

SOFRADEN

A subsidiary of **VINCI**
ENERGIES 

SOFRAMIX
HIGH SHEAR
DISPERSER



www.sofraden.com



SOLUTION FOCUSED ON 4 KEY POINTS

- **Performance:** high dispersion quality with a very short mixing time. Able to make various products (emulsions, dispersions, gels...) with different rheologies
- **Flexibility:** broad operating range for each nominal size of machine. Designed to make dispersion tools easy to swap over
- **Scalability:** many options to customize your mixer, to comply with your needs and with the product characteristics
- **Cleanability:** "easy-to-clean" design, combined with our very efficient CIP system, ensures you an excellent quality of cleaning

GENERAL OVERVIEW SOFRAMIX 250 PREMIUM

We developed our machines with **efficiency** and **productivity** of our customers' production processes in mind. We chose the most appropriate technologies and the most efficient features to cover anything from basic applications to the most complex ones.

Standard shape for the whole range: vertical vessel, with central & coaxial tool shafts, conical bottom.

Various types of tools: anchor with wall scrapers, impeller, special high shear dispersion tools - sawtooth disc turbine or rotor/stator - allowing to make emulsion droplets up to 5µm.

To meet your expectations, we have developed **2 different configurations of machines**, combining different layouts and types of tools: SOFRAMIX **PREMIUM** and SOFRAMIX **BASIC**.

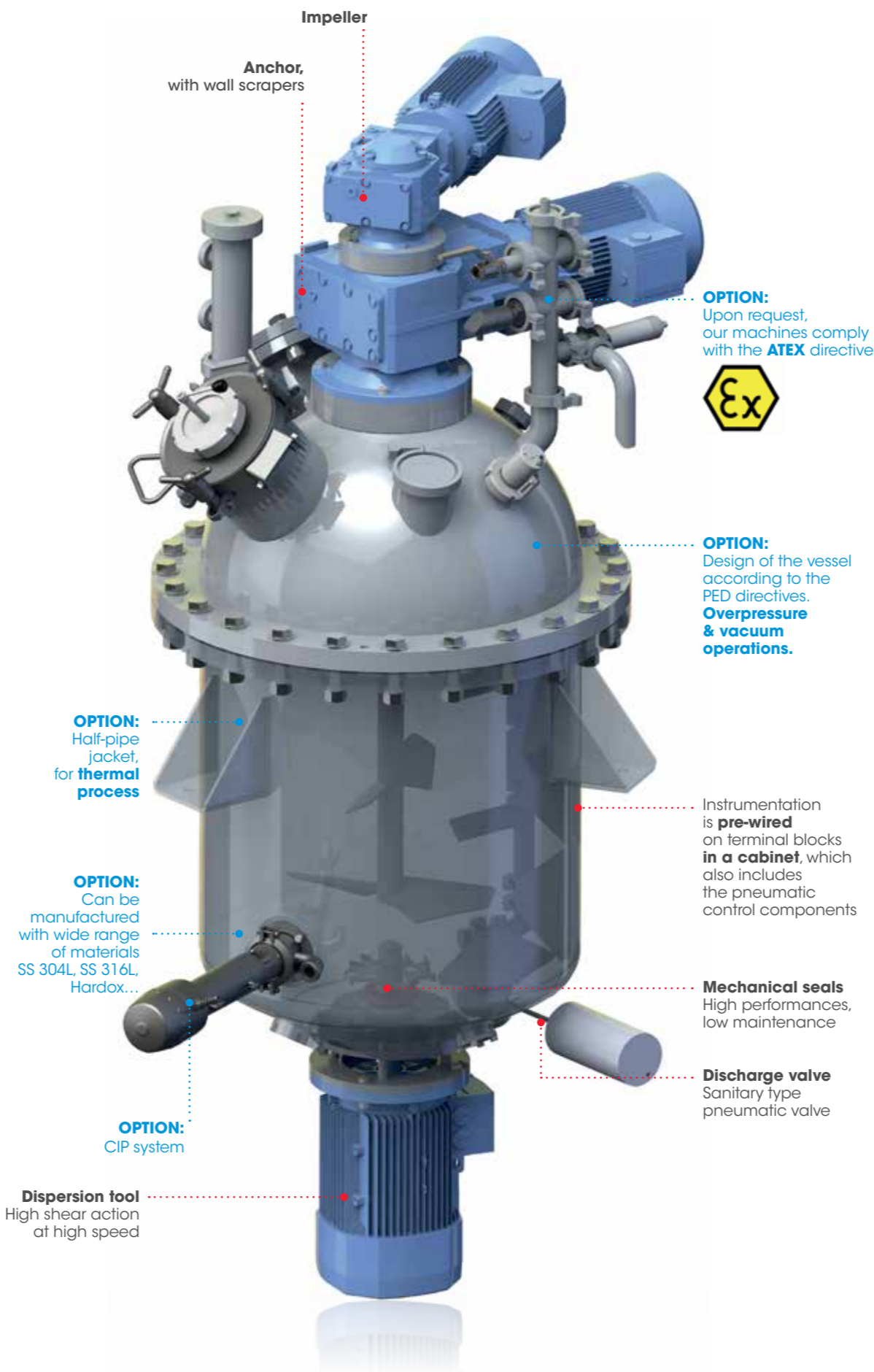
Among our range of machines, you will find the disperser which complies with your requirements, in terms of performance, flexibility, and CAPEX/OPEX ratio.

APPLICATIONS

All types of industries involving **pasty products** such as: dispersions, emulsions, gels, semi-pasty or pasty products...

ACTIVITY

Chemistry, materials for building construction, cosmetics, paints...



TYPE	Max. useful volume	Min. useful volume ('Premium' with R/S)	Ø vessel (mm)	Length of vessel (mm)
SOFRAMIX 250	250 ltr	40 ltr	700	700
SOFRAMIX 500	500 ltr	60 ltr	950	750
SOFRAMIX 750	750 ltr	60 ltr	1200	750
SOFRAMIX 1000	1000 ltr	70 ltr	1200	900
SOFRAMIX 1500	1500 ltr	70 ltr	1200	1400
SOFRAMIX 2000	2000 ltr	80 ltr	1400	1300
SOFRAMIX 3000	3000 ltr	100 ltr	1600	1500
SOFRAMIX 5000	5000 ltr	100 ltr	1800	2000
Other size on request...				

SOFRAMIX PREMIUM



The most flexible and efficient solution, with the dispersion tool located at the bottom

- Central, coaxial and pendular anchor and impeller on the top. Dispersion tool on the bottom
- Possibility of using a 'rotor/stator' dispersion tool
- Suitable for products with viscosity **up to 1'000'000cP**, or over with special features
- Dispersion tool designed to be easily swapped, with another type

SOFRAMIX BASIC



Economical alternative solution

- Central, coaxial and pendular anchor and dispersion tool on the top
- Suitable for products with viscosity of **50cP up to 130'000cP**
- Cost-effective solution

OPTIONS OVERVIEW

CIP system

- High efficiency cleaning of the mixer
- Fully automated solution: reproducible results, steady quality of your product, no human risks factors
- Low consumption of cleaning liquid

Our solution combines smooth inner surfaces, with low surface roughness, the use of various types of cleaning nozzles, up to the supply of the complete skid with the pump, buffer tank...



Pressure/Vacuum solutions

- Unloading assistance for high viscosity products
- Introduction of the materials from the bottom of the vessel, with vacuum assistance
- Deaeration process of the product

Our solution combines design in accordance with the PED directive, the required components for the pressurization of the vessel, and/or the required components for the vacuum draw of the vessel...



Thermal process solutions

- Half-pipe jacket
- Possibility of heating or cooling the batch, by the use of a heat-transfer fluid (water, oil...)

Our solution combines the design of the half-pipe coil jacketed vessel, up to the complete skid to produce the utilities (chilled water, temperature controller with heat exchangers...)



Other option

- Customization on request



TEST

OUR TEST CENTER IS PROVIDED WITH:

A **SOFRAMIX 250 'Premium'**, provided with CIP system and pressure/vacuum design.

This machine is at your disposal to run tests and validate your processes.

REFERENCES

Michelin, Le Creuset, Saint-Gobain Weber...



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