



### General characteristics

-  **Robin**® range results of more than 50 years of expertise in the design and the construction of agitators. Specific by their size, their power or their design, they suit severe conditions.
-  **Robin**® range mixers design is based on process constraints or according to customer specifications.

### Capacities

- From 0.001 to 100 000 m<sup>3</sup> approximately

### Operating conditions

- Temperature up to 500°C
- Pressure with vacuum at 300 gauge bars
- Viscosity up to 1000 Pas

### Sealings

- Hydraulic seal
- Packing
- Lip seal
- Single, double even triple mechanical seal lubricated or with gas back pressure, without contact, magnetic drive

### Construction materials

- Carbon or stainless steel, titanium...
- Coating : rubber, ebonite, PFE, EP, PVDF.
- Any usable material except glass lined.  
(please consult us for any other material)
- All Robin mixers can be according to ATEX certification.

### Electric characteristics

- All types of motors (electric, pneumatic, hydraulic)
- Variable speed drive (electronic or belt)
- Up to 1000 kW

### Drive and coupling

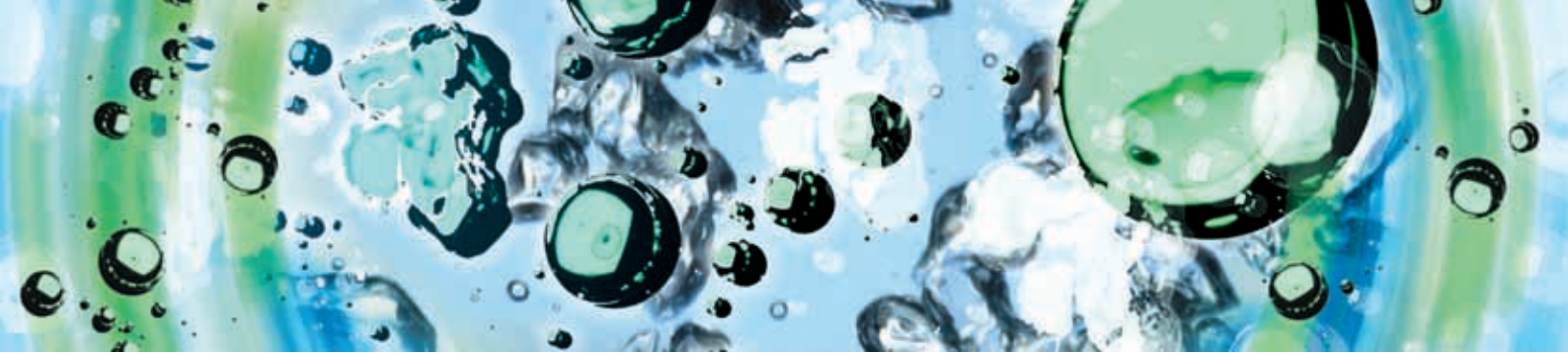
- Direct with the engine with an elastic coupling, belts, hydraulic coupling
- All types of reducers: planetary gears, with helicoidal screw, parallel or perpendicular shafts

### Mounting

- 1, 2, even 3 different agitators by tank
- Entries at the bottom, the top or the side of the tank
- Right or tilted position

### Applications

- Phosphoric Acid (fertilizers), Hydrometallurgy (Zn, Au, Co, Al<sub>2</sub>O<sub>3</sub>, Cu, Mn, Ni...),
- Polymerization (PVC, PP, PS, ABS, PU...)
- Fermentation (sugar derivatives, amino acids, antibiotic, polypeptides...)
- Fine Chemicals (synthesis of active substances)
- Reaction of hydrogenation, ozonization, oxidation, sulfonation
- Polymers (synthesis and mixture of phases with complex rheology)



## **Robin® Range**

Agitation calls upon competences in the field of mechanics, hydraulics and chemical engineering. It is the control of these 3 disciplines which allows Milton Roy Mixing to offer a solution of agitation tuned to the customer requirement, according to his priorities :

- Capital cost
- Cost of operation
- Performance

## **Agitation Impellers...**

The  **Robin®** agitators, can receive, in addition to traditional propellers, patented propellers HPM, Sabre®, anchors, ribbon, self-suction turbine and any propeller designed by the customer.

## **Because agitation can make your process progress ...**

The role of agitation in the manufacture of a product can be simple (suspension, homogenisation), it can also be the heart of your process (reaction, thermal transfer...). Whatever is the degree of importance of agitation, no mediocrity, no failure is accepted as well on the level of the effectiveness as on reliability. It is frequent that a solution of well designed agitation can make the productivity progress from 10 to 50% !

This is why,  **Robin®** mixers are designed in close cooperation with the user.

## **A laboratory at your service...**

MILTON ROY MIXING Laboratory has several targets :

- Studies intended to improve propellers efficiency (shape, flowrate...)
- Studies of basic chemical process placed in particular conditions (crystallization, solid suspension ...)
- To confirm a mixing solution for a new project
- To assist the customer in his process improvement

To achieve these goals MILTON ROY MIXING has several transparent vessels (up to 5000L) and hydraulic related softwares.



**MILTON ROY  
Mixing**

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