DAE Pumps
Designed And Engineered Pumping Solutions

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Payload Sand and Slurry Pump

3-in Electric Dredge Pump

DAEPUMPS.COM
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PAYLOAD SAND AND SLURRY PUMP

3-in Electric Dredge Pump

The DAE Pumps Payload Electric Sand and Slurry Pump is a highly durable and reliable electric pump for transporting solids and a variety of other materials.

Built with the industry's top dredge pump capable of 3-in Payload doing 29 cubic yards of solids per hour between 79 to 395 GPM, the DAE Pumps Payload provides non-clogging suction power to excavate and pump some of the most challenging dredging situations. The suction power of the Payload pump can handle solids up to .5-inches moving up to 30% of solids through a 3-inch discharge.

The DAE Pumps 3-in Payload Series offers up to 395 GPM, 132-ft of Head, 10 HP / 7.5 kW, and passes. 5-in solids.

- 3-Inch Pump
- 79 - 395 GPM
- Robust Motor for Strong Torque
- Solids Handling up to .5 in
- Pumps up to 30% solids
- Highly Durable Abrasion Resistant
- Depth up to 130 Ft
- Interchangeable Hard Tooth Cutter Heads

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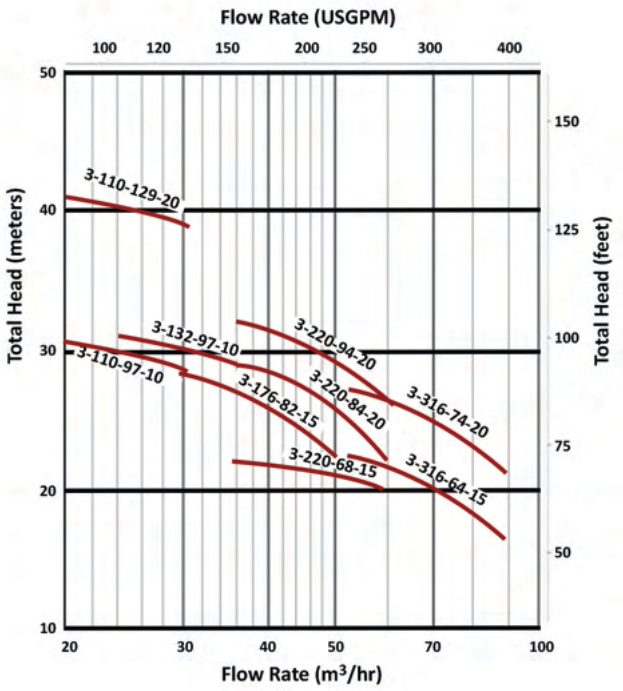
3-in Payload

Pump Models

Model	GPM	Head (Ft)	HP	Yards³/Hour
Payload 3-110-97-10	79 110 132	106 97 84	10	5 8 9
Payload 3-110-129-20	79 110 132	132 129 126	20	5 8 9
Payload 3-132-97-10	106 132 158	106 97 84	10	7 9 11
Payload 3-178-82-15	132 178 220	91 82 75	15	9 13 16
Payload 3-220-68-15	154 220 264	71 68 64	15	11 16 19
Payload 3-220-84-20	154 220 264	93 84 77	20	11 16 19
Payload 3-220-94-20	154 220 264	103 94 87	20	11 16 19
Payload 3-316-64-15	238 316 395	73 64 57	15	17 23 29
Payload 3-316-74-20	238 316 395	83 74 67	20	17 23 29

Pump Curve



Materials

Casing: Spheroidal Cast Iron EN-GJS500-7 (EN 1563)
Motor Housing: Cast Iron EN-GJL-250 (EN 1561)
Wear Parts: High Chrome EN-GJN-HV600 (XCr18) (EN 12513)
Main Shaft: High Tensile Steel 39NiCro-Mo3 (AISI 9840)

Seals / Lubricant

Motor Side Seals: 2 Lip Seals (BUNA)
Impeller Side Seals: 5 Lip Seals (3 BUNA + 2PTFE) + 1 V-ring (TPU)
Oil type: ISO 320

DREDGING BENEFITS

DAE Pumps Payload Electric Sand & Slurry Pump Spec Sheet

Dredging is a key part of any industrial operation. Whether you're building canals or reclaiming land that's been left inactive for decades, dredging is an essential element of industrial operations. If you need to dredge, look no further than the dredge pump.

The benefits of using a dredge pump are many and offer a cost-effective solution for your industrial needs. this pump can be suspended by cables or attached to an excavator. Side agitators and a water jetting ring can be attached to these pumps for loosening material and helping feed the pump.

DREDGING APPLICATIONS

Dredging is a key part of any industrial operation. Whether you're building canals or reclaiming land that's been left inactive for decades, dredging is an essential element of industrial operations. If you need to dredge, look no further than the dredge pump.

DAE Pumps Payload Series is ideal for removal of sediment, contaminants, tailing and cleaning to provide for safer navigation, reformation of shorelines and seafloor and other use at:

- Dams
- Ports
- Marinas
- Rivers
- Canals
- Lakes
- Ponds
- Oceans
- Channels

ACCESSORIES

Enhance your pumping and dredging abilities with our premium add-ons. Our specialized equipment is designed to optimize your project by increasing solids production of your pump. Attachable add-ons are easy to install as the need arises. Contact us today to learn about the best add-ons available for your project.

WATER JETTING RING

AGITATORS

ELECTRIC SLURRY PUMPS

Durable electric slurry pumps. Versatile and rugged solution for the transfer of abrasive and high-density slurries in mining, civil construction, industry and other heavy-duty applications.

Versatile Heavy Duty Solution

Payload Sand and Slurry Pump are a heavy duty, electric submersible slurry pumps designed to handle a wide range of slurries and abrasive particles in submersible applications in mining and industry.

Payload Sand and Slurry Pumps feature a rugged construction using the highest quality materials to ensure reliable performance and excellent service life. The high- quality electric motors incorporate multiple protection features to detect the ingress of water or excessive temperatures to shut off the pump and prevent damage.

Large Cut Water Clearance

The pump casing features a large cut water clearance which allows the easy passage of large solids and reduces wear and erosion to improve service life and prevent loss of efficiency.

Integral Agitator

The 27% chrome white iron agitator assists in pumping slurries by breaking up large particles and agitating high concentrations of solids.

Heavy Duty Construction

The pump casing, impeller, backplate, and agitator are manufactured from high-quality 27% chrome white iron. This extremely tough construction material can withstand continuous use in heavy-duty applications and allows the pump to transfer abrasive and dense slurries with minimal wear. The pumps feature a replaceable backplate allowing for simple servicing and easy replacement of worn components.

Motor Insulation

Motor insulation is used to ensure reliable operation in heavy duty applications in temperatures up to +70 °C.

Support Frame and Strainer

A heavy-duty mild steel frame with round base and strainer provide excellent stability and durability whilst preventing blockages.

Double Mechanical Seal

A double mechanical seal provides excellent shaft sealing between the electric motor and the wet end. The seals are oil bath lubricated and feature carbon/ceramic seal faces in the wet end and tungsten ceramic faces in the drive end to provide excellent durability and service life across a wide range of duties and applications.

Oil Chamber Leakage Probe

The oil chamber incorporates a water leakage probe which detects when the water-to-oil ratio is too high and automatically shuts down the motor to prevent damage.

Motor Float Switch

A float switch is in the bottom of the motor to detect the ingress of water and shut down the motor to prevent damage due to shorting out.

Motor Temperature Sensors

Temperature sensors are in the motor stator to detect excessive temperatures and can shut down the motor to prevent damage due to overheating.

Thrust Bearing Sensors

Temperature and moisture sensors are in the motor thrust bearings to detect excessive temperatures and the ingress of water and shut down the motor to prevent bearing failure.

Optional External Cooling

Cooling jackets can be provided with external water supply in high temperature applications to keep motor temperature down and prevent excessive stator and bearing damage.