

Tree Stump Crusher

Complete Product Guide & Manual

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VFD Anti-Jam Feed

Mobile, Self-Propelled

Fully Automatic Control

4 Models

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What This Machine Is

The tree stump crusher — disc-type wood and stump crusher is the fuller name — is built by HeNan Lvlon Industrial for one class of problem feed: irregular, oversized tree stumps, coarse branches, old formwork and large-diameter logs. These are the materials other machines dread and wood yards underuse. This is the pre-treatment step before wood-flour milling and biomass recovery — the hardest feed gets broken down first so everything downstream runs smoothly. The machine is yellow, mobile, with a rotating feed tub.

Why It Gets Specified

Four reasons. Wide feed tolerance: big stumps, waste furniture, coarse branches and straw all process. VFD anti-jam feeding: variable-frequency control plus paddle teeth in the tub assist the feed — jams are prevented at the source, which matters when the feed has forks, knots and awkward shapes. Automation: fully automatic electrical control cuts labor and raises safety. Durability at low cost: a sensible layout with a knife-roll of very high strength and toughness gives a long service life and simple maintenance.

How the Tree Stump Crusher Works

Four stages:

1

Feed

Stumps enter the rotating tub; the wing-type unit and paddle teeth assist, with VFD-controlled feed pace.

2

Rotary crushing

The rotary crusher unit at one end of the machine (disc knife roll) breaks the stumps down.

3

Convey and discharge

The upper wing-type unit and the lower discharge unit work together to move the crushed material out continuously.

Moving operation

Material discharges toward the direction of travel as the machine works its way forward.

Two things to remember: jam prevention lives in the VFD settings and the paddle teeth — check the drive settings first if feed misbehaves; the machine is built from drive, hydraulic, electrical-control, discharge and frame systems, and the hydraulics need their scheduled care.

Specifications

Item	Spec
Models available	3000, 3600, 5000, 7000
Working mode	Rotary disc / mobile, self-propelled
Control	Automatic electrical control / VFD feed adjustment
Feed assist	Wing-type unit + tub paddle teeth

The source page does not list motor power, product size or hourly output figures — contact the factory for the full specification sheet when selecting.

Where It Gets Used

Three duty classes. Wood-processing and wood-flour plants: the pre-crushing step for stumps and logs ahead of the milling line. Biomass power and fuel processing: crushing and recovery of straw, branches and forestry waste. Construction waste and scrap timber: breaking down old formwork and waste furniture for recycling.

Installation and Commissioning

1. **Placement** — park the mobile unit, level and lock the legs; confirm the work area allows travel and discharge space.
2. **Hydraulics** — check oil level and condition, look for leaks, and cycle the hydraulic system.
3. **Electrical and control** — check the control-system wiring, set the VFD parameters per the manual, and verify the safety circuits.
4. **Knife roll** — verify tool mounting direction and torque; check the rotating tub and paddle teeth.
5. **No-load run** — jog, then run continuously; watch knife-roll rotation, tub rotation, discharge action, vibration and noise.
6. **Load run** — start with a few small stumps, watch crushing quality and discharge flow, then step up.

⚠ Lift by the designated points only — never by the knife roll or hydraulic lines; keep personnel clear of the lift zone.

⚠ During operation, stay clear of the feed tub, discharge opening and the knife-roll plane; stop and lock out before clearing jams or servicing.

⚠ Stop immediately on abnormal vibration, noise or hydraulic pressure issues; never run a damaged machine.

Feed evenly and continuously — pre-cut oversized stumps before they go in. Have the manufacturer's technician on site for the first load run.

Running and Maintenance

The knife roll carries the wear. The high-strength, high-toughness material lasts well, but stumps bring sand and dirt in with them, so inspect the tool edges on schedule and grind or replace at the wear limit. The VFD and electrical system are the automation's brain — don't touch the VFD parameters casually, and keep the cabinet clean and dry. The hydraulics get scheduled oil checks.

The paddle teeth and wing-type unit do the anti-jam and feed-assist work — check them for wear and distortion. The daily round: knife-roll bearing temperature, whole-machine vibration, and the discharge unit.