

**Features:**

- The actual working centrifugal pump used
 - To teach maintenance as well as installation
 - 7-Gauge, formed-steel, powder-coated base plate with provision for bench mounting.
 - Clear acrylic, standard bore, replacement back-head/stuffing box.
 - Shaft rotation via a hand-wheel.
 - Allows for all common maintenance procedures including impeller clearance adjustment.
 - Allows for complete tear-down and assembly procedure of the pump.
 - Aluminum motor element, based on a 184-frame motor, including movable flanged bearings.
 - Replaceable, 3/4" dia., steel shaft with keyways. (Bent shafts easily installed)
 - Heavy-duty, aluminum motor mounting pads, with threaded inserts for motor element mounting.
 - Uses inexpensive, standard, size A shims.
 - Allows for alignment using all common alignment tools and methods.
 - Provision for motor adjustment via jacking bolts.
 - Aluminum replacement gland.
 - High-durability urethane coatings throughout.
 - Overall size 350W x 900H x 400L & @ 65Kgs weight
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- **Technical Specification:**
 - Four units of assembly stand, each consisting but not limited to the following:
 - a. 1 unit 415 V/ 3 phase AC asynchronous electric motor to drive the pumps of maximum speed 3000 rpm and power output @ 4kW.
 - b. Electric motors must be protected against water ingress at minimum, IP 65.
 - c. The position of the motor can be adjusted in three directions for alignment purposes
 - d. Motor speed is adjustable and the power output of the electric motor is displayed digitally at the control panel.

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

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- e. Alignment to be checked using a straight edge and two dial gauges.
 - f. Baseplate for mounting different pumps.
 - g. Pipework with pressure gauges and shut-off valves for connection to suction and discharge of pumps.
 - h. Flowmeter at the discharge side pipe.
 - i. Strainer at suction side pipe work~
 - j. The assembly stand frame should have adjustable feet for leveling
 - k. The minimum space all around each assembly stand is 2 m to enable groups to work in each assembly stand concurrently.
- One unit tank system to supply water consisting of the following:
 - a. Minimum 1 unit high-level corrosion-resistant tank with a cover of the same material of max. capacity 1500 liters to supply normally primed pumps.
 - b. The high-level tank is supported on a sturdy steel structure of a minimum height of 2 m to ensure enough inflow head to the pump.
 - b. A pressure gauge is located at the base of the tank to measure the base pressure thereby indicating the fill level.
 - c. Minimum 1 unit-low level corrosion-resistant tank with cover and float of minimum capacity 280 liters to supply water to the self-priming pump.
 - d. Intake and outtake pipes from the high-level tank are located at the base of the tank complete with shut off valves and are minimum DN 80 or NPS 3"
 - e. Piping to supply water to low-level tank from high-level tank with shut off valves and is minimum DN 50 or NPS 2"
 - f. Intake pipe with shut off valve from low-level tank to side-channel pump is minimum DN 32 or NPS 1 ¼
 - Four units of standard centrifugal pump of the following specifications :
 - a. Explosion Proof
 - b. Maximum flow rate: 103m/hr
 - c. Maximum head: 10 m,
 - d. Nominal speed: 1450 RPM
 - e. Impeller and housing are made of grey cast iron and the shaft is made of stainless steel.
 - f. Compliance with ISO 9199 and ISO 2858
 - Four units of side-channel self-priming three-stage centrifugal pump of the following specifications:
 - a. Explosion-proof:
 - b. Maximum flow rate: 53m/hr
 - c. Maximum head: 122 m
 - d. Nominal speed 1450 RPM
 - e. Impeller and housing are made of grey cast iron and the shaft is made of stainless steel.
 - f. Compliance to ISO 5199 and ISO 2858

Accessories Supplied:

- One set complete tool kit per pump for assembly/disassembly consisting of:
 - 2 units combination wrenches
 - 1 unit double-ended box spanner
 - 1 unit bearing puller
 - 1 unit slotted screwdriver
 - 2 units assembly aids for assembly/disassembly of bearings.
- One set complete tool kit per assembly stand consisting of:
 - 1 unit soft hammer/mallet
 - 1 set of Allen keys.
 - 1 set combination spanners
 - 2 units dial gages of resolution 0.01 mm with attachments.
 - 1 unit straight edge.
 - 1 unit torque wrench
- One set shim/fit plate kit per assembly stand consisting of 80 pieces .of different thicknesses.
- Four sets of gasket per flange.
- Two sets of bolts and nuts per flange
- One set per pump of replacement parts for wearing parts.
- Four units of workbench for assembly/disassembly of pumps.

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