



TOYO PUMP

OCS owned Toyo DP-100B-1 pumps are extra heavy duty submersible slurry pumps which are specialized for our dredging projects. Basically, it is a pump and an excavator at the same time. The design incorporates the renowned patented Toyo agitator, attached directly on the pump shaft, closed impeller, large open passages for easy passage of solids, heavy duty shaft and bearing configuration, special seals working in an oil bath and 8 pole customs built electric motor with 1.35 service factor. The impeller, the wear plates and the agitator are manufactured in cast chrome iron (24 to 28%) with Two adjustable wear plates which allows optimizing hydraulic efficiency of the pump.

The pump also acts as a support equipment for most of our project scopes like pipeline pre commissioning and pile refusal remedial.

TOYO SUBMERSIBLE AGITATOR SAND PUMP SPECIFICATIONS	
Model	DP-100BL
Discharge Bore	250MM (10 Inch)
Capacity	12m ³ /min @15M Max Head
Max Size of Passable Solids	100mm
Motor	415V/50Hz/3-Phase/8-Pole/Class F insulation/75kw With 60M electric cable
Speed	740Rpm
Serial Number	94716/94717
Pump Dimensions	255x180x144cm (volume 6.610m ³)
Pump Weight	2.7 tons
Gross Weight	3.3 tons
No of units	2

OCS has Equipment passports for individual Engines Skids and Fluid ends which must be reviewed before each project to assess the status. The equipment passport gives the working history, maintenance and certification history for Engines, Fluid Ends and Pump skids.

It is important to regularly review the list of critical spare parts of the equipment before each project. Common problems occur in these units during the operation include:

- *Pump impellers and internals.*
- *Pump Seals and Bearings.*

Where failures occur during operations Equipment bulletins will be issued to document the problem and the remediation solutions applied. The equipment bulletin will be circulated to all field engineers to be informed about the possible failure that can occur during the operation and thereby avoid future failure.

This equipment file remains a live document and will be constantly updated by the equipment department.

