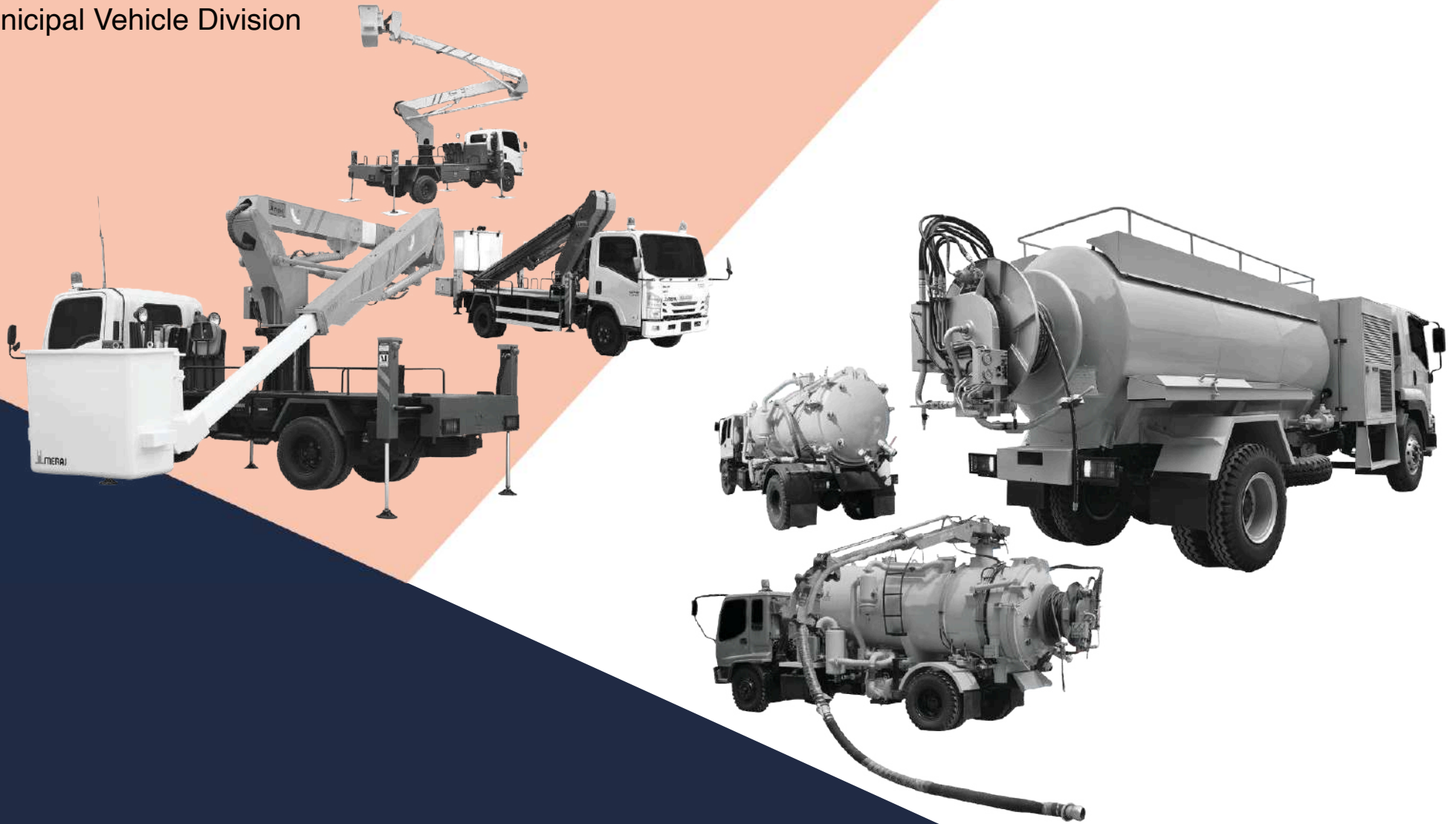


Municipal Vehicle Division



**MERAJ**

Municipality Trucks





## INTRODUCTION

Meraj range of municipal vehicles is well-respected and generates a sense of belonging, not just in the Pakistan but also across the international markets. Meraj is symbolic of outstanding quality, value, and reliability, setting a benchmark others strive to emulate. Through continuous improvement, the company remains committed to producing a diverse product range, engineered to meet specific customer requirements.

MERAJ Municipal Vehicles range has diverse offerings and can fulfill most requirements of any municipality with quality and customer oriented options. Our municipality vehicles division carries the following;

- ◆ Suction & Jetting vehicles as well as combined functionality (hazardous and non-hazardous),
- ◆ Hook Lifts (from 3-ton to 15-ton),
- ◆ Truck-mounted Aerial Platforms (10 meters to 42 meters, Our manufactured platforms are EC EN-280 certified),
- ◆ Water Tankers made of Stainless steel, Galvanized Iron or Polypropylene in elliptical shape,
- ◆ Knuckle boom cranes and stiff-boom telescopic cranes
- ◆ International chassis compatibility

## Why Choose Us

### QUALITY

Being an integral part of the safety infrastructure our firefighting as well as municipal vehicles are subjected to rigorous quality assurance testing. MERAJ ensures all of our products and vehicles are compliant to ISO 9001, ISO 45001, and ISO 14001. This provides an in-depth understanding of the QMS in accordance with the ISO 9001 framework. By complying to these frameworks, we enable our products to be quality warranted.

### CUSTOMIZED SOLUTIONS

The indisputable impact of 3D on design has revolutionized the automotive world and therefore, our team of designers generates, organizes, and customizes vehicle bodies as per client requirements. The result is an easier-to-understand, more information-rich 3D digital model giving product development and manufacturing operations a significant competitive edge.

### FUNCTIONALITY & RELIABILITY

The revolutionized designing leads to reliable manufacturing owing to the advanced product design. Use of the latest advanced CNC automotive allows for faster production of precise and highly efficient parts. The precision and complexity of the process leads to optimization and improvement in terms of performance, durability, and reliability.

### AFTER-SALE SERVICE

Being in the safety business our service teams are always there for our clients. A range of service partners ensure that if there is ever an unexpected problem, there is always an after-sale service available for you. 3D designing and computing makes it much more practical to provide precise and accurate parts years after delivery of the product.



# MUNICIPAL VEHICLES



## Combined Suction Jetting Vehicle

**MCSV Series** – Combined vehicle is like a Swiss knife of functionality for sewage cleaning. multi-functional machine ideal for contractors and councils working on mainline sewers, gullies, and drains. It features an uprated jetting performance and the benefit of years of focused research and development. The result of this investment is a very efficient standard package. The fundamental difference and upgrade are apparent with the fitting of the large hydraulically powered jetting hose reel to the rear door. Many additional options are also available to the customer to suit their requirements.

### Features;

- Full range of air pumps available, from 150 cubic meters per hour to 2500 cubic meters per hour. Further specialist equipment is available.
- Pump types include rotary vane, oil free, air cooled, water cooled, liquid ring
- Jetting Pump - up-to 200 LPM and 300 bar of pressure.
- Hydraulic Overhead Loading Boom 150mm (6") [optional]
- Tipping Body [optional]
- Fully Opening Hydraulically Operated Rear Door with Hydraulic Clamps
- Stainless steel internal tank liner [optional]
- Tilting Jetting Hose Reel
- Extra Deep Lockable Hose Boxes on both sides
- Programmable Logic Controller (PLC) [optional]
- Rubber Jetting Hose in lieu of Thermoplastic
- Extra Jetting hose length up to 150m on Main Reel 1" Dia. [optional]
- 9-ton to 26-ton GVW [weight classification]
- Waste Tank capacity up-to 6000 Liters
- Water Tank capacity up-to 7000 Liters



## Jetting Vehicle

**MJV Series** – Jetting Vehicles features functionality of jetting operations from Combined vehicle in a very simple and functional package. The jetting performance is taken to the next level to provide a machine to take on a wider range of duties as required by our customers. Equipped with the hydraulically powered jetting hose reel, together with an updated flow and pressure from the larger jetting pump, there is little the MJV cannot handle.

It features an uprated jetting performance and the benefit of years of focused research and development. The result of this investment is a very efficient standard package. The fundamental difference and upgrade are apparent with the fitting of the large hydraulically powered jetting hose reel to the rear door. Many additional options are also available to the customer to suit their requirements.

### Features:

- Jetting Pump - up-to 200 LPM and 300 bar of pressure.
- PTO driven and optionally auxiliary engine drive
- Tilting Hydraulically powered self-aligning Jetting hose reel
- Extra deep lockable storage boxes on both sides
- Programmable Logic Controller (PLC) [optional]
- Rubber Jetting Hose in lieu of Thermoplastic
- Extra Jetting hose length up to 150m on Main Reel 1" Dia. [optional]
- 9-ton to 18-ton GVW [weight classification]
- Water tank capacity from 4000 L to 8000 L
- Available as kit form to be mounted on any chassis.





## Suction Vehicle / Vacuum Tanker

**MJV Series** – Meraj offers the largest range of specialist hazardous and non-hazardous vacuum tankers in Pakistan, purpose designed to meet all your liquid waste collection and transportation requirements. Customers that want diversity, then it doesn't get any better than MSV. Purpose-designed, every MSV is different. Suitable for all types of rigid or semi-trailer chassis, tipping or non-tipping, and frameless semi-trailers, they can be manufactured from stainless steel and carbon.

Customers are also assured that they are built to the highest relevant standards, including the requirements of ADR/hazardous and nonhazardous products. They can be manufactured to any capacity, limited only by axle loading regulations, on all types of rigid, semi-trailer and trailer chassis, on sub-frames, demountable frames, frameless and with any required form of special mounting.

### Features:

- Hydraulically Operated Rear Door / Dished End with Rear Manhole Access
- Top Mounted Manhole c/w Ladder Access
- Anti-surge bolt in baffles
- Fixed Body using Meraj Flex mount system
- Hose Trays both sides
- Programmable Logic Controller (PLC) [optional]
- A fully opening rear door, hydraulically operated top hinge / side mounted manual.
- Hydraulic / manual door clamps.
- Hydraulic Tank tipping [optional]
- Inlet/outlet, overspill, and vent valves can be interlocked for safety
- Full range of air pumps available, from 150 cubic meters per hour to 2500 cubic meters per hour. Further specialist equipment is available.
- Pump types include rotary vane, oil free, air cooled, water cooled, liquid ring
- Available as kit form to be mounted on any chassis.



## Hook-lifts [De-mountable Container System]

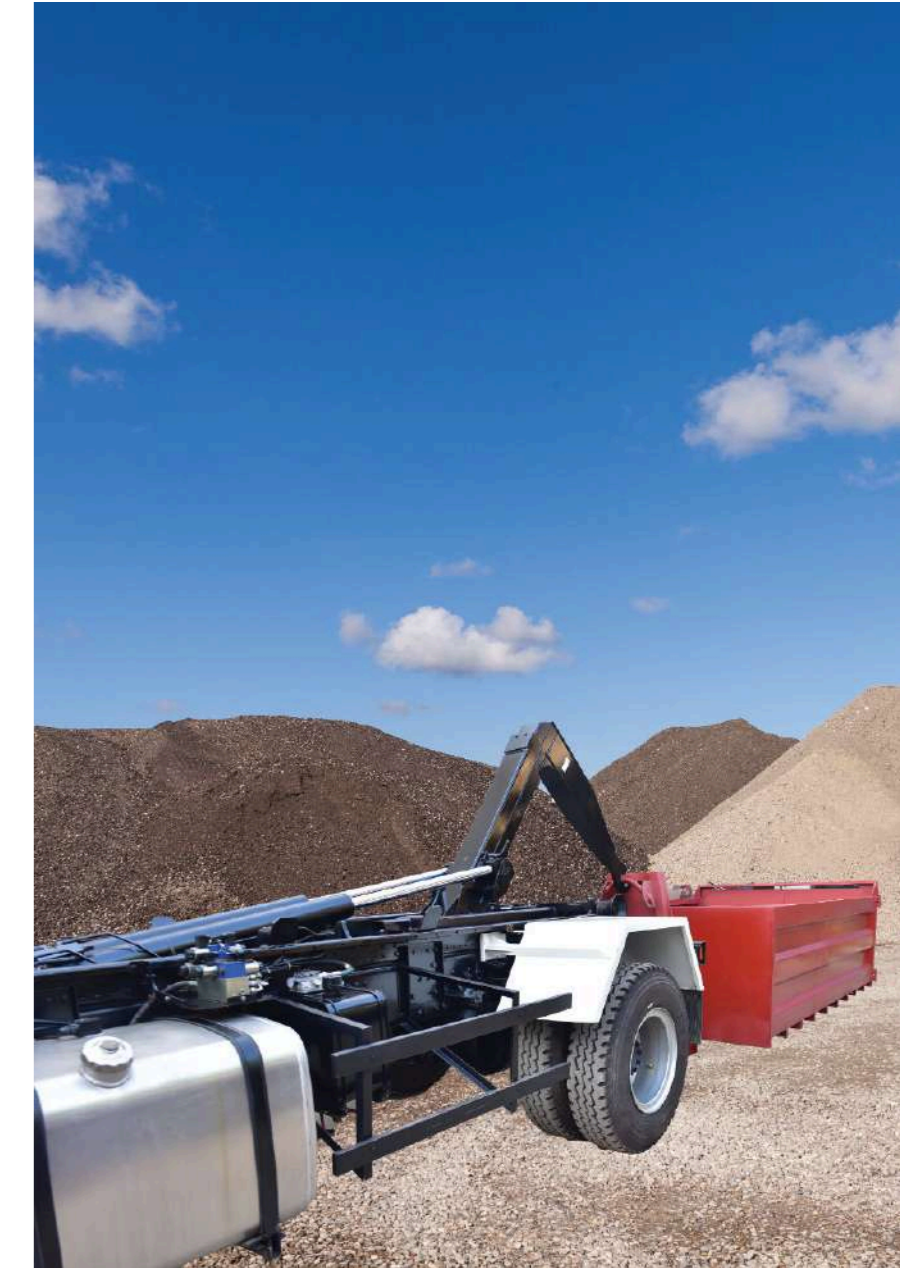
**Town Slider Series** – Meraj Town Slider Series hooklift is a body handling system mounted on a truck chassis that is capable of loading, unloading, and dumping various bodies with a wider range of lengths with the use of a sliding jib.

The Town Slider hooklifts are known for its versatile design and ease of operation. All models of the Town Slider feature permanently lubricated and grease-able bushings used throughout, the hook lifts provide a full length dump frame and rollers positioned throughout the loader, instead of saddles with wear pads. All Meraj hook-lifts operate using in-cab controls which allows for precise metering of the hydraulic valve while offering a clear and safe view of the operation through the rear window.

The Slider will accommodate various length bodies and still attain the maximum rated dump angle. Mechanical rear body latch system will match a multitude of different body hold down configuration.

### Features:

- Meraj manufactured available models: 3,000 kg to 15,000 kg
- Hydraulic locking mechanism for dump operations
- Integrated oil tank
- In-cab controls
- Hydraulically adjustable hook lengths
- Hydraulic counterbalance valves to prevent cylinder collapse in case of hose failure.
- 5-ton to 30-ton GVW [weight classification]
- Available as kit form to be mounted on any chassis.





## Truck Mounted Aerial Platform

Meraj manufactured access platforms offer both non-insulated and insulated platforms reaching working heights of between 10 m to 50 m for chassis weighing between 3.5-ton and 33-ton. Meraj access platforms are thus optimally adjusted to the relevant working range. The most important industries include: leasing and rental business, local authorities, landscaping / gardening, energy supply and the cleaning of structures, buildings and large machines as well as the maintenance and repair of wind turbines.

### Features:

- Telescopic, Articulated and Telescopic Articulated options
- Platform capacity 170 kg to 350 kg
- Extra reach jib for those hard-to-reach places
- Allows operating in narrow areas
- All functions can easily be operated by using the full colour control panel. A quick-to-understand, icon-based display intuitively guides the user through the menu.
- Convenient stabilizer system
- The automatic leveling of the work platform saves time and ensures the maximum performance
- Home function
- Memory function



## Water Tankers

**MWB Series** – Meraj offers the most unique systems for water tankers, they are offered with PTO driven pump / auxiliary engine drive. Water tankers can be manufactured with variety of materials such as Stainless Steel, Mild Steel, Galvanized Iron and Polypropylene.

### Features:

- Top Mounted Manhole c/w Ladder Access
- Anti-surge bolt in baffles
- Fixed Body using Meraj Flex mount system
- Full range of pumps available, from 300 GPM to 1500 GPM at 110 psi. Further specialist equipment is available.
- Pump and roll functionality, for continuous pumping operations while driving.
- Ground sweep nozzles
- Street washing capability with a high pressure plunger pump
- 9-ton to 40-ton GVW [weight classification]
- Water tank capacity from 4000 L to 20000 L
- Available as kit form to be mounted on any chassis.





## Knuckle Boom / Telescopic Cranes

Waste management differs from country to country, city to city and company to company. However, one thing all operations have in common is the need get the job done efficiently and safely. And that means investing in the right equipment. Whether you're handling glass, metal, cars, rubber, wood or all these materials, Meraj has the right crane for the job.

We offer the vital services you need to ensure reliable uptime throughout your equipment's lifecycle. With the latest tools and connectivity, and a wide network of experts, we can ensure that your Meraj equipment keeps delivering the same, high performance throughout its entire lifetime.

### Features:

- Clam shell bucket or claw functionality
- Lifting capacity range 102 kN-m to 165 kN-m
- Single or dual stand-up platforms for convenience and better visibility
- High seat centered or side mounted for an elevated view.
- Remote control for freedom of movement around the crane and working area to get the best vantage point.
- Fire & Rescue application



## ENGINEERED APPROACH

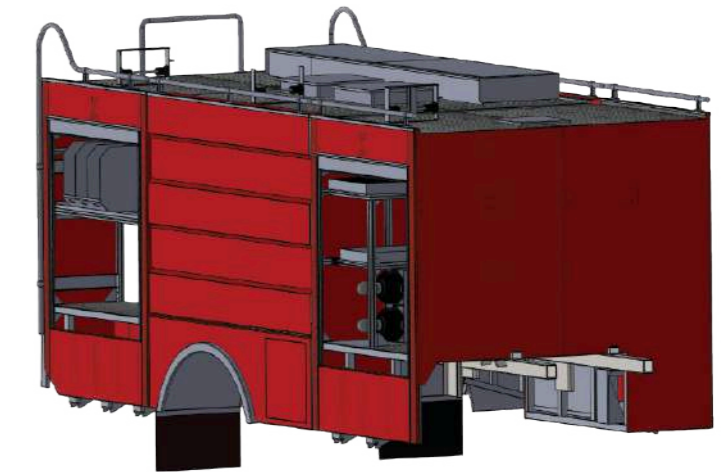
Coming from a humble beginning, today Meraj has a truly modern manufacturing facilities 2 in Karachi, Pakistan and 1 in Basiskele, Turkiye with all the key processes carried out in-house, rather than sub contracted out.

Every stage of the manufacturing process – from technical specification, preparation of the chassis, tank build, mounting of tanks, fitting of components, painting, finishing and quality control – all takes place on site.

The 'in-house' product philosophy gives Meraj the ability to control quality at every stage and to ensure that every product is engineered and built to deliver uptime and value throughout its working lifetime.

All of Meraj manufactured equipments and vehicles are subjected to our strict quality protocol by adhering to ISO 9001 and continuously adding to methods and machines to enhance product quality.

Meraj strictly believes in an engineering approach towards manufacturing. We are continuously since last 4 decades have been spending 15% of our earnings towards research and development and further stretching the manufacturing with different materials.





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