

SAJJAN

SINCE 1935

EXCELLENT TODAY.
PROMISING TOMORROW.



SPECIALIZED
TEAM



RESEARCH AND
STRATEGY



QUALITY
ASSURANCE



SHIPPING
INDUSTRY



MATERIALS

AN ISO 9001:2015 CERTIFIED COMPANY



ABOUT US

SAJJAN is a distinguished foundry that produces heat-resistant tool steel and stainless steel castings, through centrifugal, static and investment casting processes. It is located in Punjab, 300 Kilometer towards the north of New Delhi.

Established in the year 1935 Sajjan at present has a customer base spread across 23 different countries and channel partners in 7 countries. At present SAJJAN Group is one of the largest manufacturers and exporters of heat resistant and corrosion resistant casting in the country, under the dynamic leadership team, spearheaded by Mr. Gurvinder Pal Singh, Mr. Harveen Singh, and Mr. Vikram Chhabra. A quality centric company backed by a well-equipped, state-of-the-art plant and a 450 people strong experienced team, Sajjan is also accredited with ISO 9001:2015, ISO 14001:2015, and OHSAS 18001:2007 certifications. Castings at SAJJAN are manufactured in accordance with ASTM, DIN, AFNOR and Japanese standards.



SAJJAN AS A PARTNER

It is SAJJAN's goal not just to be a supplier but to be a partner with long relations to business partners and adding extra value to the products supplied.

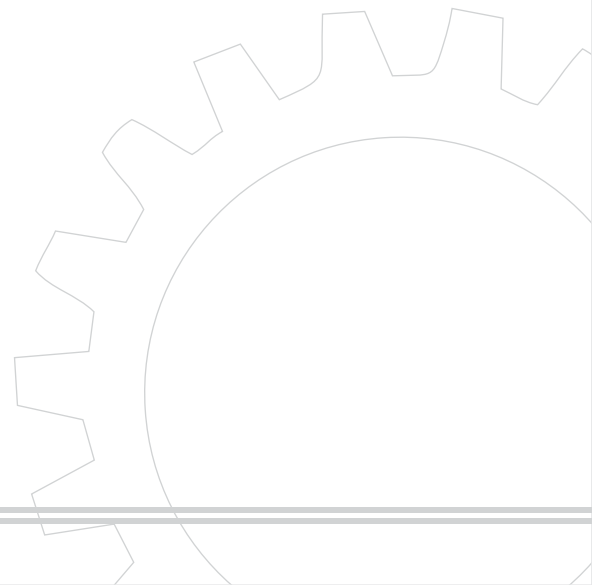
How to do this when supplying Heat treatment equipment?

SAJJAN has a highly skilled staff with up to date knowledge about heat treatment processes and furnace equipment.

We can analyze the process, way of handling and number of parts to be treated to find the best fixture design with the best and most economical alloy for the actual product. This includes very often both stress and flow calculation.

To save cost in the heat treatment process either is a process with a widely varying of products (typical heat treatment shops) or for high volume products (typical automotive industry).

It is important to find the right fixture design to keep low fixture weight, long fixture life time and uniform treatment and less distortion of the parts. Costs saved is money earned and that gives an edge over the competition.



PRODUCTS AND SERVICES OFFERED

Heat Treat Fixtures

Stackable Grids and Baskets

Charging Fixtures

Cast Link Belts

Furnace Rolls

Furnace Rails and Roller

Shaker Hearth Plates

Radiant Tube Assemblies

Walking Beam and Rollers

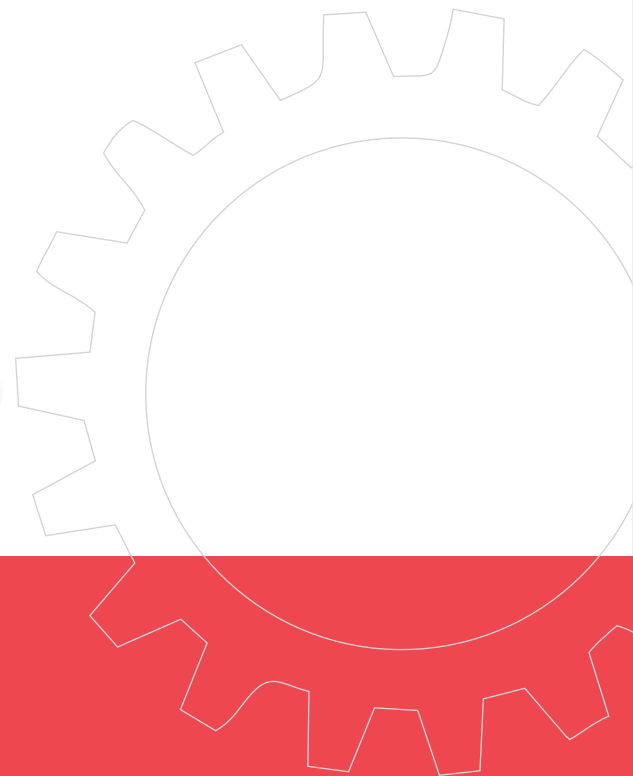
Rider Bars

Recuperator Tube Assemblies

Mixing Blades/PD Pump Parts

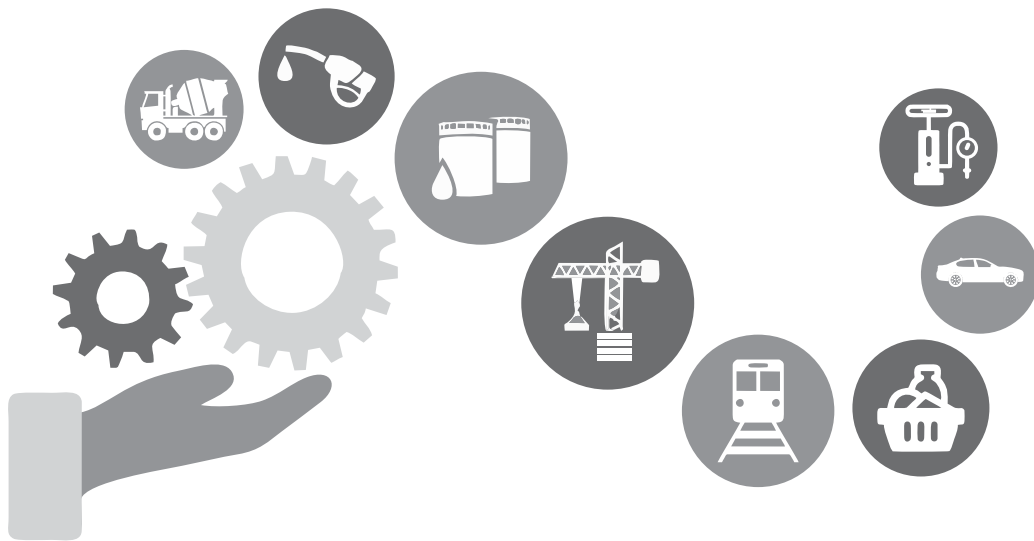
Separators and Decanters

**Tube Sheets and Hangers for
Petrochemical Industry**



WHO WE SERVE

SAJJAN serve a host of industries. With our in-house designing unit and state-of-the-art manufacturing plant, our products undergo stringent quality checks and are recognized in the market for their superior quality and variety. Some of the industries that we serve are petrochemical, automobile, pumps, valves, steel, railway, paper and pulp, glass, cement, power generation, and general engineering.



Reheating Furnaces

Petrochemical Industry

Heat Treatment Industry

Sponge Iron Industry

Food Processing Machinery Parts

Metal Gaskets and Seals

Galvanizing Lines

Cement

Pump and Valve Manufacturing

Power Generation

Petrochemical Engineering

Glass

Steel

Chemical

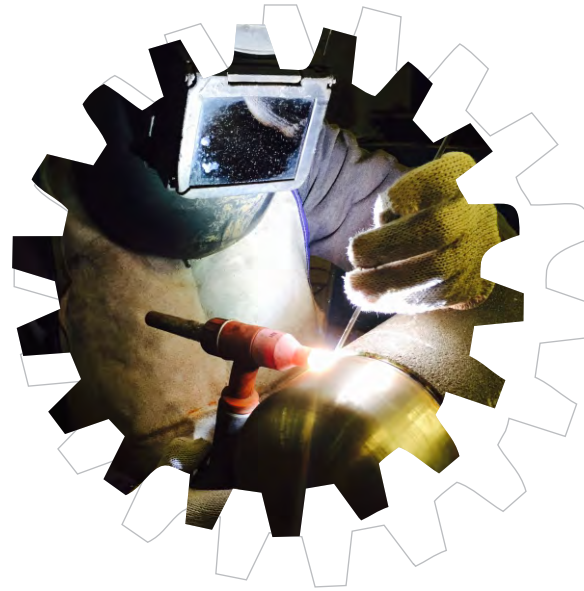
Automobile

Separators

WHY US?

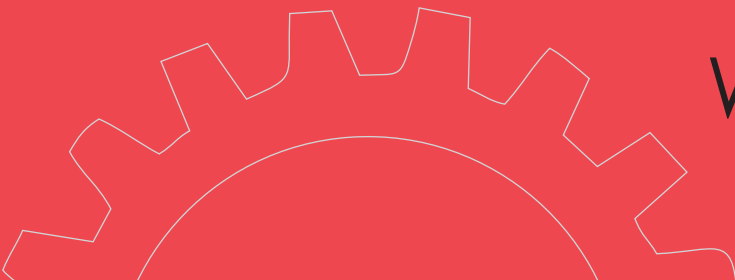
Specialized Team

The success of SAJJAN primarily lies with the competent team of professionals who are focused on the company's vision of producing premium quality castings. Our team of experts comprising of technocrats, engineers, quality controllers, R&D experts, technicians among others have wide expertise in their respective domains. Each and every unit of our organization is managed and controlled by our vision of offering an excellent range of Industrial Castings to our esteemed clients.



Research and Strategy

SAJJAN is well-researched on the latest process technology, information management, and infrastructure development. These three components are closely connected and each is critical to ensure success. We have a dedicated R&D team that is focused to garner the latest technological know-how and processes that can be incorporated in the company. We keep upgrading our machinery and software to enable us to keep pace with our global counterparts. Some of our technical approaches include use of 3D printing for manageable models and wax patterns, simulations among others.



We Understand
Your Needs

Quality Assurance

Quality comes foremost at SAJJAN. The variety of castings manufactured at our company is in accordance with ASTM, DIN and IS Standards. Our Quality Assurance systems are ISO 9001:2015 Compliant. Quality control procedures, which include NDT Testing, UT, RT, PT, PMI and MPI, are done by qualified personnel with sound experience in their respective field.



Infrastructure

SAJJAN is equipped with a full-fledged manufacturing unit at Ludhiana. It is equipped with the best machinery to facilitate manufacturing of its premium casting components. Our manufacturing unit is spread over a wide area of 65000 sq metres and has substantial production capacity under one roof. We also have an in-house design unit with CAD/ CAM facility that assists us to manufacture our casting components. This enables customers to avail of both designing and manufacturing under one roof. Some of our infrastructure highlights are:



- Area- 65000sq Meters
- Part Maximum Weight- 1200 kg single pc
- Part Maximum Size- 1600mm x 2600mm
- CNC Machining- 50mm Dia to 1000mm Dia and length upto 4 meter
- HMC/VMC- 1000x1000x800mm
- Centrifugal Casting HCC- 75 mm od- 1000mm od
- Centrifugal Casting VCC- 250mm od -1000mm od
- Lost Wax Casting- 30 grams to 60 kg
- Size- 70 x 700 x 300
- In house Tool Room
- 29 Machining Centre

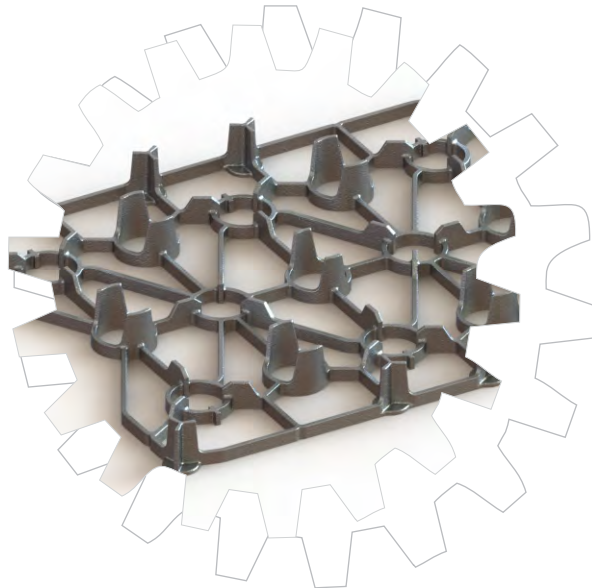
Materials

SAJJAN specializes in the production of alloys like High-Temperature Alloys, Corrosion Resistant Alloys, Wear Resistant alloys, and Super Alloy Castings. Further, SAJJAN has developed more than 120 different grades and material compositions for the Industry. With the use of latest technology, we are able to offer micro-alloy and ultra clean materials which ensure better longevity than normal alloys. SAJJAN is equipped with the know-how to develop suitable alloys for various applications. The company follows most of the DIN, ASTM, IS, BS and AFNOR standards.



Products

SAJJAN is renowned for its heat resistant, super alloy, stainless steel castings manufactured through centrifugal, static and investment casting processes. The products are light-weight and long-lasting ensuring fast response time. The company produces static castings from 0.5kg to 1200kg and centrifugally cast tubes from 10kg to 1200 kg. At the moment the tubes can be cast upto 460 mm diameters and 4 metre length with various wall-thickness combinations. The product portfolio of SAJJAN can be widely divided into three categories: heat treatment fixtures, Spun Cast/ Centrifugal Cast Products and Corrosion Resistant Castings. The organization not just designs products in-house but also has a wide inventory of patterns maintained for over two decades.

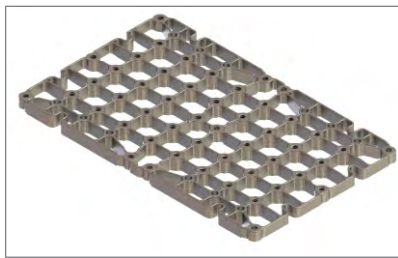
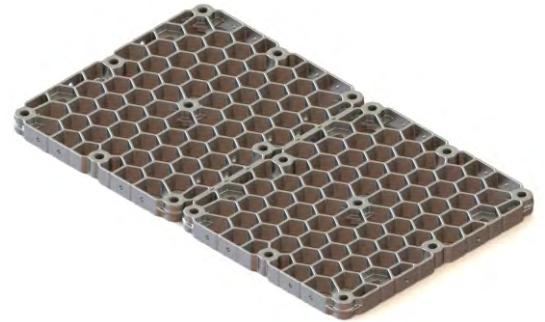


PRODUCTS

Let us take a look at the major products manufactured at SAJJAN:

BASE GRIDS

Base Grids find use in all kind of furnaces. Mostly the charge material is located either on sub-assembly fixtures or directly to the grid. The base grids or charge grids are made up of heat resistant steel and can withstand temperature upto 1200 degree Celsius. These products are used in hardening furnaces, annealing furnaces, carburizing furnaces among others.



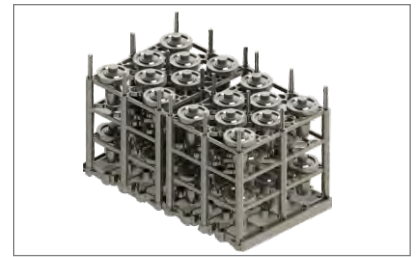
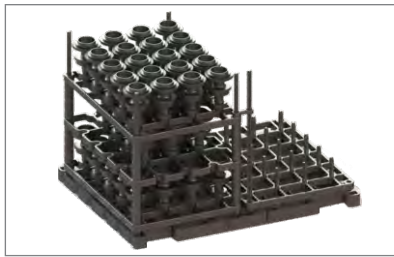
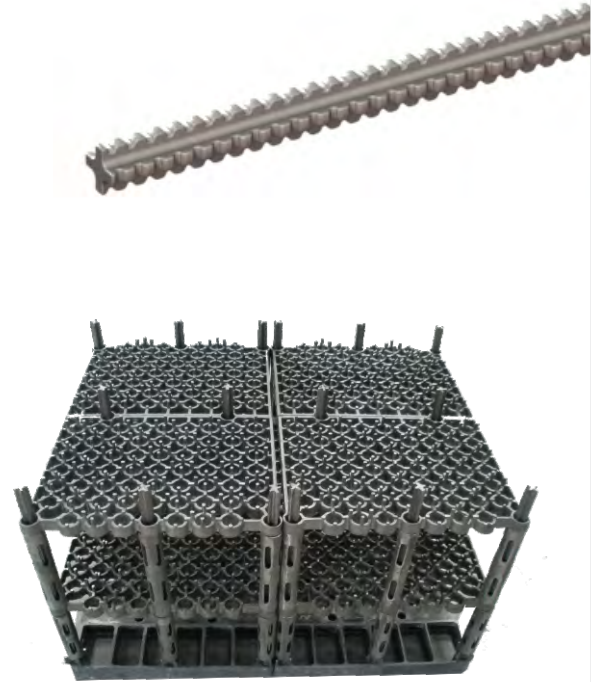
LIGHT WEIGHT FIXTURES

Light Weight Fixtures are used for bulk production with easy loading, unloading and carrying features. The purpose of these fixtures is to give each component space for uniform and high-quality heat treatment. SAJJAN has the in-house design expertise to give a customized solution and work in detail with the requirement of its customers.



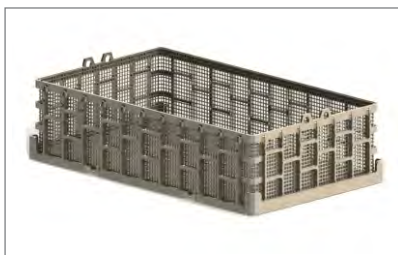
CHARGING FIXTURES

Charging fixtures are a complete set of fixtures required for heat treatment of components in vacuum furnace, sealed quench furnace or continuous gas carburizing furnace. These fixtures include base grids, top grids, intermediate grids, pillars, bridging arms, cross beams, loading rods, spacers and locking links. These are usually available in ready condition that means many a times the customer has to make zero investment on tooling, modeling or development.



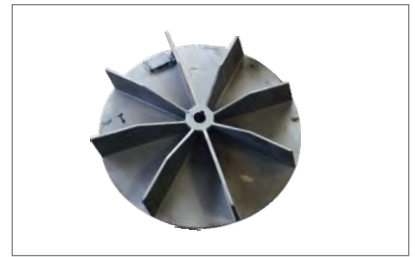
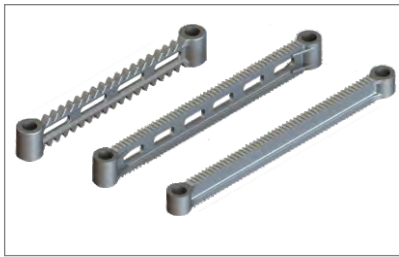
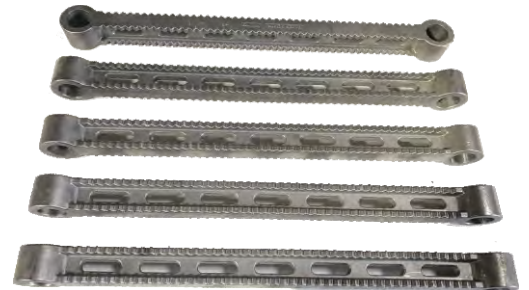
BASKETS

SAJJAN is also into the manufacturing of high-quality baskets for heat treatment industry. Usually available in standard sizes, these baskets help to save time and money on development and lead time. The baskets are long lasting. The insides of the basket comprise of wire meshes / perforated sheets or cast segments which ensure sufficient circulations of air and liquids.



FURNACE FURNITURE / ACCESSORIES

Furnace Furniture includes spares such as lifting beams, impellers, brick supports, rails, rollers, skid rail, chain guides, piers etc. SAJJAN offers both regular and customized solutions at competitive prices.



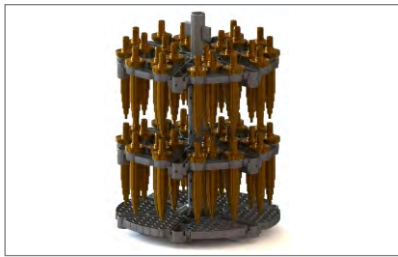
MESHES

Meshes are used both for layering and for preventing small components from getting out of the basket. These are available in ready condition and can be supplied at short notice in heat resistant materials. SAJJAN also supplies perforated sheets and cast segments for this application.



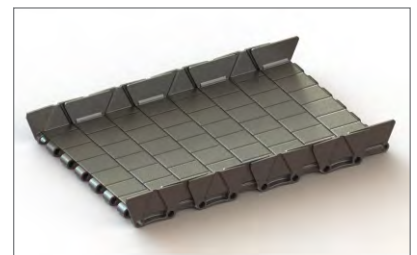
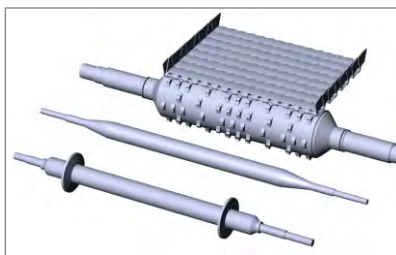
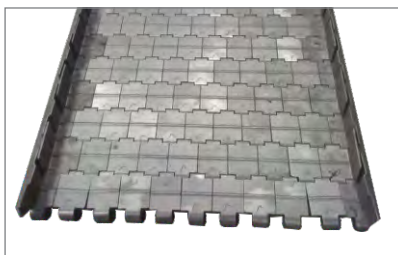
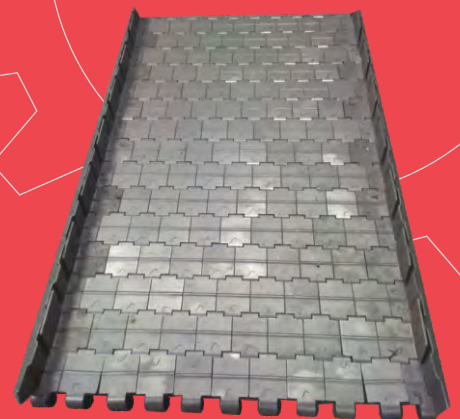
FIXTURES FOR PIT FURNACE / GCF

SAJJAN is a specialist in the manufacturing of fixtures for Pit Type Furnace / GCF. These come in both standard options and customized designs. Our designing team is well experienced in designing fixtures to suit customer requirements. There are various sizes ranging from 600 mm diameter to 2200 mm diameter with charge carrying capacity up to 12000 Kg in one batch.



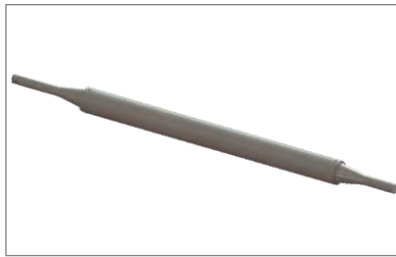
CAST LINK BELTS

Cast link belts find application mainly in the fastener industry, hand tool industry as well as the automobile industry. These are often designed for heat treatment capacity starting from 300 Kg up to 1500 Kg an hour. Cast link belts are available in standard designs and are supplied in ready-to-fit conditions along with centrifugal cast drive rolls and deflection rollers.



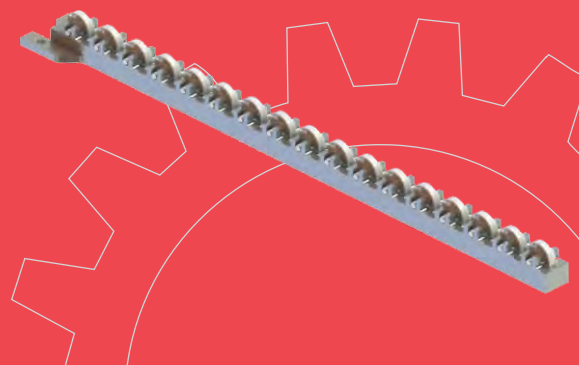
FURNACE ROLLS

SAJJAN produces high-quality furnace rolls used in cast conveyor belt furnaces, reheating furnaces, tube mills, plate reheating furnaces, etc. These rolls are often available in a wide variety of sizes and grades to choose from. We offer shorter lead times, excellent quality with zero customer complaint and competitive prices which will make us a one-stop solution for all your requirements.



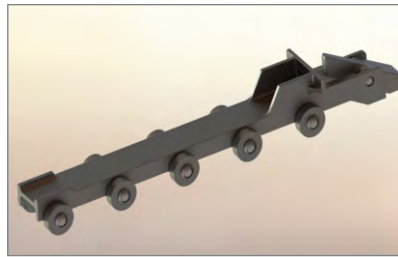
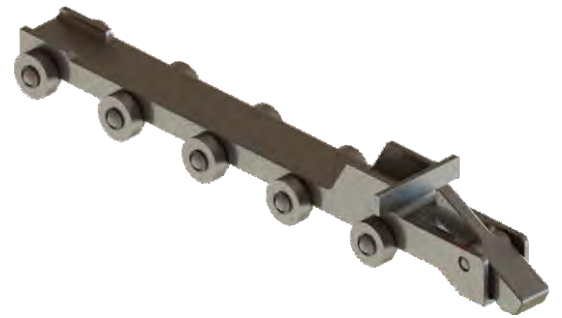
ROLLER RAIL AND ROLLERS

Roller Rail and Rollers are the lifelines for hardening and tempering furnaces. It is very important that these products are manufactured using best technique to ensure the perfect alignment and maximum life. SAJJAN uses its state-of-the-art technology to manufacture the Roller Rail and Rollers. These are mostly made in heat resistant alloys with working temperature from 700 degrees to 1150 degrees Celsius.



CHAIN GUIDE AND PUSHER HEADS

SAJJAN caters chain guide and pusher head assemblies to major furnace manufacturers in the world. These are often available in standard sizes. All the manufacturing from development to machining is done in-house by our qualified and experienced engineering team.



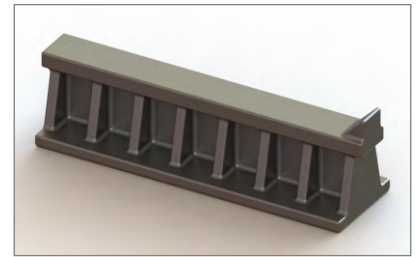
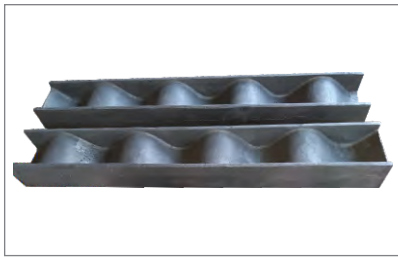
RADIANT TUBE ASSEMBLIES

SAJJAN is a pioneer in the manufacturing of high-quality radiant heater tubes for all types of furnaces. The tubes are available in types such as W type radiant tubes, U type radiant tubes etc. Our radiant tubes are carried through stringent quality control testing such as pressure testing, dye penetrant test, ultrasonic and X-ray testing procedures. Our team of welders is experienced in their area of expertise and follows established PQR and WPS.



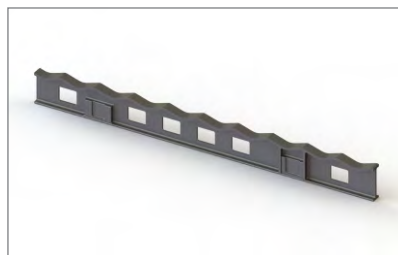
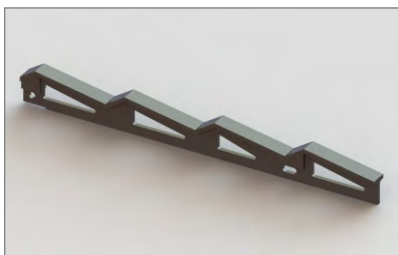
JOB PEDESTALS / FURNACE PIERS

SAJJAN specializes in the manufacturing of high-quality furnace job pedestals and piers for job resting in furnaces. These piers are instrumental in increasing the life of the refractory equipment. Our pedestals are durable and trouble free; and are available at competitive prices.



WALKING BEAMS

SAJJAN has a diverse experience of over two decades in manufacturing spares such as walking beam, fixed beam, water-cooled rollers, charge and discharge rolls for walking beam furnaces. Our experienced team is equipped to deliver the best quality components at reasonable prices within minimum lead time.



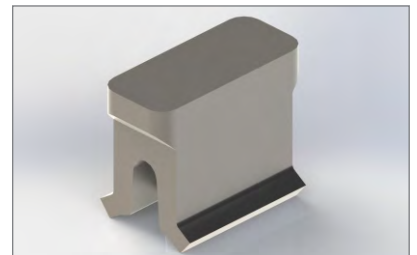
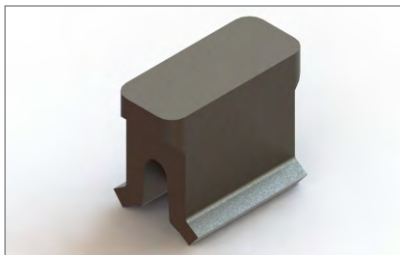
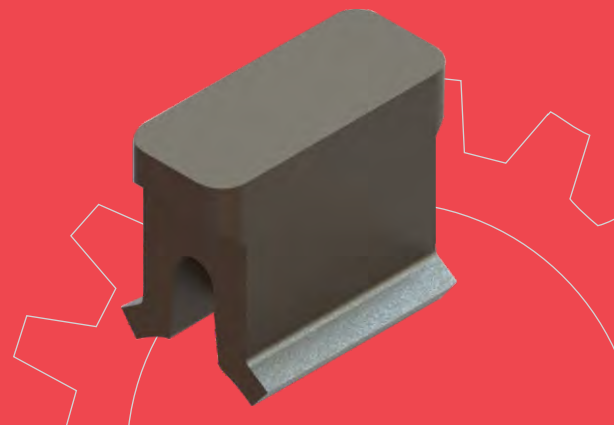
SPARES FOR PETROCHEMICAL INDUSTRY

SAJJAN is a major manufacturer of critical parts for the Petrochemical Industry. Furnaces in heat resistant cast grades are our speciality and we cater to a wide clientele. These parts include tube supports, tube sheets, cast bends, centrifugal cast tubes, tube hangers, and spares.



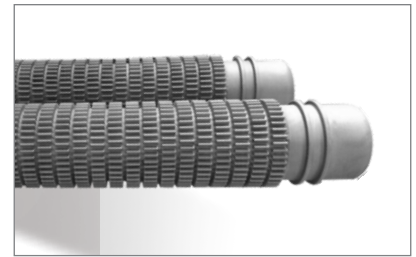
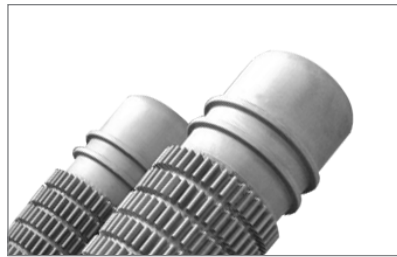
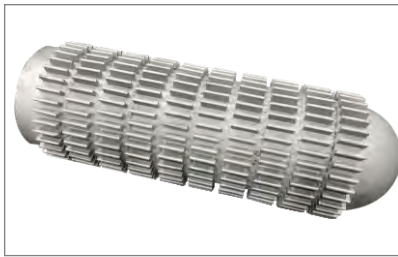
RIDER BARS

SAJJAN is also into the production of rider bars and skid buttons for critical applications. Most of the parts are made in high cobalt grades to ensure long life under tough operating conditions. These alloys have excellent mechanical properties at elevated temperature. SAJJAN is the prime source for rider bars and skid riders for clients across the world.



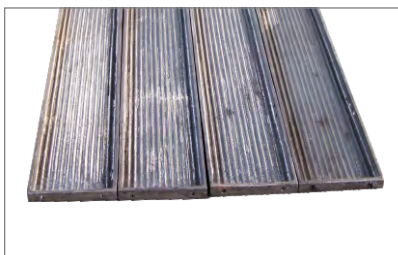
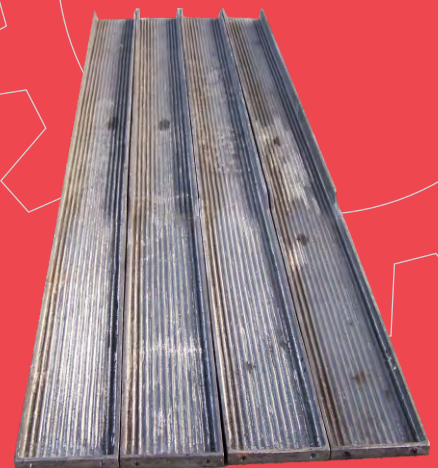
RECUPERATOR TUBE ASSEMBLIES

SAJJAN is the global market leader in the manufacturing of cast recuperator assemblies majorly used in the furnace industry. These recuperators undergo stringent quality control tests to ensure quality. We offer solutions for both low and medium volume requirements. In case of non-standard sizes or customized designs, the company is equipped to design and develop the same with IPR protection.



SHAKER HEARTH PLATES

Our company also manufactures shaker hearth plates ranging from size width 8 inches to 18 inches and length up to 122 inches. These plates are made in heat resistant cast grades like HK, HT, and HU and they undergo continuous operations. The plates are available in ready sizes and this ensures quick delivery to the customers apart from zero development cost and faster turnaround time for delivery.



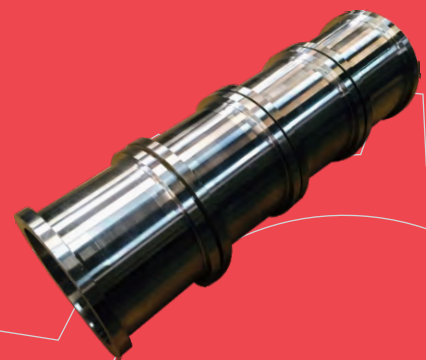
MIXING BLADES/PD PUMP PARTS

SAJJAN has more than 2 decades of experience in making mixing blades, Gear Cases, Gear Case Base, PD Pump parts, Rotors, Impellers used for food processing machinery to carry viscous and non-viscous material. We have more than 200 different types of parts in line which are supplied in ready to fit conditions using ultra-modern Vertical and Horizontal machining centres equipped with CNC Coordinate Measuring machines and White light scanner for reverse engineering.



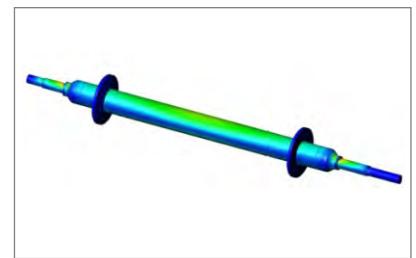
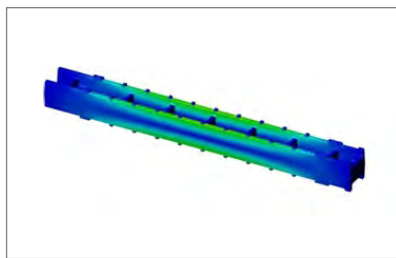
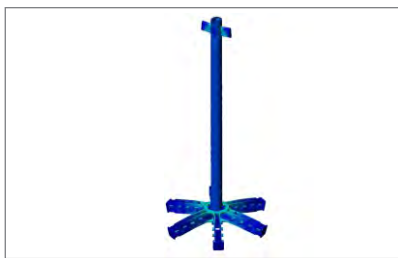
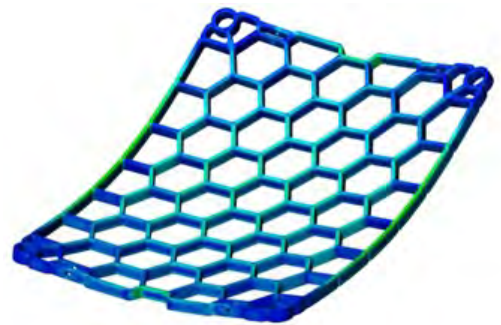
SEPARATORS

SAJJAN has got expertise in world-class quality manufacturing Cylinders, Cones, Hubs and Bowl Shells meant for separators and decanter centrifuge. Some of our customers include world's biggest names in the field of separators. We can make tubes upto 1000 mm outer diameter and max weight of 1200 kg single piece.

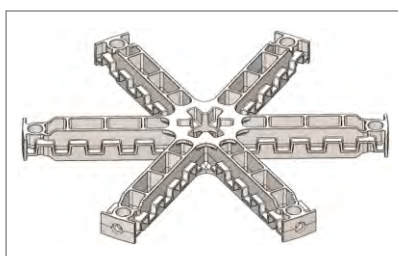
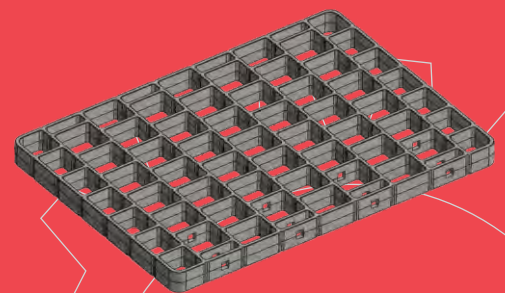


DESIGN AND STRESS ANALYSES

In today's time, it is very important for our customers to be competitive and excel in their industries. We at Sajjan have made this possible by helping our customers to better utilize their equipment and furnaces with better designing utilizing high end load and stress analysis softwares, which can increase the productivity by optimum fixture ratios and bringing the costs to lower levels.



We use advance Simulation and Solidification softwares, which helps us to cast our parts first time right. This not only saves time but also huge money to our customers by improving the yields and soundness of the products we manufacture. This also helps us to shorten our delivery time.



SHIPPING

We currently ship consignments to over 26 countries as per the latest Incoterms. We work with the following esteemed shipping partners to stick to our adherence for meeting delivery time-lines. These partners help us stay true to our business commitments letting us ship our products without any time lag, thus ensuring we tide over any logistical challenges.



CERTIFICATIONS & ACCREDITATIONS

We at Sajjan group stress on following all the safety guidelines and quality mandates. Great care is taken to ensure that our industrial processes do not harm the environment in any way. We ensure that all the industrial waste is properly treated before being disposed. This has given us the key accreditations that vouch for the quality of our work & our commitment to environmental and employee safety. Here is list of our certifications.

- ISO 9001:2015 Certification for following the stringent guidelines with regards to product design, manufacturing procedures & customer service.
- ISO 14001 for proper disposal of waste and environmental safety.
- OHSAS 18001 Certification for maintaining health & safety standards.



HEAT RESISTANT

ALLOY	ASTM	C	Mn	Si	P Max	S Max	Ni %	Cr %	Others	MAX F°	MECHANICAL PROPERTIES AT ROOM TEMPERATURE			DESCRIPTION
											Yield Point MPa Min	Tensile Strength MPa Min	Elongation % Min	
HC	A297	0.5	1	2	0.04	0.04	4 max	28		2000° (1093°C)	-	380	-	"Good sulfur and oxidation resistance, minimal mechanical properties."
HD	A297	0.5 max	1.5 max	0.5 max	0.04	0.04	5.5	28		2000° (1093°C)	240	515	8	"Excellent oxidation and sulfur resistance plus weldability."
HE	A297	0.2 - 0.5	2.0 max	2.0 max	0.04	0.04	9.5	28		2000° (1093°C)	275	585	9	Higher temperature and sulfur resistant capabilities than HD
HF	A297	0.20- 0.40	2.0 max	2.0 max	0.04	0.04	10.5	21		1600° (871°C)	240	485	25	Excellent general corrosion resistance to 1500° F (816°C) with moderate mechanical properties.
HH	A297 A608	0.20- 0.50	2.0 max	2.0 max	0.04	0.04	11.0 14.0	24.0 28.0		2000° (1093°C)	240	515	10	Good strength and oxidation resistance at 1400°-1800° F (760°-982° C).
CANALLOY		0.45-0.65	0.75-1.50	1.75-2.25	0.04	0.04	10-14	22-26			-	-	-	
HI	A297	0.2 - 0.5	2.0 max	2.0 max	0.04	0.04	16	28		2000° (1093°C)	240	485	10	Improved oxidation resistance compared with HH.
HK	A297 A608	0.20- 0.60	2.0 max	2.0 max	0.04	0.04	18.0 22.0	24.0 28.0		2100° (1149°C)	240	450	10	Better strength / oxidation resistance than HH. Useful range up to 1900° F (1038° C).
HL	A297	0.2-0.6	2.0 max	2.0 max	0.04	0.04	20	30		1800° (982°C)	240	450	10	Improved sulfur resistance compared with HK
HN	A297	0.10- 0.15	1.5 max	1.5 max	0.04	0.04	25	21		2000° (1093°C)	-	435	8	Very high strength at high temperatures.
CT 15 C		.05-0.15	≤1.50	0.5-1.50	0.04	0.04	31.0-34.0	19.0-21.0	Nb		170	435	20	
HT	A297 A608	0.35- 0.75	2.0 max	2.5 max	0.04	0.04	33.0 37.0	15.0 19.0		2100° (1149°C)	-	450	4	Good thermal shock / fatigue resistance. Good carburization resistance.
HP	A297	0.35- 0.45	1.2 max	1.2 max	0.04	0.04	35	26		2000° (1093°C)	235	430	4.5	Resistant to both oxidizing and carburizing atmospheres at high temperatures
HU	A297 A608	0.35-0.75	2.0 max	2.5 max	0.04	0.04	37.0 41.0	17.0 21.0		2100° (1149°C)	-	450	4	Elevated temp. strength increases over HT.
HW	A297 A608	0.35-0.75	2.0 max	2.5 max	0.04	0.04	58.0 62.0	10.0 14.0		1800° (982°C)	-	415	-	Higher thermal shock / fatigue and carburization resistance with higher nickel.
HX	A297	0.35 -0.75	2.0 max	2.5 max	0.04	0.04	66	17		2100° (1149°C)	-	415	-	Resistant to hot gas corrosion under cycling conditions without cracking or warping.

Werkstoff Nr	Bezeichnung DIN 17006	C	Mn	Si Max	P Max	S Max	Ni	Cr	Others	MECHANICAL PROPERTIES AT ROOM TEMPERATURE			DESCRIPTION
										Yield Point MPa Min	Tensile Strength MPa Min	Elongation % Min	
1.4823	GX40CrNiSi27-4	0.35-0.50	≤1.50	1.00-2.50	0.04	0.04	3.50-5.50	25.0-28.0		240	515	8	Good sulfur and oxidation resistance, minimal mechanical properties.
1.4825	GX25CrNiSi8-9	0.15-0.30	≤1.50	1.00-2.50	0.04	0.04	8.00-10.0	17.0-19.0		240	515	8	
1.4826	GX40CrNiSi22-10	0.15-0.30	≤1.50	1.00-2.50	0.04	0.04	13.0-15.0	19.0-21.0		240	485	25	Excellent general corrosion resistance to 1500° F (816°C) with moderate mechanical properties.
1.4832	GX25CrNiSi20-14	0.15-0.30	≤1.50	1.00-2.50	0.04	0.04	13.0-15.0	19.0-21.0		-	-	-	
1.4837	GX40CrNiSi25-12	0.30-0.50	≤1.50	1.00-2.50	0.04	0.04	11.0-14.0	24.0-26.0		240	515	10	Good strength and oxidation resistance at 1400°-1800° F (760°-982° C).
1.4846	GX 40 CrNi 25 21	0.20-0.50	≤1.50	2.0	0.04	0.04	8.00-11.00	26.00-30.00		-	-	-	
1.4848	GX40CrNiSi25-20	0.30-0.50	≤1.50	1.00-2.50	0.04	0.04	19.0-21.0	24.0-26.0		240	425	10	Better strength / oxidation resistance than HH. Useful range up to 1900° F (1038° C).
1.4849	GX40NiCrSiNb38-19	0.30-0.50	≤1.50	1.00-2.50	0.04	0.04	36.0-39.0	17.0-19.0	Nb	220	400	5	
1.4852	GX 40 NiCrNb 35 25	0.35-0.45	≤1.50	1.00-2.50	0.04	0.04	33.0-35.0	24.0-26.0	Nb	250	450	6	
1.4855	GX40CrNiSiNb24-24	0.25-0.40	≤1.50	0.50-2.00	0.04	0.04	23.0-25.0	23.0-25.0	Nb	-	-	-	
1.4857	GX40NiCrSi35-26	0.30-0.50	≤1.50	1.00-2.50	0.04	0.04	34.0-36.0	24.0-26.0		235	430	4.5	
1.4859	GX 10 NiCrNb 32-20	.05-0.15	≤1.50	0.5-1.50	0.04	0.04	31.0-34.0	19.0-21.0	Nb	170	435	20	
1.4865	GX40NiCrSi38-19	0.30-0.50	≤1.50	1.00-2.50	0.04	0.04	36.0-39.0	17.0-19.0		-	450	4	Elevated temp. strength increases over HT.
2.4879	G-NiCr28W	0.35-0.55	≤1.50	1.00-2.00	0.04	0.04	47.0-50.0	27.0-30.0		240	440	4	
2.4778	G-CoCr28	0.2	≤1.50	0.50-1.50	0.04	0.04	-	26.0-30.0	Co 50	-	-	-	

CORROSION RESISTANT

ALLOY	ASTM	AISI	C	Mn	Si	P Max	S Max	Ni %	Cr %	Mo	OTHERS	MECHANICAL PROPERTIES AT ROOM TEMPERATURE			DESCRIPTION
												Yield Point MPa Min	Tensile Strength MPa Min	Elongation % Min	
CA -15	A296 A351 A487 A743	410	0.15	1	1.5	0.04	0.04	1	11.5-14.0			450	620	18	Widely used in mildly corrosive environments; hardenable, good erosion resistance
CA -40	A296	420	0.2-0.4	1	1.5	0.04	0.04	1	11.5-14.0			485	690	15	Similar to CA-15 at higher strength level
CA -6NM	A296 A487	12	0.6	1	1	0.04	0.03	3.5-4.5	11.5-14	0.4-1		550	755	15	Improved properties over CA-15, especially improved resistance to cavitations
CF-3	A296 A351	304L	0.03	1.5	2	0.04	0.04	8.0-12	17-21	0.5 Max		205	485	35	CF types most widely used corrosion resistant alloys at ambient and cryogenic temperatures
CF-8	A296 A351 MIL-S-867	304	0.08	1.5	2	0.04	0.04	8.0-11	18-21	0.5 Max		205	485	35	CF types most widely used corrosion resistant alloys at ambient and cryogenic temperatures
CF-3M	A296 A351	316L	0.03	1.5	1.5	0.04	0.04	9.0-13	17-21	2-3.0		208	485	30	Enhanced resistance to halogenation and reducing acids
CF-8M	A296 A351	316	0.08	1.5	1.5	0.04	0.04	9.0-12.0	18-21	2.0-3.0		205	485	30	Enhanced resistance to halogenation and reducing acids
CF-8C	A296 A351	347	0.08	1.5	2	0.04	0.04	9.0-12.0	18.0-21.0	0.5		205	485	30	Used where application does not permit post-weld heat treat
CG-8M	A744-80	317	0.08	1.5	1.5	0.04	0.04	9.0-13.0	18.0-21.0	3.0-4.0		240	520	25	Greater resistance to pitting and corrosion in reducing media than CF-8M
CH-20	A296 A351	309	0.2	1.5	2	0.04	0.04	12.0-15.0	22.0-26.0	0.5		205	485	30	Superior to CF-8 in specialized chemical and paper applications in resistance to hot H2SO3 organic acids and dilute H2SO4
CK-20	A296 A351 AM85365A MIL-P-17639D	310	0.2	1.5	1.75	0.04	0.04	19.0-22.0	23.0-27.0			195	450	30	Improved corrosion resistance compared with CH-20
CY-40	A296 A494	15	0.40	1.5	3	0.03	0.03	balance	14.0-17.0		Fe 11	195	485	30	Superb corrosion resistance over widest temperature range; virtually immune to chloride SCC
CZ-100	A296 A494		1	1.5	2	0.03	0.03	balance			Cu 1.25 Max Fe 3 max	125	345	10	Particularly useful for maintaining product purity of foods, synthetic fibers and caustic alkalis



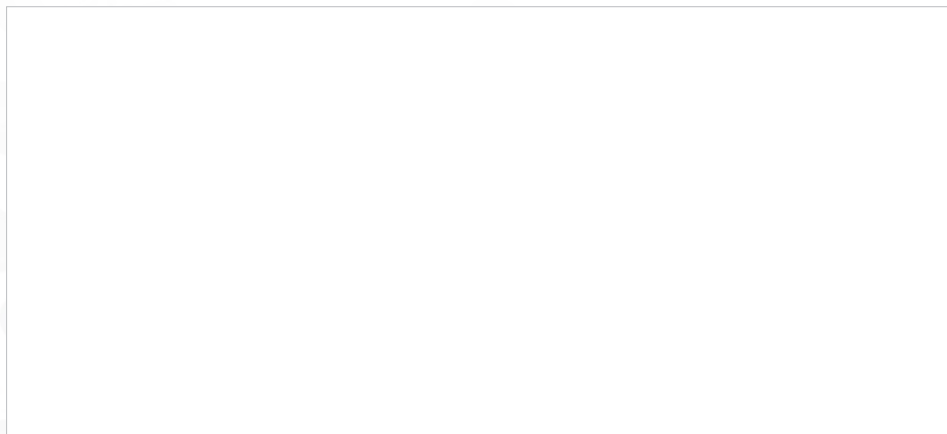
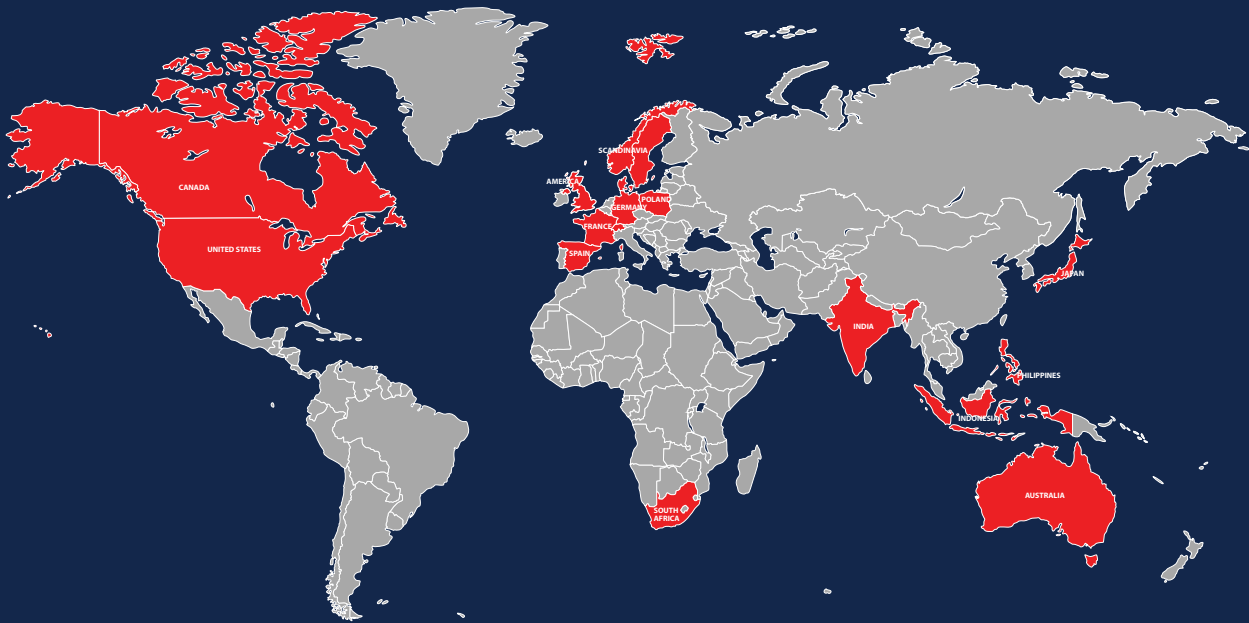
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