

Tracked Mobile Jaw Crusher

Complete Product Guide & Manual

Version: V1.0 | Date: 2026-08-14

Full Crawler Undercarriage

Smart PLC Control

Independent Pre-Screen

320 MPa Hard Rock

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What This Machine Is

The tracked mobile jaw crusher — intelligent crawler-track jaw crushing station is the full name — is a self-contained primary crushing plant: feeding, crushing and conveying all on one tracked chassis, built by HeNan Lvlon Industrial. It's designed for large quarries, open-pit mines and construction-waste recycling: the plant walks itself to the site, an excavator feeds it, and crushing and screening happen on board. Feed is any hard rock or ore up to 320 MPa compressive strength — granite, basalt, river pebbles, iron ore and limestone included.

Why It Gets Specified

Five reasons. Smart PLC control: centralized control, live monitoring and automatic fault diagnosis — less operator skill required, lower maintenance cost. Full crawler undercarriage: all-hydraulic drive handles mud, steep grades and mine terrain, and site-to-site moves are simple. Independent pre-screening: fines are pulled out before the main crusher, cutting its load and lifting overall throughput. Heavy-duty feed end: a C-series jaw crusher rated to 320 MPa takes granite and basalt without flinching. Environmental package: oversized foldable hopper, magnetic separator and spray dust suppression meet strict emission requirements.

How the Tracked Mobile Jaw Crusher Works

Three stages:

1

Feed and pre-screen

Large material goes into the oversized hopper by excavator or loader; the vibrating feeder and pre-screen divert fines out early.

2

Compression crushing

Hard rock enters the jaw crusher; the moving and fixed jaws crush it by periodic compression, shearing and splitting.

Convey and de-iron

Product leaves on the on-board main belt conveyor; the magnetic separator pulls stray iron out on the way — continuous, automated operation.

Two things to remember: the pre-screen diverts fines so they don't eat jaw capacity — keep the screen working; clean the magnet on schedule, a loaded magnet face stops pulling iron.

Specifications

Six LL-series models, full spec below.

Parameter / Model	LL-150	LL-260	LL-350E	LL-350	LL-350S	LL-550
Hopper volume (m ³)	4	6	6	6	6	9
Feed height (mm)	4200	4350	4350	4350	4350	4500
Max feed size (mm)	460	560	630	630	630	700
Feed capacity (t/h)	250	450	450	450	450	650
Matched jaw model	C93	C106	C113	C113	C113	C120
Jaw opening (mm)	930×580	1060×700	1130×750	1130×750	1130×750	1200×870
CSS range (mm)	40–175	70–200	70–200	70–200	70–200	70–275
Main belt width (mm)	1000	1200	1200	1200	1200	1400
Belt discharge height (mm)	3200	3307	3307	3307	3200	3200
Main motor (kW)	75	110	110	110	110	160
Total power (kW)	106.3	149.8	149.8	149.8	138.4	197.8
Plant capacity (t/h)	80–335	150–500	160–570	160–570	160–570	175–600
Travel speed (km/h)	0.6–1	0.6–1	0.6–1	0.6–1	0.6–1	0.6–1
Weight (t)	40	48	55.5	52	44	60
Transport L×W×H (mm)	12450×3000×3500	16354×3384×3725	16354×3384×3725	16354×3384×3725	13636×3160×3634	17600×3100×3800

Plant capacity varies with feed hardness, feed size and CSS — reference ranges shown.

Where It Gets Used

Large quarries, open-pit mining, road and rail infrastructure, construction-waste recycling, and metallurgical and energy mines. Feed: hard rock and ore up to 320 MPa — granite, basalt, river pebbles, iron ore, limestone and similar.

Selection and Commercial Notes

Manufacturer: three physical production bases — not a trading company. Delivery: 7–10 days for stock units, 15–30 days for custom or volume orders. Payment: T/T 30% deposit, 70% before shipment. Warranty and parts: 1.5 years (18 months) warranty, long-term cost-price spare parts and online technical support. Full-line service: complete primary, secondary and screening plant designs with on-site erection guidance, per your requirement.

Installation and Commissioning

1. **Arrival and setup** — unfold the hopper and conveyors per the manual; set and lock the crawler undercarriage.
2. **Hydraulics** — check oil level and leaks on the travel and folding hydraulics; cycle the functions.
3. **Electrical and PLC** — check the wiring; power up the PLC for self-test and confirm the monitoring and fault-diagnosis circuits.
4. **Jaw and feed system** — verify jaw plate mounting; test the vibrating feeder, pre-screen, magnet and dust spray.
5. **No-load run** — jog, then run continuously; watch the jaw, belts, track travel, vibration and noise.
6. **Load run** — feed evenly by excavator; watch crushing, product size and conveying, then ramp to rated load.

⚠ Use designated lifting and tow points only — never by belts or the hopper; keep the work area clear of personnel.

⚠ During operation, stay clear of the hopper, jaw inlet, belt lines and discharge opening; stop and lock out before servicing.

⚠ Stop immediately on abnormal vibration, noise or motor overheating; never run a damaged plant.

Feed evenly — don't drop large lumps straight onto the jaw. Have the manufacturer's technician on site for the first load run.

Running and Maintenance

The jaw plates carry the wear: check the moving and fixed plates on schedule and flip or replace at the wear limit — a growing product size is usually the plates talking. The crawler undercarriage is the mobility backbone: all-hydraulic drive, so watch oil level and condition, track tension and the travel gear, especially before and after moves. The PLC is what keeps maintenance costs down: check sensors and monitoring circuits on schedule and let the fault diagnosis earn its keep.

The magnet and dust spray are the environmental and protection package: clean the magnet's collected iron regularly and check the spray nozzles and water supply. Daily round: jaw bearing temperature, belt tracking, whole-plant vibration. Check the pre-screen and vibrating feeder for bar wear and exciter condition.

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