

Centrifugal Pumps

MT Series | ST Series | MH Series | UT Series | FP Series

Special Application Trucks & Pumps | **Since 1978**



AGRICULTURE



FOOD



INDUSTRIAL



MINING



MUNICIPAL



OIL & GAS



REFRIGERATION



RENTAL

Copyright © 2023 by Meraj Limited

All rights reserved. No part of this publication may be used or reproduced by any means, or stored in a database or retrieval system, without prior written permission of the publisher. Making copies of any part of this publication for any purpose other than personal use is a violation of **Pakistan – Turkey** copyright laws.

MERAJ reserves the right to change / amend / improve any specification or wording without prior notice.

Special Application Pumps

Pump Division



INTRODUCTIONS

MERAJ has established itself as a leading, comprehensive solution provider for specialized vehicles and value-added pumps, catering to industries and governments worldwide. Our reputation as a renowned OEM solution provider for specialized vehicles and special application pumps is built on enduring partnerships and corporate alliances.

Our skilled engineering team is dedicated to assisting our valued customers at every step, from installation and training to product servicing, ensuring the maximum potential of each product is realized. Our commitment to engineering excellence led to the inception of our pump division in 2001.

Over time, MERAJ has expanded its pump offerings to include a diverse range capable of handling chemical, petroleum, trash, sewage, and water across fixed installations, trailer-mounted, and PTO-driven configurations.



AGRICULTURE



FOOD



INDUSTRIAL



MINING



MUNICIPAL



OIL & GAS



REFRIGERATION



RENTAL

INTERNATIONAL STANDARDS

MERAJ Pumps adheres to international manufacturing codes, ensuring precision and compliance with international requirements for both local and global clientele. Our certifications include:

- NFPA (National Fire Protection Association)
- ICAO (International Civil Aviation Organization)
- BSS (British Standards Society)
- EN (European Standards)
- ISO (International Standards Organization)

MERAJ Limited, as a manufacturer of special-purpose trucks, pumps, and equipment, maintains the highest quality across all functions, including marketing, engineering, manufacturing, and customer service, as evidenced by our ISO 9001, ISO 45001, and ISO 14001 certifications.



Special Application Pumps

Pump Division



1 – MUNICIPAL PUMPS

When it comes to municipal applications, pumps face some of the most challenging conditions, handling diverse fluids and slurries in various environments where fluid specifications may be uncertain. MERAJ offers a range of robust, non-clogging pumps specifically designed to withstand the demands of municipal work, ensuring efficient water management and dewatering solutions.

Our **MT and MH Series** are self-priming centrifugal pumps that boast heavy-duty, solid-handling, and medium head capabilities, along with re-prime functionality and innovative design and maintenance features. These economical and reliable pumps are easy to install and maintain, offering optimal solutions for our customers.



AGRICULTURE



INDUSTRIAL



MUNICIPAL



RENTAL



MT Series – Technical Data

Suction	2"	3"	4"	6"	8"	10"	12"
Discharge	2"	3"	4"	6"	8"	10"	10"
Max. Head (Ft.)	103	112	119	111	109	133	120
Max. Flow (GPM)	225	450	730	1500	2620	3200	4000
Max. RPM	2000	2000	1750	1550	1450	1450	1450
Max. Power (HP)	10	15	15	50	60	100	125
Net Weight (lb / kg)	203 lbs / 92 kg	220 lbs / 99 kg	310 lbs / 141 kg	935 lbs / 425 kg	1705 lbs / 775 kg	1750 lbs / 794 kg	2200 lbs / 998 kg
Repriming Lift	24 ft	25 ft	25 ft	25 ft	23 ft	22 ft	18"
Max Solid Sphere	1.5"	2.5"	3"	3"	3"	3"	3"

Special Application Pumps

Pump Division



MH Series – Technical Data



Suction	3" (75 x 75 mm)	4" (100 x 100 mm)	6" (150 x 150 mm)
Discharge	3"	4"	6"
Max. Head (ft.)	210	190	175
Max. Flow (GPM)	370	650	1360
Max. RPM	2150	2150	2250
Power (HP)	25	40	100
Net Weight (LB / KG)	472 lbs / 214 kg	600 lbs / 272 kg	910 lbs / 413 kg
Impeller	11"	11"	12.5"
Max. Solid Sphere	20.63 mm	28.57 mm	32 mm



AGRICULTURE



INDUSTRIAL



MUNICIPAL



RENTAL

Optional Equipment and Materials:

Automatic air release valve, 120V 230V casting heater, Sea-Water application materials. High pump temperature shutdown kit, Moisture probe gauge kit, ASTM standard suction and discharge flanges.

Seal Specifications:

Mechanical oil-lubricated, double floating, self-aligning seals. Silicon carbide rotation and stationary faces. Stainless steel metal components. Maximum temperature of liquid pumped 180°F / 83°

Special Application Pumps

Pump Division



INDUSTRIAL PUMPS

MERAJ's Industrial Pump Series is designed to cater to a vast array of applications within various industries. These heavy-duty process pumps efficiently handle a diverse range of products, including water, chemicals, petroleum, wastewater, oil, sludge, slurry, and food. Centrifugal pumps are the predominant type used for industrial purposes.

Our industrial pumps, including the **ST Series** and **UT Series**, are manufactured in compliance with international standards using advanced yet straightforward methods. These series offer a selection of options tailored for industrial use, ensuring exceptional quality and performance for oil and gas company's and governments.



FOOD



INDUSTRIAL



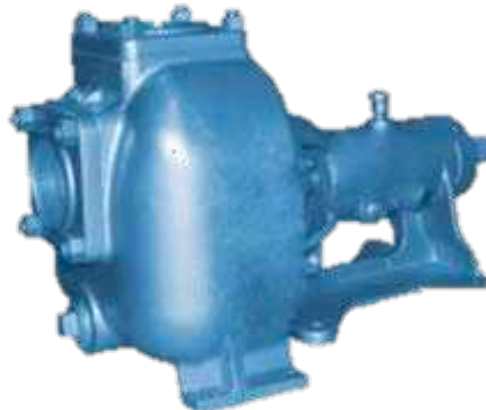
MINING



OIL & GAS



RENTAL



Special Application Pumps

Pump Division



ST Series Pumps

The versatile ST Series Pumps offer a variety of mounting configurations, including close-coupled, SAE engine-mount, horizontal frame-mount, vertical, and vertical coupled options. These pumps are well-suited for firefighting applications. The ST Series pumps are available in Iron and CD4MCu stainless steel, which provides corrosion resistance equal to or better than 316 SS while boasting double the yield strength.

Designed for industrial use, the ST Series are end suction, non-clogging pumps equipped with a hydraulic drive that allows for variable speeds. These pumps feature a 2-vane closed impeller and can operate dry. The ST pumps' advanced capabilities make them ideal as booster pumps, and they can be directly bolted into pipelines.

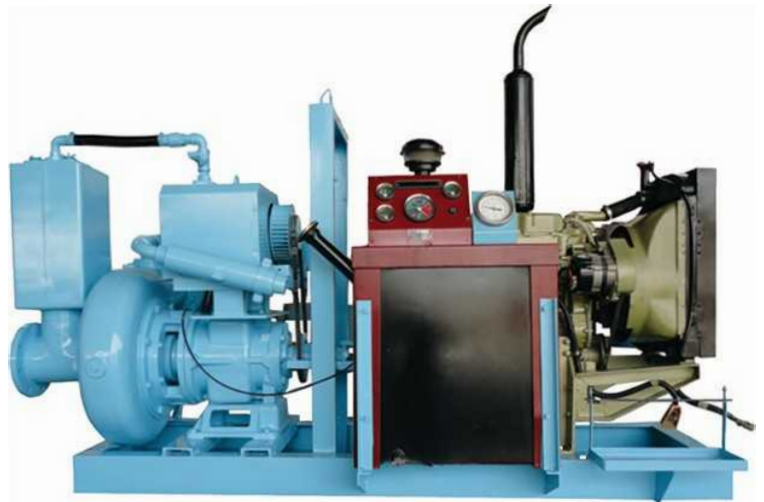
Applications:

- Sewer systems
- Dewatering
- Canneries
- Dredging
- Foundries
- Wastewater
- Sludge
- Construction



Features:

- Variable speeds
- Hydraulic drive
- Two-vane closed impeller.
- Dry-run capability
- Oil-lubricated seals
- Suitable as a booster pump
- Direct pipeline bolting
- Compatible with electric drive



ST Series – Technical Data

Suction	4"	6"	8"	10"	12"	14"	16"	20"	24"
Discharge	4"	6"	8"	10"	12"	14"	"	20"	24"
Max. Head (Ft.)	450	300	360	360	200	120	240	140	140
Max. Flow (GPM)	1600	3200	5225	10,000	10,000	12,000	17,000	24,000	32,000
Max. RPM	2000	2000	1800	1800	1800	1200	1200	750	750
Max. Power (HP)	250	125	300	500	250	200	500	500	700
Impeller	17.5"	14"	17.5"	18.5"	14"	17.5"	22"	28"	28"
Max Solid Sphere	3"	3"	3.38"	4.75"	3"	4"	4.5"	5"	5.25"

Special Application Pumps

Pump Division



UT Series Pumps

MERAJ's UT Series gear-reducer, power take-off (PTO) pumps excel in various clean liquid-handling applications, ranging from dust control at quarries to aircraft fuel supply. These pumps are specifically designed for transferring fluids without large solids.

The UT Series pumps feature a rugged, lightweight construction and compact design, allowing for installation in the unused space between the cross member of a chassis frame on refueling and water transfer vehicles. Their performance efficiently handles the fuel rates required by local service carriers and suppliers. These pumps are well-suited for managing fuel oil, gasoline, and other petroleum-based products. Their efficient and economical design enables multiple unit installations, making them an ideal auxiliary pump for fire trucks, sewerage cleaning trucks, and water pumps.

When power take-off or auxiliary drive connections are not suitable, UT Series pumps can be adapted for DC or hydraulic motor drives.

Applications:

Dewatering, Fueling (Jet Fuel / Diesel), Wastewater and Fire Fighting

Features:

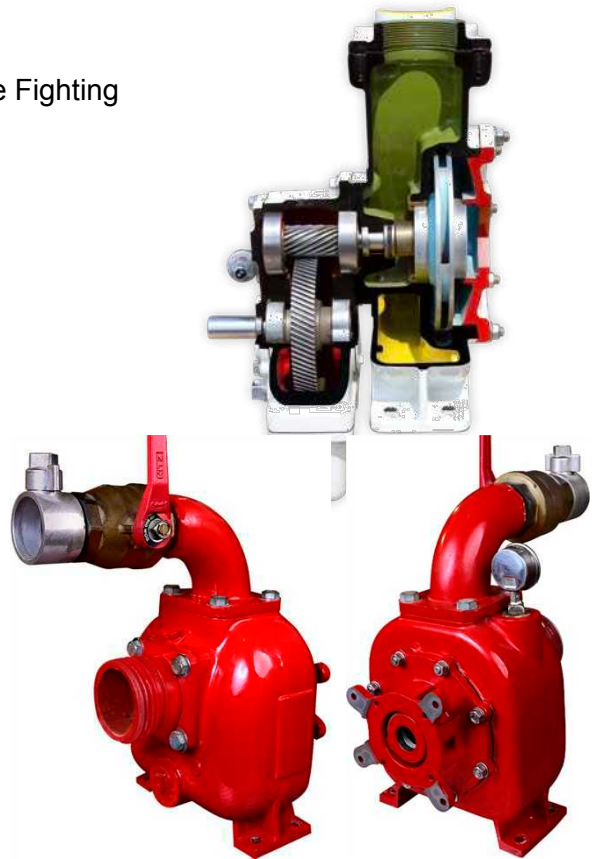
- Variable speed
- Hydraulic drive
- Power take-off
- Electric drive compatibility
- Brass or aluminum alloy impeller
- Ductile iron or aluminum alloy body

UT-2 Performance

150 GPM @ 100' / 44 PSI / 3 BAR @ 700 RPM – 10 HP
130 GPM @ 230' / 100 PSI / 7 BAR @ 900 RPM – 15 HP
110 GPM @ 335' / 145 PSI / 10 BAR @ 1000 RPM – 20 HP

UT-3 Performance

360 GPM @ 231' / 100 PSI / 7 BAR @ 1000 RPM – 30 HP
225 GPM @ 254' / 110 PSI / 7.6 BAR @ 1000 – 30 HP



UT Series – Technical Data

Suction	2" (50 x 50 mm)	3" (75 x 75 mm)
Discharge	2"	3"
Max. Head (ft.)	350	200
Max. Flow (GPM)	185	400
Max. RPM	900	3450
Power (HP)	20	30
Net Weight (LB / KG)	46.3 lbs / 21 kg	103.62 lbs / 47 kg
Impeller	6.5"	7.25"

Special Application Pumps

Pump Division



TRUCK MOUNTED FIRE FIGHTING PUMPS

Firefighting systems in truck-mounted applications require pumps that can adapt to changing situations, provide maximum discharge head and flow rate, withstand high temperatures, and operate smoothly. MERAJ manufactures reliable firefighting safety pumps specifically designed for truck-mounted applications, with their performance thoroughly tested and proven over the years.

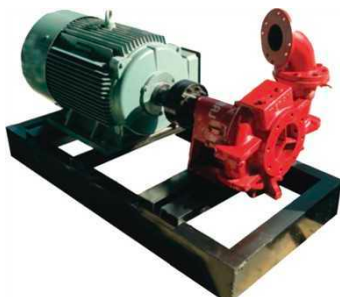
Our FP series pumps are single-stage, centrifugal pumps with PTO technology designed to meet the high-pressure flow rates ranging from 325 to 1500 GPM required for major high-pressure applications. The FP series are our best-selling truck-mounted pumps and are available with 2 or 3 gears transmission, allowing for the addition of a high-pressure booster pump or CAFS.

Applications:

Firefighting aerials, ARFF Vehicles, Industrial pumper, Pumper tanker

Features:

- Variable speed
- Power take-off
- Electric drive compatibility
- Brass or aluminum alloy impeller
- Ductile iron, aluminum alloy, or gun metal body
- Skid-mountable
- Trailer-mountable
- 2-stage model available
- Multi-pressure model available with 400 LPM @ 40 bar
- Automatic and electric priming



Contact

MERAJ Limited

Plot No. 11 Sector 15
Korangi Industrial Area
Karachi-74900, Pakistan

Tel: +9221-35050145/6

Fax: +9221-35060663

E-mail: sales@meraj.com

www.meraj.com

Special Application Trucks & Pumps | Since 1976

In the interest of product improvement, we reserve the right to change the specifications without in-curing any obligation for equipment "sold" or "subsequently sold"