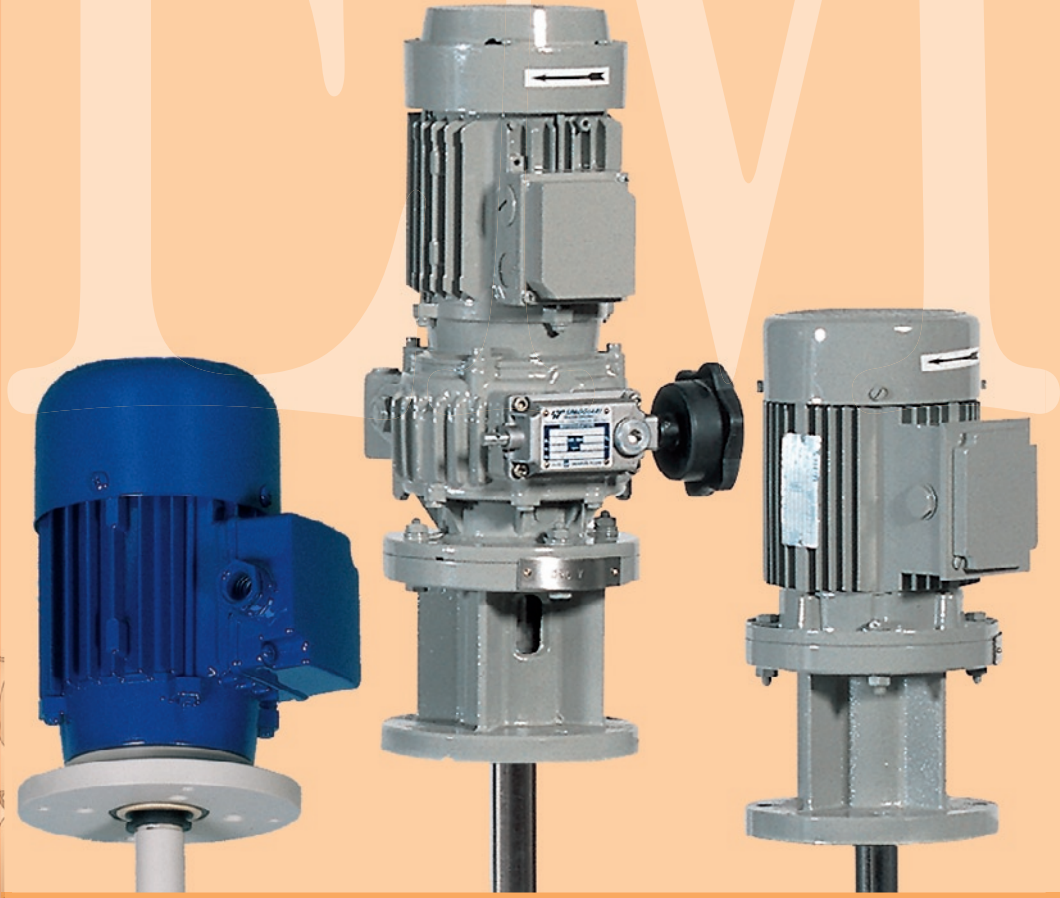
EM Series

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:

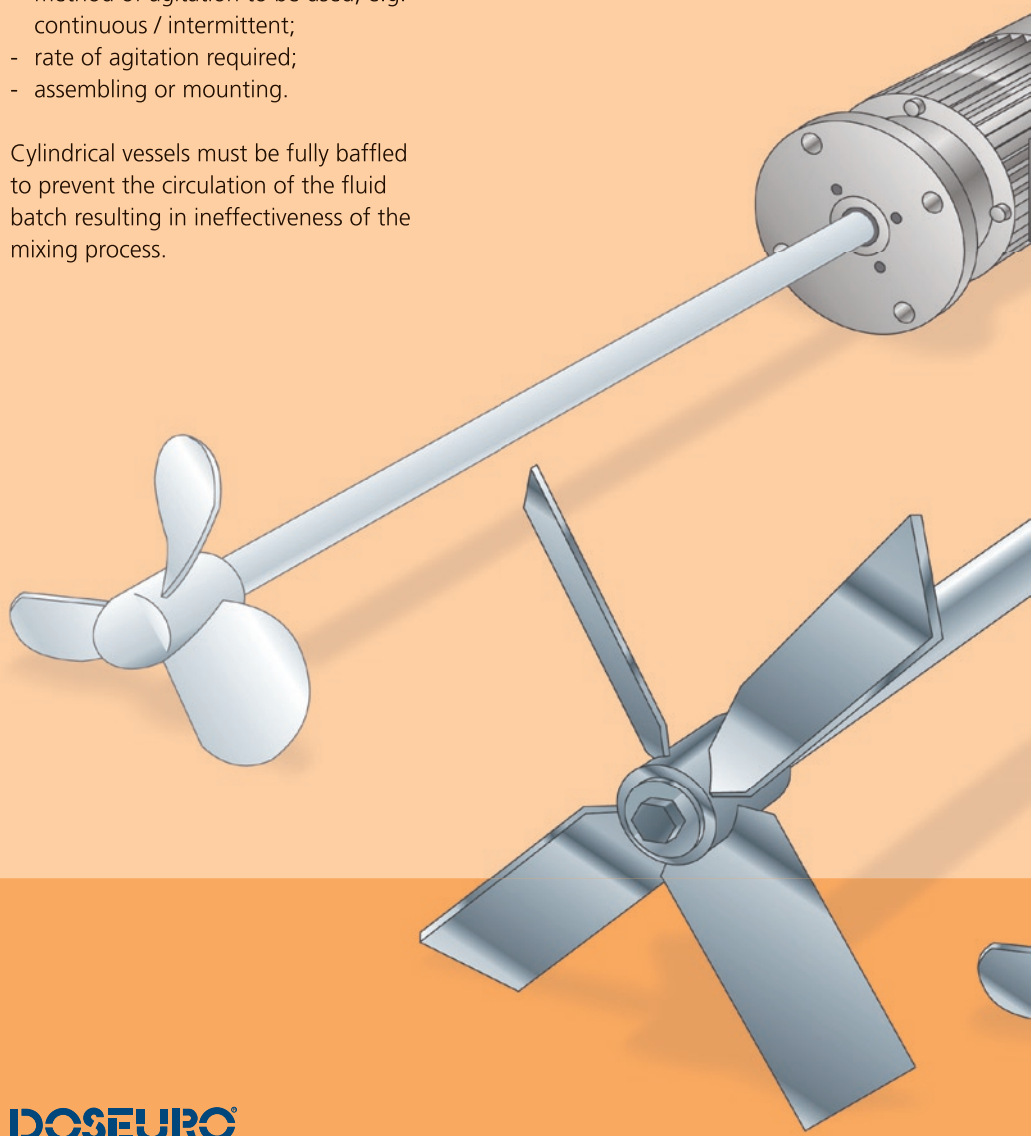
- shape and dimensions of tank where the mixer has to be fitted in;
- volume of liquid to be stirred;
- method of agitation to be used, e.g. continuous / intermittent;
- rate of agitation required;
- assembling or mounting.

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:

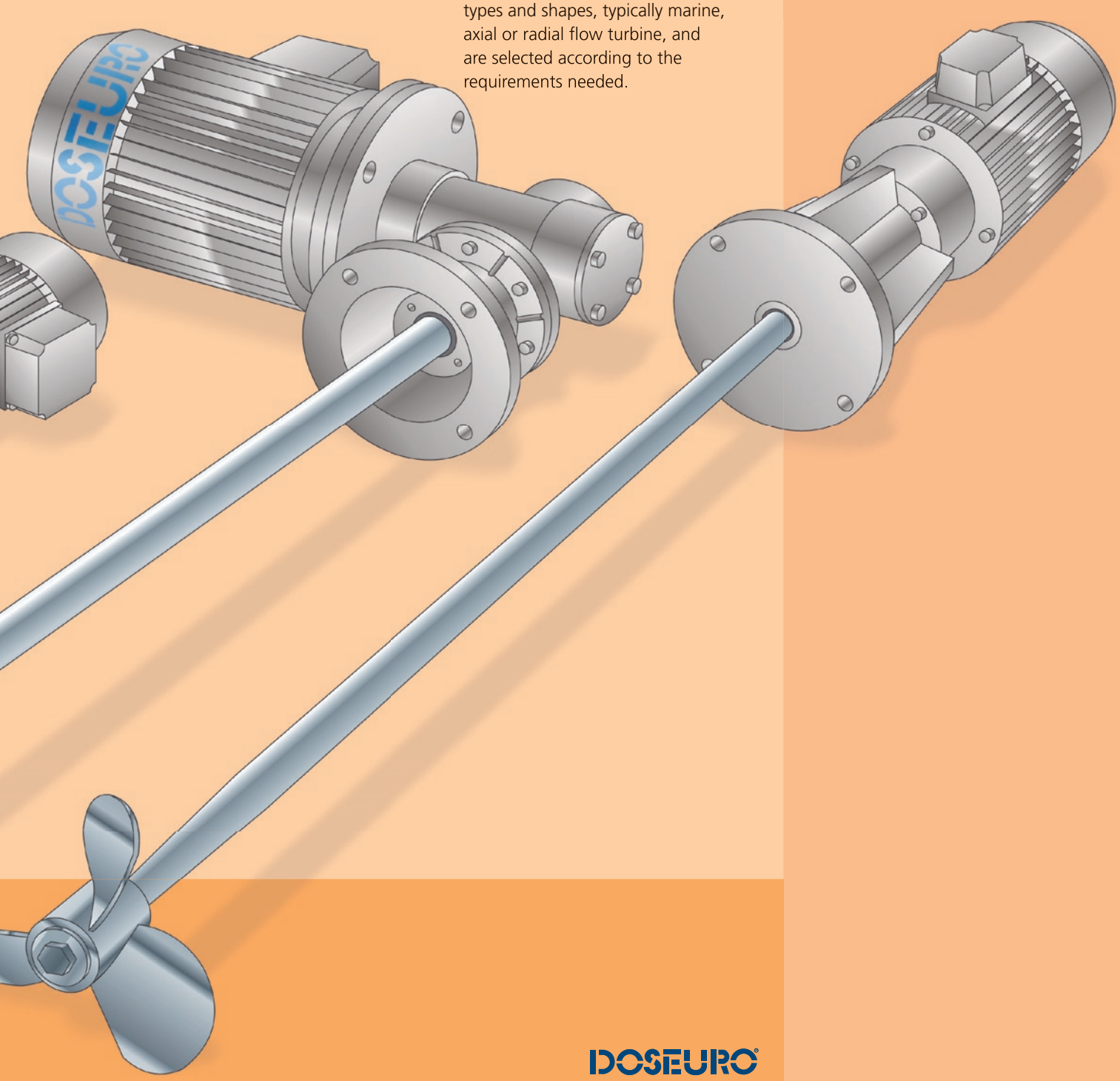
- Electrical motors: available in both TEFC or ATEX. Conforming to international standards, they are available with several voltages, frequencies and insulation options.
- Gearboxes: they are selected for their strength and reliability. They are oil or grease lubricated, endless worm and wheel type reducers.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



DOSEURO

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.



DOSEURO

EM Series

DAM

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.

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.

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.

DOSEURO®

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)

DOSEURO

EM Series

DRC

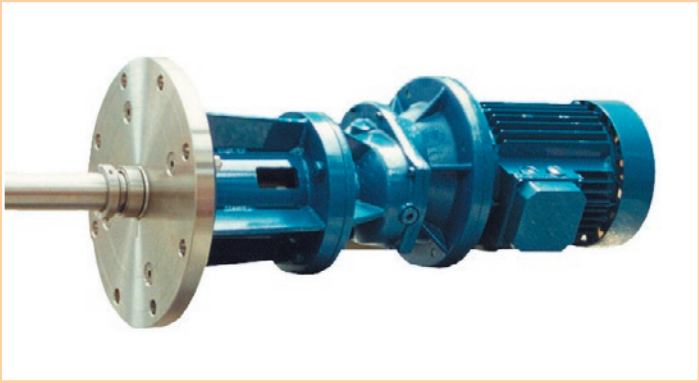
Slow speed mixers with coaxial gearboxes. The speed reducer is of the screw rack type with cylindrical gears, and is coupled to the shaft via a rigid coupling.

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^3
- 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^3
- 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

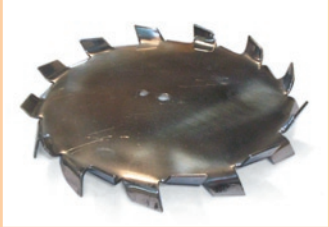
CHARACTERISTICS:
- mild pumping capacity
- unfolding during rotation

APPLICATIONS:
- liquid/liquid and liquid/solid blending
- max. tank capacity 1 m^3
- 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^3
- low /medium viscosity
- many standard applications



COWLES DISK DISPERSION TYPE

CHARACTERISTICS:
- high radial speed
- high liquid/solid dissolution

APPLICATIONS:
- high viscosity
- solid / liquid dispersion

DOSEURO®

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

ISOQAR QUALITY ASSURED ISO 9001 5942 UKAS QUALITY MANAGEMENT 026

HEAD OFFICE
Via G. Carducci 141
20093 Cologno Monzese (MI) Italy
Tel.: +39 02 27301324
Fax: +39 02 26700883
e-mail: info@doseuro.com
www.doseuro.com

DOSEURO (UK) LTD.
Unit 8, East Road Industrial Estate
Sleaford, Lincolnshire NG34 7EH
Tel.: +44 1529 300045
Fax: +44 1529 410967
e-mail: info@doseuro.co.uk
www.doseuro.co.uk

XNME0AGOG000G0007

DOSEURO®
The right dosing choice