional tungsten carbide or silicon carbide seals are available option)

Hydraulic System
Hydraulic Reservoir level: 50 gallon capacity with twin micron spin on oil filter
Hydraulic Oil: Petroleum based AW68 Furnished standard (optional canola bio-degradeable oil or mineral based non-toxic inherently bio-degradeable oil available)
Hydraulic Pump: Denison vane type positive displacement pump with pilot operated Denison relief valve
Hydraulic Motor: Vickers vane type positive displacement motor
Heat Exchanger: Double row, SCH 40 pipe with integral intake basket (optional engine mounted oil cooler available)
Hydraulic Hose: 50’ set of SAE 100R2, two wire braid high-pressure hose
Pump Head Fail Safe Pressure Relief System: Available as option to protect system against improper connection or interruption of biodegradable oil flow from pump head to power unit

ENGINE SPECIFICATIONS
Model: John Deere 4045DTF280 Tier 3
Type: 4 Cylinder, 4 Stroke, Naturally Aspirated, Liquid Cooled Diesel Engine
Displacement: 4.5L (275 cu.in.)
Governor: Mechanical
Lubrication: Forced Circulation
Air Cleaner: Dry Type with Replaceable Element
Lube Oil Capacity: 3.5 U.S. Gallons (13.2L)
Coolant Capacity: 2.25 U.S. Gallons (8.5L)
Fuel Tank: Integral 114 U.S. Gallon Capacity (#2 Diesel Fuel)
Full Load Operating Time: 60 Hours Minimum @ 2000 PSI
Starter: 12 Volt, 2.0 kW
Standard Features: Cast Iron Engine Block, Flywheel and Flywheel Housing, Ecoplus Oil and Fuel Filters, Glow Plug Starting Aid, Integral Inlet and Manifold, Gear Driven Coolant Pump, Cast Iron Exhaust Manifold with Center Side Outlet, Standard Instrument Panel: Engine Temperature and Low Oil Pressure with optional Gauge, Key Start, and Hour Meter
John Deere Published Performance:
Maximum Continuous Power: 72 BHP (54kW) @ 2400 RPM
Maximum Intermittent Power: 80 BHP (60kW) @ 2400 RPM

H6MS @ 2000 PSI Capacity of Pump in U.S. Gallons per Minute (gpm) (Continuous Performance)

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<th>Head</th>
<th>20’ Head</th>
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<td>10’ Head</td>
<td>1600</td>
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6" Hydraulically Driven Submersible System
Model H6MS - JD4045TF280
Size 6" Materials/Sludge Pump

Approximate Dimensions
Powered by John Deere 4045D Diesel Engine, Optional
Single Axle Trailer Shown

Skid Base    DOT Trailer    Pump
Net Weight (lbs) 2568   2968   195
Shipping Weight (lbs) N/A   N/A   N/A
Export Crate Size (cu. ft) 198   N/A   16

Performance Curve Model: H6MS - JD4045TF280
Size: 6" Materials/Sludge Pump

TOTAL HEAD
PSI   FT

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