

Hytrans® HydroSub® 250



General description

The HydroSub® 250 mobile pump unit consists of a diesel-hydraulic power pack pump unit with a lightweight portable hydraulic driven submersible pump, complete with floating device and a built in boost pump.

No draft problem anymore. No suction draft losses, due to the application of a hydraulically driven submersed floating pump, feeding a boost pump fixed installed in the pump housing and powered through a hydraulic transmission by a powerful diesel engine. Compactly build into a base-skid-frame.

Featuring access to any open water at a horizontal and vertical combination distance of total 60 meters.

Output: 8.000 ltr/min @ 10 bar



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Main features

The HydroSub® 250 is a mobile pump unit driven by a powerful diesel engine with radiator cooling. The unit is built in a base-skid-frame with stainless steel panelling and anodized aluminium doors. Designed to last!

Submersible floating pump

The lightweight aluminium pump housing with aluminium impeller is built into a stainless steel carrying frame with floater and wheels. The pump is connected to the diesel-hydraulic power pack by means of two hydraulic hoses installed on two reels. Dimensions: (submersible only) 580 x 710 X 935 mm. Weight only approx. 60 Kg. (154 lbs). The submersible pump feeds the main-boost pump fixed installed in the container pump housing.

The submersibility and floating features guarantee operation with cleanest possible water, not affected by the water level or by waves. Even in cases where water is being pumped from very shallow locations and consequently the risk of an airlock due to an air bubble exists, the pump will still maintain its operation. This in contradiction with a conventional suction pump. No suction loss possible and no priming needed!

Accessibility / Operational speed

The portability and the 60 meter hydraulic hose length guarantees access to almost all open waters, providing a very speedy water supply without any capacity loss or time loss due to draft problems. The hydraulic hose is stored on two hydraulic driven hose reels. The unit is standard equipped with a hydraulic driven support winch to retrieve the submersible pump after deployment.

Boost pump

Built in boost pump is directly driven by the diesel engine. Due to the use of special bearings the pump can run dry for a prolonged time without damage. A full automatic regulation of the submersible pump and an automatic pressure regulation comes as a standard. The total system provides a nominal output capacity of 8.000 lpm @ 10 bar.

Hytrans® Control System

The HydroSub® 250 is controlled by an easy to operate Human Machine Interface and an advanced monitoring system (CANbus). This system monitors and maintains all process values (oil temperature, oil pressure, output pressure, etc.) to secure a safe and reliable behaviour of the unit. For instance, the submersible pump is automatically regulated to react smoothly at starting up to prevent water hammer. The system is standard pre-

pared for remote control or radio control.

Audible and visual alarms are generated when a parameter falls outside its maximum or minimum settings. If alarms are ignored for a prolonged time, the unit will at your choice either automatically regulate itself to a safe level to prevent permanent damage OR it will, at your choice, "run-to-death". Faulty sensors can be overruled to prevent unwanted shut-down.

Emission and other options

HydroSub® 250 is available at different emission levels including EU/USA NonRoad Mobile emission rules (NRMM Stage 5). A full list of options is available, including extendable light pole, seawater resistant submersible pumps and a lot more.

Hytrans® Mobile Water Transport

Besides the HydroSub® units, Hytrans® supplies all additional equipment to complement the Hytrans System.

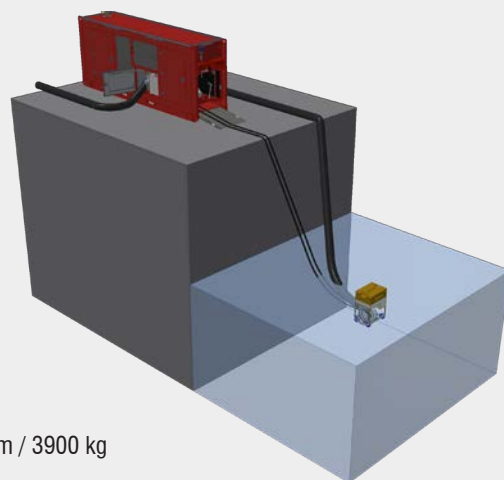
Hose Layer Containers for the use of thousands of meters Super Large Diameter hoses up to 300 mm/12-inch, extreme fast hose lay-out and easy speedy automatic hose pick-up with little manpower, due to the deployment of a revolutionary automatic hose pick-up system, the Hytrans® Hose Recovery Unit (HRU).

Also large diameter hoses, Y-pieces, gate valves and all other equipment needed to make a complete mobile water supply in no time and with a minimum of manpower. (see separate brochures, available on request)

Contact us for more information.

Capacity

At 15m pump lift
- 8000 lpm @ 10 bar
(2100 GPM @ 150 psi)



Dimensions / weight

Approx.: 4700 / 1060 / 1925 mm / 3900 kg

Hytrans Systems