

3DP

Comprehensive solutions for mining applications



3DP



The competitive advantages of 3DP series includes an engine with customizable aspects, capability in absorbing variety of engines such as utilizing Volvo as well as Caterpillar. The material used for the impeller, casing, suction liner and high chrome steel (28-29%) is produced by the proprietary right of GIW® Minerals (ASTM A532 class III). Additionally, the materials characteristic is superior against abrasion and resisting acidic conditions.



Comprehensive solutions for mining applications

After years of intensive research, KSB established innovative design of Dewatering and Dredge Pumpsets (DnD), comprehensive solution for mining applications. The pumpset is acknowledged for its outstanding capacity to lead in severe open-pit mine sites with capability in managing aggressive mine water through slurry conditions, that why it is known as Dewatering and Dredge Pumpsets (DnD). The majority of Indonesian mine sites are categorized as open-pit mine sites, in regard to its topography condition.

Consequently, DnD is suitable for the disposal of solid waste from exhausted mines that are converted to landfills. It functions as a form of water control to prevent the mine pit from becoming a lake. During this phase, the DnD transforms from being a supporting equipment to vital equipment. Our DnD Pumpsets have been already certified for Local Value Addition (TKDN/Tingkat Komponen Dalam Negeri) up to 40.96%.

KSB Indonesia has produced more than 609 units of Dewatering and Dredge Pumpsets (DnD) used in open-pit mines in the past 15 years. Our DnD pumpsets include several models ranging from high to low heights. Starting from DnD 100, DnD 150 & DnD 200 for low head application (H below than 130 m). DnD 150 MHX, DnD 200 MHX & DnD 250 MHX for medium head application (H between 130 ~ 160 m). DnD LSA 2H & DnD LSA 2HF for high head application (H between 160 ~ 200 m).

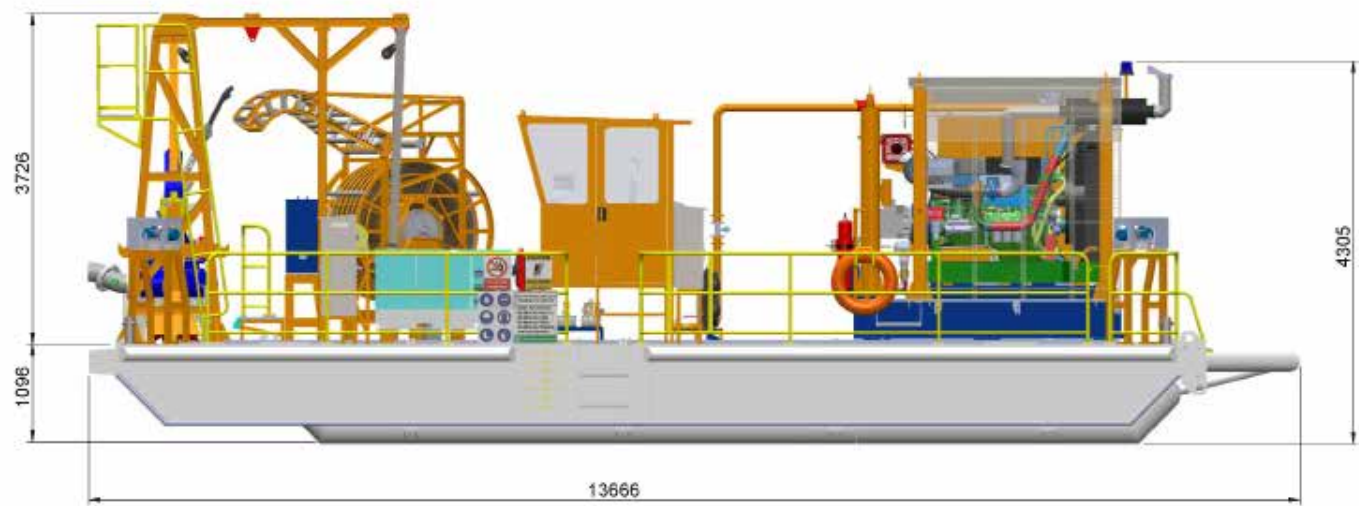


Features

Dredger Bare Pump (3DP) 	Description: Built to handle abrasive, corrosive, and high-density slurries with high wear resistance, ensuring durability in harsh environments. Designed for optimal efficiency in terms of hydraulic performance and energy consumption, contributing to reduced operational costs. Handling various slurry types, including those with solids in suspension, sludge, and mixtures of liquid and solid particles.	Specification: • Heavy construction, 16 bar pressure rating • High chrome white iron wet end materials (HARDNESS 600 HBN / 56 HRC) • Up to 94x102 mm solid free passage • Oil lubrication
Hydraulic Power Pack 	Description: Often compact and portable, allowing them to be placed where space is limited. Ability to transmit large amounts of power through small, efficient components. Offering a variety of pressure ratings, fluid capacities, and configurations. Robust and reliable under heavy-duty conditions. Easy adjustments in power output (flow and pressure), providing precision control in various processes.	Specification: • Driver Industrial, variable speed engine (option: caterpillar, cummins, volvo or scania) • Hydraulic Pump 355 or 500cc capacity, 350 max. pressure. • Hydraulic Motor up to 500 cc capacity, 350 max. pressure. • Hydraulic Oil Tank 800 liter capacity, completed with suction and return filter. • Pressure Relief Valve 350 max. pressure. • Control Valve Manual or automatic actuator, 350 max. pressure filter • Single or dual air fan coolers arrangement.
Operator Cabin 	Description: Ergonomic design Comprehensive control system Visibility Data monitoring and logging Communication systems Comfort and convenience	Specification: • Completed with air conditioner, operator seat, lighting, emergency window, first aid box, etc

Control Panel 	Description: - User friendly interface - Dredging controls - Engine and power management - Alarm and warning systems	Specification: Joy sticks controller with HMI display to monitor the pump and hydraulic power pack system.
Hydraulic Hose Reel 	Description: - Hose protection - Heavy duty construction - Hydraulic drive system - Compact and space saving design - Adjustable tension and locking mechanism	Specification: - Six drums capacity - Driven by hydraulic motor and controlled by PLC
Winch 	Description: Protects sensitive equipment from excessive tilting that can lead to operational failures. Compatible with SCADA, PLC, and IoT-based monitoring systems for remote tracking and automation.	Specification: - Pump lifting. - Unit moving.
Pontoon 	Description: - Buoyancy and stability - High load capacity - Durable material and corrosion resistance - Modular design - Shallow draft capability	Specification: Three-section pontoon.

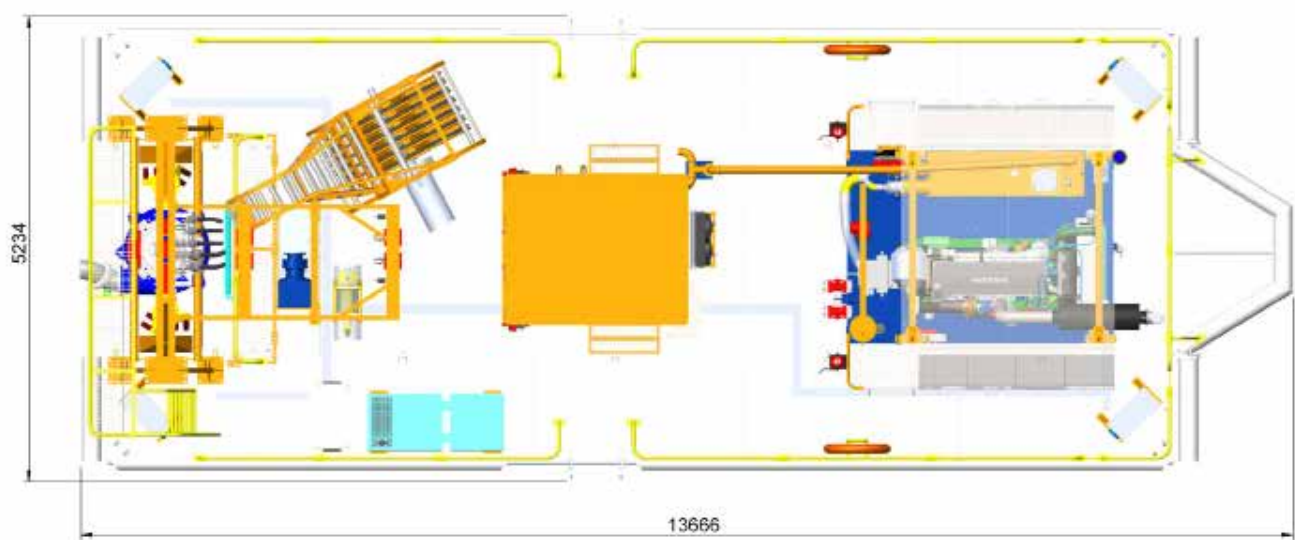
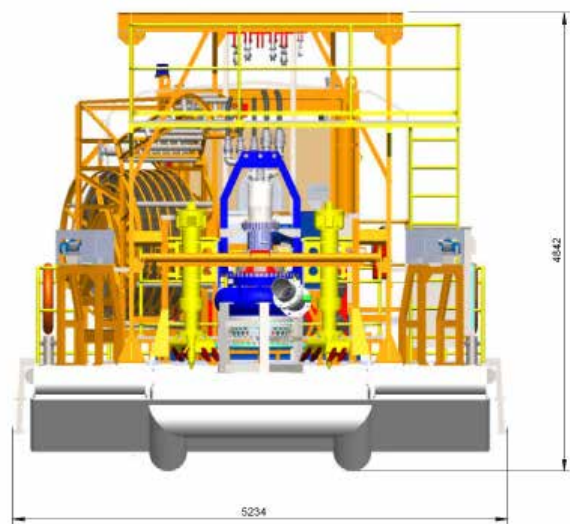
General drawing



Spesification

Pump type	3DP 200 3DP 150
Vane diameter	610 mm 500 mm
Free passage	94x102 mm 70x84 mm
Material	High chrome white iron (28G)

General drawing



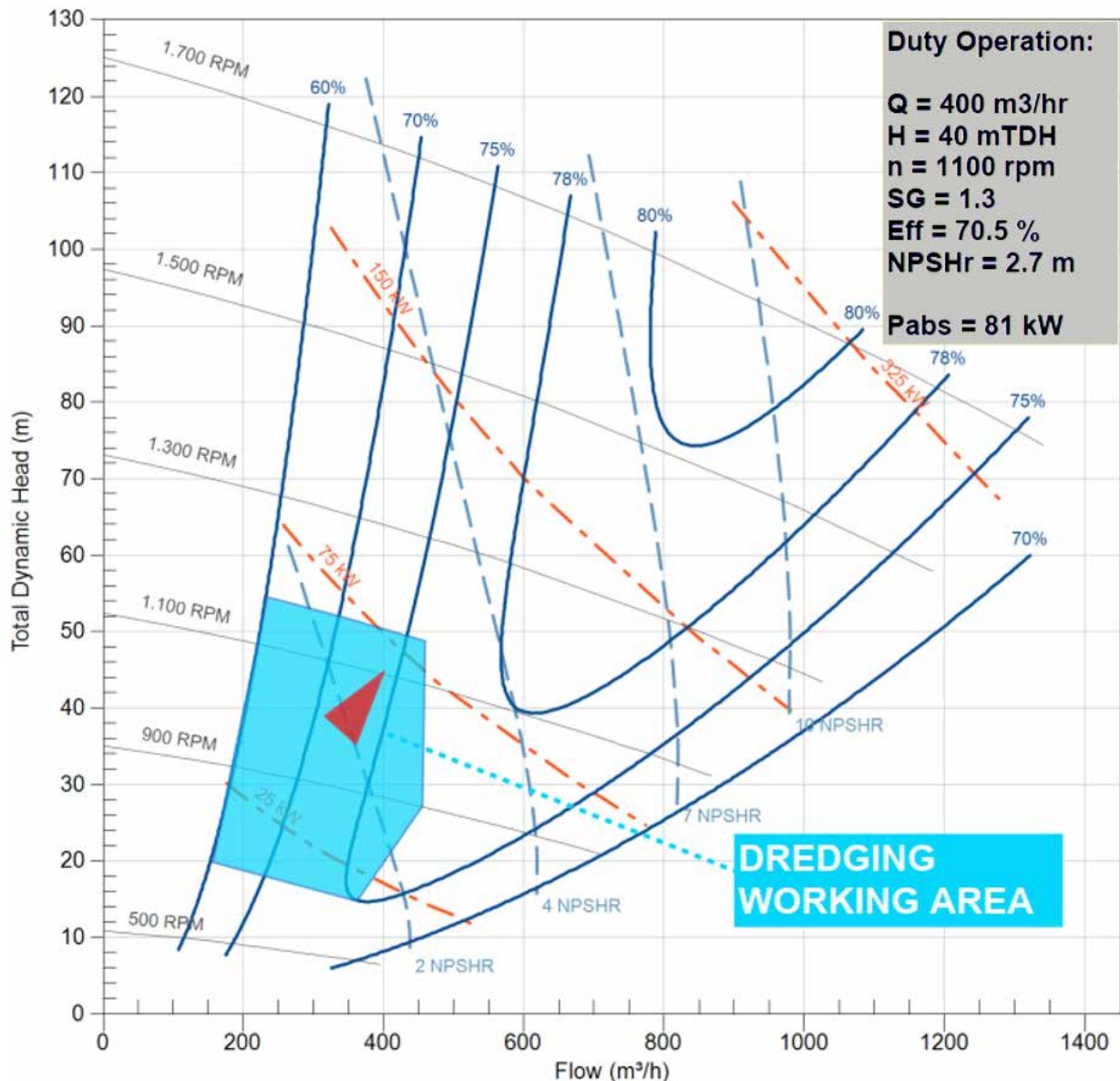
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Clear water performance

Curve is valid for clear water only. The effects of specific gravity, viscosity and solids on performance with slurry must be accounted for. Alternate choice for frame size or seal type may also have some effects.

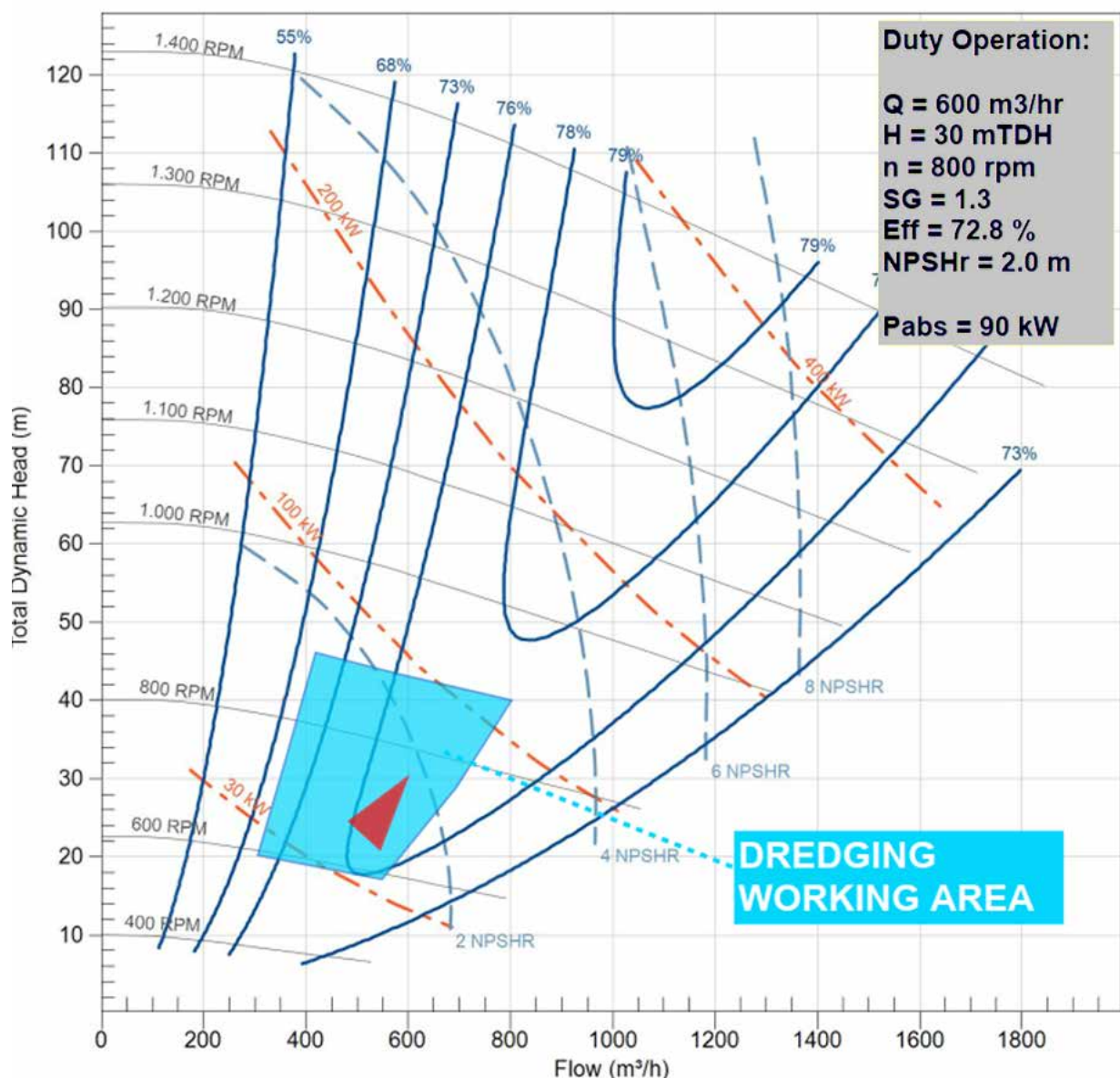
Max. flow up to 500 m³/hr
Max. head up to 50 mTDH
Max. SG up to 1.3



Clear water performance

Curve is valid for clear water only. The effects of specific gravity, viscosity and solids on performance with slurry must be accounted for. Alternate choice for frame size or seal type may also have some effects.

Max. flow up to 800 m³/hr
Max. head up to 40 mTDH
Max. SG up to 1.3



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