Steelcon Engineering LLP

Eminent Standards.

CAPABILITY BROCHURE
2026

SINCE 1990 · ANKLESHWAR, INDIA

Process equipment, engineered in high & exotic alloys.

Pressure vessels · Reactors · Hydrogenators · Heat exchangers · Columns · Agitators

36 yrs
ENGINEERING & FABRICATION

3,600+
PROJECTS COMPLETED

9
CERTIFICATIONS & APPROVALS

ISO 9001:2015
ASME 'U' DESIGNATOR
NBIC · NB 'R' & 'NB'
IBR 1950
EN ISO 3834-2
AD 2000-MERKBLATT HP 0
PED 2014/68/EU · CE 0045
ATEX 2014/34/EU

Engineering experience. Specialty metallurgy. Dependable execution.

Established in 1990 as Steelcon Engineering, Steelcon Engineering LLP is a designer and manufacturer of pressure vessels, heavy engineering equipment and process equipment, with specialized expertise in high-alloy materials of construction. Based in Ankleshwar, Gujarat, we bring 36 years of engineering and manufacturing experience to demanding industrial applications in domestic and international markets.

Our well-equipped, self-sufficient workshop supports the manufacture of equipment tailored to customers' process requirements. We work with stainless steels, Hastelloy, Inconel, Monel, duplex, super-duplex and hyper-duplex grades, Sanicro 28, 254 SMO, nickel and carbon steel — and our experience in material selection, fabrication and welding lets us take on equipment with demanding service conditions and metallurgical challenges.

> **VISION**
>
> With customer focus as our DNA, we shall be the globally trusted pioneers leading the world towards process engineering equipment, delivering optimal engineering solutions through technical excellence and innovation.

1990
Established — 36 years of engineering and fabrication

3,600+
Projects completed for the process industries

180+
Customers in India and abroad

65,000+ sq ft
Manufacturing area, GIDC Ankleshwar

9
Company certifications & code authorizations

156 kL
Largest pressure vessel / tank supplied to date

45 mm
Heavy-wall shell thickness fabricated

~215 bar
Highest design pressure built to date

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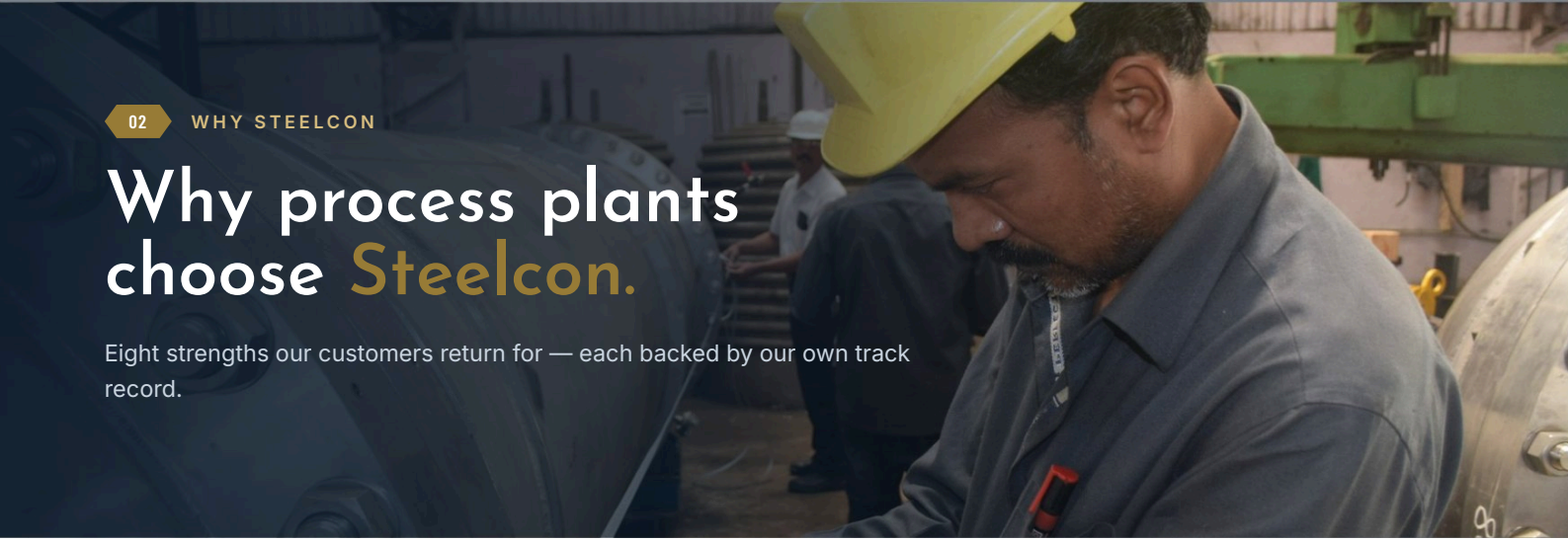




RECOGNIZED BY OUR CUSTOMERS

Business Partner of the Year 2025 – PI Industries

- SRF Limited — appreciation for an ≈ ₹1 crore design saving, TFE-PTFE project support and on-time delivery
- Piramal Pharma — 15% shorter batch time on a 10 KL hydrogenator
- Jubilant Life Sciences — Partners in Progress



02 WHY STEELCON

Why process plants choose Steelcon.

Eight strengths our customers return for — each backed by our own track record.

01 High & exotic alloy specialists

Hastelloy C-276, C-22 and C-2000, Inconel, Incoloy, Monel, Alloy 20, 904L, 254 SMO, Sanicro 28, duplex families and nickel — in solid or explosion-bonded clad construction for corrosive, cryogenic and high-temperature duty.

Explosion-bonded C-2000, C-22 and C-276 equipment for Dishman, P.I. Industries and Piramal Pharma

02 Hydrogenator masters

Hydrogenators, gas-induction reactors and autoclaves engineered around each process — references to 20 m^3 and 70 kg/cm^2g, cryogenic to high-temperature duty, double mechanical seal or magnetic drive.

Repeat hydrogenation orders from Lanxess, SRF, Piramal Pharma and P.I. Industries

03 Agitator assembly & impeller design

Impellers sized for the duty; shaft, seal and drive engineered as one assembly; every unit trial-run on our own benches before dispatch — for new vessels, as stand-alone assemblies or as upgrades.

150 HP agitator for Toyo Ink · 90 kL agitated reactor for Styrenix · systems to 20 kL for P.I. Industries

04 Shell & tube heat exchanger specialists

Every TEMA type — fixed tube-sheet, U-tube, floating head, kettle, condensers and reboilers — thermally designed and rated with HTRI and carried through mechanical design, fabrication and testing.

~1,000 m^2 exchanger for Savi · duplex and Inconel 600 exchangers for SRF, P.I. Industries and Sajjan

05 Fluent in codes & compliance

ASME 'U', NB 'R' and 'NB', PED (Annex I 3.1, Module A2), AD 2000 HP 0, EN ISO 3834-2, IBR and ISO 9001:2015 — with order-specific PED Module G and ATEX certification where a project requires it, and dossiers built to satisfy third-party inspection.

Experience with leading inspection & certification bodies — TÜV, BV, LR, SGS, DNV and more

06 Drawing review that adds value

We review every specification and drawing for what it may have left unsaid — operability, maintenance access, cleanability, safety and life-cycle cost — and propose improvements for approval.

≈ ₹1 crore saving for SRF · 15% shorter batch time for Piramal Pharma

07 Support that does not end at dispatch

Our engineers stay available to customers for questions, site support, repairs, spares and upgrades — whether or not a project is running with us, and whether the equipment came from our works or elsewhere.

National Board 'R' repairs and alterations at shop and field · commissioning and inspection support on request

08 Experience & on-time execution

36 years of fabrication know-how, skilled welders, fitters and riggers, in-house agitator trials and hydro testing, and regular progress updates to every customer.

Repeat orders from leading chemical and pharmaceutical producers

Built to the drawing. Reviewed beyond it.

Every specification and approved drawing passes through an engineering review before steel is cut. Beyond code compliance, our engineers look for what the specification may have left unsaid — the details that decide how the equipment will be operated, cleaned, inspected and maintained for decades. Every suggestion goes to you for approval — and the same engineers remain available once the equipment is in service.

STEP 01
Specification review
Process duty, design data, codes, materials of construction and inspection requirements.

STEP 02
Design verification
Code calculations verified in COMPRESS and PV Elite; nozzle loads, supports and fabrication feasibility.

STEP 03
Drawing review & mark-up
Our observations and value-add suggestions, raised clearly for the customer's decision.

STEP 04
Customer approval
Agreed drawing, Quality Assurance Plan and Inspection & Test Plan.

STEP 05
Build & stage inspection
Fabrication to the approved drawing with stage-wise inspections.

STEP 06
Dossier & after-sales support
Material traceability, test reports and records handed over with the equipment — and our engineers on call afterwards for commissioning, spares and modifications.

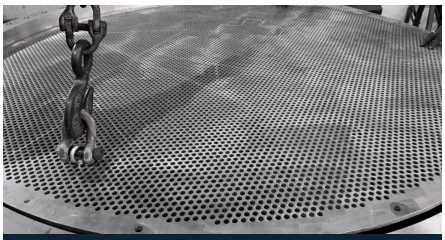
TYPICAL POINTS WE RAISE DURING DRAWING REVIEW

Process & performance
- Heat-transfer area and jacket / limpet / coil layout
- Agitator, baffle and coil interaction
- Sparger and dip-pipe geometry
- Drainability and dead zones

Maintenance & access
- Manhole and handhole size and orientation
- Removable internals and inspection access
- Seal, gearbox and drive serviceability
- Lifting, rigging and handling points

Operability & usability
- Nozzle orientation for piping and instruments
- Sight / light glass and sampling points
- Platform, ladder and operating clearances
- Cleaning, CIP and changeover needs

Safety & life cycle
- MOC compatibility and corrosion allowance
- Relief, vent and drain provisions
- Weld-joint efficiency and NDT scope
- Transport envelope and site erection



SRF LIMITED · P-35 PLANT · 2018

≈ ₹1 crore

saved through a design modification we recommended for the Alumina and Charcoal Bed Dryers — acknowledged in SRF's certificate of appreciation.



PIRAMAL PHARMA · 10 KL HYDROGENATION REACTOR

15% shorter batch time

Piramal Pharma appreciated our product design for reducing batch time by 15%, alongside product quality, support and timely delivery.

AFTER DISPATCH

Support that does not end at the gate.

Commissioning questions, spares, repairs, re-rating and upgrades — our engineers stay available to customers between projects, and for equipment that did not come from our works.

NB 'R' REPAIRS & ALTERATIONS · SITE SUPPORT · SPARES

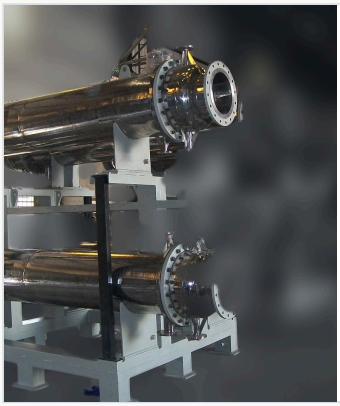
Across the process plant.

We design, manufacture and supply equipment for specific process requirements, with materials and construction selected for the application — grouped here by the solution it delivers.



01
Reaction & pressure equipment

- Reactors — jacketed, limpet-coil and internal-coil
- Hydrogenators & autoclaves
- Pressure vessels, receivers & separators
- Tubular catalytic reactors



02
Heat transfer & separation

- Shell & tube exchangers, condensers & reboilers
- Evaporators and coil exchangers
- Distillation, stripper & absorption columns
- Column internals & regenerators



03
Filtration

- Pressure nutsche filters
- Pressure filters
- Leaf filters
- Pressure-vessel filters



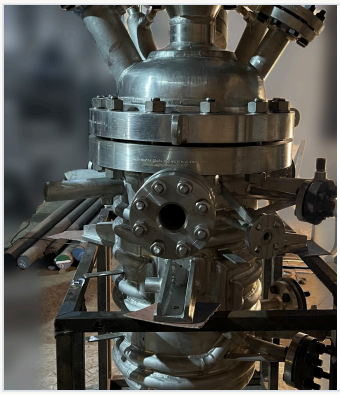
04
Mixing & dispersion

- Agitator assemblies with in-house running trials
- Hydrofoil, PBT, gas-dispersion & cowl-disc impellers
- Anchor and special-purpose impellers
- Mixers, blenders & sand mills



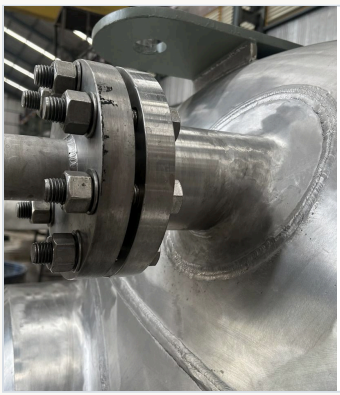
05
Drying & storage

- Rotary vacuum dryers & bed dryers
- Storage tanks to API 650 / IS 803
- M.L. tanks & silos
- Jacketed & limpeted holding vessels



06
Bioprocess & cGMP equipment

- Pre-fermenters & fermenters
- cGMP reaction vessels
- Mirror-polished & electropolished finishes
- Pilot-scale vessels



07
Customized equipment

- Equipment engineered to customer specifications
- Explosion-bonded and lined construction
- Special internals, coils & lip-type nozzles
- Bed-dryer plates & special fabrications

+

Not on the list?

Share your process datasheet — we design and build equipment around your process, materials and code requirements.

INDUSTRIES WE SERVE

Chemicals · Pharmaceuticals & intermediates · Agrochemicals · Specialty chemicals · Petrochemicals · Energy, oil & gas · Food · Dyes & pigments · Paints & adhesives · Composites

Where the metallurgy gets difficult, we excel.

Our experience in material selection, fabrication and welding lets us take on equipment for corrosive media, elevated temperatures and cryogenic duty — in solid alloy or explosion-bonded clad construction.

SOME OF THE MATERIALS WE WORK WITH REGULARLY

C-276 Hastelloy® C-276	**C-22** Hastelloy® C-22	**C-2000** Hastelloy® C-2000	**600** Inconel® 600	**825** Incoloy®	**400** Monel®	**Ni** Nickel 200/201
A20 Alloy 20	**S28** Sanicro® 28	**254** 254 SMO® (6Mo)	**904L** Super-austenitic	**316Ti** Stabilised SS	**321** Stabilised SS	**316L** Stainless steel
304L Stainless steel	**DPX** Duplex 2205	**SDX** Super-duplex	**HDX** Hyper-duplex	**LAS** Low-alloy steels	**CS** Carbon steel	**+ many more** related & equivalent grades

Nickel alloys · Duplex family · Stainless & super-austenitic steels · Carbon & low-alloy steels

A representative selection of the materials we work with regularly. We have fabricated many more related and equivalent grades across these families — tell us your specification.

SPECIALIZED & SUBCONTRACTED PROCESSES

- Metallic explosion bonding (clad)
- PFA / Halar lining & coating
- PTFE lining
- Lead bonding
- FRP lining
- Rubber lining
- Grit / glass-bead blasting
- Electropolishing



OUTSIDE VERTICAL COILS



MIRROR-FINISH COILS

EXOTIC-ALLOY REFERENCES

Dishman Pharmaceuticals	6 KL cryogenic reactor, SS 304 + Alloy C-2000 explosion-bonded
P.I. Industries	20 KL reactor body, SS 304 + Alloy C-22 explosion-bonded
Piramal Pharma	10 KL hydrogenator, SS 304L + Alloy C-276 explosion-bonded
Sajjan India / Cohizon	FMO gas-phase and catalyst reactors in Inconel 600
Technithon (end user Unilever)	40 KL vessel in SS 904L
Tatva Chintan Pharma Chem	18.5 m² explosion-bonded heat exchanger, C-2000 clad
SRF Limited	Duplex shell & tube exchangers to 178 m²; Inconel 600 / SS 316L distillation columns

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06 HYDROGENATION

Hydrogenator masters.

H_2 SPECIALISTS

High-pressure hydrogenators, gas-induction reactors and autoclaves are among our most demanding — and most repeated — builds, for India's leading pharmaceutical, agrochemical and specialty-chemical producers.

20 m^3
limpeted hydrogenators — Lanxess, Jhagadia

70 kg/cm^2g
high-pressure hydrogenator — SRF, Dahej

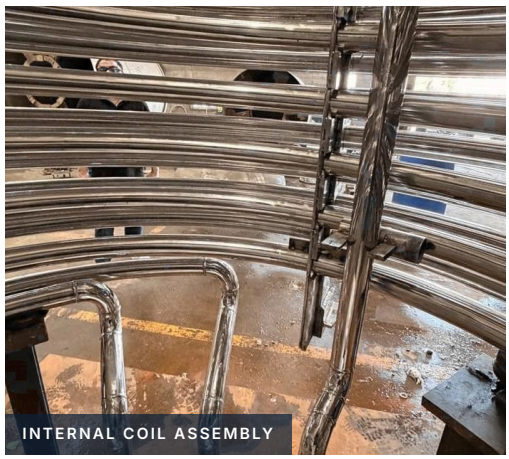
C-276
explosion-bonded clad hydrogenator — Piramal Pharma

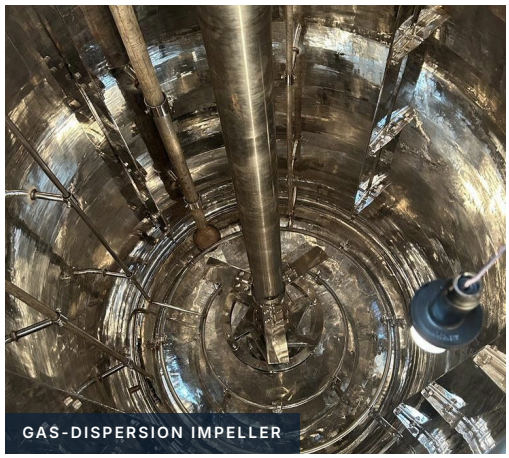
−35 °C
to 280 °C design temperatures handled

OUR RECORD SO FAR — AND GROWING

CAPACITIES	From pilot-scale 200 L units to 20 m^3 production hydrogenators
DESIGN PRESSURES	Full vacuum to 70 kg/cm^2g
DESIGN TEMPERATURES	Cryogenic −35 °C to 280 °C
MATERIALS	SS 316L, 316Ti, 304L, 904L, CS and Alloy C-276 explosion-bonded
SEALING	Double mechanical seal or sealless magnetic drive
CONFIGURATIONS	Limpet, jacketed and internal-coil; gas-induction; cGMP / GMP; ASME 'U' autoclaves

Indicative of equipment already supplied, not a limit. Larger volumes, higher pressures and other configurations are engineered to suit your process.


INTERNAL COIL ASSEMBLY


GAS-DISPERSION IMPELLER

SELECTED HYDROGENATION CUSTOMERS

Lanxess India · SRF Limited · Piramal Pharma · P.I. Industries · Cohizon Life Sciences · Cadila Pharmaceuticals · Teva API · Tatva Chintan · Eternis Fine Chemicals · Ami Organics · Wanbury · K.A. Malle Pharmaceuticals · Surya Life Sciences · Ravindra Heraeus · KRBL · Shree Mahadev Intermediates

Agitation engineered for the duty.

Agitator assemblies and impellers are a Steelcon speciality in their own right — designed from the process duty, built in the alloys our reactors are made of, and trial-run on our own benches before they leave Ankleshwar. We supply them with new vessels, as stand-alone assemblies, or as upgrades to equipment already in service.

150 HP
Largest agitator drive — Toyo Ink India; 75 HP assemblies for Ciba, SRF, Toyo Ink and Solenis

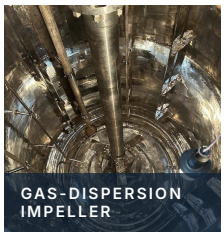
90 kL
Largest agitated equipment — reactor for Styrenix Performance Materials

20 kL
Reactor agitator systems — P.I. Industries (12, 15 and 20 kL), Rallis (10 kL)

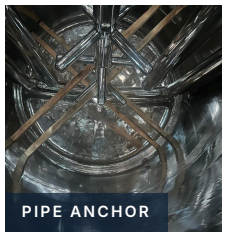
60 kL
Agitated storage tank — Apcotex Industries


HYDROFOIL


PITCHED-BLADE TURBINE


GAS-DISPERSION IMPELLER


COWL-DISC DISPERSER


PIPE ANCHOR


SPECIAL-PURPOSE IMPELLER

Process-duty sizing
Impeller type, diameter, speed and power selected for the duty.

Mechanical design
Shaft, bearings, couplings, gearbox and motor matched to the vessel and seal.

Sealing & drive options
Mechanical seals, stuffing boxes or magnetic drives; FLP and ATEX-compliant assemblies.

Retrofit & upgrades
New impellers, drives or seals for agitators already in service.

Customized solutions
Special-purpose and multi-stage impellers, side- and bottom-entry assemblies, cGMP finishes.

Trial-run before dispatch
Balanced, air-run and water-run at working pressure on our 12 m vertical trial bench.

Axial flow
- Hydrofoil — narrow-blade, high-efficiency
- Pitched-blade turbine — 2 to 6 blades
- Marine propeller — 3 or 4 blades
- Viscous-duty hydrofoil — wide blade, variable angle

Radial & high shear
- Flat-blade turbine
- Flat-blade disc turbine (Rushton type)
- Concave-blade disc turbine
- Curved-blade (backswept) turbine

Multi-stage & combined
- Counter-flow multi-stage impeller — two stages, opposed blade angles
- Hydrofoil + turbine combinations on one shaft
- Foam breakers and surface impellers
- Coil impellers with in-shaft heating or cooling

Close-clearance & viscous
- Anchor and pipe anchor
- Baby anchor / tickler
- Gate and paddle
- Helical ribbon — single or double

Special duty
- Retreat-curve impeller
- Large-diameter low-speed impeller
- Side- and bottom-entry mixers
- Special-purpose impellers designed around the duty

These are generic descriptions of the impeller families we design and build — including the counter-flow multi-stage, viscous-duty hydrofoil, helical-ribbon and curved-blade types often known by their makers' trade names. Tell us the duty and we will propose the design. Figures are references from equipment already supplied, not limits — larger drives, vessels and special configurations are engineered to suit each project.



08 SHELL & TUBE HEAT EXCHANGER SPECIALISTS

Heat transfer, engineered end to end.

Shell & tube heat exchangers of every TEMA type are a core Steelcon product — thermally designed and rated with HTRI, mechanically designed to TEMA and ASME Section VIII, and built with the tube-to-tube-sheet, expansion and testing disciplines that exchangers demand. From a single condenser to multi-tubular reactors with thousands of tubes, in carbon steel, stainless, duplex, nickel alloys or clad construction.

~1,000 m²
Largest exchanger — Savi Engineers

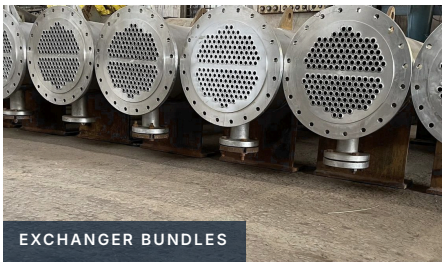
8,800 tubes
3.5 m diameter multi-tubular reactor

178 m²
Duplex exchangers — SRF, Dahej (14 to 178 m² series)

18.5 m²
Explosion-bonded C-2000 clad exchanger — Tatva Chintan

TYPES WE BUILD

FIXED TUBE-SHEET	BEM / NEN — with expansion joints where the design needs them
U-TUBE	BEU / AEU — removable bundles for high-pressure and clean tube-side fluids
FLOATING HEAD	AES / BES / AET — pull-through and split-ring designs for fouling services
KETTLE REBOILERS	AKT / BKU — vapour disengagement space and weir designed for the duty
CONDENSERS & REBOILERS	Vertical and horizontal condensers, vent condensers, thermosyphon and forced-circulation reboilers
EVAPORATOR CALANDRIAS	Multiple-effect evaporator calandrias and column-mounted exchangers
MULTI-TUBULAR REACTORS	Formaldehyde and catalytic tubular reactors — to 3.5 m diameter and 8,800 tubes
DOUBLE-PIPE & COIL	Double-pipe and hairpin exchangers; internal, limpet and outside coils


EXCHANGER BUNDLES


COLUMN WITH BUILT-IN EXCHANGER

Thermal design & rating
Thermal design and rating with HTRI for single-phase, condensing and boiling duties — pressure drop, vibration and fouling checks included — from your process data or your licensor's datasheet.

Mechanical design
TEMA Classes B, C and R and ASME Section VIII; tube-sheets, flanges, expansion joints and supports calculated and verified in PV Elite and COMPRESS; nozzle loads and transport checked.

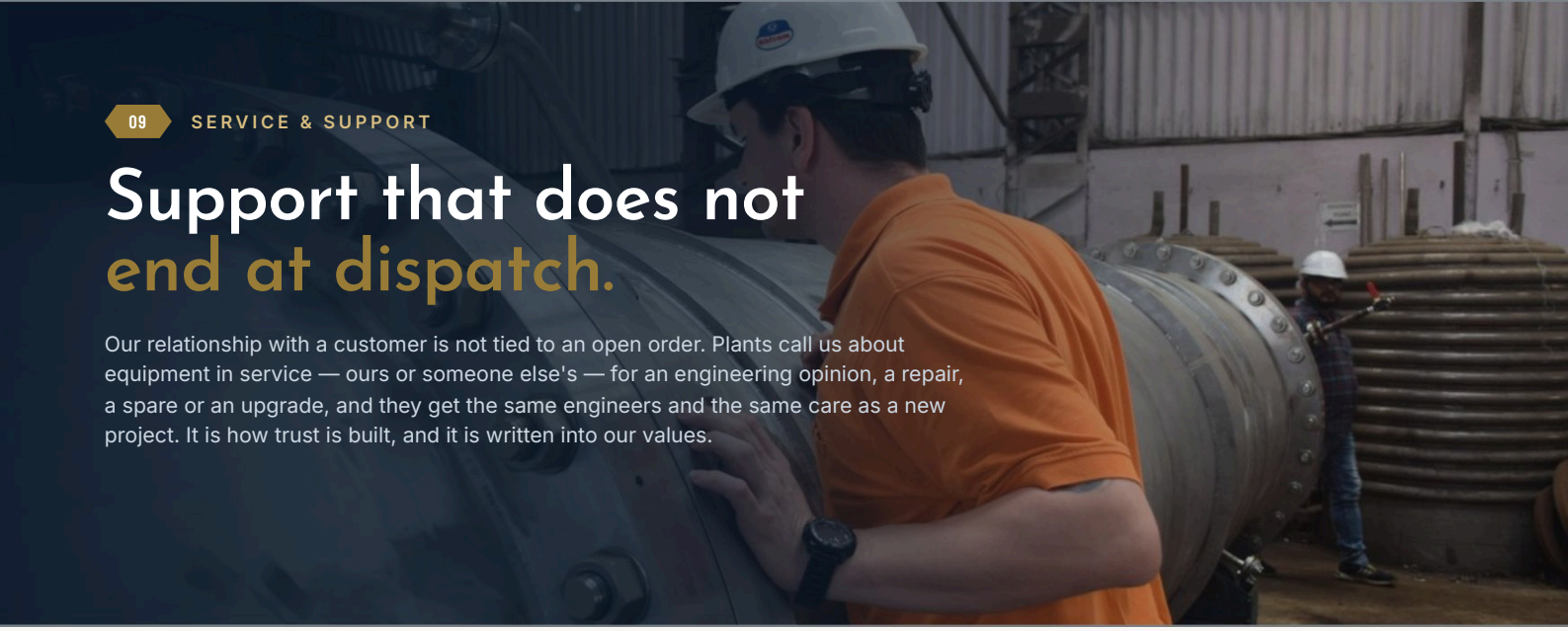
Materials
Carbon and low-alloy steels, stainless, duplex and super-duplex, Inconel, Hastelloy and other nickel alloys; explosion-bonded clad tube-sheets and channels; plain, corrugated or finned tubes.

Fabrication
Tube-to-tube-sheet joints strength- or seal-welded and expanded with in-house expanders; U-bends heat-treated after trials on samples for each radius; baffle cages, tie-rods and impingement plates built to drawing.

Testing & documentation
Shell-side and tube-side hydro tests held for one hour; pneumatic checks before expansion; PMI on all non-carbon-steel parts; IBR-approved for exchangers; full dossier with the equipment.

Exchangers in service
Re-tubing, bundle replacement, tube plugging, re-rating and repairs under our National Board 'R' certificate — for exchangers from our works or from elsewhere.

Figures are references from exchangers already supplied, not limits — larger areas, higher pressures and other configurations are engineered to suit each project.



09 SERVICE & SUPPORT

Support that does not end at dispatch.

Our relationship with a customer is not tied to an open order. Plants call us about equipment in service — ours or someone else's — for an engineering opinion, a repair, a spare or an upgrade, and they get the same engineers and the same care as a new project. It is how trust is built, and it is written into our values.

01
Engineering support on call
Questions on operation, maintenance, re-rating or modification of equipment in service — whether it came from our works or elsewhere.

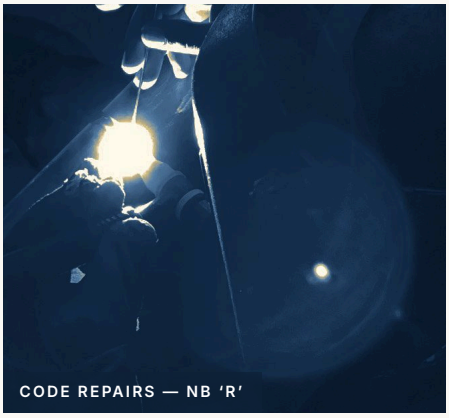
02
Site services
Installation and commissioning support, alignment, trial runs and start-up assistance by the people who built the equipment.

03
Repairs & alterations
Code repairs and alterations under our National Board 'R' certificate at shop or field; re-tubing, re-lining, nozzle additions and re-rating with documentation.

04
Upgrades & retrofits
Agitators, impellers, seals, internals and heat-transfer surfaces re-designed from operating data to improve throughput, batch time or energy use.

05
Spares & consumables
Gaskets, seals, impellers, tube bundles and internals supplied against the original drawings — or reverse-engineered where drawings are missing.

06
Inspection & documentation support
Assistance during statutory, insurance and customer inspections; hydro-test support; re-issue of dossiers and drawings.


CODE REPAIRS — NB 'R'


TRIAL RUNS & ALIGNMENT

WRITTEN INTO OUR VALUES

Trust & Reliance — relationships founded on consistency, dependability and support that continues long after delivery.

Support is scoped with you case by case; nothing above commits either side beyond what is agreed for each call.

Proven references.
Room to go further.

Reference points from equipment already delivered — not the limits of our capability. Larger, thicker and higher-pressure equipment is engineered to suit each project.

45 mm
Heavy-wall shell thickness
Reactors and autoclaves in heavy-wall construction

~215 bar
Highest design pressure
Gulbrandsen Chemicals

156 kL
Largest pressure vessel / tank
Limpeted vessel — Navin Fluorine

90 kL
Largest reactor body (gross)
Styrenix Performance Materials

5.0 m ID
Largest diameter
156 kL limpeted vessel, 5,000 mm ID — Navin Fluorine · plus a 3.5 m Ø, 8,800-tube reactor

27.8 m
Longest single segment
Distillation column — SRF Limited · plus Jubilant regenerator and jacketed reactor columns

~1,000 m²
Largest heat exchanger
Savi Engineers

150 HP
Largest agitator drive
Toyo Ink India



OTHER SPECIALIST EXPERIENCE

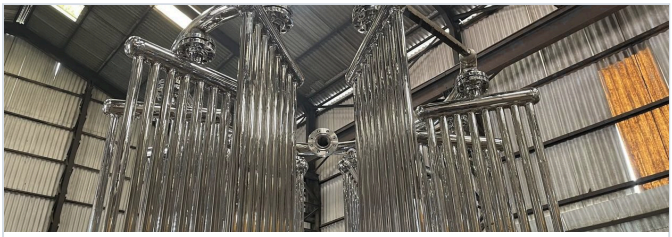
- Explosion-bonded clad equipment
- Cryogenic-service reactors
- cGMP & mirror-finish vessels
- Formaldehyde tubular reactors
- Gas-induction hydrogenators
- Magnetic-drive agitation
- ASME ‘U’-stamped vessels
- PED & ATEX-compliant equipment
- Column internals & chain baffles
- Lip-type & SR nozzles
- Limpet, jacket & internal coils
- Agitator running trials

Detailed reference lists by equipment type, material and industry are available on request.



11 PROJECT EXAMPLES

A few examples of what we build.



Exotic & clad metallurgy

Dishman Pharmaceuticals
Cryogenic reactor in SS 304 + Alloy C-2000 explosion-bonded clad

P.I. Industries
Reactor body and column in SS 304 + Alloy C-22 explosion-bonded clad

Sajjan India (Cohizon)
FMO gas-phase and catalyst reactors in Inconel 600

Technithon (end user Unilever)
Process vessel in super-austenitic SS 904L



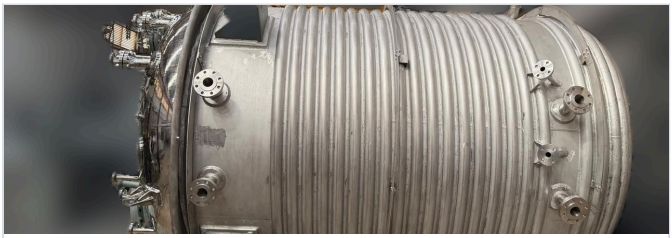
Hydrogenation & high pressure

Lanxess India
Limpeted hydrogenators of 16 & 20 m^3

SRF Limited
High-pressure hydrogenator at 70 kg/cm^2g

Piramal Pharma
10 KL hydrogenation reactor, Alloy C-276 explosion-bonded

Gulbrandsen Chemicals
High-pressure vessel at ~215 bar



Large & heavy equipment

Navin Fluorine
156 kL limpeted vessel, 5,000 mm ID

Styrenix Performance Materials
90 kL reactor body

Apcotex Industries
60 KL agitated storage tank

Solenis Chemicals
32 KL limpeted reactor with 75 HP agitator



Columns, reactors & heat transfer

Jubilant Organosys
Formaldehyde tubular reactor, Ø 3.5 m with 8,800 tubes

SRF Limited
Distillation column, 27.8 m single segment

Jubilant
Regenerator and jacketed reactor columns

Savi Engineers
Heat exchanger of ~1,000 m^2

A few examples from a much wider reference list spanning reactors, columns, heat exchangers, filters, agitators and custom equipment — detailed references available on request.

One works. Every discipline.

DESIGN & ENGINEERING

Mechanical and process design to the applicable codes, verified in Codeware COMPRESS and Intergraph PV Elite; heat-exchanger thermal design and rating with HTRI; drawings, 3D models and CNC programs in AutoCAD and SOLIDWORKS.

ASME BPVC Sec. VIII Divisions 1 & 2	**EN 13445 · PD 5500** Unfired pressure vessels
TEMA Classes B, C & R	**API 650 · IS 803** Storage tanks
IBR 1950 Indian Boiler Regulations	**AD 2000** Merkblatt series
IS · DIN · BS Applicable national standards	**PED 2014/68/EU** CE marking, Modules G & A2
ATEX EN ISO 80079 · EN IEC 60079	**ASME Sec. IX** Welding qualifications

MANUFACTURING & WELDING

Skilled welders, fitters and riggers; WPS/PQR and welders qualified to ASME Section IX; welding quality controls to EN ISO 3834-2. Specialists in high-nickel alloys, duplex grades and stainless steels. In-house agitator trials — speed runs, balancing, air runs, hydro testing and alignment.

INSPECTION & QUALITY CONTROL

01 — Drawings & procedures
Drawings approved against your specification and the code before cutting; qualified WPS / PQR and welder qualifications (ASME Sec. IX) reviewed in advance.

02 — Material & bought-outs
Every pressure-retaining and wetted part identified against its MTC / MTR; UT of plates ≥ 20 mm and forgings ≥ 40 mm where applicable; heat numbers transferred before cutting; tubes, forgings, fittings, fasteners, gaskets and consumables correlated with certificates.

03 — Forming & cladding
Dished ends checked at knuckle and straight flange with DP on the knuckle; explosion-bonded plates UT-tested to SA-578 S1 Level B with tensile and bond-shear tests to SA-265.

04 — Fit-up, welding & stage checks
Seams checked for edge preparation and alignment; DP after back-chipping; radiography per drawing; nozzle inclination held within 0.5°; tube-to-tube-sheet joints DP-tested after the root run; pneumatic checks of pads and tube joints; PWHT where the code requires.

05 — Final inspection & testing
Dimensional and visual checks with calibrated instruments; PMI of all non-carbon-steel pressure and wetted parts; hydro tests — shell, tube, jacket, limpet and coil sides — held for one hour; agitators balanced, air-run and water-run at working pressure.

06 — Release & dossier
Name plate stamped after review; release note issued once the heat chart is verified against certificates and reports; pickling, passivation, painting and nozzle blanking before dispatch; dossier with approved drawing and QAP, as-built drawing, certificates, heat chart, NDE, dimension and test reports.

PMI on every finished item with a Thermo Fisher XRF analyzer; calibrated QA instruments; complete documentation dossier with each delivery.

65,000+ sq ft
Total area across Unit 1 (Plots 5013–5016) and Unit 2 (Plot 5718)

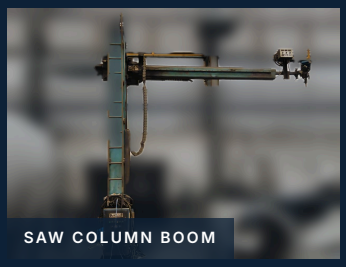
40 t
Electric overhead cranes, plus 7.5 t trolley-mounted rail crane

45 mm
Plate rolling up to 45 mm thick × 2,500 mm wide

12 m
Crane hook height at the vertical trial bench — tall equipment trial-run upright


CNC PLASMA


3-AXIS CNC VMC


SAW COLUMN BOOM


HYDRO-TEST BAY

Codes. Quality. Compliance.

Nine company certifications and code authorizations, plus PED Module G and ATEX certification obtained per equipment when a project requires it. PESO workshop approval is in progress.

COMPANY CERTIFICATIONS & CODE AUTHORIZATIONS



ISO 9001:2015

TÜV NORD CERT (DAkkS accredited) · Reg. No. 44 100 22393436 · valid to Jan 2028. Design, manufacture and supply of process equipment.



ASME ‘U’ Designator

Certificate of Authorization No. 58149 · manufacture of pressure vessels at shop and field sites · valid to Aug 2028.



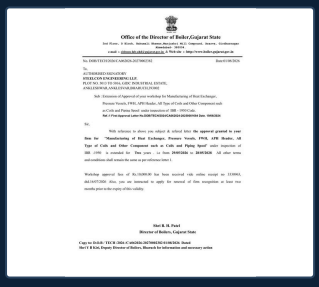
National Board ‘R’

Certificate No. 11212 · metallic repairs and alterations at shop and field locations · valid to Aug 2028.



National Board ‘NB’

Certificate of Authorization to Register pressure-retaining items (validity as per ASME ‘U’ Designator).



IBR 1950

Gujarat Director of Boilers workshop approval — heat exchangers, pressure vessels, FWH, APH headers, coils and piping spools · extended to May 2028.



EN ISO 3834-2

TÜV NORD · comprehensive quality requirements for fusion welding of metallic materials.



AD 2000-Merkblatt HP 0

TÜV NORD · manufacturer of pressure vessels and parts · valid to Mar 2029.



PED 2014/68/EU · Annex I, 3.1

TÜV NORD · manufacture of pressure vessels to AD 2000 HP 0 and EN 13445 · valid to Mar 2029.



PED Module A2 · CE 0045

TÜV NORD (notified body 0045) · process columns and pressure vessels to EN 13445.

ORDER-SPECIFIC CERTIFICATION — OBTAINED PER EQUIPMENT WHEN A PROJECT REQUIRES IT



PED Module G

Unit verification by TÜV NORD · Category IV pressure equipment to EN 13445 — certified per unit, when a project requires it.



ATEX 2014/34/EU

TÜV CY 26 ATEX 0207710 X · TÜV CYPRUS (notified body 2261) · agitated reactor assembly to EN ISO 80079-36/-37 and EN IEC 60079-0 — certified per equipment, when a project requires it.

Trusted by leading process industries.



...and many more.

LICENSORS, CONSULTANTS & EPC COMPANIES

- Ameya Engineers
- Arya Engineers & Contractors Pvt. Ltd.
- Ascent Total Solution Pvt. Ltd.
- Becht Engineering Co., Inc.
- Bertrams Chemical Plants Ltd.
- Bhavi Engineers and Consultants
- Cameron
- Chemin Projects
- ChemSOL Engineers
- Coenz Group
- Dynamic Energy Solution Pvt. Ltd.
- Electro-mech Engineering Enterprises
- Gusto Total Solutions Pvt. Ltd.
- Innovision Industries Pvt. Ltd.
- IPS-Mehtalia Pvt. Ltd.
- Kasco Chemtech
- Knexir Consultants Pvt. Ltd.
- Marvell Design & Projects Pvt. Ltd.
- MN Engineering Solutions, Inc.
- Mott MacDonald Pvt. Ltd.
- Pharma Plan
- Pipe Con Consultants
- Projectplus Consultants LLP
- PTC Tech
- Shapoorji Pallonji and Company Pvt. Ltd.
- Shiva Engineering Services
- Shroff Engineering Consultants
- Signate Engineers
- SMPS Consultants LLP
- Source 360 SCM Services
- Sterling & Wilson Pvt. Ltd.
- Synergies Tech
- Tata Consulting Engineers Ltd.
- Technip Energies
- ThyssenKrupp Uhde India Pvt. Ltd.
- Toyo Engineering India Pvt. Ltd.
- Truetech Vision Industry Pvt. Ltd.
- Worley India Pvt. Ltd.
- Zeppelin Systems (I) Pvt. Ltd.

INSPECTION & CERTIFICATION BODIES

- Bureau Veritas (India) Pvt. Ltd.
- Chempro Inspections Pvt. Ltd.
- Danem Group
- Deutsch Quality Systems (India) Pvt. Ltd.
- DNV AS
- Electro-mech Engineering Enterprises
- The ERM International Group Ltd.
- HSB International (India) Pvt. Ltd.
- Industrial Inspection Agency
- Industrial Inspection Bureau
- Intertek India Pvt. Ltd.
- ISSPL Ltd.
- Lloyd's Register Asia
- Lloyd's Register Marine and Inspection Services India LLP
- LRQA Inspection Services India LLP
- Quest Associates
- SGS India Pvt. Ltd.
- Swiss Approval International
- Techcellent Quality Solutions Pvt. Ltd.
- TUV India Pvt. Ltd.
- TÜV Rheinland (India) Pvt. Ltd.
- TÜV SÜD South Asia Pvt. Ltd.
- "V" Design Inspection Services
- Worley India Pvt. Ltd.

The nature and scope of professional interaction vary by organization and project. Customer names and marks remain the property of their respective owners.

Steelcon Engineering LLP

Eminent Standards.

START A TECHNICAL DISCUSSION

Let's engineer your next process equipment.

Share your process datasheets or drawings, required capacity, materials of construction, operating and design conditions, applicable codes, inspection requirements and the intended delivery schedule — our engineering team will respond with a reviewed technical-commercial proposal.

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Workshop visits welcome by prior arrangement.