

GRINDING MEDIA

**MAADEN LOCALIZATION
OPPORTUNITY CARD**



GRINDING MEDIA

OPPORTUNITY SUMMARY

Case Summary

Key Consumable with Limited Substitutes

Grinding media is a key input in mineral processing, with demand directly linked to ore throughput and continuous wear

Recurring Demand Patterns

Mines consume and replace grinding media continuously over long mine lives, supporting recurring demand patterns

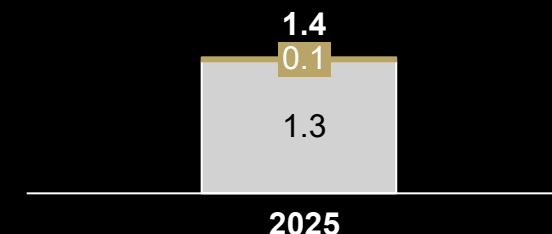
Import-Dependent Supply

Saudi grinding media demand is largely met through imports, which may indicate potential for local production to replace imported volumes

Maaden & Market Demand

GCC demand, Bn SAR (2025)

■ Maaden Demand ■ Rest of GCC Demand



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LOCALIZATION OPPORTUNITY OVERVIEW

1

Mining-Linked Demand

Grinding media is a consumable with limited substitutes in mineral processing, with consumption directly linked to ore throughput and typically ranging from ~0.3–1.0 kg per ton of ore processed

2

Recurring Consumption Patterns

Large mines replace grinding media continuously due to wear, supporting recurring annual demand, which in some cases may reach tens of thousands of tons per operation over mine lives of 15–30 years

3

Import-Heavy Supply Base

Saudi grinding media demand is largely imported, with material shipped from Asia and Europe, which may result in longer lead times, high freight costs, and exposure to supply disruptions

4

Cost Structure Considerations

Cash costs are driven mainly by power and steel inputs, where competitive electricity pricing and access to scrap or billets in KSA may support a competitive cost position

5

Potential for Regional Supply

A Saudi-based plant may serve domestic and regional demand, with potential to scale over time from an initial ~50–100 ktpa facility to larger regional volumes over time

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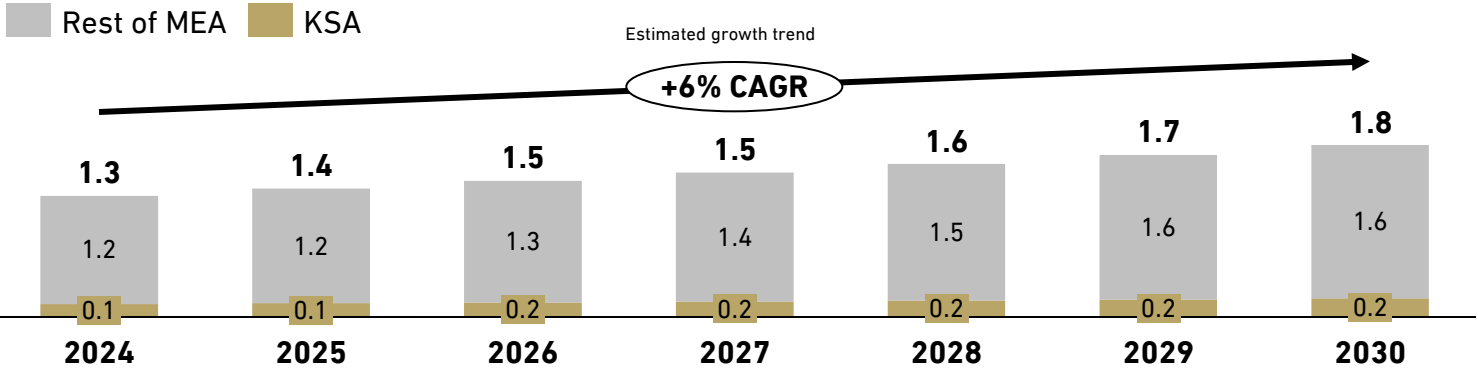
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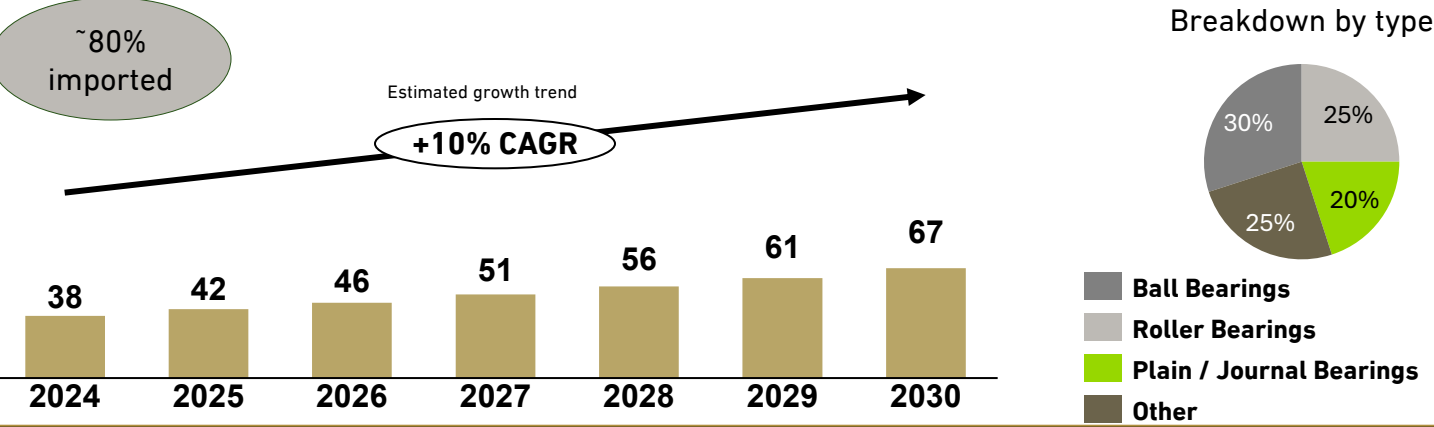
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MARKET DEMAND & SUPPLY

Market Demand, Bn SAR



Maaden Demand, mn SAR



Market Trends & Demand Drivers

- 1 Grinding media demand is driven by ore throughput rather than metal prices, which may result in relatively stable consumption patterns across commodity cycles
- 2 Global supply is dominated by a limited number of large producers, with Asian imports playing a major role in Middle East supply
- 3 Freight costs and delivery lead times have become a larger share of total delivered cost, increasing sensitivity to logistics disruptions
- 4 Mine operators are increasingly focused on wear performance and consistency rather than unit price, as media quality may influence mill efficiency and downtime

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The KSA ecosystem comprises six main categories, supported by key enablers

