



Arihant Dewatering Systems



RESPONSIBLE DEWATERING, SUSTAINABLE SOLUTIONS

MASSIVE
FLOW.
MAXIMUM
RELIABILITY



ADS MHF
SERIES PUMP



Phone:
+91 9818740559

Mail:
Sushant.bansal@arihantdewatering.com
Sushantbansal.ads@gmail.com

Address:
146, Anand Industrial Estate,
Mohan Nagar, Ghaziabad 201007 U.P.



www.arihantdewatering.com

ADS MHF SERIES PUMPS

Reliable High Head Centrifugal Pumps

The ADS MHF Series is a specialized range of high-efficiency centrifugal pumps engineered to deliver reliable performance in medium to high head applications. With rugged construction, precision-engineered hydraulics, and proven reliability, the MHF Series is trusted across industries for demanding water handling and process duties.

Available in multiple configurations — MHF-100 (200 × 150 mm), MHF-150 (200 × 150 mm), MHF-150SD (250 × 250 mm), MHF-200 (250 × 200 mm), and MHF-640 (350 × 300 mm) — this series provides a wide operating envelope, covering flow rates from 200 m³/h up to 2400 m³/h and heads from 30 m to 105 m. Each pump is designed with dynamically balanced impellers for smooth operation, optimized hydraulic profiles for high efficiency, and robust casings for long service life.

The MHF Series is particularly well suited for industrial water supply, cooling water circulation, mining and construction dewatering, irrigation, municipal utilities, flood control, and power plant applications. These pumps can be coupled with either electric motors or diesel engines, offering flexibility across project needs.mm in size.

ADS MHF SERIES PUMPS

Reliable High Head Centrifugal Pumps

Key design benefits include back pull-out construction for ease of maintenance, stainless steel shafts with minimal deflection, abrasion-resistant impellers, and proven efficiency curves that ensure economical operation across the duty range.

Backed by over 25 years of expertise, Arihant Dewatering Systems’ MHF Series combines durability, mobility, and efficiency — making it a preferred choice for clients who demand responsible dewatering and sustainable pumping solutions.

ADS MHF SERIES PUMPS Technical Summary

Pump Model	Suction × Delivery (mm)	Prime Mover Capacity	Max Head (m)	Max. Flow (m³/h)	Solids Handling	Duty Point (Flow@Head)	Pump Type	Impeller Type
MHF 100	200 x 150	100HP	50	650	15 mm	300 m³/h @ 40 m	End Suction	Closed
MHF 150	200 X 150	150 HP	70	650	20 mm	440 m³/h @ 65 m	End Suction	Closed
MHF 1500 SD	250 × 250	150 HP	65–70	1100	25 mm	800 m³/h @ 40 m	Split casing	Closed
MHF 200	250 × 200	200 HP	100	1000	25mm	700 m³/h @ 70 m	End Suction	Closed
MHF-640 (Flagship)	350 × 300	650 HP	105	2400	30 mm	1500 m³/h @ 90 m	End Suction	Closed

PRODUCT OVERVIEW

The ADS MHF-100 is part of our specialized MHF Series of high-efficiency centrifugal pumps, designed for medium to high head applications. Compact yet powerful, the MHF-100 delivers reliable performance in demanding site conditions with a flow range of 90–720 m³/h and heads up to 50 m.

This pump is widely used across construction, mining, irrigation, flood control, and industrial sectors. With robust construction, dynamically balanced impellers, and ease of maintenance, the MHF-100 is an ideal solution for both permanent installations and rental-based dewatering needs.

MATERIAL OF Construction ADS MHF-100

Impeller: Bronze / SS304 / SS316/ CD4MCuN

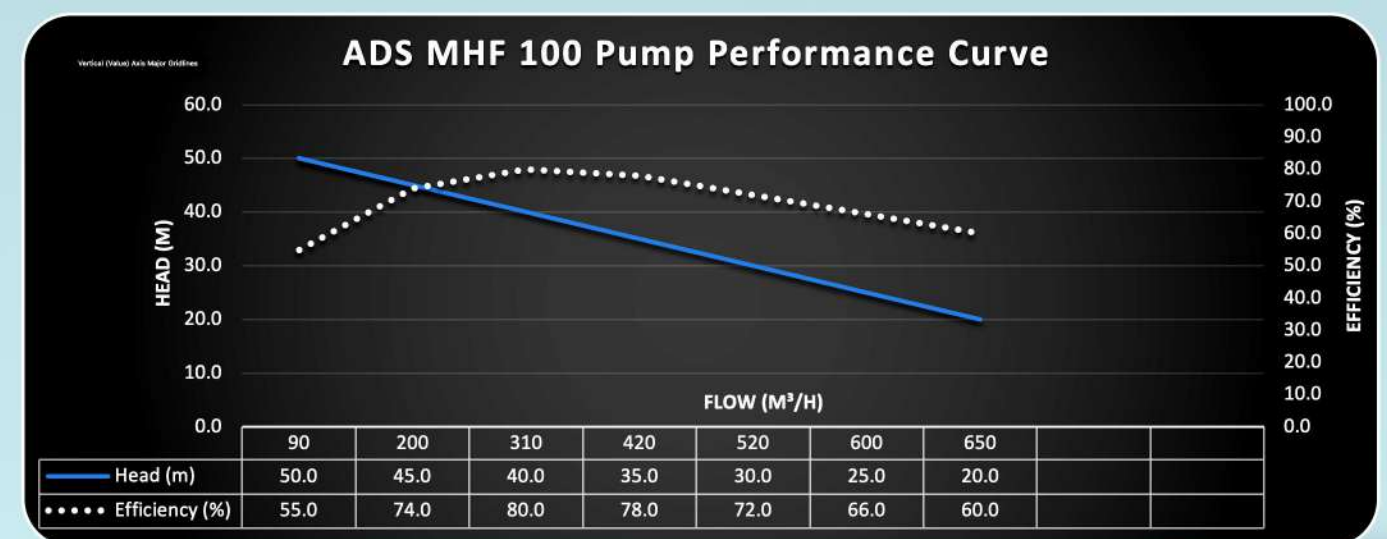
Casing: Cast Iron / WCB / CD4MCuN

Shaft: SS304 / SS316

Technical Data

PARAMETER	SPECIFICATION
Flow Range	90 – 720 M³/H
Head Range	10 – 50 M
Efficiency	UP TO 78%
Suction × Delivery	200 × 150 MM
Max Temperature	60 °C
Max Operating Speed	1500 RPM
Hydrostatic Test Pressure	7.5 BAR
Rated Prime Mover Capacity	100 HP
Solid Handling	UPTO 20MM

The performance curve below shows Head vs Flow for the ADS MHF-100 pump at 1500 rpm.



PRODUCT OVERVIEW

The ADS MHF-150 is part of our proven MHF Series of high-efficiency centrifugal pumps. With a flow capacity ranging from 400 to 650 m³/h and heads up to 70 meters, this model is engineered for reliable performance in medium to high head applications.

Compact yet durable, the MHF-150 is widely applied in construction, mining, irrigation, flood control, industrial utilities, and municipal water systems. Its rugged build, balanced impellers, and ease of maintenance make it equally suited for both permanent supply installations and rental-based dewatering solutions.

MATERIAL OF Construction ADS MHF-150

Impeller: Bronze / SS304 / SS316 / CD4MCuN

Casing: Cast Iron / WCB / SS304 / CD4MCuN

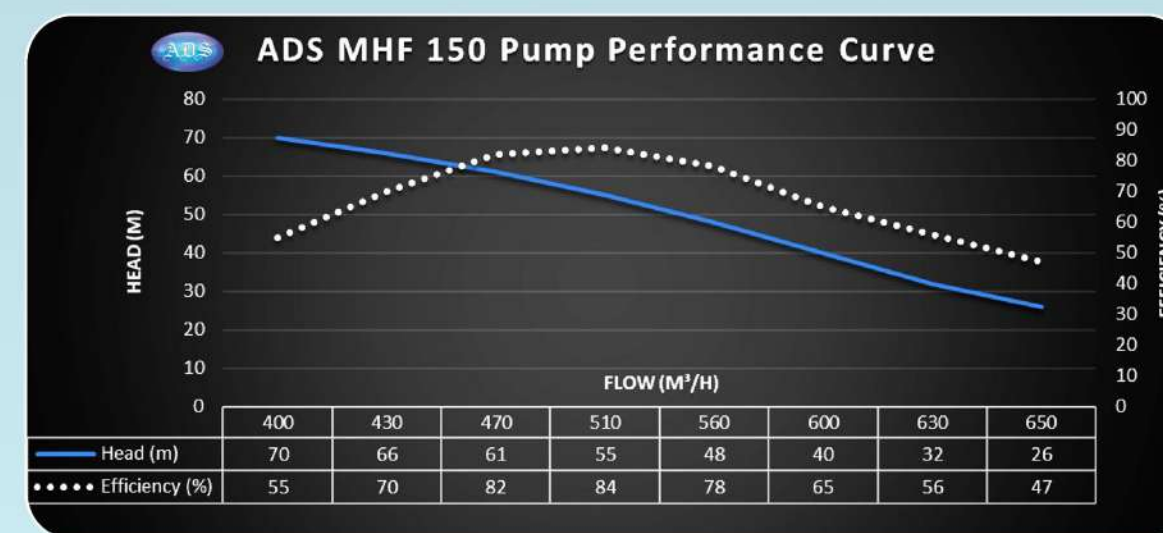
Shaft: SS304 / SS316

Seal: Mechanical Seal (SIC vs SIC / TC vs TC)

Technical Data

PARAMETER	SPECIFICATION
FLOW RANGE	400 – 650 M ³ /H
HEAD RANGE	26 – 70 M
EFFICIENCY	34 – 55%
SUCTION × DELIVERY	200 × 150 MM
SOLIDS HANDLING	UP TO 25 MM
MAX OPERATING SPEED	1500 RPM
RATED PRIME MOVER CAPACITY	150 HP / 110 KW
HYDROSTATIC TEST PRESSURE	10.5 KG/CM ²
MAX OPERATING TEMPERATURE	60 °C

The performance curve below shows Head vs Flow for the ADS MHF-150 pump at 1500 rpm.



PRODUCT OVERVIEW

The ADS MHF-150SD belongs to our proven MHF Series of high-efficiency centrifugal pumps, designed for medium to high head applications. With flow capacities up to 100 – 1100 m³/h and heads up to 28 – 47.5 m, this pump delivers robust and reliable performance across diverse projects.

Engineered for durability and efficiency, the MHF-150SD is widely applied in construction, mining, irrigation, flood control, industrial utilities, and municipal water systems. It is equally suited for permanent installations and rental-based dewatering solutions with ADS operation & maintenance support.

MATERIAL OF Construction

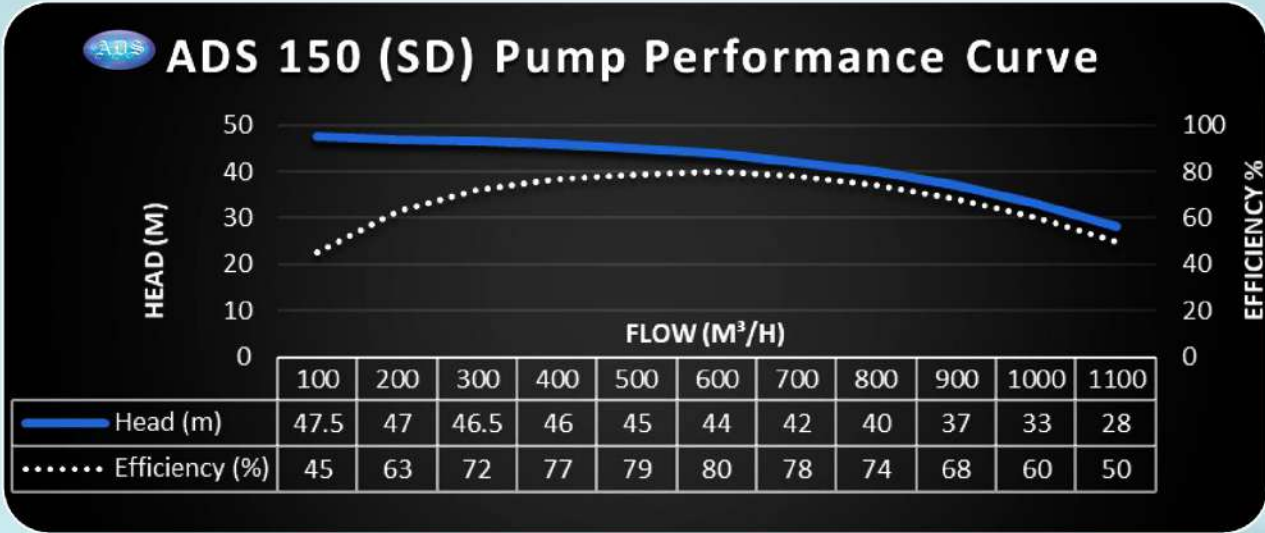
ADS MHF-150 SD

- Impeller: Bronze / SS304 / SS316 / CD4MCuN
- Casing: Cast Iron / WCB / SS304 / CD4MCuN
- Shaft: SS304 / SS316
- Seal: Mechanical Seal (SIC vs SIC / TC vs TC)

Technical Data

PARAMETER	SPECIFICATION
FLOW RANGE	100 – 1100 M³/H
HEAD RANGE	28 – 47.5 M
EFFICIENCY	45 – 80%
SUCTION × DELIVERY	200 × 200 MM
SOLIDS HANDLING	UP TO 25 MM
MAX OPERATING SPEED	1500 RPM
RATED PRIME MOVER CAPACITY	150 HP / 110 KW
HYDROSTATIC TEST PRESSURE	7.5 KG/CM²
MAX OPERATING TEMPERATURE	60 °C

The performance curve below shows Head vs Flow for the ADS MHF-150 SD pump at 1500 rpm.



PRODUCT OVERVIEW

The ADS MHF-200 belongs to our proven MHF Series of high-efficiency centrifugal pumps, designed for medium to high head applications. With flow capacities up to 100 – 1000 m³/h and heads up to 28 – 100 m, this pump delivers robust and reliable performance across diverse projects.

Engineered for durability and efficiency, the MHF-200 is widely applied in construction, mining, irrigation, flood control, industrial utilities, and municipal water systems. It is equally suited for permanent installations and rental-based dewatering solutions with ADS operation & maintenance support.

MATERIAL OF Construction ADS MHF-200

Impeller: Bronze / SS304 / SS316 / CD4MCuN

Casing: Cast Iron / WCB / SS304 / CD4MCuN

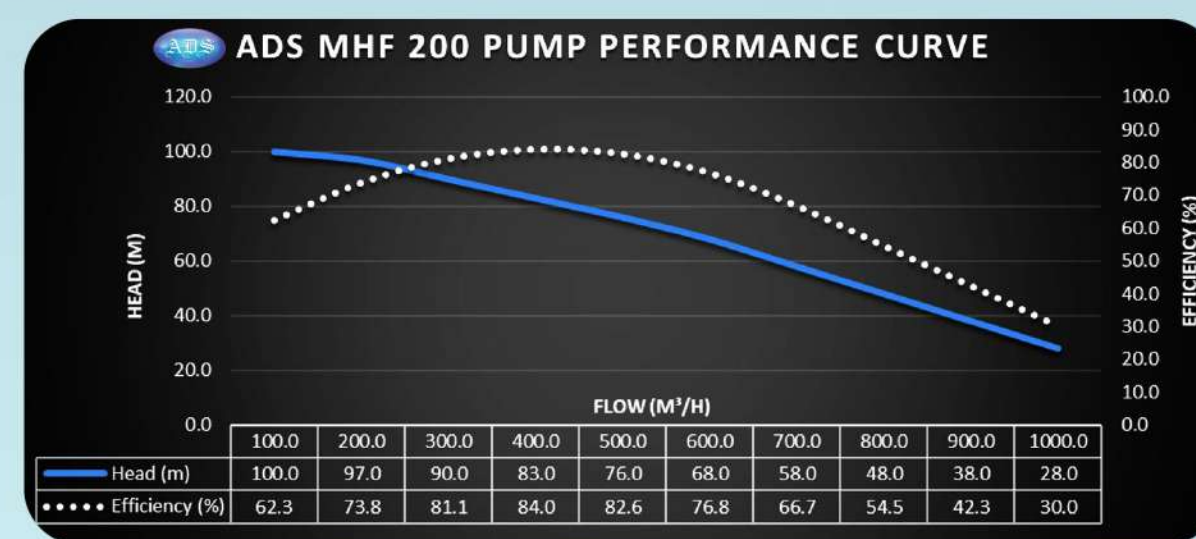
Shaft: SS304 / SS316

Seal: Mechanical Seal (SIC vs SIC / TC vs TC)

Technical Data

PARAMETER	SPECIFICATION
Flow Range	100 – 1000 m ³ /h
Head Range	28 – 100 m
Efficiency	30 – 84%
Suction × Delivery	250 × 200 mm
Solids Handling	Up to 30 mm
Max Operating Speed	1500 rpm
Rated Prime Mover Capacity	200 HP / 150 kW
Hydrostatic Test Pressure	16.5 kg/cm ²
Max Operating Temperature	60 °C

The performance curve below shows Head vs Flow for the ADS MHF-200 pump at 1500 rpm.



PRODUCT OVERVIEW

The ADS MHF-640 represents the flagship model in our MHF Series of centrifugal pumps. With the ability to deliver massive flows of up to 2400 m³/h and handle heads as high as 105 meters, it is purpose-built for mega infrastructure, hydro and thermal power projects, deep mining operations, urban flood control, and large-scale industrial applications.

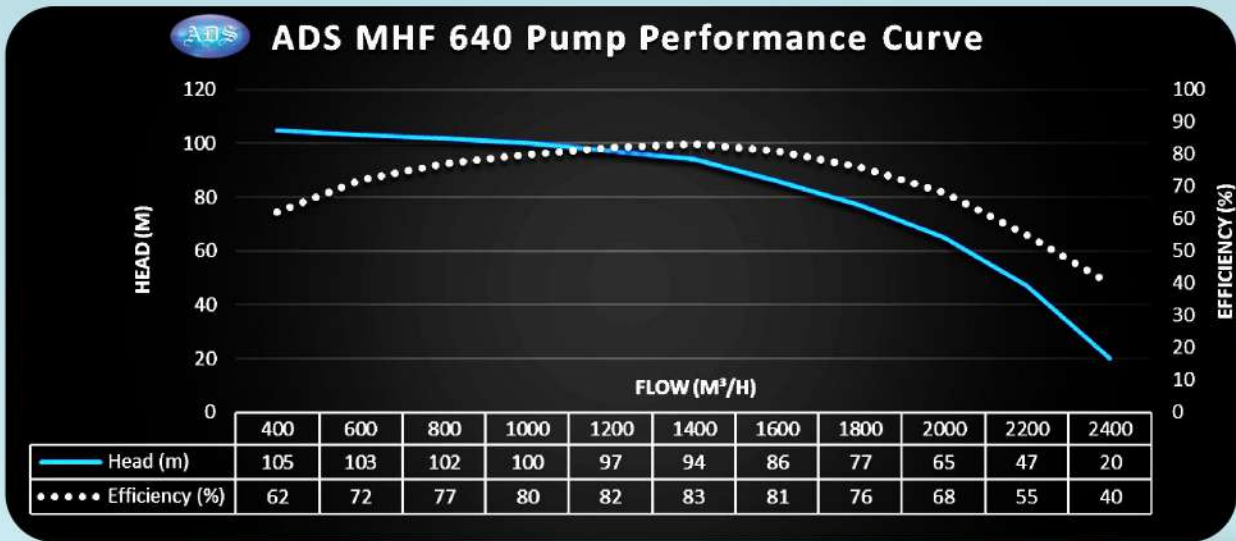
This pump is not only powerful but also versatile, equipped to manage demanding environments where high reliability and efficiency are critical. With solids handling up to 60 mm and hydro-tested casing, the MHF-640 provides unmatched performance under extreme conditions

MATERIAL OF Construction ADS LHF-640

Technical Data

PARAMETER	SPECIFICATION
Flow Range	400 – 2400 M³/H
Head Range	20 – 105 M
Efficiency	40 – 82%
Suction × Delivery	350 × 300 MM
Solids Handling	UP TO 60 MM
Max Operating Speed	1500 RPM
Rated Prime Mover Capacity	640 HP / 480 KW
Hydrostatic Test Pressure	18 KG/CM²
Max Operating Temperature	60 °C

The performance curve below shows Head vs Flow for the ADS MHF-640 pump at 1500 rpm.



DESIGN Features

- Dynamically balanced impeller for vibration-free operation
- Heavy-duty bearing housing for extended service life
- Stainless steel shaft minimizing deflection
- Back pull-out design ensuring easy maintenance
- Abrasion-resistant casing and impellers for durability
- Factory hydro-tested casing and seals for reliability
- Efficient operation across a wide duty range
- Compatible with diesel engine or electric motor drive

- Construction & Excavation – Reliable site dewatering for basements, foundations, and underground works.
- Mining & Tunnels – Continuous drainage for pits, shafts, and tunneling projects.
- Irrigation & Canal Pumping – Efficient water transfer for agricultural and canal systems.
- Flood Control & Disaster Relief – Emergency pumping for storm water and flood management.
- Industrial Water Supply – Process water circulation and utility pumping.
- Power Plants & Cooling Water – Robust cooling water supply for thermal and energy projects.
- Municipal Utilities – Urban drainage, stormwater, and potable water handling.

WHY CHOOSE ADS?

- 25+ Years of Expertise
- 400+ Projects Executed
- Trusted by L&T, NTPC, Adani, Tata Projects, and more
- Sustainable, responsible dewatering solutions

SUPPLY VS RENTAL Offerings

Supply (Sales): Designed for permanent installation, available with multiple material options (CI, SS, Bronze, CD4MCuN). High efficiency and robust design ensure long service life.

Rental (With O&M): Fully maintained pumpsets available on hire with prime mover and auto-priming system. Operation, running, and maintenance included within ADS scope, ensuring rapid deployment and reliability