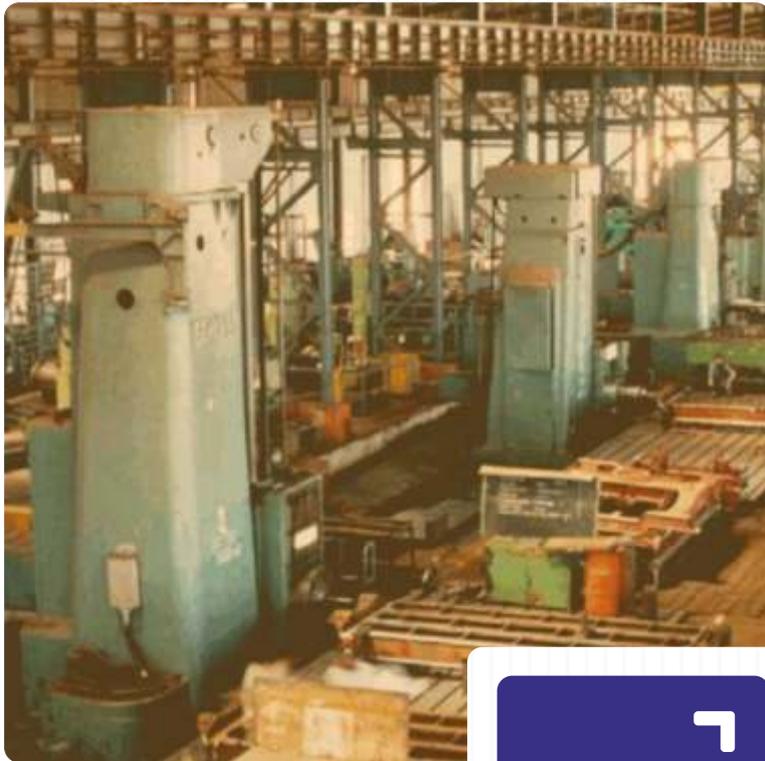




www.simplexengg.in

SIMPLEX ENGINEERING & FOUNDRY WORKS PRIVATE LIMITED
an ISO 9001:2008 company



ESTABLISHED 1941
2000 STRONG WORKFORCE
350 MACHINE TOOLS
SINGLE PIECE FABRICATION UPTO 80 TONNE
EPC CONTRACTOR

**AT
A
GLANCE**



7 DECADES OF ENGINEERING EXCELLENCE

FROM CONCEPTION TO COMPLETION



SIMPLEX UNIVERSAL DRILLING MACHINE
An example of Simplex's competencies and ingenuity.

Simplex Engineering & Foundry Works is an ISO 9001:2008 company with four manufacturing units engaged in manufacturing equipments and spares for core industrial sectors.

Established in 1941, Simplex Engineering is now on the verge of completing 7 decades of manufacturing operations.

With outstanding facilities under one roof and the ability to meet the most challenging specification and delivery schedules, Simplex provides its clients with a vast range of products for various sectors such as Power, Railways, Iron and Steel, Mining, Material Handling, Defence, Hydrocarbons, Sugar and Cement.

Simplex provides a complete range of services to heavy industry from Basic Engineering to Detail Design, Manufacturing, Installation, Commissioning and Maintenance.

Simplex exports more than 20% of its production to countries such as USA, France, Japan, Germany, Australia, Korea, Egypt and Russia. Regularly exported products include Steel Ladles, Mobile Crushers, Aluminium Moulds, Steel Plant Spares, Pump Bodies and Valve Bodies.

Centrally located in India, in the industrial town of Bhilai, Chhattisgarh, Simplex is well connected through Road and Rail network to all parts of the country. In addition to its manufacturing facilities, Simplex has an effective network of marketing offices and representatives to cater to the requirements of a wide cross section of clients in India and abroad.

DESIGN.

Simplex Engineering's fully computerized design office, equipped with latest hardware and software, offers design engineering services in the following disciplines:

- Structural Design • Mechanical Design • Electrical Design
- Hydraulic Design • Instrumentation & Automation Design.

Simplex specializes in design and development of Mining and Material Handling Equipments. Equipment indigenously designed by Simplex include DGMS approved Mining Machinery such as Side Discharge Loaders, Universal Drilling Machines and Load Haul Dumpers with hydraulics and flame-proof electricals, Mechanical & Electro-hydraulic Grab Buckets, On-shore Sucker Rod Pumping Units, Pre-Engineered Buildings, Plant and Equipment for Integrated Steel Plant Mills.

FABRICATION.

Simplex has the capacity to manufacture 5000 Tonnes of Equipments and Structural Fabrication [upto 80 Tonne single piece] per month.

More than 50000 Square Metres of covered area with EOT Cranes has been created for fabrication and an additional 10000 Square Metres of open fabrication yard operates with Tower Cranes of 50 Tonne capacity.

Simplex has all modern fabrication facilities like CNC Profile Cutting Machines, CNC Drilling Machines, Heavy H-Beam Line, TIG, MIG, CO₂, Semi-Automatic Submerged ARC Welding Machines, Welding Booms upto 4 metres, Welding Manipulators, etc.

MACHINING.

Spread over an area of 25000 Square Metres in three workshops, Simplex's state-of-the-art machining facility is the largest of its kind in Central India.

Simplex has more than 350 Machine Tools, consisting of both CNC and Conventional Machines. These include Lathes, Plano-Millers, Cylindrical Grinders, Surface Grinders, Vertical Boring Machines, Horizontal Boring Machines, etc. The facility is supported by a well-equipped and modern Tool Room.

ASSEMBLY.

With state-of-the-art facilities for fabrication and machining, Simplex is one of the largest equipment builders in India. As such, as a part of its manufacturing responsibilities, Simplex also carries out complete control assemblies, trial and testing of various equipments and components in its workshops.

TESTING.

Simplex's in-house physical and chemical testing facilities and a dedicated team of Quality Control technicians work towards ensuring complete customer satisfaction.

Testing facilities available include Ultrasonic Testing Machine, Radiography Equipment, Magnetic Particle Testing Machine, Ultrasonic Surface Finish Tester, Die-Penetrant Testing Facility, Digital Hardness Tester, Hydraulic Testing Bench, Coordinate Measuring Machine, etc.

Being an ISO 9001 accredited company, stringent quality systems are an integral part of Simplex's manufacturing processes. Both, in-process and final inspections are carried out by a team of trained quality engineers. The company management practices and trusts Total Quality Management.

TURNKEY PROJECTS.

Simplex Engineering undertakes turnkey and semi-turnkey contracts on individual/consortium basis for construction, revamping and modernization of Iron and Steel Making Plants, Rolling Mills, Material Handling Systems, etc.

Turnkey services include:

- Technical and Commercial feasibility reports • Systems Design
- Detail Engineering • Planning, Scheduling and Project Monitoring • Manufacturing and Machine Building
- Structural Work • Erection, Commissioning and Initial Operation of plants • Training for Clients' Personnel • Deputation of Skilled Operators/Engineers to meet short-term operational needs of clients.

REFURBISHMENT SERVICES.

Simplex provides Refurbishment and Repair Services for industrial equipments and components. Process includes complete dismantling of equipment/components, repair/reconditioning, change of parts which are beyond use, re-assembling and testing.

STEEL SERVICE CENTER.

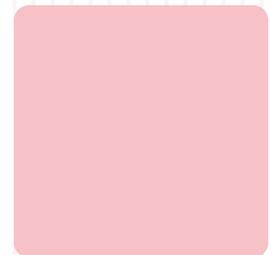
Simplex Steel Service Centre caters to the need of industries for buying steel in a modern organized way. It supplies steel plates and structures in the exact quantity and the exact profile as per customers' drawings, cut on CNC Profile Cutting Machine.

Simplex Steel Service Centre supplies Heavy/Medium/Light Structurals, Universal Beams, Channels, Angles, Crane/Industrial Rails in all sizes with ex-stock delivery.

Simplex Steel Service Centre, with ultra modern lab testing facilities, also supplies steel with third party inspection through IRIS/BVIS/TPL/TUV as per customer requirements.



...
SERVICES



SIMPLEX	UNIT I Light and Medium Machine Building.	UNIT III Heavy Machine Building and Technological Fabrication.	UNIT II Heavy Machine Building and Technological Fabrication.
Capacity	12000 Tonnes per Annum 50 Tonnes Single Piece	20000 Tonnes per Annum 50 Tonnes Single Piece	20000 Tonnes per Annum 50 Tonnes Single Piece <i>Also capable of manufacturing technological structures @ 1500 tonnes per month upto 80 Tonne single piece.</i>
Plot Area	32293 Square Metres	123001 Square Metres.	50200 Square Metres.
Covered Area	23166 Square Metres.	49192 Square Metres.	33310 Square Metres.
Captive Power Generators	1075 KVA.	1150 KVA.	900 KVA.
Machine Tools	119 [97 Conventional + 22 CNC]	85	90
Handling Facilities	9 EOT + 3 Mobile Cranes	19 EOT + 6 Mobile Cranes.	18 EOT + 3 Mobile Cranes.
Fabrication Facilities	<ul style="list-style-type: none"> • Plate Bending Machines • CNC Flame-Cutting Machine • SAW, MIG, TIG, Rectifiers • Welding Machines • Plano Miller • Lathes • Cylindrical Grinders • Surface Grinders 	<ul style="list-style-type: none"> • Plate Bending Machines • CNC Flame-Cutting Machines • Welding Manipulators • SAW, MIG, TIG • Rectifiers • Grit Blasting Equipment • Hydraulic Presses [Vertical Cylinder, Vertical Double Cylinder, Horizontal Double Cylinder]. 	<ul style="list-style-type: none"> • Plate Bending Machine [upto plate Thickness 70 mm] • Plate Bending Machine [upto 16 mm] • Vertical Boring Machines • Plano Millers • CNC Flame-Cutting Machine • SAW Column and Boom • Welding Robot • Welding Manipulator • SAW, MIG, TIG • Rectifiers • Grit Blasting Equipment.
Extra Facilities		Stress Relieving Furnace 4m x 6m x 8 m.	Paint Booth 3mH x 6mW x 9mL.
Testing Facilities	<ul style="list-style-type: none"> • Heat Treatment facility. • Ultrasonic Testing Machine • Magnetic Particle Testing Machine • Ultrasonic Surface Finish Tester • Die-Penetrant Testing Facility. 	<ul style="list-style-type: none"> • Ultrasonic Testing Machine • X-Ray Testing Equipment • Magnetic Particle Testing Machine • Ultrasonic Surface Finish Tester • Die-Penetrant Testing Facility • Digital Hardness Tester • RAM Testing Facility [1:4] • Flow Meter • Pump Testing Bench • Hydraulic Testing Bench • Digital Height Gauge. 	<ul style="list-style-type: none"> • Ultrasonic Testing Machine • X-Ray Testing Equipment • Magnetic Particle Testing Machine • Ultrasonic Surface Finish Tester • Die-Penetrant Testing Facility.
Products	<ul style="list-style-type: none"> • Sucker Rod Pumps • Grab Buckets • Magnet Frames • Suspension Tubes • Armature Shafts 	<ul style="list-style-type: none"> • Fabricated Bogie Frames for Locomotives and Coaches • Equipment for Mining Industry like Side Discharge Loaders • Load Haul Dumpers • Special Purpose Cars for Steel Plants • Wagons 	<ul style="list-style-type: none"> • Mobile Crushers • Equipment for Hydel/Thermal/Wind Power Plants, Steel Plants.



POWER.

Hydroelectric • Spiral Casing • Stator Frame
 • Stator Core Clamping Assembly • Stator Stand
 • Upper Bearing Bracket • Draft Tube
 • Stay Ring • Rotor Spider • Clamping Rotor Rim
 • Bearing Track • Lower Guide Bearing
 • Turbine Casings • Pen Stock.

Thermal > Fabricated Mill Base and Gear Housing • Air Inlet Housing • Separator Body • Separator Top • Boiler Structures • Pressure Parts.

Wind > Conical Towers • Nacelle Frames • Main Carrier • Stator Bells • Stator Rings • Disc Rotors • Stator Plates • Stator Frames • Generator Rotor and Supporting Structure.

MINING.

Side Discharge Loaders • Load Haul Dumpers • Mobile Crawler Mounted Universal Drill Machines • Mobile Crawler Mounted Crushers • Crawler Mounted Roof Support for Underground Coal Mines • Tyre Mounted Coal Hauler (Shuttle Car) • Showel Buckets up to 10 Cubic Metres • Sigma Line Pans for Longwall.

MATERIAL HANDLING.

Various types of Grab Buckets including Remote Controlled Grabs • Various types of Wagons and Transfer Cars • Mobile Crushers upto 600 TPH • Coal Handling Plants.

RAILWAYS.

RDSO approved Fabricated Bogie Frames and Bolsters for Electric Locomotives, Diesel Locomotives, Coaches, Freight Wagons, Electrical Multiple Unit [EMU] and special purpose Bogies as per customer requirements • Magnet Frames [Stator Frames] • Suspension Tubes • MSU Components • Under-Frames of Locomotives • Crank Case • Main Base • Shafts • Heavy components such as Undercarriages, Superstructures, Jibs [Boom] for Heavy Break Down Cranes for Railways • Track Machines such as Track Relaying Machine, Track Lifter and Shifter.

MISCELLANEA.

Cement Plants > Kiln Supporting Roller with Shaft • Kiln Outlet Shell • Cast Steel Mill Feed Head • Girth Gear and Pinion • Support Frame • Fly Wheel for Hammer Mill • Rotary Kiln and Cooler • Rotor Block/Shaft • Retainer Ring and Inlet Piece • Brake Drums • Grab Buckets.

Hydrocarbons > Sucker Rod Pumping Units.

STRUCTURES.

Factory built structures for Thermal & Hydel Power Projects, Rail & Road Bridge projects, Industrial Sheds, Warehouses & Storage Godowns, Shopping Malls, Stadiums and Sports Arenas

H-Welded and I-Welded Beams of upto 18 metres length for use in Floor Beams, Crane Girders, Columns, Tie Beams, etc. Grit Blasted and Epoxy Painted, as required.

**STEEL PLANTS.**

Rolling Stock > Self Propelled Transfer Cars • Coke Oven Cars • Hot Metal Transfer Car with Ladles • Slag Ladle Car with Cup • Tundish Car and Transfer Car for Steel Melting Shop • Torpedo Ladle Cars • Charging Box Car for SMS • Coil Cars for Rolling Mills • Ingot Mould Cars.

Sinter Plants > Sinter Pallet Assemblies of unique design with Air Gap Sealing • Cast Steel Pallet Cars • Pallet Bodies.

Blast Furnace > Mini Blast Furnace • Blast Furnace Shells • Furnace Top Equipments • Mud Guns • Tap Hole Drills • Slag Stoppers • Tuyere Stocks • Cast House Runners • Metal and Slag Ladle Cars • Pig Casting Machines • Charging Equipments • Stove Valves • Dust Catcher equipment • Gas Cleaning equipment and Gas Holders.

Sponge Iron > Kilns • Coolers • After Burning Chambers • Dust Settling Chambers.

Steel Melting Shop > Ladles • Turntables • Ingot Mould Cars • Ladle Paw • Structure for Arc Furnace • Hot Metal Ladle Car • Transfer Car • Hot Metal Mixer.

Rolling Mills > Components for Hot Rolling Mill, Cold Rolling Mill, Bar & Section Mill and Wire Rod Mill • Roller Tables • Mill Stands and Chocks • Cooling Beds • Crop Shears • Deburring Rolls • Roll Changing Devices • Pinch Rollers.

Registered Office.

15th Floor, 1503 Modi Corporation
Hemkunt Tower, 98, Nehru Place
New Delhi - 110019.

Telephone

91.11.26414846, 26431347

Fax

91.11.26466303

Mail

delhi@simplexengg.in

Head Office and Works.

65, Industrial Estate, Bhilai - 490026
Chhattisgarh, India.

Telephone

91.788.2283054, 2283055, 2283056

Fax

91.788.2283058, 2283059

Mail

simplex@simplexengg.in



www.simplexengg.in



SIMPLEX ENGINEERING & FOUNDRY WORKS PRIVATE LIMITED

an ISO 9001:2008 company