

PRODUCT CATALOGUE

Precision-built equipment for industrial processes.

OUR PRODUCT RANGE

A

AGITATORS

R

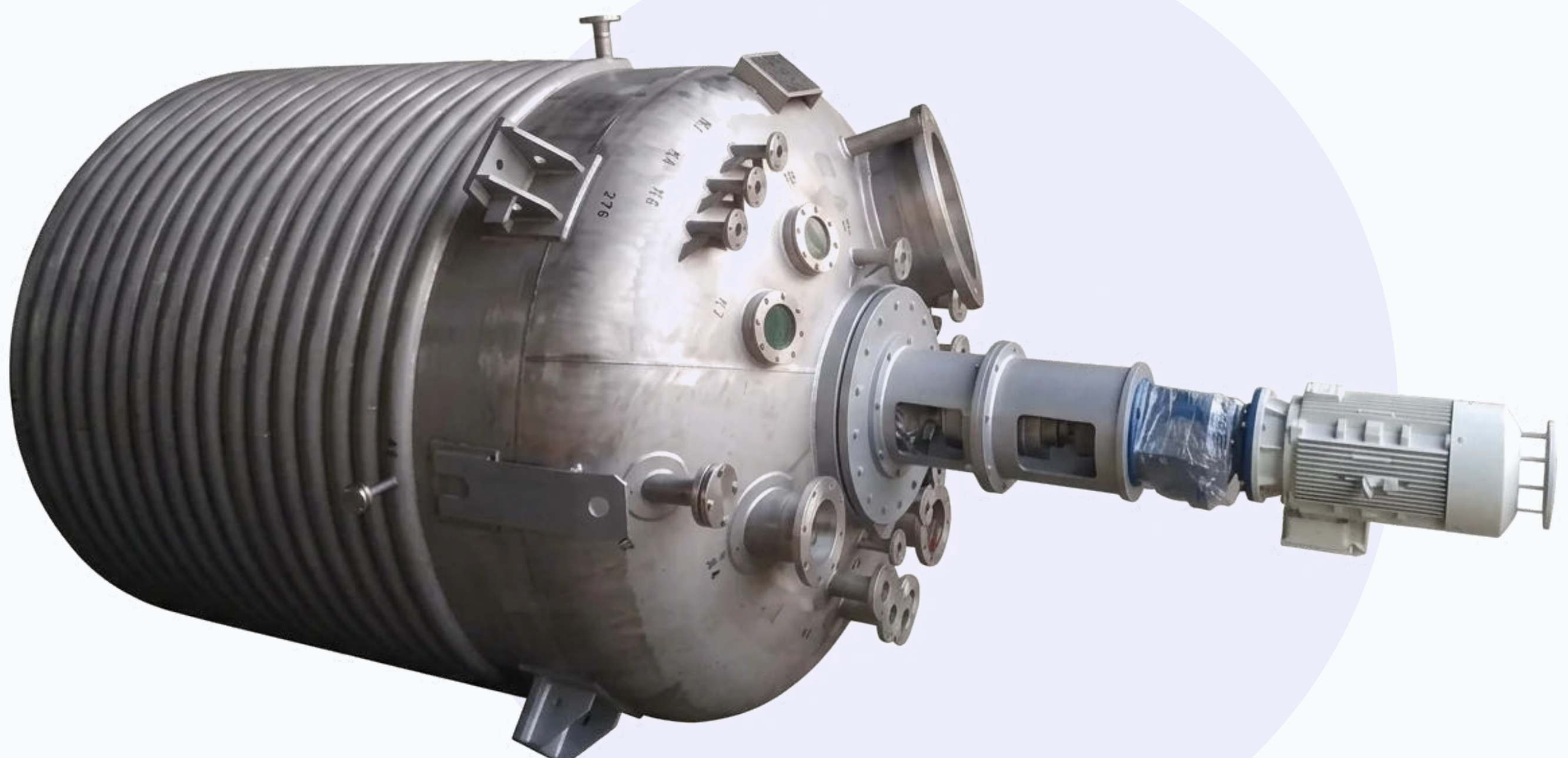
REACTOR VESSELS

P

PROCESS TANKS

C

CUSTOM EQUIPMENT



ENGINEERED FOR YOUR PROCESS

Equipment configured around application, materials, operating conditions and project requirements.

ABOUT / SV INDUSTRIES

BUILT AROUND YOUR PROCESS.

**Industrial agitators, reactor vessels,
process tanks and custom fabrication.**

SV Industries is an Indian manufacturer of industrial mixing and process equipment. We develop application-specific solutions around process requirements, vessel geometry and operating conditions.

WHAT WE MANUFACTURE

- 01 **Industrial Agitators & Stirrers**
- 02 **Mixing Impellers**
- 03 **Reactor Vessels**
- 04 **Process Tanks**
- 05 **Custom Process Equipment**



FABRICATION & ASSEMBLY

MANUFACTURING CAPABILITIES

- CNC machining and fabrication
- TIG welding and metalwork
- Polishing and finishing operations
- Quality-testing area
- Engineering and production supervision
- Small and bulk order capability

INDUSTRIES SERVED

- Chemical processing
- Pharmaceutical manufacturing
- Food and beverage
- Paints and coatings
- Water and effluent treatment
- Cosmetics and personal care
- Dairy and FMCG

"Every solution we build reflects our commitment to quality and continuous improvement."

03 / MIXING EQUIPMENT

Industrial Agitators & Stirrers

PRECISION MIXING FOR EVERY PROCESS

SV Industries designs application-specific mixing systems for blending, suspension, dispersing, circulation and heat-transfer duties. Our agitators are configured around the process fluid, tank geometry, operating conditions and required mixing performance.

KEY FEATURES & SPECIFICATIONS

- 01

Mounting configurations

Top entry / Side entry / Bottom entry
- 02

Impeller options

Hydrofoil, Anchor, Pitched Blade, Rushton & custom
- 03

Construction materials

SS 304 / SS 316L and duty-specific alternatives
- 04

Drive & speed control

Direct / geared drive; optional VFD integration
- 05

Shaft sealing

Mechanical seals selected for pressure and service
- 06

Hygienic process options

Finishes and CIP / SIP provisions on request
- 07

Fluid viscosity

Indicative viscosity range: 1–100,000+ cP*

**Range varies with rheology, impeller, speed and operating duty; confirm case by case.*

TYPICAL APPLICATIONS

- 01

CHEMICAL

Mixing & reaction
- 02

PHARMA

API processing
- 03

FOOD & DAIRY

Liquid blending
- 04

COATINGS

Paint dispersion
- 05

PERSONAL CARE

Cosmetics & formulations
- 06

UTILITIES

Water & effluent

ACTUAL EQUIPMENT CONFIGURATIONS



Tailor-made configurations as per vessel geometry, fluid properties and mixing objectives.

You specify the mixing goal — we build the right motion.

Impeller Families

Geometry-led solutions for different process duties.

01



HYDROFOIL IMPELLER

AXIAL-FLOW / CIRCULATION

High-pumping, low-shear designs for circulation-led mixing duties.

- Axial pumping for liquid blending and circulation
- Low-shear options for sensitive process materials
- Efficient bulk flow in suitable low-viscosity duties
- Blade profile and baffles govern power and vortex
- Dimensions tailored to vessel and process needs
- SS 304 / 316L; special alloys on request

APPLICATIONS CHEMICAL BLENDING · PHARMA LIQUIDS · WATER TREATMENT · FOOD / BEVERAGE · PAINTS / DYES

02



ANCHOR IMPELLER

CLOSE-CLEARANCE / VISCOUS MIXING

Wall-sweeping agitation for viscous, batch and jacketed-vessel duties.

- Close-clearance, vessel-wall sweeping action
- Assists wall renewal in jacketed vessels
- Adapted for viscous batch processing
- Low-shear configurations for selected products
- Optional PTFE / wall scraper arrangements
- Diameter, clearance and blade form customized

APPLICATIONS COSMETICS & CREAMS · FOOD PASTES · PHARMA SYRUPS · PAINTS / INKS · SLURRIES

03



PITCHED BLADE TURBINE

AXIAL + RADIAL / PROCESS MIXING

Versatile pitched blades for liquid circulation and suitable suspensions.

- Axial flow with a radial flow component
- Up- or down-pumping by blade configuration
- Useful for appropriate solid-liquid duties
- Gas-liquid service depends on operating conditions
- 2 / 3 / 4 / 6 blade and pitch variants by design
- VFD / drive selection as part of mixing system

APPLICATIONS CHEMICAL REACTIONS · SUSPENSIONS · PHARMA · BIOTECH · EFFLUENT / BEVERAGE

Selection is duty-dependent: final sizing, speed, power and materials follow confirmed process data.

Impeller Families

Purpose-matched blade geometry for different mixing duties.

04



RUSHTON TURBINE

RADIAL-FLOW / GAS DISPERSION

Radial disc turbine for contacting, gas dispersion and selected reaction duties.

- Disc-mounted straight blades give radial discharge
- Commonly used in baffled gas-liquid mixing duties
- Supports bubble breakup and gas-liquid contacting
- Gas handling depends on sparging and agitation
- Power input set by geometry and operating duty
- SS 304 / 316L; blade variants by specification

APPLICATIONS GAS-LIQUID REACTIONS · FERMENTATION · BIOPROCESSING · DISPERSION

05



PADDLE IMPELLER

FLAT BLADES / BULK MIXING

Simple flat blades for bulk liquid mixing and selected low-speed duties.

- Flat-blade, straightforward fabricated construction
- Bulk mixing in selected low-speed applications
- Blade width, count and span may be customized
- Shear and circulation depend on operating speed
- Vessel geometry and baffles affect performance
- SS 304 / 316L; easy-access cleaning design

APPLICATIONS CHEMICAL BLENDING · DETERGENTS / SLURRIES · ADDITIVES · PAINTS / FOOD

06



CONCAVE DISC IMPELLER

CURVED BLADES / GAS-LIQUID MIXING

Concave-blade turbine for gas-liquid dispersion and process contacting.

- Curved or hollow blades arranged around a disc
- Selected for suitable gas-liquid contacting duties
- Gas dispersion depends on gas rate and speed
- Flow behaviour depends on baffling and blade form
- Suspension capability is checked for each duty
- SS 304 / 316L; special alloys on request

APPLICATIONS FINE CHEMICALS · GAS DISPERSION · EFFLUENT DUTIES · PIGMENTS / EMULSIONS

Selection depends on process duty; power, gas loading, speed and geometry must be verified.

Impeller Families

Three further designs for distinct process-mixing duties.

07



HELICAL RIBBON IMPELLER

HIGH-VISCOSITY / LAMINAR FLOW

Helical ribbon blades circulate viscous material by displacement, making them useful in low-Reynolds-number mixing.

KEY FEATURES

- Axial turnover with close-wall circulation
- Suitable for viscous pastes and sticky products
- Ribbon geometry and clearance tailored to the vessel

APPLICATIONS

Creams · Adhesives · Pastes · Polymers

08



SAWTOOTH / COWLES DISC IMPELLER

HIGH-SHEAR / POWDER DISPERSION

A toothed disc produces concentrated local shear to wet out powders and disperse loose particle agglomerates.

KEY FEATURES

- High tip-speed operation for dispersive duties
- Supports powder incorporation and deagglomeration
- Disc size and speed depend on fluid and batch

APPLICATIONS

Paints · Coatings · Inks · Pigments

09



COUNTER FLOW (CFC) IMPELLER

OPPOSING AXIAL-FLOW / BULK BLENDING

Oppositely inclined inner and outer blade sections create counter-flow circulation in the mixing vessel.

KEY FEATURES

- Opposing axial flow in central and outer regions
- Useful for medium-viscosity and selected slurry duties
- Stage layout, pitch and clearance are duty-dependent

APPLICATIONS

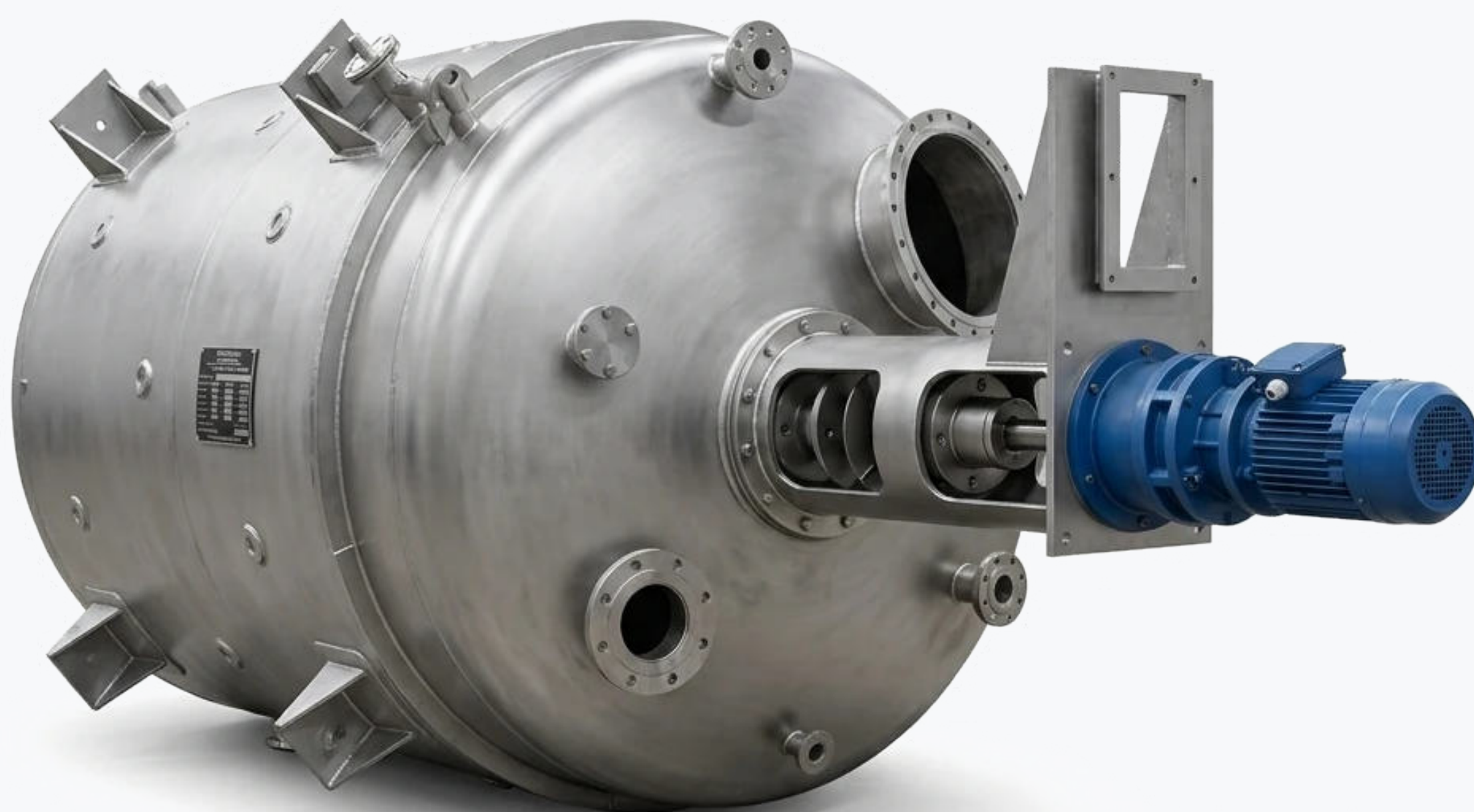
Chemical blending · Slurries · Process liquids

Final selection depends on rheology, vessel geometry, speed, materials and process objective.

07 / PROCESS REACTORS

Reactor Vessels

Design. Durability. Delivery — tailored to the process.



REACTOR VESSEL / REPRESENTATIVE CONFIGURATION

PILOT TO PRODUCTION

50 L – 25,000 L

Indicative capacity range;
project-dependent.



AGITATED PROCESS VESSEL

ENGINEERED CONFIGURATION OPTIONS

PROJECT-SPECIFIC DESIGN

■ **DESIGN CONDITIONS**

Pressure and temperature requirements established for each process duty.

■ **HEATING & COOLING**

Conventional jacket or limpet-coil configurations where specified.

■ **PROCESS OPERATION**

Equipment arranged for batch or continuous applications, as applicable.

■ **AGITATOR INTEGRATION**

Top- or bottom-entry mounting and process-specific internals.

■ **MATERIAL OPTIONS**

SS 304 / SS 316L; Hastelloy and other materials by enquiry.

■ **SURFACE FINISH**

Mirror / matte internal and external finishing options.

■ **FABRICATION & QA**

Material, fabrication, testing and hygiene requirements set by project scope.

■ **PROCESS CONNECTIONS**

Custom nozzle, manway and instrument connections to specification.

PROCESS APPLICATIONS

CHEMICAL REACTIONS & SYNTHESIS · PHARMACEUTICAL API PROCESSING
FOOD / BEVERAGE BATCH COOKING · PERSONAL CARE BLENDING · R&D / PILOT REACTIONS

EXPLORE REACTOR VESSELS →

Final capacity, design code, mechanical adequacy and finishes are subject to approved specifications.

08 / PROCESS REACTORS

Jacketed & Limpet Coil Reactors

Two thermal-control configurations, engineered around process duty.

01



REPRESENTATIVE CONFIGURATION

JACKETED REACTOR VESSEL

CONVENTIONAL / ZONED JACKET

An external jacket provides a heating or cooling passage around selected vessel surfaces.

KEY CONFIGURATION FEATURES

- Steam, hot oil or chilled water by process duty
- Shell / head coverage and zones customized
- Agitator, nozzle and instrumentation integration
- SS 304 / SS 316L; other alloys by enquiry
- Insulation and surface finish as specified

TYPICAL APPLICATIONS

Pharmaceutical formulations · Chemical synthesis · Food processes · Cosmetics · Pilot plants

[VIEW DETAILS ↗](#)

LIMPET COIL REACTOR VESSEL

EXTERNAL HALF-PIPE COIL

Welded external limpet coils form defined thermal-media circuits around specified vessel zones.

KEY CONFIGURATION FEATURES

- Coil pitch, size and coverage selected by duty
- Steam / heating or cooling circuits as designed
- Shell and optional head-zone construction
- Coil pressure rating and testing per specification
- Agitator, nozzles and insulation integration



VISIBLE EXTERNAL COIL

TYPICAL APPLICATIONS

Resins & polymers · Paints & inks · Oil blending · Chemical batches · Process utilities

[VIEW DETAILS ↗](#)

Thermal duty, media pressure, material, coverage and test requirements are finalized per project.

09 / PROCESS EQUIPMENT

Process Tanks

Fabricated for the fluid, the operation and the plant interface.



PROCESS-READY VESSELS

Made-to-order process tanks support blending, batch preparation, intermediate holding and transfer between production steps. Vessel geometry and fitments are tailored to operating needs.

TYPICAL CONFIGURATIONS

- 01 AGITATED BLENDING**
Mixer interfaces for selected liquid-processing duties
- 02 BUFFER & HOLDING**
Intermediate process volume with selected connections
- 03 FEED & TRANSFER**
Make-up, batch feeding and transfer arrangements

ENGINEERING & FABRICATION OPTIONS

- **MATERIAL SELECTION**
SS 304 / 316L; MS and other alloys by duty
- **THERMAL ARRANGEMENTS**
Optional jacket, coil or insulation as specified
- **NOZZLES & ACCESS**
Inlet, outlet, drain, vent and instrument connections
- **AGITATOR INTEGRATION**
Drive, shaft, seal and impeller mounting as required
- **SURFACE & CLEANING**
Finish and cleaning provisions to suit application
- **INSTALLATION FORMAT**
Supported, fixed or mobile layouts subject to design

TYPICAL APPLICATIONS

Chemical blending · Food & cosmetics · Pharma liquids · Water utilities · Batch holding

Volume, materials, operating P/T, finish and inspection scope are finalized for each project.

10 / COMPANY CONTACT

Get in touch with SV Industries

From technical enquiries and quotations to fabrication, support and dispatch.

LET'S BUILD YOUR NEXT INDUSTRIAL SOLUTION TOGETHER



CONTACT INFORMATION

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MANUFACTURING FACILITY

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FIND US ON MAPS



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Contact our design team for a custom equipment quotation.

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