



MEKANIK EQUIPO SISTEM PVT. LTD.

Engg Equipment & Systems

YOUR TRUSTED SOURCE OF  
**PUMPS, VALVES & SPARES**



**OUR MOTTO  
CUSTOMER  
FIRST**



# About Us

MESPL is reliable, efficient and transparent pump company that offer its customer wide choice of positive displacement pump systems and customized solutions. We are committed to excellence in customer satisfaction with our range of solutions and customer support.

In MESPL, we combine our technical knowledge, application expertise and product experience to help our customers find optimum solution for given parameters and budget. We let our customers take informed decision by supporting them with requisite information about potential pumping solutions. MESPL not only help customer chose the right pumping solution but also ensure that it is installed as per requirement and maintain the pump for its life time.

MESPL Progressing Cavity Pump technology is one of the most commonly used pumping system for viscous and abrasive fluids across the industry segments.

## Product Unique Features

- Low NPSHR - Suction lift up to 9 meter of water column
- Viscous Fluids: Can pump up to 1 million + Cps e.g. dewatered sludge cake, Spent Grain, Butter, Toothpaste etc.
- Low Shear Pumping: Gentle handling of product e.g. cream, oily water, cream etc.
- Multi- Phase: Can handle liquid with 97% entrapped gases.
- Bi-Directional: Flow direction can be changed by changing pump direction of rotation e.g. loading/ Unloading.
- Abrasive Slurries: Can handle slurries with high solids % and abrasive particles e.g. Ceramic slip, Tio2 slurry etc.
- Dosing: Accuracy of >98% and high repeatability for accurate dosing of chemicals.
- Wide Variety of Fluids: Thixotropic, Dilatant, Lubricating, Non- Lubricating, Semi Solids, Water, Slurries etc.
- Wide Operating Range: PH Range 0 to 14, Temperature range of -20 Deg. C to 160 Deg. C





## MESPL PC Pump Features and Benefits

### Proven Design of Rotor- Stator:

Rotor- Stator interference is maintained as per design requirements to avoid high wear or power consumption as result of tight interference or lower volumetric efficiency and life of Rotor- Stator as a result of low interference. Customer can depend on the performance of pump and spares alike.

### Joint Options:

Pin Joint or cardan Joint as per process/ customer requirement can be offered for easy and efficient maintenance planning.

### After Sales Support:

In first instance customer should not normally need this as precautions are taken in pump selection and manufacturing stage however in unforeseen situations, where support is needed, our customer can count on our ability to technically analyse the problem and offer solution as applicable.

### Customer Support:

We work with our customer more as a partner than a simple vendor thus aligned ourselves to customer specific requirements e.g. faster delivery supports, stock keeping, technical support to enhance pump life.

## MESPL range of PC Pumps

### Standard Industrial Pump: I series

**MOC:** Cast Iron/ Stainless Steel/ Exotic metallurgy for wet end parts

**Inlet/ Outlet:** Flange Connections

**Capacity:** up to 200 m<sup>3</sup>/hr

**Viscosity:** up to 1 million cst.

**Shaft Seal:** Mech Seal/ Gland Packing

**Drive Option:** Gear Motor/V Belt Pulley

**Pressure:** up to 36 bar

**Speed:** up to 600 rpm

*Note: Available in both horizontal installation and vertical installation as sump pump.*



### Hopper PC Pump : H series

**MOC:** MS/ Stainless Steel/ Exotic metallurgy for wet end parts

**Inlet/ Outlet:** Hopper/ Flange, Food Connections

**Capacity:** up to 200 m<sup>3</sup>/hr

**Viscosity:** up to 1 million cst.

**Shaft Seal:** Mech Seal/ Gland Packing

**Drive Option:** Gear Motor/V Belt Pulley

**Pressure:** up to 36 bar

**Speed:** up to 600 rpm



## MESPL range of PC Pumps

### Food PC Pump : F Series

**MOC:** Stainless Steel

**Inlet/ Outlet:** Food Connections – SMS/TC/JIS/ etc.

**Capacity:** up to 200 m<sup>3</sup>/hr

**Viscosity:** up to 1 million cst.



**Shaft Seal:** Mech Seal/ Gland Packing

**Drive Option:** Gear Motor/V Belt Pulley

**Pressure:** up to 36 bar

**Speed:** up to 600 rpm

*Note: Optional CIP Port for inline CIP as per process requirement can also be provided.*

### Barrel PC Pump: B Series

**MOC:** MS/ Stainless Steel

**Inlet/ Outlet:** Open Mouth/ Threaded

**Capacity:** up to 10 m<sup>3</sup>/hr

**Viscosity:** up to 1 million cst.

**Shaft Seal:** Mech Seal/ Gland Packing

**Drive Option:** Gear Motor

**Pressure:** up to 12 bar

**Speed:** up to 700 rpm



### Dosing PC Pump : D Series

**MOC:** CI/ Stainless Steel

**Inlet/ Outlet:** Threaded, Flange

**Capacity:** up to 5 m<sup>3</sup>/hr

**Viscosity:** up to 1 million cst.



**Shaft Seal:** Mech Seal/ Gland Packing

**Drive Option:** Gear Motor/V Belt Pulley

**Pressure:** up to 36 bar

**Speed:** up to 600 rpm

*Note: Complete dosing skid with tank, flow meter, PLC can also be supplied as per customer requirement.*

### Retrofit Spares:

MES also offer retrofit spares for all major brands of PC Pump with aim to offer its customer value for their money.

Our retrofit spares do not compromise on performance or life and still deliver economic benefits to customers with smooth purchase experience.

We believe in offering complete set of spares to ensure that customer does not have to look for multiple suppliers to keep the pump in good health.





## MESPL other solutions comprises of:



### AODD Pumps:

Air operated Double Diaphragm pump in PP, Aluminium Body and SS body with different grades of diaphragm as per process requirements.

**Size:** up to 3 inch

**Flow:** up to 900 LPM

**Max Suction Lift:** 20 feet

**Diaphragm:** Teflon/ Neoprene

### Non Metallic Centrifugal Pumps:

Available in both PP and PVDF

Flow up to 150 M<sup>3</sup>/hr and head up to 100 meter

Horizontal and Vertical Glandless design

Seal less Magdrive Pump

Flexible Impeller self-priming pump for chemical/ acids.



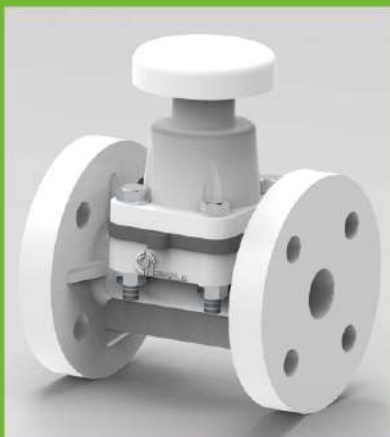
### MESPL PROMISE:

- Will help customers take informed decision
- Will offer best value for money
- Will offer best possible technical support/ guidance.
- Willingness to offer customized solutions as per customer requirement.



## Pump Accessories

Basket Strainers, Mechanical Seal, Pressure Switch, Pressure gauge, Flow Meter etc. are also available as per customer requirements.





## Industries we cater to:



**Chemical Industry**



**Pharmaceutical Industry**



**ETP & WTP Industry**



**Pulp & Paper Industry**



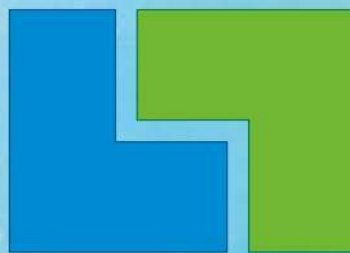
**Food Industry**



**Sugar Industry**



**Oil and Gas Industry**



ENGINEERED EQUIPMENTS  
SYSTEM SOLUTIONS

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