



ALLOY STEEL CASTINGS LTD.

FOR SPECIAL STEEL CASTINGS

CASTING EXCELLENCE ON CALL IN AFRICA



Throughout East and Central Africa, the EAFW group dominates the field of industrial spare-part requirement within the vast manufacturing sectors including Transport, Mining, Agriculture and process industries.

Alloy Steel Castings Limited, a part of the EAFW group, is a steel foundry and machine shop established in 1990 to cater for the growing demand for both machined and as-cast steel castings in the global market

Alloy Steel Castings Limited., or ASC, as is commonly known, is situated on a 7-acre industrial plot with a built-up area of 40,000 square feet. ASC began commercial production during the second half of 1990. Over the years, it has earned an enviable reputation as the only supplier in East African region for various specialized castings and machined components, satisfying customers both in terms of quality and delivery. ASC often works in conjunction with the clients in meeting quality standards to suit their local working conditions.

Alloy Steel Castings Limited is now the first choice of Industrial professionals for quality, on-time-delivery and reliability.



ALLOY STEEL CASTINGS LTD.



THE MANUFACTURING FACILITY

PATTERN SHOP



Well equipped wood and metal working machines for manufacturing all in-house requirements of Patterns.

MELTING



- 450 KW Medium Frequency Induction Furnace with 2 cubicles of 1000 kg. Capacity each.
- Ladle Pre-heater with tea spout Ladles.
- Calibrated "Immersion Type" Pyrometer.
- Overhead EOT Cranes for material handling.

MOULDING

- Semi-Automatic 10 Tons/Hr continuous mixer.
- 10 Tons/Hr Sand Reclamation Plant.
- 6 Tons/Hr Sand Classifier Unit.
- Shell Core Shooter.
- Fully Equipped Sand Testing Laboratory.



FETTLING



- 2 units Ceramic Lined 3-Ton batch capacity Heat Treatment Furnaces with automatic temperature controllers calibrated to API standards.
- Electric & Pneumatic high capacity Grinders.
- Welding Rectifiers.

ALLOY STEEL



THE MACHINING FACILITY



EAFW group started as a small Engineering Machine Shop in 1972. It has grown today to have the largest machining facility within East & Central Africa. The facility of 102 machines include the following:

- 45 Conventional Lathe Machines.
- 3 CNC Lathe Machines.
- 4 Vertical Lathe Machines.
- 2 Horizontal Boring Machines.
- 11 Conventional Milling Machines.
- 2 CNC Machining Centres.
- Cylindrical Grinding Machines.
- Planers & Shapers.
- Gear cutting and tooth grinding equipment.
- Drilling and Grinding machines.



CASTINGS LTD.



THE PRODUCT SPECIFICATIONS & PRODUCTION CAPACITY

ASC has a capacity of manufacturing castings, weight ranging from 2 kilograms to 600 kilograms a single piece.

The castings can be made to any of the following specification:

CARBON STEEL & LOW ALLOY STEEL

SPECIFICATIONS	GRADES	APPLICATIONS
ASTM A27 / A27M / A148 / A148M	Ranging from 60-30 to 115-95	Structural & high tensile steel - Machinery parts
ASTM A216 / A216M	WCA WCB WCC	Valves & Fittings - Pressure containing
ASTM A217 / A217M	WC6 WC9 C5 CA15	Ferritic Steel - Pressure containing
ASTM A352 / A352M	LCA LCB CA6NM	Ferritic & Martensitic Steel - Pressure containing
ASTM A487 / A487M	4N 4Q	Martensitic Steel - Oil fields & related applications

HIGH ALLOY STEELS

SPECIFICATIONS	GRADES	APPLICATIONS
ASTM A128 / A128M	C E2	Austenitic Manganese steel - Wear resistant
ASTM A297 / A 297 M	HD HH HK HT HU	Iron, Chromium, Nickel Steel - Heat resistant
ASTM A351 / A351M	CF3 CF3M CF8 CH20	Austenitic Stainless Steel - Corrosion resistant

ALLOY IRONS

SPECIFICATIONS	GRADES	APPLICATIONS
ASTM A532	Class II - Type A, B & D	High Chromium Alloy Irons - Wear resistant
ASTM A536	65 - 45 - 12	Ductile Iron - Machinery parts



ASC'S QUALITY POLICY

To continuously strive and achieve Total quality Performance in meeting the quality requirements of our customers at the
Committed delivery. Total Quality Performance means understanding who the customers is, what the
requirements are and meeting the requirements.

ASC'S QUALITY OBJECTIVES

Develop a system to undertake and fulfil requirements of external and internal customers on a sustained basis.

Improve Quality Control & Production facilities and process for better Quality and higher productivity.

Ensure cost reduction by maximizing usage, minimizing wastage and reducing re-work.

Minimize dependence on inspection.

Training employees to make them Quality conscious and educate them of their role in the quality system.

Ensure safety, cleanliness and good housekeeping.



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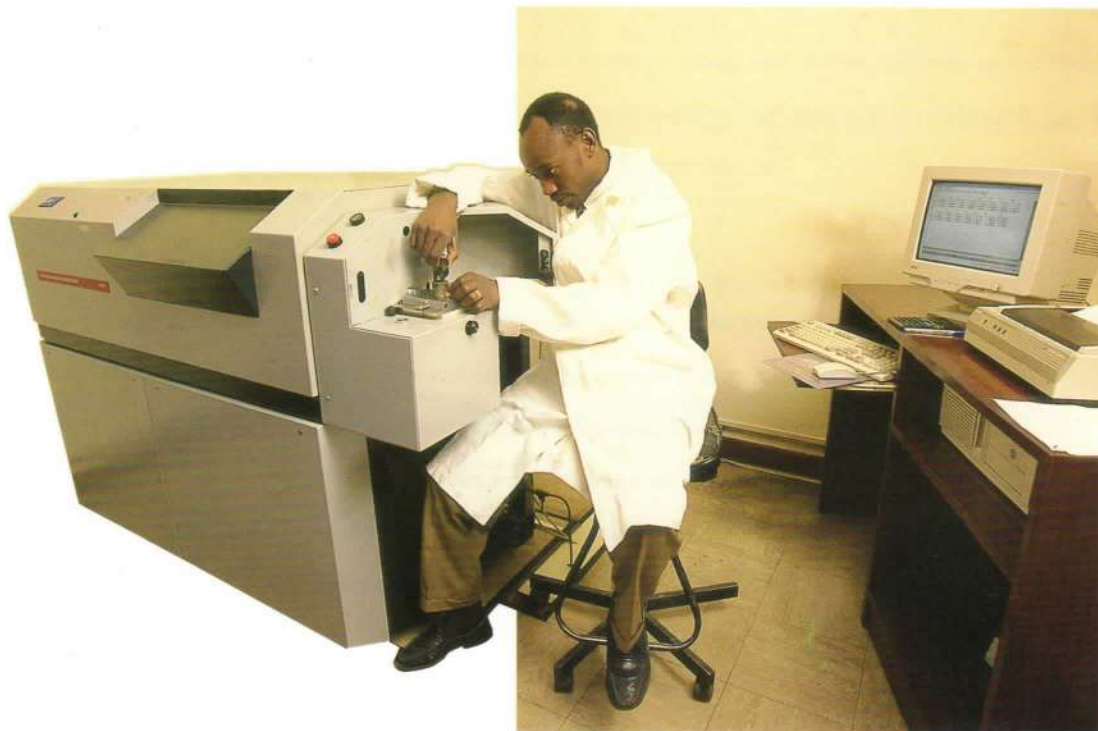
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THE INSPECTION AND TESTING



- Visual inspection
- Dimensional Inspection
- Mechanical Testing
- Ultimate Tensile, Yield Strength and Elongation & Notch-Impact Testing
- Bench & Portable Hardness Testers
- Vacuum Emission spectrometer



NON DESTRUCTIVE TESTING

- Ultrasonic Testing
- Magnetic Particle Testing
- Dye Penetrant Testing
- Radiographic Testing
- Pressure Testing

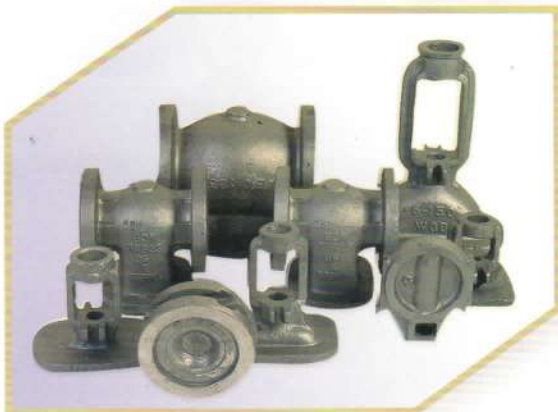


ALLOY STEEL CASTINGS LTD.



THE PRODUCT PROFILE

Being a jobbing foundry, ASC, in general, manufactures to the product and material specification requirement of customers and in particular, focuses on the products such as gate, globe, and control valves, to name a few. These products are supplied either in as-cast or in fully machined condition.



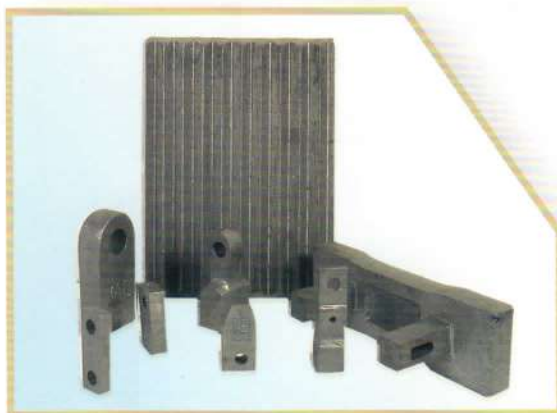
PRESSURE TIGHT APPLICATIONS:

Gate, Globe, Safety,
Knife Gate, Control Valves and components.



HIGH WEAR RESISTANT APPLICATIONS:

High Chromium , Mill Segment Liners



ABRASION RESISTANT APPLICATIONS:

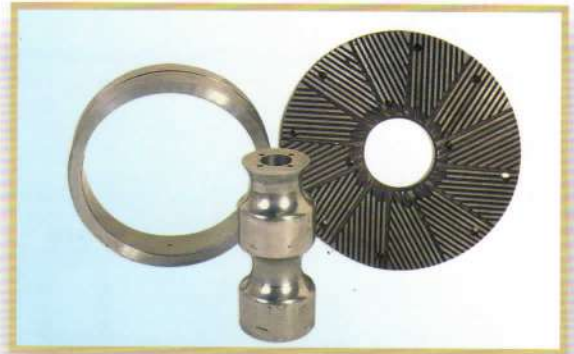
Mill Liners, Crusher Jaws,
Tooth Points, Hammers



THE PRODUCT PROFILE



**TRANSPORT
APPLICATIONS:**
Bell housing, Brake drum.



**ABRASION RESISTANT
APPLICATION:**
Refiner disc, Crushing dies.



GENERAL ENGINEERING ITEMS:
Bearing bushes, Housings, Coffee disc, Casings,
Twist lock pin, Hubs



**CORROSION RESISTANT
APPLICATIONS:**
Impeller, CTC ring, Sprockets.

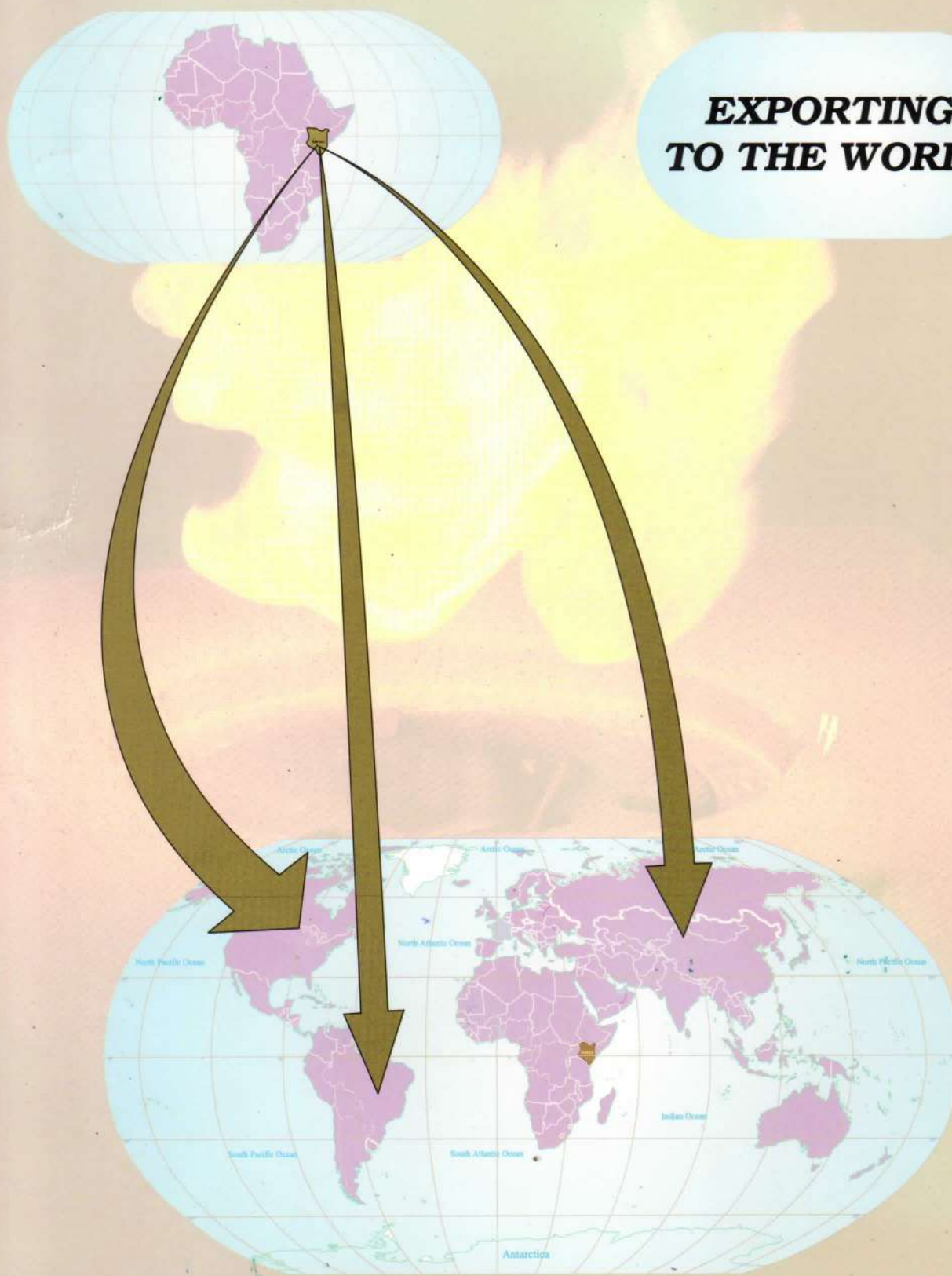


**HEAT RESISTANT
APPLICATIONS:**
Nose ring segment, Trays.

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EXPORTING TO THE WORLD



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