



**DAE Pumps**

Designed And Engineered Pumping Solutions

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# **Payload Sand and Slurry Pump**

**6-in Electric Dredge Pump**



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## PAYLOAD SAND AND SLURRY PUMP 6-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 6-in Payload doing 15-95 cu. yds of solids per hour between 250 to 1320 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 1.75-inches moving up to 30% of solids through a 6-inch discharge.

The DAE Pumps 6-in Payload Series offers up to 1320 GPM, 200-ft of Head, 40 HP / 30 kW, and passes 1.75-in solids.



6-Inch  
Pump



250 - 1320  
GPM



Robust Motor  
for Strong  
Torque



Solids  
Handling  
up to 1.75 in



Pumps  
up to 30%  
solids



Highly  
Durable  
Abrasion  
Resistant



Depth up to  
200 Ft



Interchangeable  
Hard Tooth  
Cutter Heads

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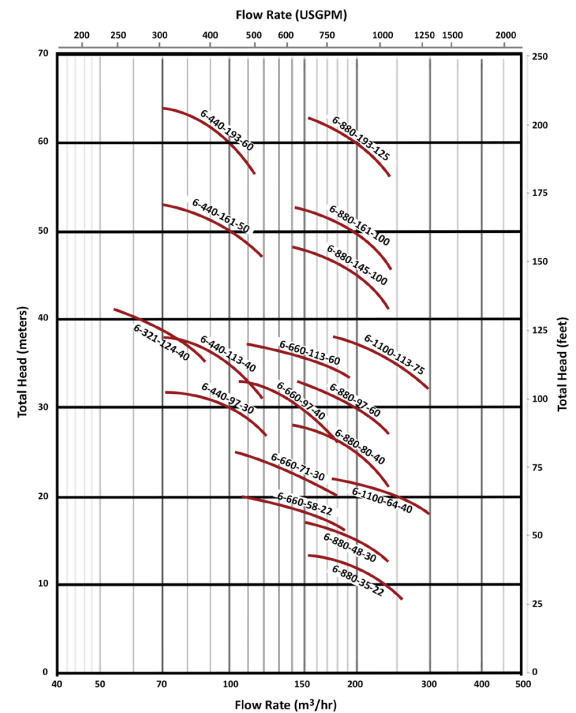
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## 6-in Payload

### Pump Models

Model	GPM	Head (Ft)	HP	Yards <sup>3</sup> /Hour
Payload 1000-6-321-124-40	250	132	40	18
	321	124		23
	382	116		28
Payload 1000-6-440-97-30	308	106	30	22
	440	97		32
	528	87		39
Payload 1000-6-440-113-40	308	122	40	22
	440	113		32
	528	103		39
Payload 1000-6-440-161-50	308	171	50	22
	440	161		32
	528	151		39
Payload 1000-6-440-193-60	308	206	60	22
	440	193		32
	528	177		39
Payload 1000-6-660-58-22	462	64	22	64
	660	58		58
	792	48		48
Payload 1000-6-660-71-30	462	80	30	34
	660	71		49
	792	64		58
Payload 1000-6-660-97-40	462	106	40	34
	660	97		49
	792	87		58
Payload 1000-6-660-113-60	462	122	60	34
	660	113		49
	792	103		58
Payload 1000-6-880-35-22	616	40	22	45
	880	35		65
	1056	28		78
Payload 1000-6-880-48-30	616	55	30	45
	880	48		65
	1056	43		78
Payload 1000-6-880-80-40	616	87	40	45
	880	80		65
	1056	71		78
Payload 1000-6-880-97-60	616	106	60	45
	880	97		65
	1056	87		78
Payload 1000-6-880-145-100	616	154	100	45
	880	145		65
	1056	135		78
Payload 1000-6-880-161-100	616	171	100	45
	880	161		65
	1056	151		78
Payload 1000-6-880-193-125	616	206	125	45
	880	193		65
	1056	177		78
Payload 1000-6-1100-64-40	770	73	40	87
	1100	64		81
	1320	57		98
Payload 1000-6-1100-113-75	770	122	75	87
	1100	113		81
	1320	103		98

### Pump Curve



#### 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

#### 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 39NiCroMo3 (AISI 9840)

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## 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
- Rivers
- Ponds
- Ports
- Canals
- Oceans
- Marinas
- Lakes
- 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**

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## 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.

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