



# PRODUCT RANGE





## AGITATORS AND MACHINE WORK AS STRONG PILLARS



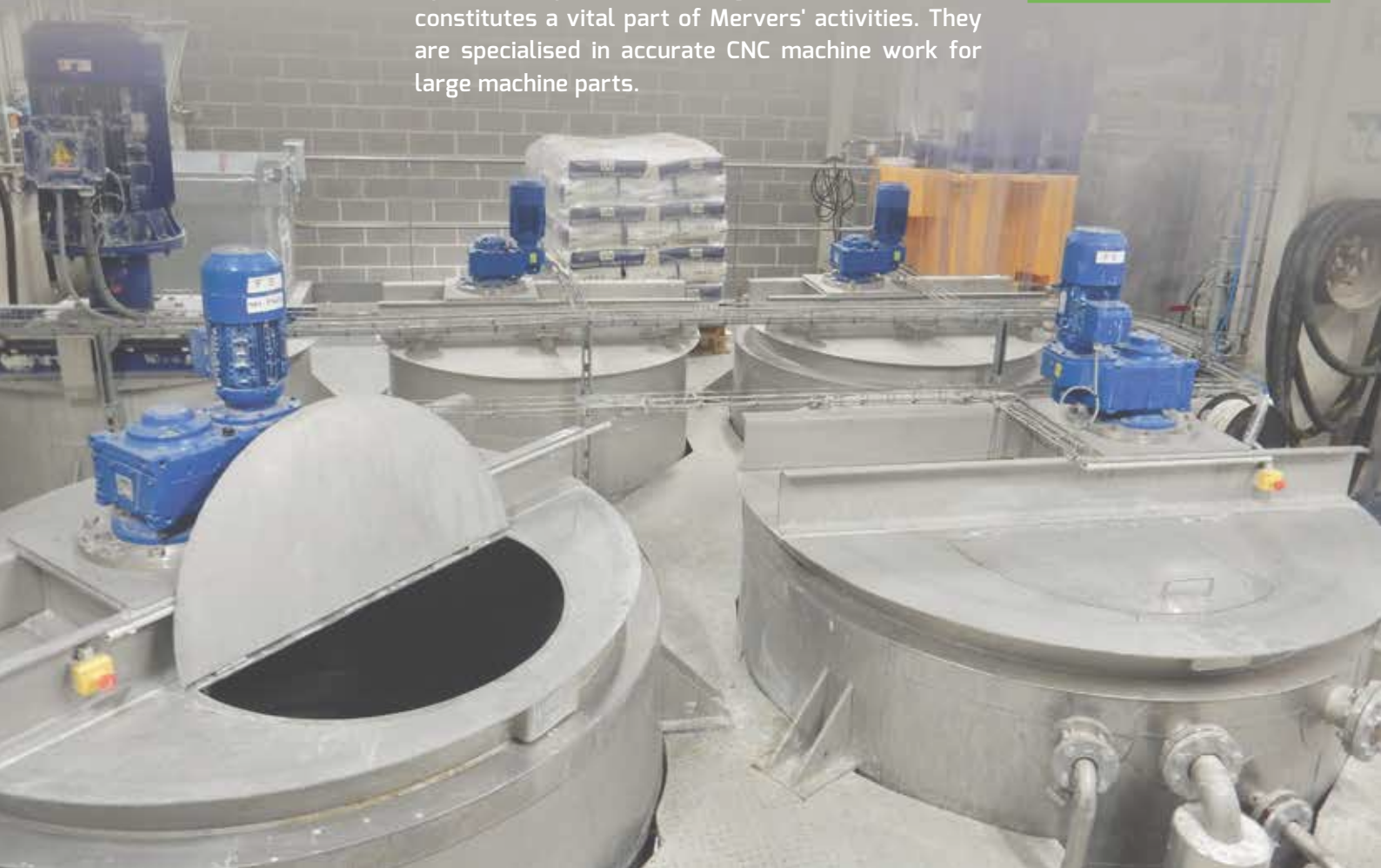
More than 70 years ago Mervers was founded as an assembly workshop for repair work in shipbuilding. In the early seventies industrial blending systems for the Belgian market were developed. Nowadays Mervers applies this know-how to create blending systems to serve the market in various countries.

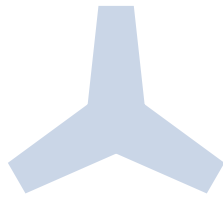
Recently Mervers moved its facilities to Zwijndrecht (Antwerp). A brand new workshop was inaugurated.

In the course of time Mervers designed a standard series of top- and side-entry mixers. With its own developments Mervers also concentrates on custom made solutions.

Applications are to be found in the chemical industry, pharmaceuticals, sugar, refining, paint factories and all other sectors in which blendable raw materials are processed.

Apart from specialisation in agitators, machine work constitutes a vital part of Mervers' activities. They are specialised in accurate CNC machine work for large machine parts.



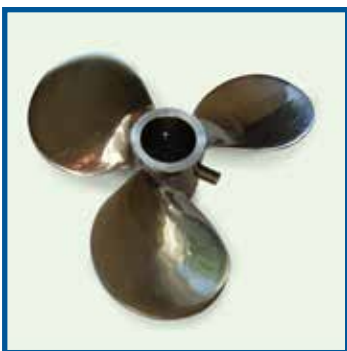


# IMPELLER TECHNOLOGY

Mervers' collaboration in research and development has produced a unique and modern collection of impellers.

The optimum selection of this impeller, the accompanying rotational speed and shaft lengths are the basis of a successful, profitable and most economical proposition for the specific processes.

As a function of Reynolds number and the characteristics of your applications, our engineers select the ideal impeller.







## WZH MIXERS

For small mixing applications Mervers designed its WZH range. Wetted parts are directly mounted on the output shaft of the motor, every mixer have been tested before shipment. Simple design means a maintenance free mixer, ideal for open tank vessels up to 1000 l.

WZH range has many applications such as mixing and dissolving of chemicals, preparation tanks of paint and glue, most of the applications in waste water treatment.

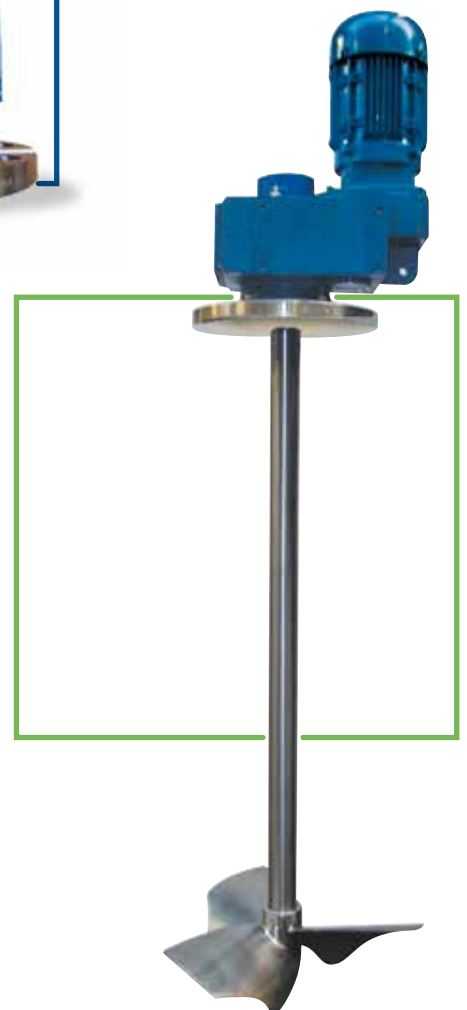
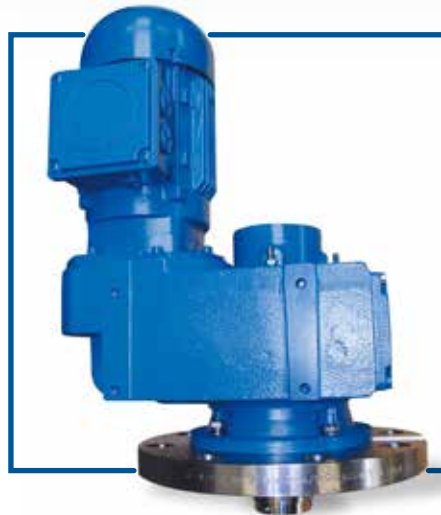
- **Motor:** standard IEC motors, IP55, class F, or your own specification power from 0.18 KW up to 4 KW.
- **Speed:** 750 rpm, 1000 rpm, 1500 rpm.
- **Wetted parts:** standard stainless steel 316.
- **Impeller:** Mervers high efficiency axial flow KD impeller, also folding impeller for IBC-containers.
- **Open tank:** mounting by means of the motor-flange holes also clamp or base plate mounted.
- **Options:** lip-seal or single mechanical seal.
- **WZHL mixer range** with extra bearing.



## MTE MIXERS

Mervers has been supplying mixers to the process industry for over 40 years. Mervers' process team of experienced engineers are able to focus on the special needs of the industry.

The MTE top entry mixer has been specifically developed for common applications in industry. Easy to install and with low maintenance costs.



- **Power:** 0,25 KW up to 30 KW.
- **Speed:** standard per type, between 20 and 400 rpm.
- **Gearbox:** european standard, with TEFC motor, service factor minimum 1,5, oil lubricated.
- **Wetted parts:** standard AISI 316, also possible carbon steel, AISI 304, UB 6, Hastelloy, Duplex, ...
- **Impeller:** standard high efficiency KD-impeller, other options available.
- **Shaft:** solid metric shaft for strength and ease of handling.
- **Sealing:** Single and double mechanical seal, stuffing box, twin lipseal, labyrinth, V-ring.



## TE MIXERS

TE mixers are designed for high sized power and torque requirements. Possibility to comply with all applicable DIN standards.

Drive connection can be by flexible coupling and with an additional shaft bearing.

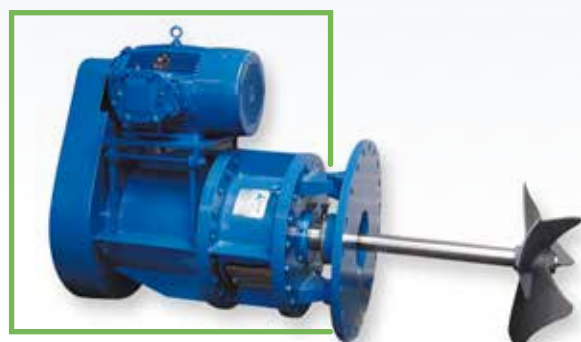
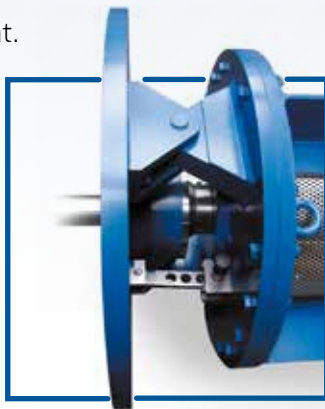
Different models: open tank, lipseal, stuffing box, mechanical cartridge seals, cartridge lipseals. Faster replacement of the seal with spoolpiece, dismountable coupling, cartridge seal and optional lifting device is possible.

Gearbox is European standard, with a TEFC motor, service factor is minimum 1.5, oil lubricated.



# SE MIXERS

Mervers has a standard series of appliances for storage of oils and chemical products. They also have many applications in wastewater treatment.

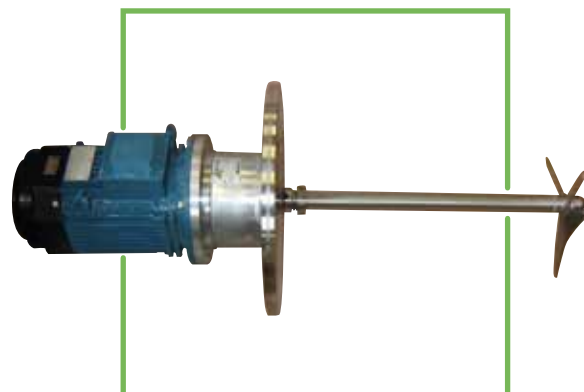
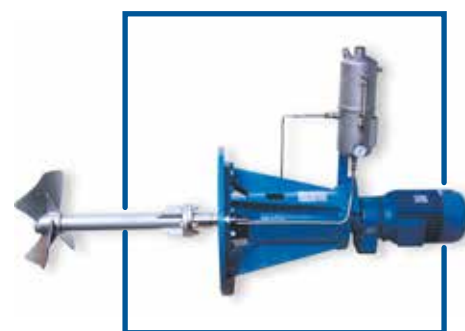


## SE-RANGE

- **Power:** 1,1 KW up to 30 KW.
- **Speed:** Standard per type, between 250 and 300 rpm.
- **Gearbox:** European standard, with TEFC motor, service factor minimum 1,5, oil lubricated.
- **Wetted parts:** Carbon steel, stainless steel 304, 316 option UB 6 en Hastelloy.
- **Impeller:** Standard high efficiency AXF-GD impeller.
- **Sealing:** Single and double mechanical seal, stuffing box.
- **Options:** Shut-off device, swivel angle module

## MSH-RANGE

- Direct driven 1000 and 1500 rpm.
- **Power:** 0,37 tot 15 KW.
- Alu lantern.







## DISPERSERS

Mervers has a standard series for dispersing and emulsifying products, like varnishes, paints, inks, starch solutions, chalk, latex,...

The selection of the right blending machine is based on a rich experience in these applications. If necessary, lab tests or full-scale tests are carried out. From a large spectrum of turbines a selection is made in view of the best process result.



### The machines:

- Direct powering:
  - Revolutions per minute:
    - 750 rpm
    - 1000 rpm
    - 1500 rpm
    - 3000 rpm
- Capacities up to 75 KW.
- Sawtooth discs with or without flowholes.
- Materials:
  - Stainless steel
  - Polished stainless steel
  - Carbon steel
  - Ub6, hastelloy...
- Optional:
  - Hardning of the sawtooth
  - disc for high abrasive products





# ROTOR-STATOR MIXERS

Blending, mixing, homogenising, dispersing, emulsifying of various products.



## Applications:

Creams, lotions, suntan lotions, toothpastes, body-care, soaps, penicillin, paraffin wax, sauces, soups, mayonnaises, fluid spices.

Compact, mobile, versatile and fast operable blending machines.

## Operations:

- open tank
- pneumatic stand
- bottom entry

Witnessed performance tests in our lab to evaluate quality of the emulsion.



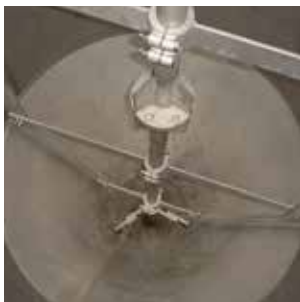
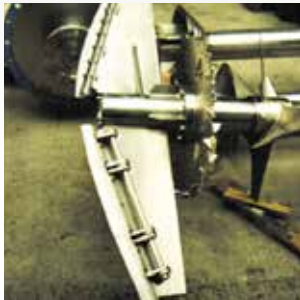
# ANCHORS AND TAILOR-MADE MIXERS

The experience of Mervers in building special tailor-made blending machines has been optimized over the years. The gained know how enable Mervers to offer a solution to any blending problem.

Expanding this experience in the field of these special blenders is a strategic mission for the Mervers team.

The large production facilities enables a short delivery of the anchors, double flux stirrers, stern stirrers, scrapers and combined mixing machines (shear/flow/scrapper/anchor).

You can run no risk in the heart of your production. Our experience in these machines and processes, essential for production, are at your disposal.



# MIXER STANDS

In order to be able to mix at various locations and in various tanks, our engineers developed a practical and user-friendly mixer stand.

- Complete standard construction in stainless steel and in full compliance with EC machinery directives.
- The following executions are available:
  - floor mount
  - wall mount
  - mobile
- Stand is lifted either by hand (winch), or pneumatically.
- Lift up to 2000 mm.
- Standard, yet somewhat adaptable on request. Consult our sales engineers.
- Stands for IBC-containers.
- Mobility and flexibility are the strong features of our mixer stands.







## **MERVERS BENELUX N.V.**

Westpoort 60 - 2070 Zwijndrecht - Belgium

Tel.: +32 (0)3 233 96 49 - Fax: +32 (0)3 232 95 01

[www.mervers.be](http://www.mervers.be)

