



INDUSTRIAL CASTING CATALOGUE

S.G.I. graded castings, C.I. graded castings and commercial C.I. castings

Kadadra, Dehgam, Gandhinagar, Gujarat

COMPANY PROFILE | PRODUCTS | CAPABILITIES

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A clear view of Shree Ram Metal's manufacturing focus, representative castings and plant capability.

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Foundry manufacturing in Gandhinagar

Shree Ram Metal manufactures graded S.G.I. and C.I. castings together with commercial C.I. castings from its plant in Kadadra, Dehgam.



MANUFACTURING FOCUS

Custom casting enquiries reviewed against customer drawings, grade requirements, dimensions, approximate piece weight and quantity.

Plant address

Plot No. 17, Barfani Industrial Park, Village Kadadra, Ta. Dehgam, Dist. Gandhinagar - 382305

Casting range and single-piece capacity

The supplied company profile lists two melting routes and three primary casting categories.

150 KG

Induction furnace
single-piece capacity

300 KG

Induction furnace
single-piece capacity

7,000 KG

Cupola furnace
single-piece capacity

01 S.G.I. graded casting

Ductile iron casting requirements reviewed against the specified grade and drawing.

02 C.I. graded casting

Grey cast iron requirements for custom industrial geometries and component forms.

03 Commercial C.I. casting

General commercial castings manufactured to the buyer's confirmed requirement.

CI, SGI and commercial CI castings

Final grade, chemistry, mechanical properties and inspection requirements should be defined in the drawing or purchase specification.

01 S.G.I. / DUCTILE IRON

Used where the design calls for higher strength and ductility than conventional grey iron. The customer should specify the required grade, section thickness and test requirements.

02 C.I. / GREY CAST IRON

Commonly selected for vibration damping, compressive strength and machinability. The final grade and acceptance criteria follow the buyer's specification.

03 COMMERCIAL C.I.

Commercial castings for general industrial requirements. Suitability depends on the application, geometry, piece weight, quantity and finishing scope.

RFQ ESSENTIALS

Drawing, grade, dimensions, approximate piece weight, quantity and machining allowance

Machine base / frame casting

A large structural casting form with recessed sections, mounting points and a central opening.



VISIBLE FORM

Rectangular heavy base with pockets, ribs, mounting holes and a central square opening

ENQUIRY USE

Machine beds, base structures, support frames or other drawing-defined industrial assemblies

CONFIRM

Material grade, finished dimensions, machining faces, tolerances, piece weight and order quantity

Product name is descriptive. Final designation and suitability require the customer drawing.

Ring, bush and disc castings

Representative round casting forms that can be supplied for further machining against customer drawings.



VISIBLE FORMS

Rings, bushes, hubs, discs and stepped circular blanks

RFQ DIMENSIONS

Outer diameter, inner diameter, thickness, hub profile, machining allowance and quantity

MATERIAL

C.I. or S.G.I. grade to be confirmed through the drawing and purchase specification

Representative forms only. Exact geometry and acceptance criteria follow the approved drawing.

Wheel / pulley blank casting

A round hubbed casting blank intended for finishing or machining according to the required design.



VISIBLE FORM

Large circular blank with a raised central hub and bore provision

ENQUIRY USE

Pulley, wheel, flywheel or other round component blank subject to design confirmation

CONFIRM

Outer diameter, face width, hub and bore dimensions, grade, balance needs and machining scope

The final product name depends on the intended application and customer drawing.

Heavy structural castings

Shree Ram Metal accepts custom CI and SGI casting enquiries for drawing-defined industrial components.



A COMPLETE RFQ SHOULD INCLUDE

1. Part drawing and revision
2. Material grade or standard
3. Approximate casting weight
4. Required quantity and schedule
5. Machining and surface scope
6. Inspection and test requirements

Casting process

The exact route changes with material, geometry and the approved process plan.



- 01 Requirement review
- 02 Pattern and tooling readiness
- 03 Sand and core preparation
- 04 Melting and composition review
- 05 Pouring and controlled cooling
- 06 Knockout, cleaning and grinding
- 07 Inspection and dispatch

Melting and composition support

The supplied machinery profile lists induction and cupola melting together with carbon-silicon analysis.



150 KG

Induction furnace listed single-piece capacity

300 KG

Induction furnace listed single-piece capacity

7,000 KG

Cupola furnace listed single-piece capacity

CARBON SILICON ANALYZER

Listed in the company machinery profile as composition-analysis support during foundry production.

Exact furnace models, power ratings and laboratory scope were not specified in the supplied profile.

Moulding, cleaning, finishing and handling

The production setup covers major operations around sand preparation, shakeout, surface cleaning and casting handling.

01 Shot blasting machine

Casting surface cleaning

02 Core shut machine

Core-related foundry work

03 Sand mixer machine

Sand preparation

04 Knockout machine

Post-casting shakeout

05 Air compressor

Pneumatic support

06 Crane

Mould and casting handling

07 Grinding machines

Grinding and hand finishing

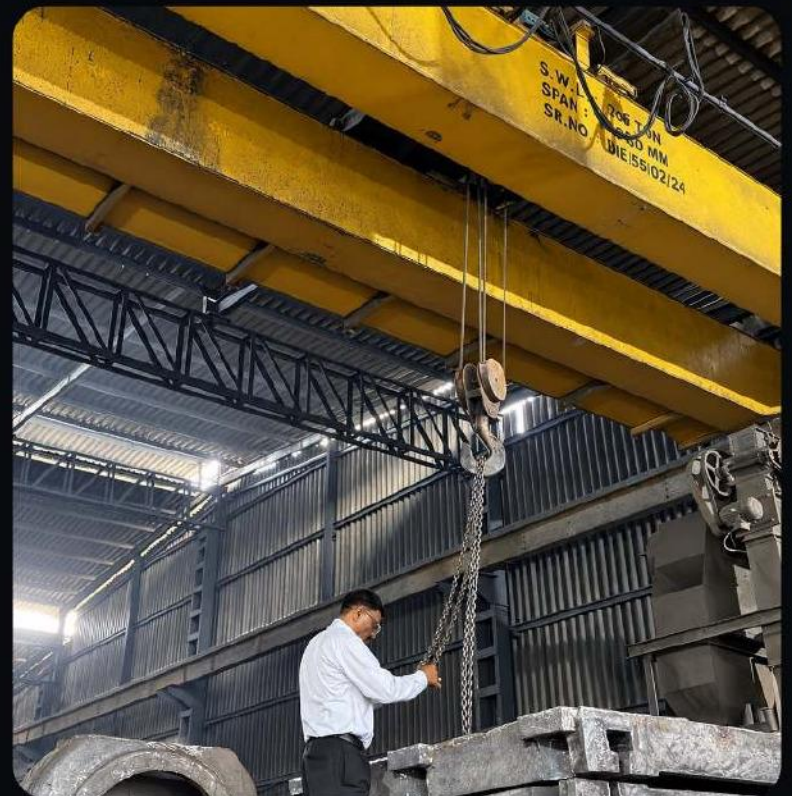


Inside the foundry

Actual production photographs supplied for Shree Ram Metal.



Sand mould preparation



EOT crane and heavy handling



Moulding flasks and production floor

Controls defined around the drawing

Inspection depth and documentation should be agreed for each casting grade, geometry and end use.



01	Requirement review	Drawing revision, grade, dimensions, quantity and acceptance criteria
02	Composition support	Carbon-silicon analysis equipment listed in the machinery profile
03	Process checks	Mould, melt, pouring and cooling controls according to the part route
04	Casting review	Visual and dimensional checks as agreed with the buyer
05	Cleaning and finishing	Shot blasting, grinding and hand grinding equipment listed
06	Dispatch requirements	Reports, traceability or third-party tests to be confirmed in the order

Casting enquiries across industrial sectors

The plant's CI and SGI capability can be evaluated for drawing-led components across a range of industrial applications.

01 MACHINE TOOLS

Beds, bases, supports and structural frames

02 PUMPS AND VALVES

Bodies, housings, covers and round forms

03 AIR EQUIPMENT

Industrial housings and machine components

04 POWER TRANSMISSION

Pulley, wheel, hub and gearbox forms

05 AGRICULTURAL EQUIPMENT

Custom brackets, housings and wear components

06 GENERAL ENGINEERING

Drawing-defined commercial and graded castings

Application suitability requires drawing, grade and service-condition review.

Industrial customers listed in the company profile

Reference names are reproduced from the supplied Shree Ram Metal company profile.

01 ACME AIR EQUIPMENT Ahmedabad

02 DEV INDUSTRIES Vijapur

03 AQUA MACHINERY PVT LTD Ahmedabad

04 MOULD INDIA ENGINEERING Baroda

05 SHREE KHODAL ALLOYS Ahmedabad

Client logos and trademarks are intentionally omitted.

Information needed for a focused casting review

A complete enquiry helps the foundry assess material, tooling, process route, finishing and commercial feasibility.

- | | | |
|----|----------------------------------|--|
| 01 | Part name and application | Explain where the casting will be used and any critical service condition. |
| 02 | Drawing and revision | Provide a clear 2D or 3D drawing with dimensions and the current revision. |
| 03 | Material grade | Specify CI or SGI grade, governing standard and any chemistry or property requirement. |
| 04 | Weight and quantity | State approximate casting weight, trial quantity and expected production volume. |
| 05 | Machining and finish | Identify machining surfaces, allowance, coating or surface-cleaning expectations. |
| 06 | Inspection and delivery | Define tests, reports, packing, destination and required schedule. |

Send the drawing with grade, weight, quantity and machining scope.



DISCUSS YOUR CASTING REQUIREMENT

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GST

24ACLPT0400A1ZB

S.G.I. & C.I. GRADED CASTINGS | COMMERCIAL C.I. CASTINGS