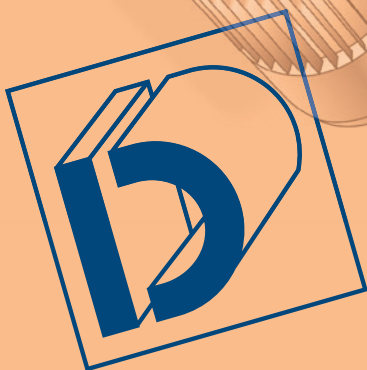
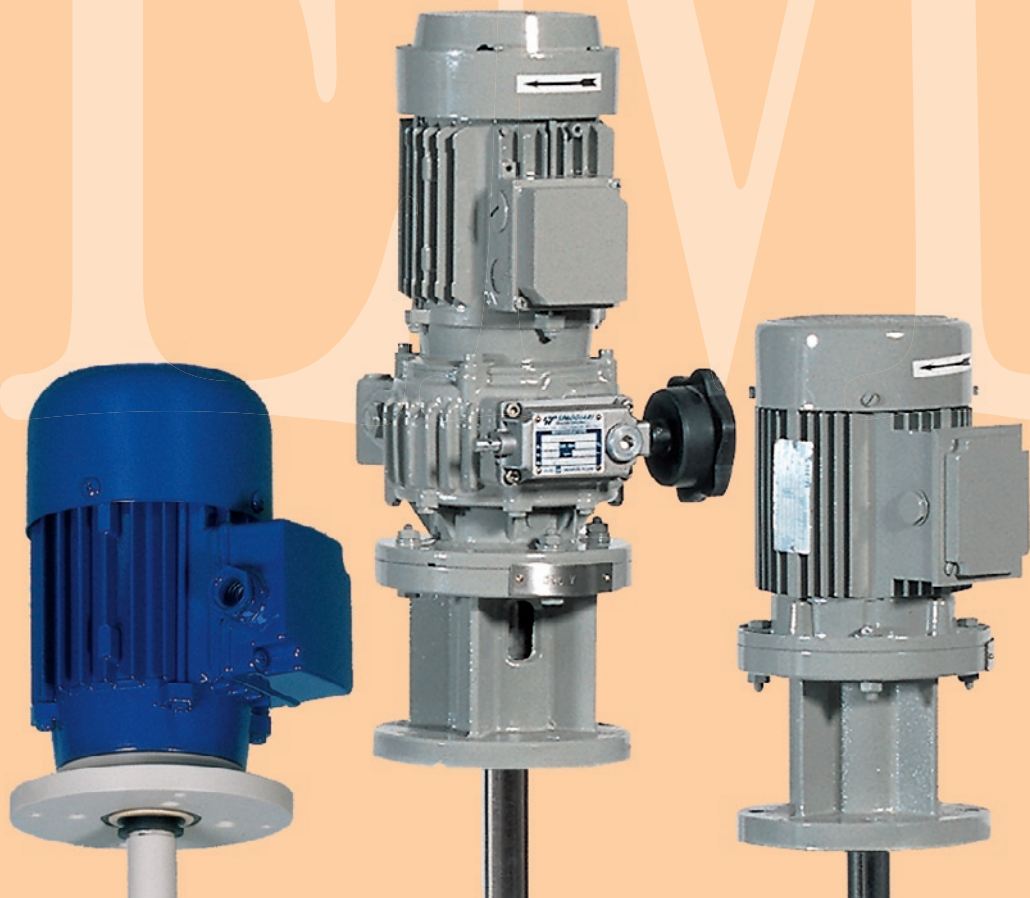


# EM Series

High and  
slow speed mixers



**DOSEURO®**

*The right dosing choice*



# EM Series

## DAM - DMM - DMT DEM - DRV - DRC DVL



Dosing unit with DEM mixer



Dosing unit with DRV mixer



Dosing unit with DAM mixer

DOSEURO, company specialized in developing and manufacturing of dosing pumps, has created a complete range of mixers to face and solve problems in many industrial applications such as chemicals production, water treatment and food production. Our mixers are built according to CE regulations and are marked and documented accordingly.

To select and design a mixer, the following information are required:

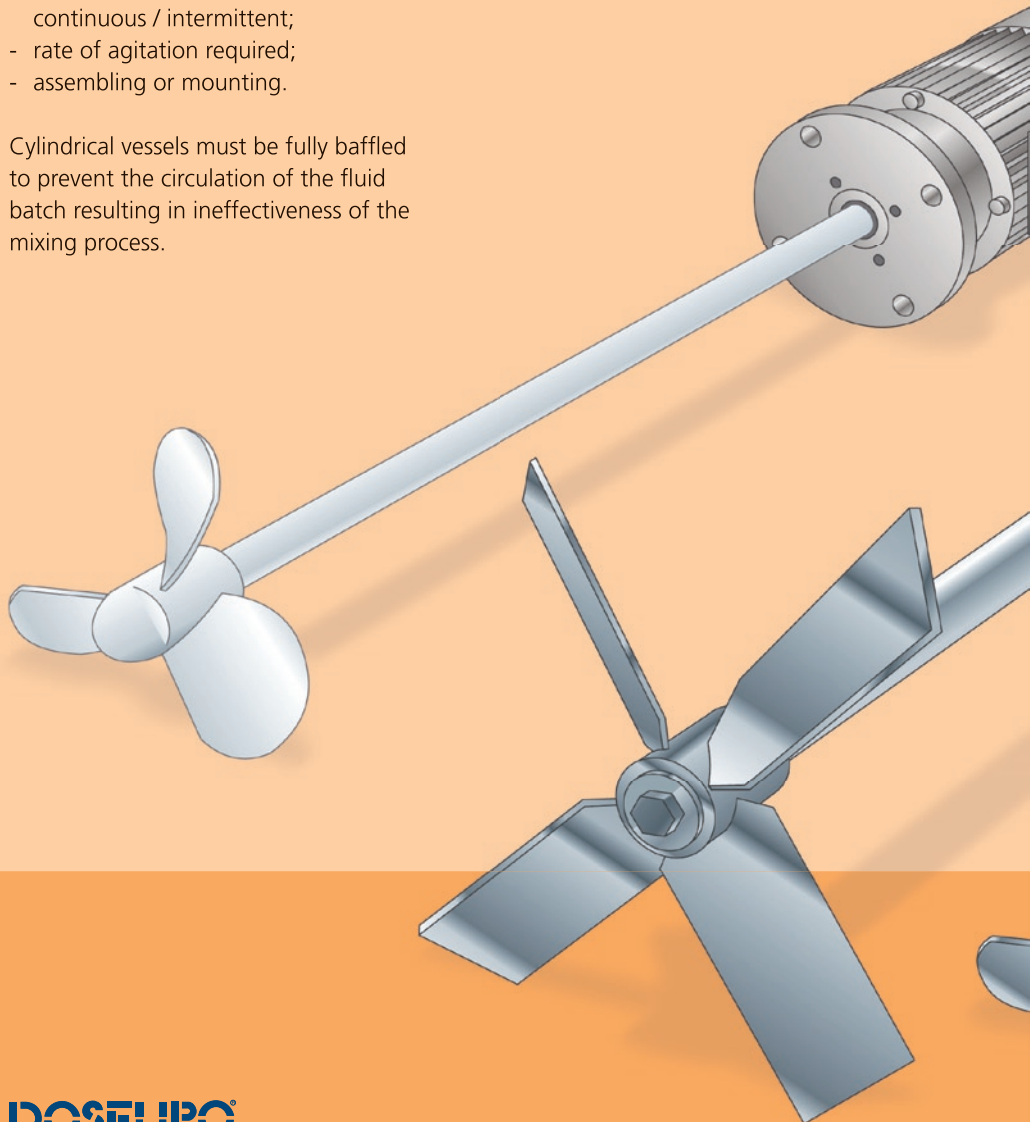
- shape and dimensions of tank where the mixer has to be fitted in;
- volume of liquid to be stirred;
- method of agitation to be used, e.g. continuous / intermittent;
- rate of agitation required;
- assembling or mounting.

Cylindrical vessels must be fully baffled to prevent the circulation of the fluid batch resulting in ineffectiveness of the mixing process.

### GENERAL CHARACTERISTICS

Mixers described in this leaflet are normally assembled with:

- Electrical motors: available in both TEFC or ATEX. Conforming to international standards, they are available with several voltages, frequencies and insulation options.
- Gearboxes: they are selected for their strength and reliability. They are oil or grease lubricated, endless worm and wheel type reducers.
- Variable speed drivers: they can be electronic inverter or mechanical type as well.

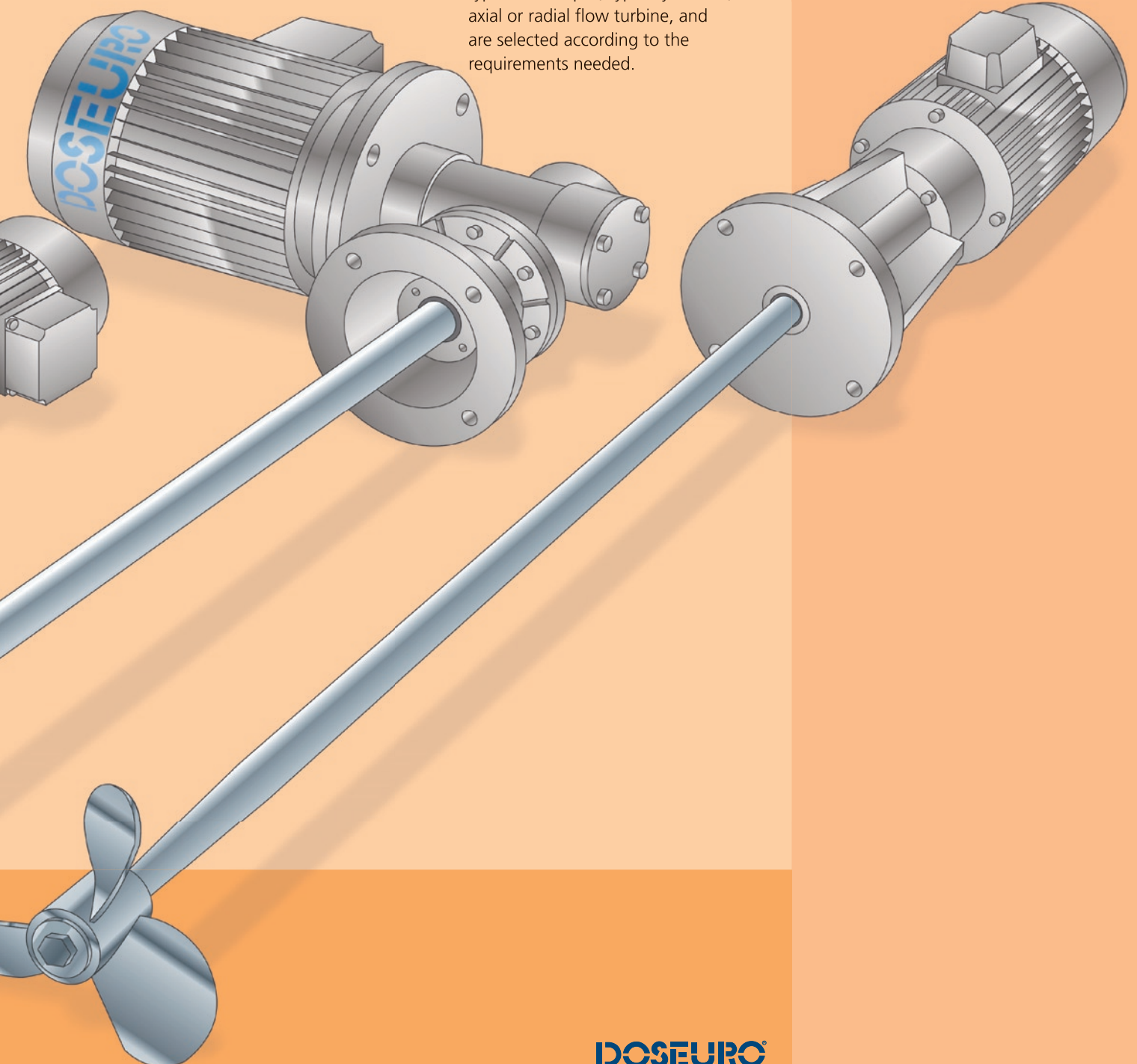


# High and slow speed mixers



- Aluminium extension flanges: in aluminium or carbon steel, they are available with simplex or double bearings. They can be supplied with UNI - ASME - DIN flange standards where required.

- Shafts: as a standard, they are supplied in S.S. 304 but they are available in S.S. 316, C40 polypropylene coated, Ebanite or other acid proof materials as well.
- Propellers: they can be of different types and shapes, typically marine, axial or radial flow turbine, and are selected according to the requirements needed.





# EM Series

## DAM

## DMT-DMM



Economical low power stirrers. They are intended for use with small tanks and polythene dosing containers up to a maximum capacity of 1000 litres, for not viscous liquid.

Direct joining through rigid coupling between shaft and electrical motor.

Shaft and propeller are in S.S.304.  
Max Power KW 0,37.

Economical low power stirrers. They are intended for use with small tanks and polythene dosing containers up to a maximum capacity of 1000 litres.

Shaft and propeller are coated in seamless polypropylene as standard. A vapour proof seal is fitted between the shaft and the bearing flange.

DMT series mixers are supplied with a 3 phase motor, whilst the DMM are single phase.

Max Power KW 0,37.  
Max shaft length 1 met.

# High and slow speed mixers



## DEM



High speed mixers with rigidly coupled shafts and motors fitted as standard with a marine type propeller.

An extended support lantern, houses a bearing and packing ring seal.

These mixers are normally recommended for use with low viscosity solutions and preparation or dissolution of chemicals in small or medium sized tanks.

Max Power KW 5,5.  
Max length shaft 2,5 met.

## DRV



Slow speed mixers for light duty applications.

The motor speed reduction is achieved via a worm gear reducer gearbox with integral hollow drive shaft to which the mixer shaft is fitted and keyed. The gearbox flange is utilised to fix the mixer to the tank or mixer bridge support.

They can be supplied with an extra support guide now designated DRV-G.

Impellers are usually inclined blade axial flow turbine types.

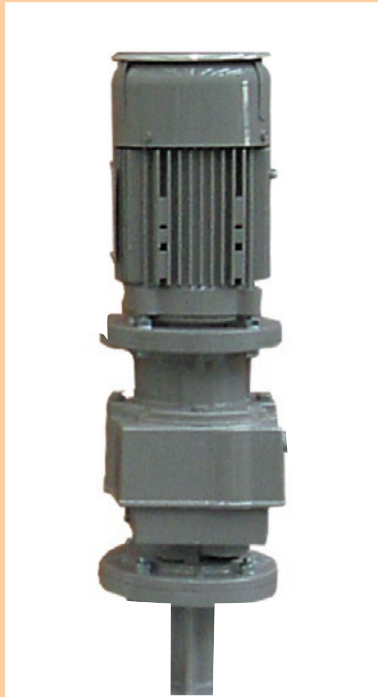
Max Power KW 2,2 -  
Max length shaft 1,5 met (DRV)

Max Power KW 5,5 -  
Max length shaft 5 met (DRV-G)



# EM Series

## DRC



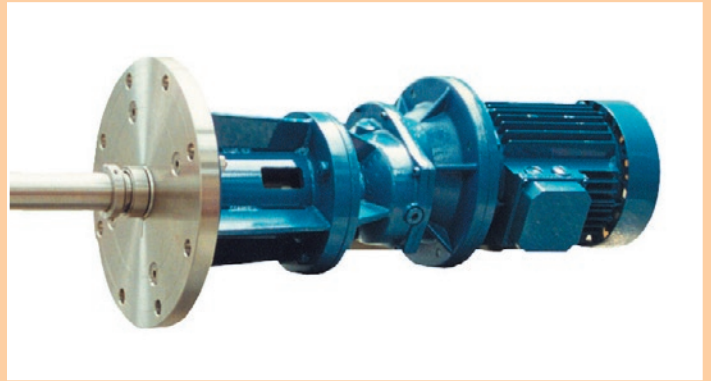
Slow speed mixers with coaxial gearboxes. The speed reducer is of the screw rack type with cylindrical gears, and is coupled to the shaft via a rigid coupling.

A double support is available with extra bearings. Propellers are usually inclined blade (45°) axial flow turbine or radial flow turbine types.

DRC mixers can be supplied with mechanical shaft seals for assembling with pressurized tanks.

Max Power kw 15 -  
Max length shaft 5 mt

## DVL



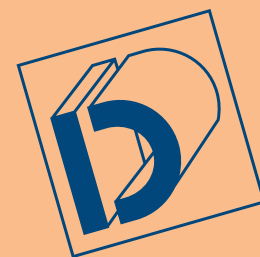
Mixer for side assembling for middle / big sized tanks (100 m3) with internal or external mechanical seals, coupling flanges according to UNI – ANSI regulations.

Available in 6 – 8 poles motor direct coupling version and with speed reducer version as well.

It is also possible to replace the mechanical seal with full tank.

Shaft and propeller are coated in S.S. 304 - 316.

Max Power kw 5,5



# High and slow speed mixers

## Propellers

PROPELLERS: according to different mixers and applications, we have different suitable propellers types



### MARINE PROPELLER TYPE

**CHARACTERISTICS:**

- moderated pumping capacity
- turbulent mixing

**APPLICATIONS:**

- liquid/liquid and liquid/solid blending
- max. tank capacity 10 m<sup>3</sup>
- low viscosity
- suitable for standard applications



### BLADE PROPELLER TYPE

**CHARACTERISTICS:**

- axial flow
- good pumping capacity
- low consumption

**APPLICATIONS:**

- liquid/liquid and liquid/solid blending
- max. tank capacity 200 m<sup>3</sup>
- low / medium viscosity
- many standard applications



### ANCHOR TYPE

**CHARACTERISTICS:**

- low pumping capacity
- low rotational speed

**APPLICATIONS:**

- high viscosity > 50.000 cps
- heat transfer



### FOLDING PROPELLER TYPE

**CHARACTERISTICS:**

- mild pumping capacity
- unfolding during rotation

**APPLICATIONS:**

- liquid/liquid and liquid/solid blending
- max. tank capacity 1 m<sup>3</sup>
- low viscosity
- suitable for vessel with narrow coupling hole



### TURBINE HIGH FLOW TYPE

**CHARACTERISTICS:**

- axial flow
- good pumping capacity
- low consumption

**APPLICATIONS:**

- liquid/liquid and liquid/solid blending
- max. dim. Tank 1000 m<sup>3</sup>
- low /medium viscosity
- many standard applications



### COWLES DISK DISPERSION TYPE

**CHARACTERISTICS:**

- high radial speed
- high liquid/solid dissolution

**APPLICATIONS:**

- high viscosity
- solid / liquid dispersion



Our range of production also includes:

**Spring return SR series:**

- Plunger dosing pumps "A" types
- Hydraulic diaphragm dosing pumps "B", "BR" and "SD" types
- Mechanical diaphragm dosing pumps "D" types
- Mechanical diaphragm dosing pumps "FM" types

**Positive displacement PDP series:**

- Positive displacement dosing pump "AI" and "SDI" types
- High pressure positive displacement dosing pump "AP-AI" types

**SDP series:**

- Solenoid dosing pumps "S" type
- Solenoid dosing pumps "GA" type

**H series:**

- Automatic plants for dissolution and preparation of powder polyelectrolytes "HA", "HB" types



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*The right dosing choice*