

# 150–300 TPH Iron Ore Crushing Configuration

## 150–200 TPH Reference

Feeder



Jaw Crusher



Cone Crusher



Vibrating Screen



## 200–300 TPH Reference

Feeder



Jaw Crusher



Single-Cylinder  
Cone Crusher



Multi-Cylinder  
Cone Crusher

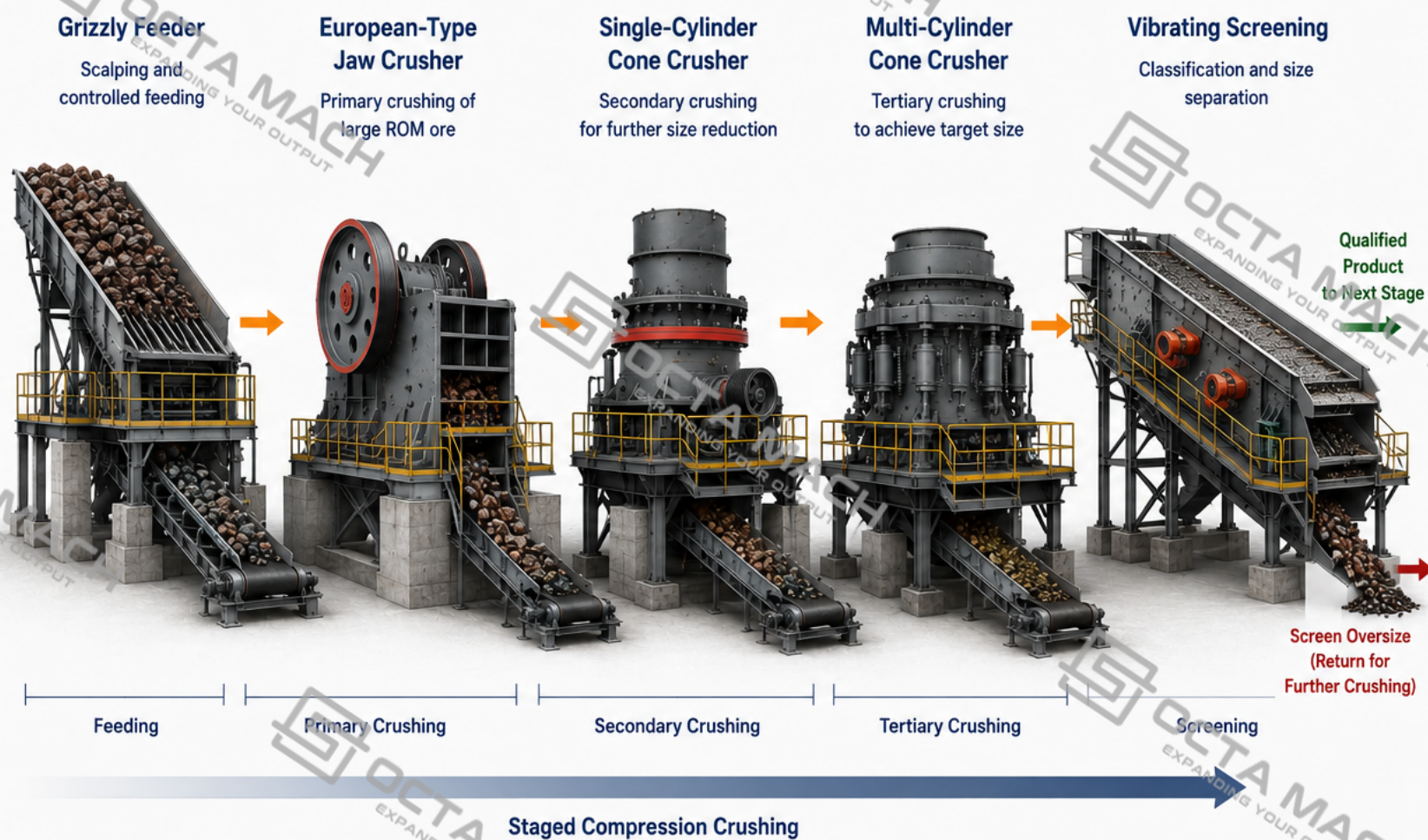


Vibrating Screen



Reference configuration — final equipment selection depends on ore characteristics and target grinding feed.

# 400–500 TPH Iron Ore Crushing Configuration



## Key Controls

-  **ROM Feed Size**  
Maximum lump size and gradation
-  **Ore Competency**  
Hardness and abrasiveness
-  **Crusher Chamber**  
Selection based on feed and reduction requirements
-  **CSS**  
Closed Side Setting controls product size and throughput
-  **Screen Efficiency**  
Affects separation performance and circulating load



Reference configuration — final equipment selection depends on ore characteristics and target grinding feed.

# 600-800 TPH High-Throughput Iron Ore Crushing

**Pre-Screening**  
Removes fines and undersize before primary crushing

**Jaw Crusher**  
Primary crushing of large ROM ore

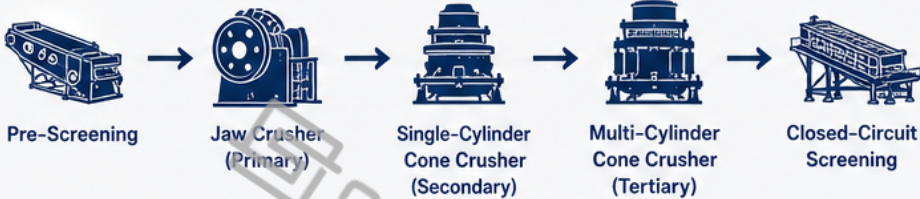
**Single-Cylinder Cone Crusher**  
Secondary crushing for further size reduction

**Multi-Cylinder Cone Crusher**  
Tertiary crushing to achieve target size

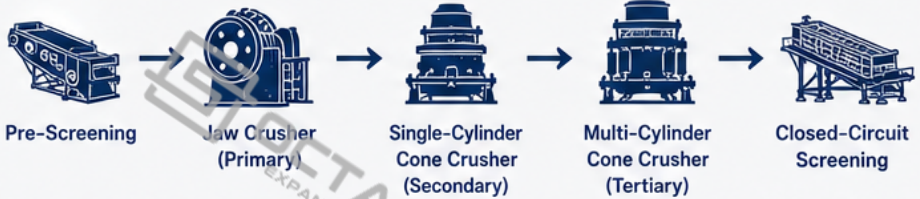
**Closed-Circuit Screening**  
High-efficiency classification with oversize return



600-700 TPH Reference



700-800 TPH Reference



**Note:** Actual throughput varies with feed gradation, hardness, moisture, CSS, screen efficiency and circulating load. Plant layout, equipment selection and settings should be confirmed by process testing and engineering evaluation.

# Large-Scale Iron Ore Crushing – Around 1000 TPH Reference

## Large Feeding System

Heavy-duty grizzly feeders with apron feeders ensure stable and continuous material flow.

## Primary Jaw Crushing

Multiple jaw crushers in parallel handle large ROM ore and provide primary size reduction.

## Multiple Cone-Crushing Duties

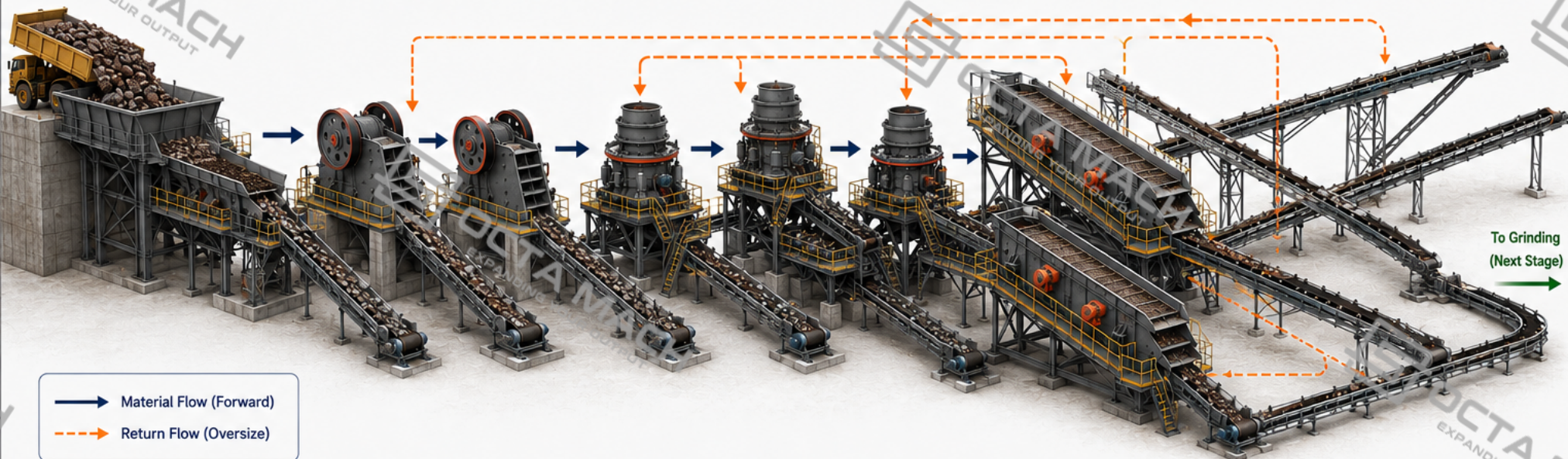
Secondary and tertiary cone crushers in parallel circuits deliver high throughput and controlled reduction.

## Multiple Vibrating Screens

High-capacity screens separate products by size and manage closed-circuit operation.

## Return Conveyors / Closed Circuits

Oversize material is returned via conveyors to the appropriate crushing stage.



### Distributed Capacity

Parallel crushers and screens increase throughput and improve operational reliability.



### Closed-Circuit Control

Return conveyors maintain proper circulating load and optimize crushing efficiency.



### System Balance

Capacity is determined by the balance of feeders, crushers, screens, conveyors and downstream grinding.



### Operational Stability

Stable feeding, proper CSS control and effective screening are critical for consistent plant performance.



### High Throughput

Engineered for high-capacity operations with flexibility for ore property variations.



**Note:** Large plant capacity is a system result. Feeder, crushers, screens, conveyors and downstream grinding capacity must be balanced together. Actual throughput varies with feed gradation, hardness, moisture, CSS, screen efficiency and circulating load.