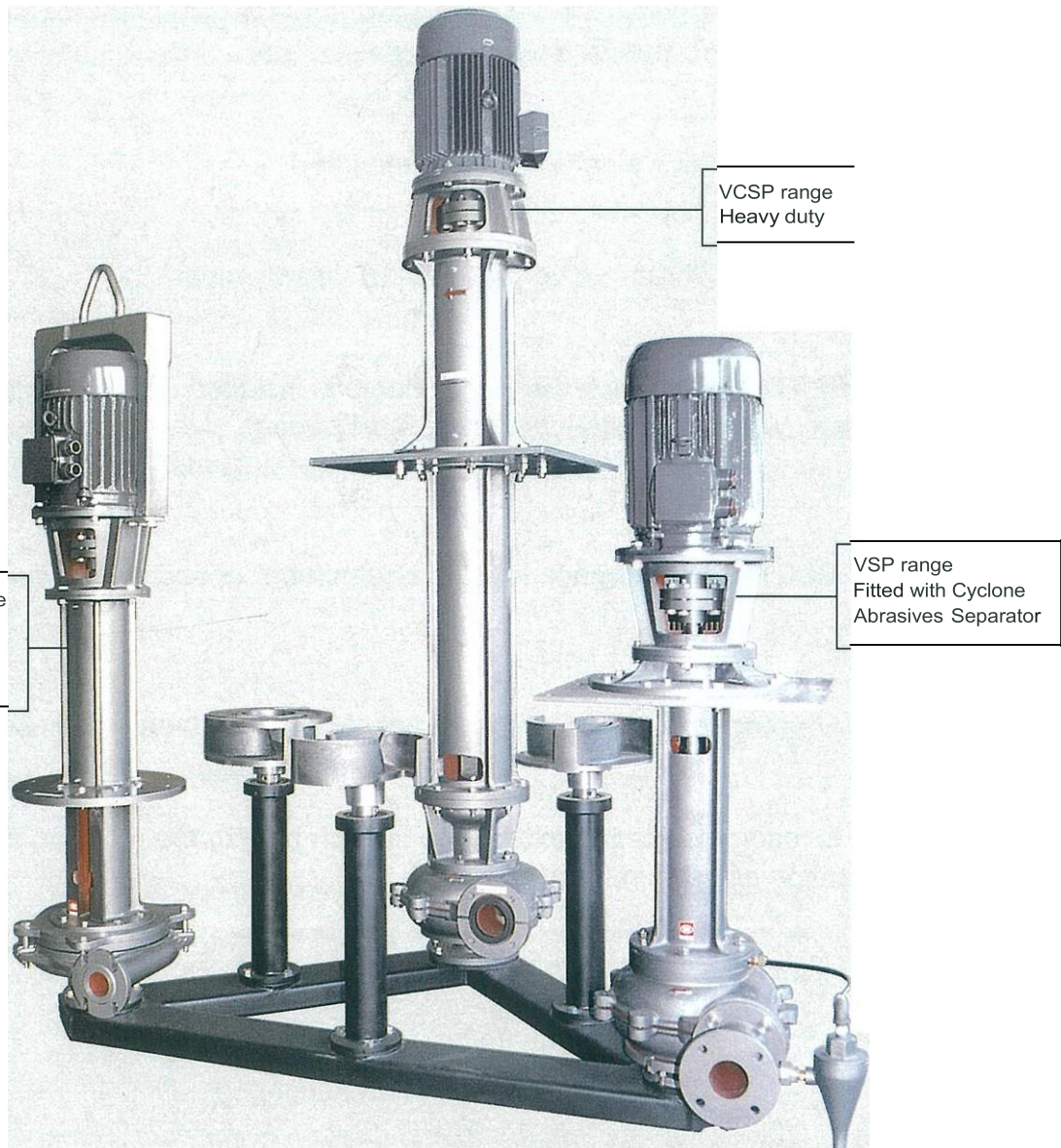


VCSP range - vertical cantilever sump pump

VSP range - vertical sump pump

VCSP - UNIVERSAL range - vertical cantilever sump pump



VCSP, VSP AND VCSP - UNIVERSAL ranges.
Close, semi-open and open impellers as seen are available to suit specific application.

SUMP PUMP DESCRIPTION

All Ranges of Sump Pump are built up with the following modules:

ELECTRIC MOTOR: Options of 1000 rpm, 1450 rpm and 2900 rpm for direct drive to couple-up Drive Shaft with Flexible couplings.

MOTOR STAND: On which electric motor is mounted.

BEARING HOUSING: There are various type of arrangement.

MOUNTING PLATE: With which the Sump Pump is installed. The water level must not rise to reach Mounting Plate; otherwise, the Bearings in the Drive Assys will be damaged.

IMMERSION SECTION: Difference lengths and number of sections to suit all type of applications.

PUMP END: All Ranges of Series are adaptable to all type of Drive Assys. Assys.

SUCTION: It is recommended to extend the suction pipe to the required depth to suit the application and the installation.

SELECTION OF SUMP PUMP

RANGE AND MODEL

Applications where severe abrasive and severe corrosive media is encountered, it is recommended to select a Range / Model without incorporating Shaft End Bush / Bushes.

Applications where moderate abrasion and moderate corrosive media is encountered, Range / Model with Shaft End Bush / Bushes may be employed. On condition CYCLONE ABRASIVES SEPARATOR is installed to prevent solids entering and wearing out the Bush / Bushes.

Applications where mild abrasive and corrosive media is encountered. Range / Model incorporating Shaft End Bush / Bushes be selected for lower equipment cost.

MATERIAL

Ni-Hard is world-renowned material for abrasion resistant, but resistant to corrosion is inferior to Stainless Steel.

Stainless Steel is, resistant to corrosion, but resistant to abrasion is inferior to Ni-Hard.

SUMP PUMP DESIGN DATA

RANGES	VCSP	VSP	VCSP - U
APPLICATIONS	Palm Oil Mill Pit and Pond. Extra ordinary heavy duty design.	Palm Oil Mill Pit and Pond. Standard design.	Industrial applications, all type of factories , mining, waste water / effluent.
DRIVE SHAFT	3"0	2"0	2" 0 and 3" 0
SHAFT END BUSH	No Shaft End Bush for small size Pump End. Incorporate Shaft End Bush for large pump.	1 pc Shaft End Bush for short immersion 2 pcs Shaft End Bushes for long immersion	No Shaft End Bush.
BEARING ARRANGEMENT	Extra ordinary heavy duty bearing arrangement for indefinite service life span.	2 pcs Angular bearings for axial and radial load.	Extra ordinary heavy duty bearing arrangement only for 3" 0 drive shaft. 2" 0 drive shaft for standard design.
IMMERSION LENGTH	Different immersion lengths from 300 mm to 845 mm to suit all type of applications for each type of Drive Assy. For VSP models, it can be extended to over 2000 mm.		
PUMP END	All Ranges of MTP Series Pump End of different material construction is adaptable without modification.		
OPTIONAL ACCESSORIES	For models with Shaft End Bush / Bushes SONY CYCLONE ABRASIVES SEPARATOR is recommended for applications where media is abrasive.		