

SHREE KUMARAN ALLOYS

COMPANY PROFILE

12.03.2020



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Foundry Address

SF No. 461, Telungupalayam Road
Ellapalayam Post
Coimbatore – 641 697
Phone: 04254 – 292235

Regd Office

66-I, Sanganoor Road
Ganapathy, Coimbatore - 641 006

Email: ska@shreekumaranalloys.com

www.shreekumaranalloys.com

COMPANY PROFILE

GENERAL INFORMATION :

Company Name	Shree Kumaran Alloys
Address Foundry	SF No.461, Telungupalayam Road Ellapalayam Post, Coimbatore – 641 697 Phone : +91 4254 292235 Email : ska@shreekumaranalloys.com marketing@shreekumaranalloys.com qa@shreekumaranalloys.com production@shreekumaranalloys.com fetlling@shreekumaranalloys.com
Address Regd Office	66-I, Sanganoor Road Ganapathy Coimabatore – 641 006
Contact Person	V.Rajappan, Partner Mobile: 96009 30459
Type of Company	Partnership
Date of Establishment	14.02.2005
Registrations	GST - 33ABFFS0702H1ZN ECC - ABFFS0702HXM001 dt 09.08.2006 SSI - 33 012 12 04568 (EM Number) ROC - 20050117 IEC - 3206003521 Insp. of Factories – CB 12886
Total Area	1,20,000 Sq. Ft. (2.75 Acres)
Built Up Area	35,740 Sq. Ft

Sanctioned Load 700 KVA

MELTING FACILITIES:

Type of Furnace	Medium Frequency Induction Furnace
Make	Megatherm Electronics, Kolkata
Power Rating	400 KW
Melting Crucibles	1500 Kg – 1 No (Melting up to 1220 kg) 500 Kg - 1 No (Melting up to 400 kg)
Type of Lining	Basic Mg. O /Neutral
Max Wt of Liquid Metal	per heat 1300 kg
Ladle Preheating	Gas fired Ladle Pre-heater – 1 No
Ladles	1500 Kg Capacity Gear Operated tea spout 1 No 1500 Kg bottom pouring Gear Operated 1 No 700 kg bottom pouring Gear Operated 1 No 500 Kg Capacity Gear Operated 2 No's 250 Kg Crane Supported 1 No 100 / 80 / 60 Kg Hand Shanks 2 No's
Temperature Measurement	Immersion Pyrometer 2 No's

MOULDING FACILITIES :

Sand Mixing	Omega Sand plant Spartan III (20Ton/Hour)
Mould Making Moulding Boxes	Omega Compact Table 750X1500 with small Loop system Assorted sizes up to 2000 x 2000 x 400 mm
Processes	Resin process (No-Bake process -Alpha Set)
Cake Moulding Sand Plant	Up to 600 x 600 x 200 mm Omega make full-fledged sand mixer with temperature

Controller, capacity 20 MTPH with change over switch for

Facing + Backing sand +blending

CORE HEATING OVEN

Size 1200 x 1000 x 1000 (0-400 °C max)

HEAT TREATMENT (1):

Furnace Type	Electric Bogie Hearth
Capacity	2.5 Ton
Rating	100 KW
Bogie Movement	Motorized with drum and pulley.
Chamber Size	1800 x 1200 x 1000 mm
Maximum Temperature	1200 °C
No. of Zones	2
Type of Control	PID
Recorder	Brain child Paperless Time Temperature Recorder
Type of Processes	Annealing, Normalizing, Solution Annealing, Water Quenching, Tempering, Stress Relieving.
Quenching Facilities	30000 Liters capacity Quenching Tank with sub-mergeable agitated
Calibration	Furnace calibrated as per API 6A Appendix M, ASTM A 991, Norsok M 650 Rev 4 Under TUV & IBR witness. - Once in a year. Thermocouples, PID Controllers and Recorder Calibrated once in 3 months.

HEAT TREATMENT (2):

Furnace Type	Gas Fired Heat Treatment Furnace
Capacity	4 Ton
Bogie Movement	Motorized with drum and pulley.
Chamber Size	2000 x 1550 x 1100 mm
Maximum Temperature	1250 °C
No. of Zones	2
Type of Control	PID
Recorder	Brain child Paperless Time Temperature Recorder
Type of Processes	Annealing, Normalizing, Solution Annealing, Water Quenching, Tempering, Stress Relieving.
Quenching Facilities	30000 Lit capacity Quenching Tank.
Calibration	Furnace calibrated as per API 6A Appendix M ASTM A 991, Norsok M650 annex B-Edition 4 under DNV, IBR witness.- Once in a year. Thermocouples, PID Controllers and Recorder Calibrated once in 3 months.

FETTLING FACILTIES :

Swing Grinder	3 Nos
Flexible Shaft Grinders	25 Nos
Pneumatic Grinder	1 No.
Die Grinders	5 Nos

Shot Blasting Double Impeller Double Door Closed Loop Conveyor
Type (Capacity 1000 kg)

CASTING UPGRADATION:

Welding Facilities	600 A Welding Rectifier	3No.
	400 A Welding Transformer	1 No.
	600 A Welding Inverter	2 Nos
	400 A Welding Inverter	1 No
Electrode Preheating	Electrode Drying Oven - 300°C	3 No
Qualifications	1.06919/WCB,1.6220/ LCB, 1.4408/CF8M, 1.7357/WC6 1.7379/WC9, 1.4470/ 4A, 1.4469/5A,1.4417/ 6A, C12A , C12, CA15, CA6NM, ,CN7M ,CK3MCuN,CW6MC,60K and Cu5MCu C Qualified under TUV Nord /DNV/TUV Sud Witness (ASME SEC IX) and BS EN 15614-1 & BS EN 11970)	

INSPECTION & TESTING:

Chemical Analysis	38 Direct Reading Spectrometer with Fe & Ni bases And Ultra Low N Channel	
Sand Testing	Sieve Shaker Core Hardness Tester Compression Strength Test Permeability Test	
Casting Simulation	Z-CAST PRO (DHIO Research & Engineering Pvt .Ltd)	
Mechanical Testing	40 Tons Capacity Universal Testing Machine with Electronic extensometer 300 J Impact Testing Machine (V & U Notch) Calibrated by TUV & IBR Witness. Dynamic Hardness Tester Brinell Hardness Testing	
Others	Radiographic Film Viewer	

Dimensional Inspection	Surface Table for Layout Marking. Vernier Height Gauge 300 mm -1 600mm -1, 1000mm-1 Vernier Calipers 600mm, 300mm, 150mm Micrometers - Up to 300mm Inside / Outside Calipers Pistol Caliper 50mm -1 No. Pistol Caliper 150mm -1 No
Testing Facilities	IGC Testing Equipment (Practice B & E)

NON-DESTRUCTIVE EVALUATION :

Dye Penetrate Test Kit	Available
Magnetic Particle Inspection	1500 Amps Prod Type - 1 No. Yoke Type – 1 No UVA Light Meter model UVA-365
Radiography	Reputed subcontract sources available nearby. Ultrasonic Flaw detector Model AS 414

PATTERN SHOP :

In – House facilities for Pattern Mounting, Storage, Repair and Maintenance available.

MATERIAL HANDLING AND OTHER EQUIPMENT :

Material Handling	3 Ton SWL EOT Crane – 3 Nos 5 Ton SWL EOT Crane – 1 No 1 Ton Crane – 2 Nos. Battery operated 1 Ton Fork Lift -1 Nos
Compressor	7.5HP Compressor– 1 No 15 HP Compressor– 1 No 30 HP Compressor– 1 No
Muffle Furnace	4 X 4 x 12 Chamber - 1 No.
Standby Power	500 KVA Diesel Genset – 1 No. 125 KVA Diesel Genset – 1 No

SINGLE PIECE CAPACITY

Maximum 1220 Kg Single Piece. Size upto 2000x2000x1000mm

Minimum 25 Kg

PRESSURE CL RATING:

Minimum 4” to 8” 150/300/600/900/1500/2500 Body castings
10” to 12” 150/300/600/2500 Body castings

Maximum 14” to 16” 150/300/1500 Body castings

MATERIALS CAST:

ASTM A216 Grades WCA, WCB, WCC
ASTM A217 Grades WC6, WC9, C5, C12, C12A, CA15
ASTM A297 Grades HK, HH, HI
ASTM A351 Grades CF8,CF8C CF8M, CF3, CF3M, CF8C,CG8M, .
. CN7M, CD4MCu,
ASTM A352 Grades LCB, LCC, CA6NM
ASTM A487 Grades 60K, 75K
ASTM A 494 Grade Cu5MCuC (Inconel 825), CW6MC (Inconel 625)
ASTM A890 Grades 4A, 5A, 6A, 7A, 3A, 1B
IS276 Grades I, II, III, IV, V, VI, VII
IS2707 Grade I,II
IS2702 Grade I,II
EN standard 1.4112,1.4581,1.7357,1.0619,1.4408,Gs20Mn5,Gs21Mn5,
Gs24Mn6VII,Gs25CrMo4V1,Gs60,gs28mn6
Engineering Grades EN8, EN9, EN19, EN24, EN353,AISI 8620 etc.

CERTIFICATIONS AND APPROVALS :

Indian Boiler Regulation Well Known Foundry Valid until July 2020.
Approved for supply of castings upto 900 Kg single piece.

ISO 9001:2015 Certified by TUV. Valid until 11.12.2021

2014/68/EU Certified by TUV. Valid Until July , 2022

Norsok M650	Approved for supply of castings upto 1220 Kg single piece. Certified by DNV valid until 18 Mar 2024
API 20 A	Under progress
ISO 14001 and ISO 45001:2018	Under progress

FUTURE PLANS :

Infrastructure	Commissioning of 2000 kg crucible & Machine shop
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LIST OF MAJOR CUSTOMERS :

<ul style="list-style-type: none"> ■ M/s. Karmen International P Ltd, Chennai Coimbatore (Unit 1,II, III) 	DUO Check valve, Hub Extension Bodies and Plates
<ul style="list-style-type: none"> ■ Ampo Valves Limited ,India, Spain 	Gate, Globe, Check Valve Body and Bonnet Castings
<ul style="list-style-type: none"> ■ M/s. L & T Valves Ltd., Coimbatore 	Gate, Globe, Check Valve Body and Bonnet Castings
<ul style="list-style-type: none"> ■ M/s BHEL, Trichy 	OFE,TOA,QCNRV,NRFV Body castings
<ul style="list-style-type: none"> ■ M/s NLC ,Neyveli 	Bottom Roller ,CAM
<ul style="list-style-type: none"> ■ M/s. Sungov Engineering P Ltd, Chennai 	Strainer Valve Body and Cover castings
<ul style="list-style-type: none"> ■ M/s. Toshniwal Hyvac P Ltd, Chennai 	Housing and Cover Castings for Flow Meter Applications
<ul style="list-style-type: none"> ■ BEML Ltd., Mysore 	Earth Moving Equipment & Its Components
<ul style="list-style-type: none"> ■ Hofmann Engineering Pty. Ltd., Aus 	Mining Equipment, Valve Bodies
<ul style="list-style-type: none"> ■ CIRCOR International Inc 	Control valve bodies