



OVERVIEW & TECHNICAL CAPABILITIES (UNIT-1)

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Iron castings Manufacturing unit..

OVERVIEW

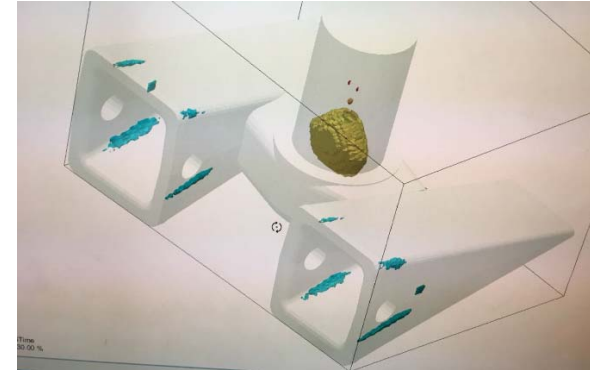
- SCF (Unit-1) is a leading Iron foundry located in the Jeddah, KSA
- A growing annual capacity of 10,000 Tons
- Specialists in engineered-to-order castings for construction, infrastructure, pumps, Mining & Engineering.
- Our wide spectrum of grades include: Cast Iron, Ductile Iron, alloy Cast Iron including Ni-hard and Manganese Steel
- Castings produced from 10 Kg (22 lbs.) to 2250 Kgs (4,950 lbs.) net weight in both rough and fully machined condition
- SCF lead times are short to most parts of the world
- Industry needed accreditations, approvals.
- We respond to changing industry demands by making speedy investments in the latest technologies
- ISO9001:2015 certified unit



“Commit Right, Deliver Right”

ENGINEERING

- SCF uses sophisticated computer aided design applications...
 - Pro Engineer
 - Solid Works
- Our seasoned team of Engineers help
 - Predict performance
 - Detect potential defects
- Successfully leveraged our design capabilities to execute critical projects in challenging material grades



Sophisticated casting design capabilities...

PATTERN MAKING & STORAGE

- In-house pattern design manufacturing
- Equipped with 3axis-CNC Flexicam machine
- SCF is enabled with 3D modeling capabilities
- We use high quality plywood for long life & to minimize deformation
- We store customer patterns properly;
- SCF has established a sizeable pattern mounting workforce
- We adapt customer patterns for production at SCF



In house pattern design & manufacturing...

MOULDING

- Molding lines are automatic DISA and Furan sand system favors high volume continuous production, 30 moulds / hour.
- Plants are equipped with heavy duty cranes for the movement of molten metal
- Up to 2.25 MT net weight castings
- SCF uses silica sand along with chromite sand at the surface of the mould to:
 - Impart superior quality
 - Better surface finish to the castings
- Equipped with two Mechanical sand reclamation unit to boost casting quality and enable cost-efficient production by recycling of sand



High volume continuous production....

MELTING

MELTING CAPABILITIES

- 1 x 2200 kgs Inductotherm coreless induction furnace
- 1 x 1200 kgs Inductotherm coreless induction furnace
- 1 x 500 kgs Inductotherm coreless induction furnace
- Cast Iron, Ductile Iron, alloy Cast Iron including Ni-hard and Manganese Steel



Consistent melting expertise...

HEAT TREATMENT

- SCF Heat treatment capabilities includes PLC controlled Electric furnaces for:
 - Stress relieving
- Furnaces of loading capacity 3 Ton and chamber size 1.2 m x 3.5 m x 1 m height



Fully Automatic heat treatment operations...

NDT

- SCF provides a one stop solution for all NDT services:
 - Visual Inspection (VT)
 - Dye penetrant testing (DPT)
 - Ultrasonic testing (UT)
- NDT Examiner with **Level III** in ASNT & EN ISO 9712 Qualification
- NDT Operators qualified to ANSI Level 2 for RT, UT, VT, & DP
- Ultrasonic examination by DAC & DGS methods



Adapting to industry demands...

LAB TESTING

- Complete metallurgical sample preparation & evaluation equipment
- Comprehensive mechanical properties testing.
- Metallurgical examination of microstructures, gas content & impact properties to measure & improve upon mechanical (toughness) and corrosion resistance properties
- SCF is equipped to do all chemical and mechanical testing for most specifications needed in the industry
- Positive Material Identification
- Industry approvals & accreditations
- 3rd party inspection coordination



State of the art lab testing facilities...