

Granite Crushing Plant Selection and Configuration Guide

1. Granite Feed Assessment

Feed assessment comes before route selection. Granite feed should be evaluated by material condition, feed size and product targets before the crushing route is configured.



Feed Condition

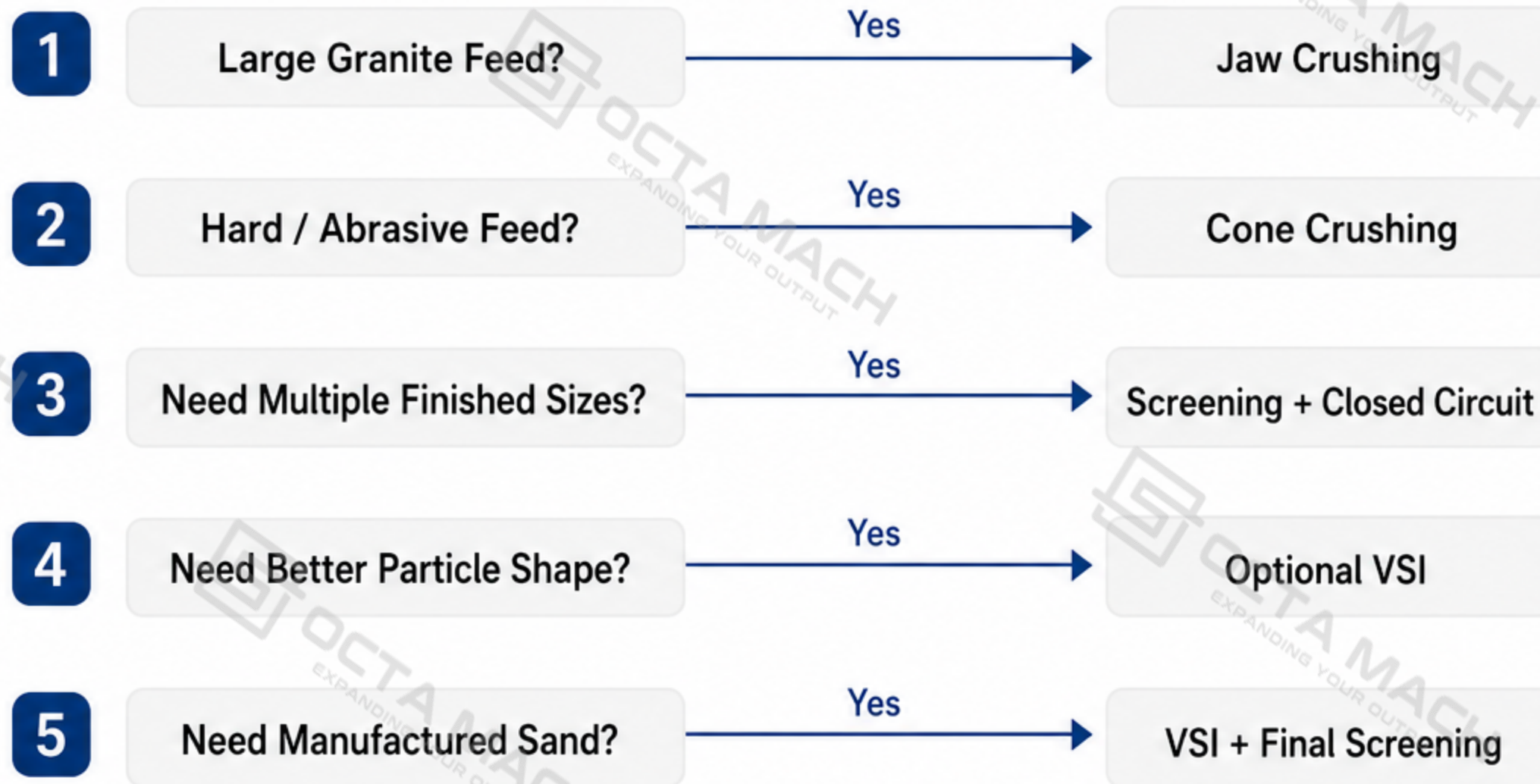


Process Requirement

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2. Crushing Route Selection

Granite route selection should match feed size, material behavior and final product requirements. Each stage is added to solve a specific reduction, classification or shaping duty.

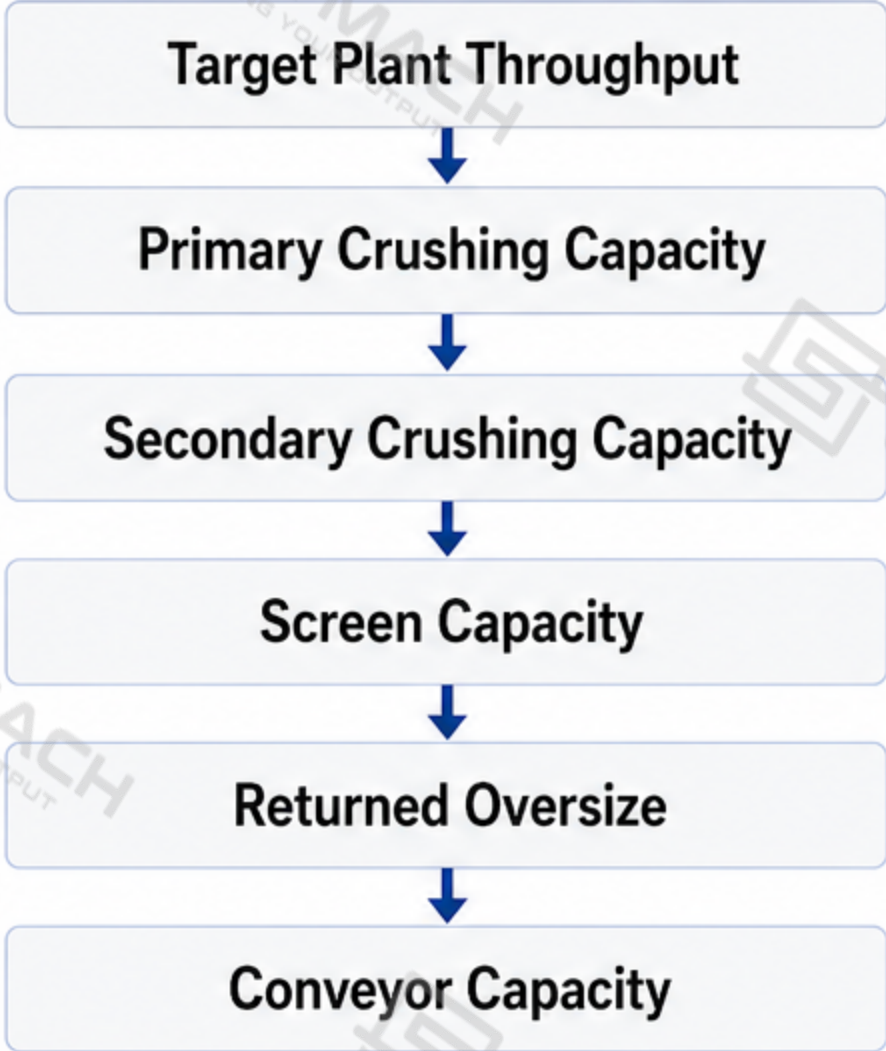


Choose the route by feed condition and finished-product target.

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3. Granite Plant Capacity and Bottleneck Check

Plant throughput depends on crushing, screening, and recirculation capacity working together. This page helps you identify where bottlenecks occur so you can take the right configuration actions.



Check	Warning Sign	Configuration Action
Primary crusher	Feed buildup	Check feed opening / primary duty
Cone crusher	High return load	Add crushing capacity or adjust circuit
Screen	Excess oversize	Increase screening area / review cut size
Conveyor	Material accumulation	Recheck transfer capacity
Wear condition	Gradation shifts	Inspect liners and settings

 Use circuit behavior to identify where throughput is lost.

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4. Finished Product Requirement → Process Adjustment

Finished-product targets should determine how the crushing and screening circuit is adjusted. This page links common product requirements to the plant adjustment that matters most.

Finished Product Requirement	Main Plant Adjustment
 More coarse aggregate	Review cone setting and screen cuts
 More 0–5 mm product	Increase fine-crushing / shaping duty
 Better cubical shape	Optimize cone operation or add VSI
 Lower fines	Reduce excessive shaping and improve classification
 Multiple aggregate sizes	Increase screening / classification stages
 Manufactured sand	VSI + final screening / fines control

Coarse Aggregate

Larger, well-graded stone



Multiple Size Fractions

Consistent sizes for all requirements



20–40 mm



10–20 mm



5–10 mm



0–5 mm

Cubical Shape

Stronger interlock, better performance



Manufactured Sand

Clean, well-shaped fine aggregate



Adjust the process from the finished product backward to crusher settings, screening, and shaping duty.

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5. Project Data Required for Granite Plant Configuration

A clear project input checklist helps match equipment selection to the actual granite feed, product requirement and site conditions. This page summarizes the key information needed before configuring a granite crushing plant.



Feed Material

- ✓ Maximum feed size
- ✓ Feed gradation
- ✓ Granite condition
- ✓ Moisture / clay



Production Target

- ✓ Required t/h
- ✓ Finished sizes
- ✓ Particle shape requirement
- ✓ Manufactured sand requirement



Site Conditions

- ✓ Stationary / mobile
- ✓ Available space
- ✓ Power conditions
- ✓ Operating hours



Accurate inputs reduce configuration errors and improve the reliability of plant selection.