

Multi Stage centrifugal pump



“RMMS Series”

Multistage Centrifugal Pump – About

Rotomake Engineering International multistage centrifugal pump **“RMMS Series”** consists of two or more impellers mounted on the same shaft, allowing the pump to generate higher pressure compared to a single-stage pump. Each stage adds incremental pressure, making the pump ideal for applications requiring high head, stable flow, and energy-efficient operation. These pumps are used in water supply systems, boiler feed, RO plants, industrial pressure boosting, and firefighting due to their reliability and compact design.

“Rotomake – Performance You Can Trust.”

Technical Chart – Multistage Centrifugal Pump

Parameter	Range / Specification
Capacity (Q)	1 – 200 m ³ /hr
Head (H)	20 – 600 meters
No. of Stages	2 to 40 stages
Operating Pressure	Up to 40 bar
Temperature Range	-10°C to 140°C
Speed (RPM)	1450 / 2900 RPM
Pump Type	Horizontal / Vertical Multistage
Suction Size	25 mm – 150 mm
Delivery Size	25 mm – 100 mm
Impeller Type	Enclosed / SS
MOC Options	CI, SS304, SS316, SS316L, CF8M, Duplex
Seal Type	Mechanical Seal
Bearing	SKF / Equivalent
Efficiency	Up to 78%
Motor Rating	0.5 HP – 100 HP
Mounting	Horizontal / Vertical
Working Fluid	Water, Hot Water, RO Water, Chemicals

Advantages of Multistage Centrifugal Pumps

- High Pressure Capability – Ideal where high delivery head is required.
- High Efficiency – Lower operating cost with efficient hydraulic design.
- Smooth & Quiet Operation – Balanced forces reduce vibration.
- Compact & Space Saving – Especially in vertical designs.
- Energy Saving – VFD compatible for additional savings.
- Stable & Constant Pressure – Consistent even with variable loading.
- Versatile MOC – Available in CI, SS304, SS316, Duplex, etc.
- Reliability & Long Service Life – Heavy-duty bearing design.
- Low Maintenance – Simple internal construction.

Application Sectors

- Water Supply Systems & Pressure Boosting
- Boiler Feed Water Systems
- Reverse Osmosis (RO) Plants & Desalination
- Fire Fighting Systems & Hydrant Networks
- Industrial Process Water & Cooling Water Circulation
- Irrigation & Agricultural Water Transfer
- HVAC Systems – Chilled & Hot Water Circulation
- Chemical Transfer (MOC dependent)
- High Head Municipal Water Distribution
- Mining & Dewatering Applications