

Crawler Mobile Crusher Overview

A crawler mobile crusher is a track-mounted crushing and screening system for on-site material processing. It combines feeding, crushing, conveying and, when required, screening or return crushing on a self-moving crawler chassis.

Equipment type

Crawler mobile crusher

System function

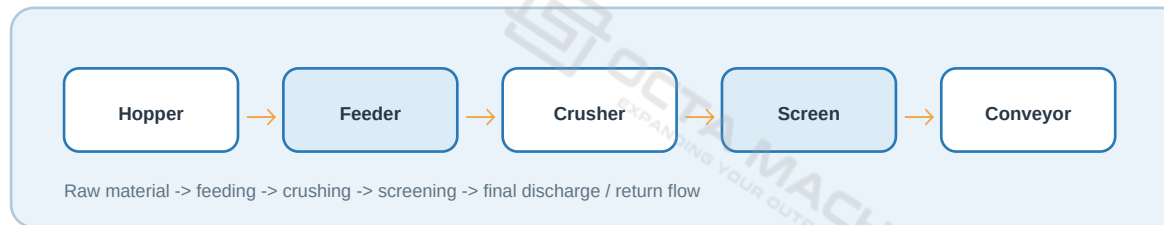
Feeding + crushing + screening

Capacity range

59-810 t/h



Integrated System Modules



Selection principle

Confirm feed size, material condition, return load and transport limit together with rated capacity.

Station-Type Reference

Station Type	Reference Models	Feed Size (mm)	Capacity (t/h)
Crawler jaw station	L-CX116 / L-CX106 / L-CX96	460-730	120-625
Crawler impact station	L-PFW1214 / L-PFW1315 / L-PFW1415	<=800	100-500
Crawler cone station	L-HP300 / L-HP400 / L-CH430 / L-CH440	90-196	85-625
Crawler hammer station	L-PCZ1615 / L-PCZ1512 / L-PCZ1312	600-1000	100-500
Crawler screening station	L-3YZK1860 / L-3YZK2160 / L-3YZK2460	<=400	65-810

What This Sheet Covers

Supplied model specifications, feed-size bands, capacity comparison, transport review and practical selection notes for early project planning.

Standard Model Specifications

The supplied standard models cover crawler cone, impact and screening stations. This table supports preliminary matching of screen, main crusher, feed-size limit, rated capacity and transport envelope.

Model families

S-CS / S-Q / S-H / S-HP / S-PF / S-S

Feed-size span

<=140 mm to <=500 mm

Capacity span

59-810 t/h

Transport width

2,700-3,200 mm

Station Model	Matching Screen	Main Crusher	Max Feed (mm)	Capacity (t/h)	Transport Dimensions (mm)
S-CS75	3YZK1848	CS75	<=160	59-163	12600 x 2800 x 4400
S-CS110	3YZK1860	CS110	<=178	100-200	13800 x 3000 x 4400
S-CS160	3YZK2160	CS160	<=188	132-253	13800 x 3000 x 4400
S-CS220	3YZK2160	CS220	<=230	215-330	14500 x 3000 x 4500
S-Q300	3YZK1848	SQ300	<=160	105-205	12600 x 2800 x 4400
S-Q400	3YZK1860	SQ400	<=230	235-575	13800 x 3000 x 4400
S-Q500	3YZK2160	SQ500	<=240	304-640	14500 x 3000 x 4600
S-H420	3YZK1848	SH420	<=240	85-170	12600 x 2900 x 4400
S-H430	3YZK1860	SH430	<=360	120-345	13800 x 3000 x 4500
S-H440	3YZK2160	SH450	<=450	255-605	14800 x 3200 x 4600
S-HP100	3YZK1860	SHP100	<=140	75-140	13800 x 2900 x 4300
S-HP200	3YZK2160	SHP200	<=185	145-250	14200 x 3000 x 4500
S-HP300	3YZK2160	SHP300	<=230	220-440	16500 x 3200 x 4600
S-PF1214	3YZK1860	PF1214	<=300	100-200	14500 x 2900 x 4500
S-PF1315	3YZK2160	PF1315	<=350	130-280	15200 x 3000 x 4500
S-PF1320	3YZK2460	PF1320	<=500	180-400	15200 x 3000 x 4500

Technical note

Published capacity is a catalogue range. Actual output depends on material hardness, moisture, screen opening, return load and plant layout. Check transport dimensions against route access and site-entry conditions.

Capacity and Feed-Size Comparison

Use feed-size acceptance for the first screening round, then compare rated capacity and station duty before detailed layout and process review.

Feed-Size Grouping

Feed Size Group	Models
<=140-188 mm	S-CS75, S-CS110, S-CS160, S-Q300, S-HP100, S-HP200
<=230-240 mm	S-CS220, S-Q400, S-Q500, S-H420, S-HP300
<=300-360 mm	S-H430, S-PF1214, S-PF1315
<=400-500 mm	S-H440, S-PF1320, S-S1860, S-S2160, S-S2460

Series Quick View

Station Family	Feed (mm)	Capacity	Typical Duty
CS cone	<=160-230	59-330	General hard-stone reduction
Q cone	<=160-240	105-640	Higher-capacity cone circuit
H / HP cone	<=140-450	75-605	Hydraulic aggregate crushing
PF impact	<=300-500	100-400	Shaping and recycling
S screening	<=400	65-810	Finished-product screening

Capacity Grouping

Capacity Group	Models
Max <200 t/h	S-CS75, S-CS110, S-H420, S-HP100, S-PF1214
201-400 t/h max	S-CS160, S-CS220, S-Q300, S-H430, S-HP200, S-PF1315, S-PF1320
401-600 t/h max	S-Q400, S-HP300, S-S1860
>600 t/h max	S-Q500, S-H440, S-S2160, S-S2460

Review logic

Feed size determines the first station shortlist; capacity then confirms the likely model range. Review the shortlist against material condition, product target, screen efficiency and return load.

Maximum Rated Capacity Reference



Selection reminder

Higher nameplate capacity is not automatically better. Larger stations may require wider conveyors, more transfer space and stronger site access.

Transport Dimension and Relocation Review

A crawler-mounted plant still requires a separate transfer review. Width, height, loading sequence, access road and site-entry clearance can affect selection as much as crushing duty.



Relocation and Logistics Checklist

Dimension Review Summary

Item	Published Range	Why to Review
Overall length	10,500-16,500 mm	Trailer length, turning radius and loading space.
Overall width	2,700-3,200 mm	Road access, bridge width and site entry.
Overall height	4,200-4,600 mm	Route clearance and permit requirement.
Relocation frequency	Low to high	Frequent moves favor simpler preparation.
Site access	Quarry / mining / demolition	Slope, roadbed, unloading and crawler path.

Review Item	What to Confirm
Road and bridge limit	Route width, axle restrictions and over-height risk.
Loading preparation	Ramp length, tie-down points and safe loading sequence.
Transfer condition	Whether hopper, conveyor or screen requires folding or removal.
Site-entry clearance	Gate width, internal road and set-up area.
Working-face mobility	Ground condition, gradient and travel distance.
Service access	Maintenance, screen replacement and conveyor inspection space.

Practical note

Large dimensions can work on a controlled route. Frequent relocation favors a compact transport envelope.

Working-face movement

Crawler travel helps after unloading, but access roads, ramps and final plant position still need review.

Before final release

Confirm low-bed compatibility, folding sequence, tie-downs, turning radius and service access.

Model Selection Notes

Select the station for the working condition, not only its nameplate capacity. Station type, matching screen, plant layout and transport size must support the real material and site duty.



Selection Sequence



Confirm each step in sequence to avoid a model that appears sufficient on paper but fails after layout, screening or transport review.

Working-Condition Checkpoints

Checkpoint	Why It Matters
Material type and hardness	Guides jaw, impact, cone or screening emphasis.
Maximum feed size	Must remain within selected station acceptance.
Required capacity	Check crusher output, screen efficiency and return load.
Finished product	Determines screening, shaping and return crushing.
Moisture and clay	Affects feeding, screening and blockage risk.

Configuration Guidance

Application Topic	Recommended Review
Primary crushing	Crawler jaw station with feeder and discharge conveyor.
Shaping / recycling	Impact station with screen, return conveyor and separator.
Hard-rock secondary	Cone station after primary jaw crushing.
Product separation	Screening station for multi-size aggregate output.
Two-stage plant	Jaw + cone or jaw + impact when one unit is insufficient.

Final note

Confirm the crusher specification, matching screen, capacity margin, relocation requirement and transport condition together before final station release.