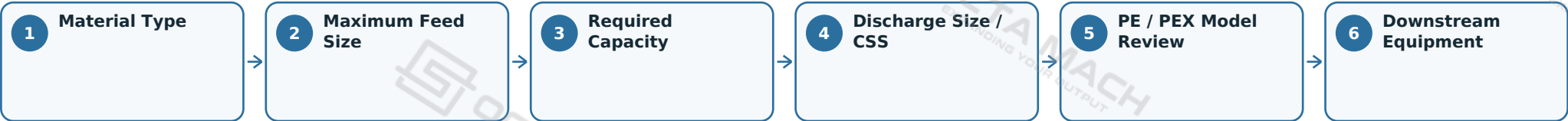


Jaw Crusher Model Selection and Technical Parameter Guide

A practical guide for reviewing material condition, feed size, capacity, discharge setting, PE/PEX model range and downstream equipment before jaw crusher selection.

Crushing duty Primary compression crushing before secondary crushing or screening	Parameter basis PE / PEX jaw crusher data ranges from the supplied technical parameter chart	Selection principle Model selection should follow the complete crushing circuit, not a single capacity value
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1. Jaw Crusher Selection Logic



Key engineering checks

Material route Hard rock, ore, limestone and construction waste require different chamber and wear-part review.	Feed size control Feed opening must be checked against max lump size and oversize rate.	Output requirement Discharge range / CSS affects secondary crushing and screening efficiency.	Capacity matching Rated capacity must be checked with feeder, conveyor, screen and downstream crusher.
Moisture and clay Sticky feed can reduce chamber flow and lower practical throughput.	Plant layout Stationary and mobile systems have different feed height, discharge and access requirements.	Wear-part review Abrasive feed affects jaw plate material and replacement interval.	Final data sheet The selected model should be confirmed with a complete process and layout review.

2. PE and PEX Jaw Crusher Parameter Review

The PDF uses this page for model screening; the complete model table can remain in the website article.

Model Group	Model Range / Examples	Feed Opening (mm)	Max Feed (mm)	Discharge (mm)	Capacity (t/h)	Typical Use
Small PE	PE-150x250 to PE-250x400	150x250 - 250x400	125 - 210	10 - 70	1 - 20	Small primary crushing, limited sites, laboratory or pilot duties
Medium PE	PE-400x600 to PE-750x1060	400x600 - 750x1060	340 - 630	40 - 160	16 - 320	Quarry, aggregate and medium-capacity primary crushing
Large PE	PE-900x1200 to PE-1500x1800	900x1200 - 1500x1800	750 - 1200	95 - 350	220 - 1000	Large hard-rock quarry and mining primary crushing
PEX Fine Crushing	PEX-150x750 to PEX-500x1500	150x750 - 500x1500	120 - 350	18 - 120	8 - 160	Fine crushing or secondary size reduction after primary crushing

Selected reference models

Reference Model	Feed Opening (mm)	Max Feed (mm)	Discharge (mm)	Capacity (t/h)	Motor (kW)	Weight (t)
PE-400x600	400x600	340	40 - 100	16 - 60	30	7
PE-600x900	600x900	500	65 - 160	50 - 180	75	17
PE-750x1060	750x1060	630	80 - 140	110 - 320	90	29
PE-900x1200	900x1200	750	95 - 165	220 - 450	110	52
PE-1200x1500	1200x1500	1020	150 - 350	400 - 800	250	80
PE-1500x1800	1500x1800	1200	220 - 350	450 - 1000	280	122
PEX-250x1000	250x1000	210	25 - 60	16 - 52	30	7
PEX-500x1500	500x1500	350	25 - 120	50 - 160	90	20

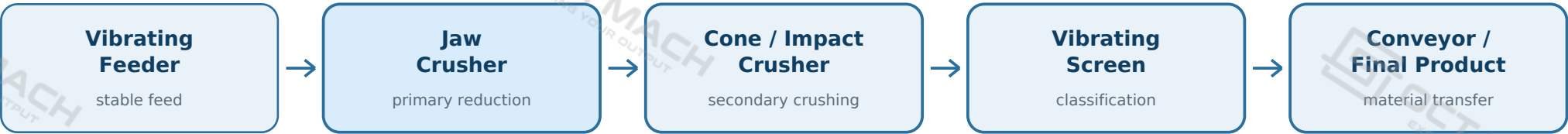
Capacity values are indicative. Practical output changes with material hardness, feed gradation, moisture, clay content, CSS setting, jaw plate wear state, feeder continuity and downstream equipment capacity.

3. Application Matching Matrix

Jaw crusher selection should connect working condition with crusher duty and the equipment arranged after primary crushing.

Working Condition	Recommended Jaw Crusher Role	Downstream Equipment	Key Control
Granite / basalt quarry	Primary crushing of blasted hard rock	Cone crusher + vibrating screen	Feed size control, wear parts, CSS stability
Limestone aggregate plant	Coarse reduction before shaping or screening	Impact crusher + screen	Discharge size and fines control
Mining ore plant	First-stage size reduction before grinding or beneficiation	Cone crusher / grinding system	Ore hardness, chamber loading, feeder continuity
Construction waste	Pre-crushing of concrete blocks and demolition material	Impact crusher / screen	Pre-sorting, rebar control, mobile layout
Mobile crushing project	Primary crusher in crawler or tire-mounted station	Mobile screen / conveyor	Transport size, setup time, maintenance access

Typical crushing circuit relationship



The jaw crusher sits at the front of the circuit. Its feed opening, chamber capacity and discharge setting determine whether the cone crusher, impact crusher, screen and conveyor can receive material continuously.

4. Model Selection Checklist

Use this checklist to turn site conditions into a controlled jaw crusher model review before final data sheet confirmation.

- ✓ **Raw material**
stone type, ore type, recycled concrete or mixed feed
- ✓ **Average feed gradation**
fine content, oversize rate and feeder stability
- ✓ **Discharge size / CSS**
required output size before the next stage
- ✓ **Abrasion level**
silica content and jaw plate wear behavior
- ✓ **Feeding method**
vibrating feeder, grizzly feeder or loader feed
- ✓ **Plant form**
stationary plant, crawler mobile plant or tire-mounted plant
- ✓ **Maximum feed size**
largest lump size and feed opening margin
- ✓ **Required capacity**
target t/h and actual working hours
- ✓ **Material hardness**
limestone, granite, basalt, ore or concrete
- ✓ **Moisture / clay content**
sticky feed and discharge stability
- ✓ **Downstream equipment**
cone crusher, impact crusher, screen or conveyor
- ✓ **Maintenance access**
jaw plate replacement, bearing inspection and lubrication

Final selection principle

The final jaw crusher model should be selected according to the complete crushing circuit. Feed opening, maximum feed size, discharge range, capacity, material hardness, wear condition, equipment layout and downstream process must be reviewed together before confirming the model.