

STEEL STARTS WITH THE RIGHT ALLOY.

Ferro alloys, refractories, consumables and industrial spares — genuine products from the world's leading brands, from ready stock, across three countries.

PRODUCTS FOR ALL YOUR STEEL NEEDS

AMA — Advanced Metal Alloys is a **market leader** and one of the **biggest importers and stockists** of ferro alloys and steel industry supplies in the region — with huge clean warehouses in **Riyadh** and branches in **Cairo** and **Dubai**.

45+	05	03	03
PRODUCTS IN RANGE	PRODUCT LINES	BRANCHES	COUNTRIES SERVED

THE RANGE AT A GLANCE

01 Ferro Alloys The melt — silicon, manganese & chromium alloys	02 Ladle & Tundish Refractories The vessel — nozzles, plates & blocks	03 Steelmaking Consumables The process — additives & reactants	04 Ladle Spares The hardware — slide gate components	05 Mechanical & Electrical Spares The plant — supplementary & control parts
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Every product is sourced from the world's leading brands — see [Supply Partners](#) — and laboratory-verified before dispatch from our Riyadh warehouses.

01	4	02	5
The Company		Global Presence	
Who we are, what we stock, how we work		Riyadh — Cairo — Dubai	
03	6	04	7
Vision & Mission		Supply Partners	
What drives us		Sourcing from the world's leading brands	
05	8	06	10
Ferro Alloys		Ladle & Tundish Refractories	
8 products — the melt		8 products — the vessel	
07	12	08	15
Steelmaking Consumables		Ladle Spares	
16 products — the process		4 products — the hardware	
09	16	10	18
Mechanical & Electrical Spares		Quality & Service	
9 products — the plant		Tested, certified, dispatched	
11	19		
Contact			
One call covers all your steel needs			

ADVANCED METAL ALLOYS (AMA) • Commercial Registration **7050976880** • Riyadh, Kingdom of Saudi Arabia

We supply a complete range of products for every stage of steel production — from **ferro alloys** that set the exact chemistry of the melt, to **ladle and tundish refractories**, **consumables**, and **mechanical & electrical spares**. One supplier, one call, everything the steel plant needs.

Our customers are steel foundries, reheating furnaces and rolling mills across **Saudi Arabia, Egypt and the United Arab Emirates**. With deep ready stock in our Riyadh warehouses, we dispatch immediately — so production never stops.



RIYADH WAREHOUSES — CLEAN, ORGANIZED, DEEP STOCK



SERVING MELT SHOPS, FURNACES & ROLLING MILLS

01

Huge ready stock

Massive, clean warehouses in Riyadh keep deep inventory across all product lines.

02

Immediate dispatch

Orders ship without delay, keeping furnaces and rolling lines running.

03

Certified quality

Laboratory-tested products with proper test certificates; every batch checked before dispatch.

04

Complete range

Alloys, refractories, consumables and spares from a single reliable source.

From our headquarters and main warehouses in **Riyadh**, we operate a regional supply network that covers Saudi Arabia, Egypt and the United Arab Emirates — with local teams, local stock knowledge and prompt response in every market.

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BRANCH OFFICE & TRADE
HUB



RIYADH — KINGDOM OF SAUDI ARABIA



CAIRO — ARAB REPUBLIC OF EGYPT



DUBAI — UNITED ARAB EMIRATES

KSA

Home market leadership

Among the biggest importers and stockists serving the Kingdom's steel industry.

MENA

Regional reach

Cross-border logistics into Egypt and the UAE with immediate dispatch from ready stock.

To be the **first name** the steel industry thinks of — for **quality**, **availability** and **service** — anywhere in the Middle East.

03

COUNTRIES

03

BRANCHES

45+

PRODUCTS IN RANGE

05

PRODUCT LINES

MISSION

Certified products, from ready stock, at competitive prices — dispatched immediately, supported always.

PROMISE

Your production never stops. What you need is already on our shelves.

STANDARD

Every batch laboratory-tested, certified and quality-checked before dispatch.

AMA does not just trade — we **source**. Our range is built on genuine products from the **biggest international brands** in refractories, ferro alloys and industrial systems — original quality, full batch traceability, and ready stock in Riyadh.

REFRACTORIES & FLOW CONTROL

VESUVIUS



FERRO ALLOYS & METALS



PLANT & INDUSTRIAL SYSTEMS



SIEMENS

01

Original quality

Genuine products from the manufacturers' approved supply chains — no grey-market material.

02

Full traceability

Every batch documented and traceable back to its source, with test certificates on delivery.

03

Ready stock

Brand-name products held in depth at our Riyadh warehouses for immediate dispatch.

WHY IT MATTERS

Original brands • Genuine products • Traceable batches • Ready stock

Ferro Alloys

Alloys of iron with a high percentage of silicon, manganese or chromium — added to liquid metal during steel production to achieve the exact chemical composition required.

01



Silico Manganese

A combined deoxidizer and alloying agent that adds manganese and silicon to molten steel in one step, improving strength, toughness and deoxidation efficiency.

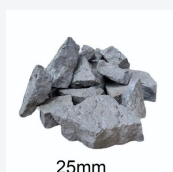
- Mn: 60% – 72%
- Si: 14% – 16% Min
- P: 0.20 – 0.35% Max
- C: 2.00 – 2.25% Max
- S: 0.03 – 0.05% Max
- Lump sizes: 10–50, 10–60, 10–100, 25–150 mm



High Carbon Ferro Manganese

The standard manganese additive for steelmaking — boosts hardness and wear resistance while acting as a powerful deoxidizer and desulfurizer.

- Mn: 65% – 80% Min
- Si: 1.5% Max
- C: 6 – 8%
- P: 0.10 – 0.35% Max
- S: 0.05% Max
- Lumps: 10–50, 10–60, 10–100, 25–150 mm • Granules: 1–4 mm • Fines: 0–1 mm

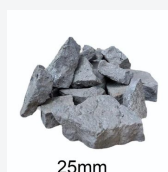


25mm

Medium Carbon Ferro Manganese

Used where manganese addition is required with controlled carbon pick-up — ideal for medium-carbon and alloy steel grades.

- Mn: 75% – 80% Min
- Si: 1.0 – 1.5% Max
- C: 1 – 2% Max
- P: 0.20 – 0.35% Max
- S: 0.03 – 0.04% Max
- Lump sizes: 10–50, 10–60, 10–100 mm



25mm

Low Carbon Ferro Manganese

High-purity manganese source for low-carbon, stainless and special steel grades where carbon contamination must be minimized.

- Mn: 80% Min
- Si: 1.5 – 2.0% Max
- C: 0.5 – 1.0% Max
- P: 0.20 – 0.35% Max
- S: 0.03 – 0.04% Max
- Lump sizes: 10–50, 10–60, 10–100 mm

Custom grades, sizes and packing on request — every batch laboratory-verified before dispatch.



Ferro Silicon

The most widely used deoxidizer in steelmaking and a key silicon source for electrical, spring and structural steels — also used as an inoculant base in cast iron.

- Si: 65% – 75% Min
- C: 0.10 – 0.2% Max
- Al: 0.5 – 2% Max
- S: 0.05% Max
- P: 0.05% Max
- Lumps: 10–50, 10–80, 10–100, 25–150 mm • Granules: 2–15, 3–10 mm • Fines: 0–0.5, 0–1 mm



Ferro Silico Magnesium

The essential nodulizer for ductile (SG) iron production — transforms graphite flakes into spheroids, giving castings high strength and ductility.

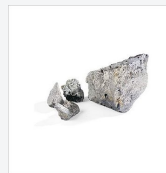
- Si: 43 – 55% Min
- Mg: 5 – 7% / 8 – 10%
- Al: 1% Max
- C: 0.20% Max
- RE: 1 – 2%
- Ca: 1 – 2%
- Sizes: 5–12, 5–20 mm



High Carbon Ferro Chrome

The main chromium source for stainless and heat-resistant steels — delivers hardness, corrosion and oxidation resistance.

- Cr: 60% – 75% Min
- Si: 1 – 4% Max
- C: 6 – 9% Max
- S: 0.05% Max
- P: 0.04% Max
- Lumps: 10–50, 10–80, 10–100, 10–150 mm • Chips: 3–30, 10–30 mm • Fines: 0–3, 0–10 mm



Medium & Low Carbon Ferro Chrome

Refined grades for low-carbon stainless and specialty steels — available down to ultra-low carbon levels for the most demanding specifications.

- Cr: 60% Min
- C: 0.10% Max (LC) • 0.05% (Extra LC) • 0.03% (Ultra LC)
- P: 0.05% Max
- S: 0.03% Max
- Si: 1.0 – 1.5% Max
- Size: 10–50 mm



FERRO SILICON — LUMPS, GRANULES & FINES



HIGH CARBON FERRO CHROME — EX-STOCK



SILICO MANGANESE — ALL STANDARD SIZES

Standard sizes ex-stock — supplied in 25 kg bags, 1 t jumbo bags or bulk, palletized and shrink-wrapped for export; non-standard chemistry produced to order with mill test certificates.

Ladle & Tundish Refractories

Specialized heat-resistant materials lining the vessels that contain molten steel during transport and casting — protecting equipment and keeping the metal free from contamination.

02



Collector Nozzle

Bottom refractory nozzle fitted beneath the slide gate plates, guiding the steel stream from the ladle into the tundish with a stable, turbulence-free flow.

- High-alumina / zirconia refractory body
- Excellent erosion & thermal-shock resistance
- Matches standard slide gate systems (1QC / 2QC)
- Bore sizes per customer requirement



Composite Nozzle

Multi-material nozzle engineered with a zirconia insert at the bore for extended service life in long casting sequences.

- Composite body with zirconia core
- Extended heats per nozzle
- High resistance to slag attack
- Custom lengths and bores available



Ladle Nozzle

Upper nozzle seated in the ladle well block — the primary channel through which molten steel exits the ladle toward the slide gate system.

- Alumina-carbon / high-alumina grades
- Precise bore tolerance for flow control
- Thermal-shock resistant design
- Compatible with all common ladle sizes



Ladle Well Block

Refractory block set into the ladle bottom that seats and aligns the upper nozzle, absorbing the highest thermal and mechanical stresses in the ladle.

- High-alumina / magnesia compositions
- Precision-machined seating
- Long campaign life
- Shapes per ladle design



Porous Plug

Argon purging plug installed in the ladle bottom — injects inert gas to homogenize temperature and chemistry and float out inclusions for cleaner steel.

- Porous / slit-type designs
- High gas-flow stability
- Corundum-based refractory
- Withstands repeated thermal cycling



Slide Gate Plate

The flow-control valve of the ladle — upper and lower plates slide against each other to start, throttle and stop the steel stream with absolute reliability.

- Alumina-carbon / zirconia grades
- Fired & unfired versions
- High surface finish for tight sealing
- All standard plate sizes (1QC, 2QC, CS, LG...)



Tundish Nozzle

Metering nozzle that delivers a constant, controlled stream from the tundish into the continuous casting mould — critical for billet quality and caster stability.

- Zirconia / zircon metering bores
- Bore sizes 12 – 22 mm (others on request)
- Long casting sequence capability
- Quick-change (QC) versions available



Tundish Well Block

Seating block for the tundish nozzle — ensures perfect nozzle alignment and sealing at the tundish bottom throughout the casting sequence.

- High-alumina castable composition
- Precision nozzle seating
- Resists erosion & skull build-up
- Per tundish design drawings



POROUS PLUGS — ARGON PURGING



SLIDE GATE PLATES — 1QC / 2QC / CS



TUNDISH NOZZLES — ZIRCONIA BORES

Custom grades, sizes and packing available on request — every batch is laboratory-verified in Riyadh before dispatch, with test certificates supplied.

Steelmaking Consumables

Additives and reactants charged during melting to protect product quality and equipment — improving melting & casting and removing impurities from the metal.

03



Alumina Bricks

High-alumina refractory bricks for lining furnaces, ladles and high-wear zones — stable at extreme temperatures with excellent slag resistance.

- Al_2O_3 grades: 50% – 90%
- Standard & custom shapes
- High refractoriness under load
- For EAF, ladles, reheating furnaces



Bentonite

High-swelling sodium/calcium bentonite used as a binder in foundry sands and pelletizing — delivers strong, stable moulds.

- Sodium & calcium grades
- High montmorillonite content
- Excellent bonding strength
- Supplied in 25/50 kg bags or jumbo bags



Boric Acid

Used as a flux and sintering aid in induction furnace silica linings — lowers the sintering temperature and extends lining life.

- Technical grade H_3BO_3
- Powder & granular forms
- For silica ramming mass sintering
- Moisture-proof packing

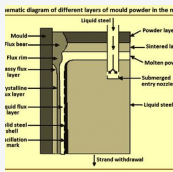


Castable Powder

Monolithic refractory castables for ladle back-up linings, tundish working linings and furnace repairs — easy installation, long service.

- Low-cement & conventional grades
- Alumina-based compositions
- Vibration / self-flow installation
- Gunning grades available

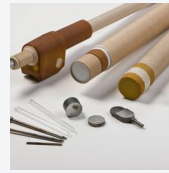
Custom grades, shapes and packing on request — supplied in 25/50 kg bags or 1 t jumbo bags.



Casting Powder

Mould flux for continuous casting — lubricates the strand, controls heat transfer and absorbs inclusions for defect-free billets and slabs.

- Grades for billets, blooms & slabs
- Low / medium / high carbon steel types
- Controlled melting rate & viscosity
- Granular & powder forms



CI Plug

Cast-iron plugs and fittings used in furnace and ladle maintenance — reliable, ready-stock items for day-to-day melt-shop operation.

- Cast iron construction
- Standard sizes ex-stock
- OEM-compatible dimensions
- Batch-tested quality



CPC (Calcined Petroleum Coke)

Premium carbon raiser for steel and cast iron — fast dissolution and high carbon recovery with very low sulphur.

- Fixed Carbon: 98.5% Min
- S: 0.5% Max (lower grades on request)
- Ash: 0.5% Max • VM: 0.5% Max
- Sizes: 0–1, 1–3, 1–5, 3–10 mm



DB Bolt

Double-end bolts and fasteners for slide gate assemblies and ladle hardware — heat-resistant alloy steel, ex-stock.

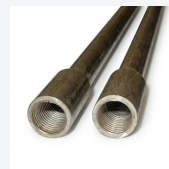
- Alloy steel, heat-treated
- For slide gate & ladle mechanisms
- Metric sizes per drawing
- Replacement kits available



Graphite Petroleum Coke

Graphitized carbon additive with ultra-low nitrogen — the preferred recarburizer for ductile iron and special steel grades.

- Fixed Carbon: 98.5 – 99% Min
- S: 0.03 – 0.05% Max
- N: 300 ppm Max
- Sizes: 0–1, 1–5, 5–10 mm



Lancing Pipe

Oxygen lancing pipes for tapping, cutting and de-slugging in melt shops — ceramic-coated and calorized options for longer life.

- OD: 10 – 27 mm, standard lengths
- Ceramic coated / calorized types
- Threaded ends available
- High oxygen-flow resistance



GRAPHITE PETROLEUM COKE —
ULTRA-LOW N



CPC — 98.5% FIXED CARBON



LANCING PIPES — COATED &
CALORIZED

KERUI



Mortar

Refractory mortars for brick laying and joint sealing in ladles, tundishes and furnaces — matched chemistry to the brickwork.

- High-alumina & fireclay types
- Air-setting / heat-setting
- Supplied dry (add water) or ready-mixed
- 25/50 kg packaging



Nozzle Filling Compound

Free-opening ladle nozzle filler — ensures safe, automatic ladle opening at cast start without oxygen lancing.

- Chromite / silica based grades
- Free-opening rate $\geq 95\%$
- Prevents steel skull in nozzle
- Supplied in moisture-proof bags



Sampler

Immersion samplers for molten steel — fast, representative samples for spectrometric analysis in furnace, ladle and tundish.

- Lollipop / round / oval types
- For EAF, LF, tundish & pig iron
- Deoxidant options (Al / Zr / Ti)
- Paper tube lengths per requirement



Silica Ramming Mass

Acidic dry ramming mix for coreless induction furnace linings — with boric acid/boron oxide sintering system for maximum lining life.

- SiO_2 : $\geq 98.5\%$ high-purity quartz
- Boric acid or boron oxide bonded
- For induction furnaces (ferrous & non-ferrous)
- Pre-mixed, ready to ram



Spray Nozzle

Precision spray nozzles for secondary cooling in continuous casting and descaling — stable spray pattern and exact flow rates.

- Full cone / flat fan / mist types
- Brass & stainless steel bodies
- For CCM secondary cooling & descaling
- Flow rates per casting machine design



Thermocouple Tips

Expendable immersion thermocouple tips for fast, accurate molten steel temperature measurement — types R, S, B and W.

- Types: R, S, B, W (Pt-Rh / W-Re)
- Accuracy per ITS-90 standards
- Response time < 5 seconds
- Paper tube lengths: 300 – 1200 mm



IMMERSION SAMPLERS — ALL TYPES



THERMOCOUPLE TIPS — R, S, B, W

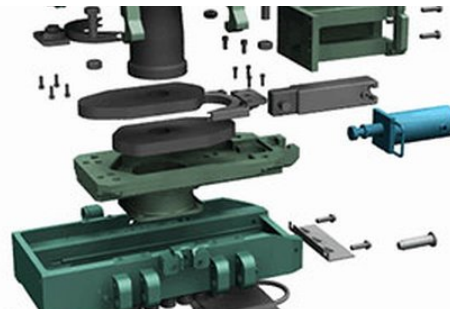
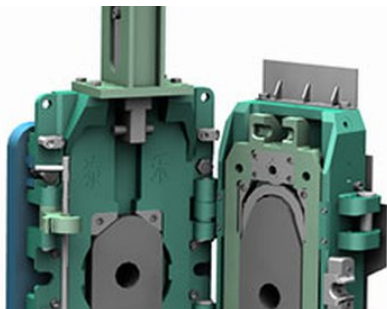


SILICA RAMMING MASS — PRE-MIXED

Ladle Spares

Critical components of the ladle refractory and slide gate system — essential for holding and transporting molten metal while controlling temperature, purity and quality.

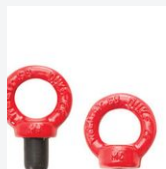
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Collector Nozzle Holder

Precision holder that seats and locks the collector nozzle into the slide gate frame — ensures perfect alignment and leak-free casting.

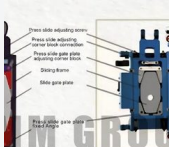
- 1QC / 2QC standard types
- Heat-resistant cast alloy
- Precision-machined seating
- Ex-stock availability



Eye Bolt

Forged lifting eye bolts for ladle and refractory handling — certified load ratings for safe melt-shop lifting operations.

- Forged alloy steel
- Certified WLL markings
- Metric threads, various sizes
- Zinc plated / self color



Housing Cover

Protective housing covers for slide gate mechanisms — shield springs and moving parts from heat, dust and splashing steel.

- Steel fabricated / cast versions
- Heat-shield design
- Fits standard gate housings
- Fasteners included



Slide Gate Assembly

Complete ladle slide gate mechanism — hydraulic-cylinder operated frames with spring-loaded face pressure for reliable, leak-free flow control.

- Complete mechanism + refractories kits
- Spring-loaded / hydraulic types
- For ladles 10 – 300 t
- Full spare parts support

Full slide gate support — mechanisms, refractories kits and fasteners supplied together, with spare parts always available ex-stock.

Mechanical & Electrical Spares

Specialized parts crucial to plant operation — providing supplementary and control functions across production stages, mostly electrical and mechanical in nature.

05



Air Bellow

Industrial air bellows and expansion joints for furnace air supply and vibration absorption — high-temperature fabric and steel types.

- Fabric / stainless steel types
- High-temperature resistant
- Flanged connections
- Custom diameters on request



Carbon Bush

Self-lubricating carbon bushes and bearings for high-temperature zones where oil lubrication is impossible — furnaces, conveyors, rollers.

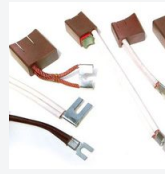
- Carbon-graphite grades
- Dry-running, no lubrication
- High-temperature service
- Machined to drawing



Carbon Free Hose

Non-conductive carbon-free rubber hoses for induction furnace cooling water — electrically insulating, heat and ozone resistant.

- Carbon-free EPDM construction
- Electrical insulation for IF cooling
- ID: 13 – 102 mm
- Withstands furnace-side heat



Carbon Slip Ring

Slip rings and carbon brush assemblies for crane and mill motors — stable current transfer with long brush life.

- Complete rings + brush sets
- Copper / steel ring types
- For crane & rolling mill motors
- Brushes matched to motor spec



Flexocoat

Flexible protective coatings for ladles, tundish furniture and plant steelwork — heat and abrasion resistant surface protection.

- Heat-resistant flexible coating
- Anti-corrosion protection
- Brush / spray application
- Multiple colours & thicknesses



Gear Coupling

Heavy-duty gear couplings for rolling mills and cranes — high torque transmission with misalignment tolerance, grease-lubricated.

- Full & half gear types
- Bore & keyway per drawing
- High torque capacity
- Hardened gear teeth



Master Controller

Joystick master controllers for EOT cranes and ladle handling — precise, rugged control with multi-step contacts.

- 2 / 4 / 6 step versions
- For EOT & ladle cranes
- IP54+ enclosures
- Cam & potentiometer types



Thyristor & Diode

Power semiconductor modules for induction furnace power supplies and drives — genuine, tested thyristor and diode modules.

- SCR / diode modules, all common types
- For IF power supplies & DC drives
- Tested before dispatch
- Equivalent cross-referencing service



Workshop Tools

Complete workshop and maintenance tool sets for melt shops and rolling mills — wrenches, sockets, measuring and cutting tools.

- Complete tool kits & loose tools
- Industrial grade quality
- Spanner, socket & measuring sets
- Custom kit composition



MASTER CONTROLLERS — EOT & LADLE CRANES



POWER MODULES — TESTED BEFORE DISPATCH



WORKSHOP TOOLS — COMPLETE KITS

Genuine and OEM-equivalent spares — we cross-reference part numbers, match equivalents and test electrical modules before dispatch.

OUR SERVICE STANDARD

Prompt response • Immediate dispatch • Highest quality • Best after-sales support

Quality is not a department — it is the way we work. From supplier selection to final delivery, **all products undergo precise laboratory testing**, carry proper **test certificates**, and every batch passes a **full quality check before dispatch**.

01

Laboratory testing

Precise chemical and physical testing on incoming and outgoing material.

02

Test certificates

Proper certification accompanies every product we deliver.

03

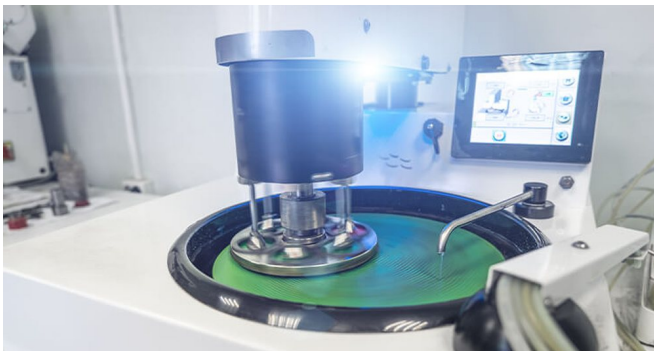
Clean storage

Huge, organized warehouses in Riyadh preserve product integrity until dispatch.

04

After-sales support

Prompt response and technical support long after the delivery is made.



LABORATORY TESTING — EVERY BATCH VERIFIED



READY STOCK — IMMEDIATE DISPATCH FROM RIYADH

OUR PROMISE

Your production never stops — what you need is already on our shelves

AMA

ADVANCED
METAL ALLOYS

One call covers all your steel needs.

45+ products across five product lines — genuine brands, certified quality, ready stock in Riyadh, and a regional team that answers immediately.

45+

PRODUCTS IN
RANGE

05

PRODUCT
LINES

03

COUNTRIES

01

CALL — THAT'S ALL IT
TAKES

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