

SSEC



MIXING AND BLENDING SYSTEMS MAKING THE RIGHT CHOICE



SS Engineers & Consultants
E-Mail: ssengr.1@gmail.com



STORAGE TANKS

TUB WASHERS

CAN WASHERS

CONVEYORS

MIXING AND BLENDING SYSTEMS - MAKING THE RIGHT CHOICE

SS Engineers has been engineering and building mixing and blending systems for the liquid foods and dairy industries for over two decades. During that time the company has become the recognised leader in its field and continues to set the pace for new technologies into the 21st century.

Mixing and blending equipment can be complicated and therefore the need to draw on the wealth of experience and engineering resource at *SS Engineers* should be the first step in any system design.

Products

Typical products currently being processed using *SS Engineers* systems include

- ▲ Jelly
- ▲ Chocolate
- ▲ Cream
- ▲ Yoghurt
- ▲ Desserts
- ▲ Sauces
- ▲ Flavourings
- ▲ Food oils
- ▲ Ice cream
- ▲ Glucose

All these products need different systems dependent on duty and product Consistency. This is where the process engineering knowledge of *SS Engineers* comes into its own.

Agitation

Agitation is one of the keys to achieving the required product and a number of agitator types are available

- ▲ Turbine
- ▲ Propeller
- ▲ Shear
- ▲ Gate
- ▲ Scraped surface

In addition to those individual offerings, *SS Engineers* provides a combination of the above, which can be engineered into the standard vessel by the in-house team of skilled fabricators at the modern facility in India.

Heat treatment

For in-vessel heat treatment, a range of jackets is available, with either steam/hot water for heating products, or chilled/cold water for cooling. *SS Engineers* has specially engineered its systems to allow the same jacket to be used for clients dealing with both heating and cooling. Alternatively, heat treatment can be achieved externally (e.g. via plate heat exchanger) or by a combination of internal heating and cooling.



Materials

SS Engineers has an in-depth knowledge of varying grades of stainless steel and these are selected to offer maximum corrosion resistance and compliance with Stringent hygiene regulations, resulting in a cost effective solution for the client.

Systems

A mixing and blending system can be as simple as a vessel with agitation through to a fully skid mounted PLC controlled system with heating, cooling, homogenisation and powder incorporation among the possible features that can be included

The majority of systems built by **SS Engineers** are PLC controlled

ARE PRODUCT LOSSES IMPORTANT TO YOU?

SS Engineers has been awarded a major contract for mixing and blending dairy based desserts, following the success of a proven design in an existing plant. These losses are typically as low as 1.25% (50kg on a 4000kg batch).

Whether your requirements are for a small, simple system or a larger scale project, **SS Engineers** can design, engineer and build to meet both your technical and budgetary needs

SS Engineers is a leading provider of quality capital equipment and turnkey to the hygienic liquid process industries and supplies a large number of household names.

In addition to Mixing and Blending systems **SS Engineers** offers a range of equipment and service in the following fields:

- ▲ Intake and storage
- ▲ Heat Treatment / Pasteurisation
- ▲ Separation and Homogenisation
- ▲ Process Vessels / Storage Tanks
- ▲ Cleaning In Place

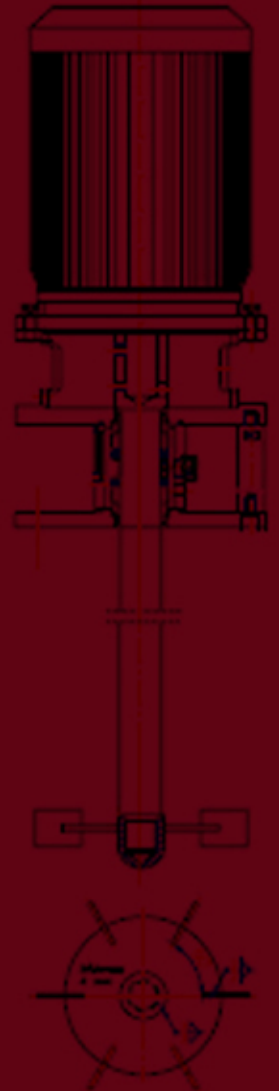
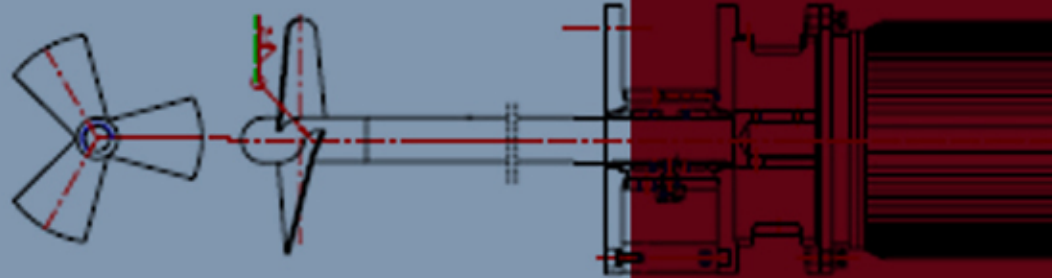
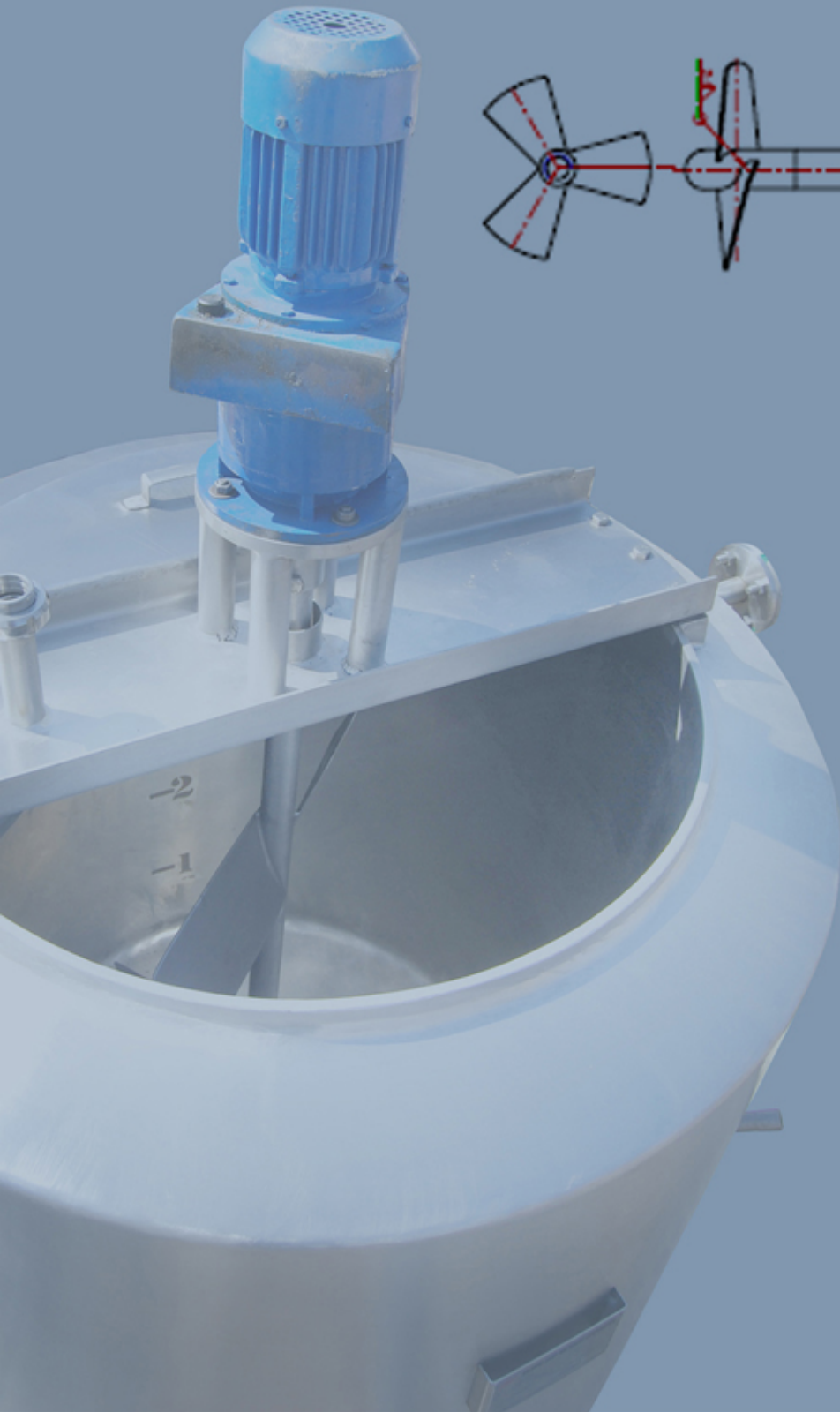
A full range of support services are available to complement all of our process systems including:

- ▲ Process Design
- ▲ Project Management
- ▲ Construction Design and Management
- ▲ Hygienic Fabrication
- ▲ After Sales Service

SS Engineers offers a complete design and manufacture service from its Rajahmundry base in India, which incorporates a fully equipped design office and a 2000 square metre fabrication shop with additional assembly/testing and polished workshops.



From complete systems to individual pieces of equipment and from components to service at **SS Engineers** our engineers and support staff will work you to ensure your plant achieves the quality of product and efficiency you require.



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D.No. 11-49/2, Pidimgoyya Panchayat, Morumpudi Junction,
Rajahmundry.(Andhra Pradesh) India.

Phone : 91 883-2464990,3256663,4,7,8, 2426845,6,7

E-Mail : ssengr.1@gmail.com

Website : ssdairyequipment.com