LX830D FELLER BUNCHER

Tigercat



The LX830D is a heavy duty, compact, powerful feller buncher purpose-built for demanding thinning and final fell applications in steep terrain.

BENEFITS AND ADVANTAGES:



Powerful, efficient Tigercat FPT Tier 4f engine

- Extremely quiet and fuel efficient
- Simple, reliable SCR emission control technology

Efficient high-capacity cooling system

- Automatic variable fan speed for improved fuel efficiency
- Automatic reversing cycle to easily clean the heat exchangers
- Cooling air is drawn from the rear, away from saw discharge

Compact design with tight-tuck boom system for thinning applications

Extremely stable with powerful lift capacity for high production final felling in tough terrain

Tigercat-built extreme duty undercarriage

- Long track frames with wide stance for excellent stability
- Super-duty leveling system built with large pins and cylinders, tapered roller bearings and thick steel plate

Ultimate access to components and daily service

- Fully opening, power operated clamshell style engine enclosure
- Side platform for daily service access
- Easy access to all sides of the engine
- Shields separate engine from hydraulic pumps and valves

High performance closed loop track drive

- Closed loop track drive system offers quicker, higher performance tracking and increased hydraulic system efficiency when climbing, turning and multi-functioning

Efficient, easy to operate ER boom system

- Tigercat's exclusive ER technology improves fuel efficiency and increases productivity, while reducing operator fatigue

Highly durable design and construction

Quiet, climate controlled operator's station

- High output heater/air conditioner with multiple vents
- Extreme duty air ride suspension seat
- Excellent visibility and clear view of the track tips



Excellent cab ergonomics and clear visibility to the track tips through the full length front window with narrow side posts.

Optimally positioned controls and displays.

Standard LED lighting.
High output LED lighting is available.





Tight tuck boom geometry for excellent performance in thinning applications combined with clear sightlines to the right side through extended length window.

High speed, high performance, high efficiency. Tigercat's patented ER technology allows the machine operator to extend and retract the boom on a horizontal plane smoothly and quickly using a single joystick. But the benefit goes beyond reducing operator fatigue.

Key to ER technology is reduced energy consumption. The ER system transfers energy back and forth between the main and the stick boom functions, reducing the total energy required to move the boom system. This reduces demands for power, pump flow and system cooling. The result is increased productivity and reduced fuel consumption per unit of production.

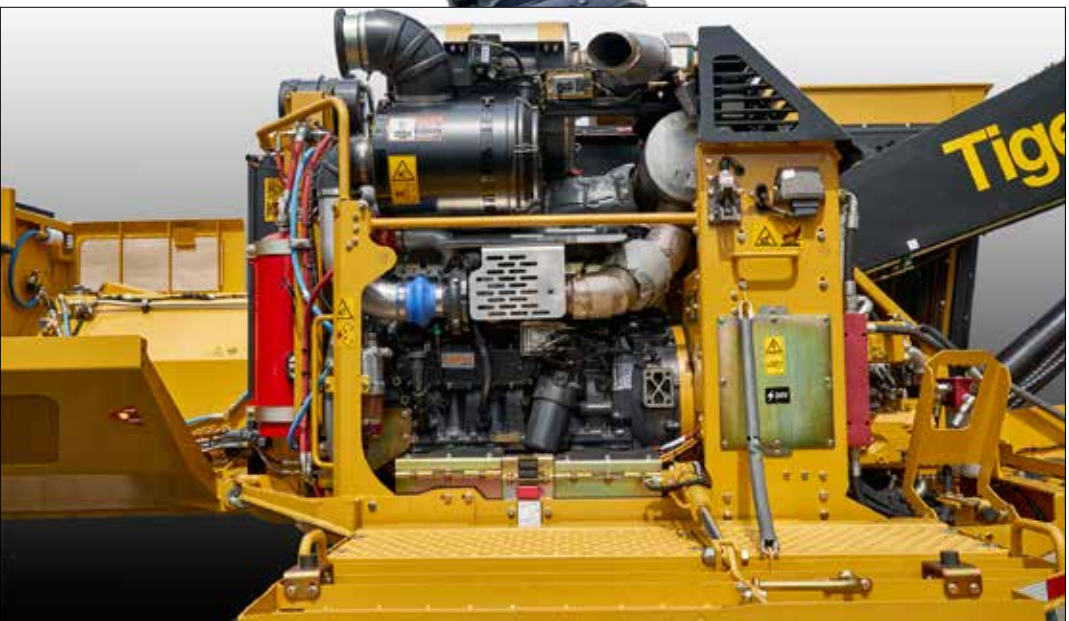
ER technology

Fully retracting clamshell style engine enclosure with independent side platform for easy access to daily service points.





Easy access to hydraulic filters, hydraulic oil fill pumps, swing gearbox remote oil level tank, DEF injection pump and DEF tank.



Access to both sides of the engine and aftertreatment components. Unprecedented in the zero tailswing feller buncher class.

SPECIFICATIONS

DIMENSIONS with standard track shoe

WIDTH with steps	3 430 mm (135 in)
LENGTH less boom	4 750 mm (187 in)
HEIGHT less skylight	3 708 mm (146 in)
GROUND CLEARANCE	711 mm (28 in)
WEIGHT less head	32 930 kg (72,600 lb)
TAIL SWING over side	356 mm (14 in)

POWER

ENGINE	Tigercat FPT C87 Tier 4f, 245 kW (330 hp) @ 1,800 rpm
AIR FILTRATION	Precleaner and 2-stage engine air cleaner
COOLING	Aluminum side-by-side radiator, oil cooler, charge air cooler; Removable intake debris screen
FAN	Hydraulically driven, automatic variable speed, reversible
FUEL CAPACITY usable	585 L (155 US gal)
DEF CAPACITY Tier 4f	80 L (21 US gal)

HYDRAULIC SYSTEM

PUMP, TRACK	(2) Piston, closed circuit
PUMP, BOOM/SWING	Piston
PUMP, SAW	Piston
PUMP, CLAMP/ACCUM./WRIST	Piston
PUMP, COOLING FAN	Piston
RESERVOIR	204 L (54 US gal)
FILTRATION	(5) Spin-on, 7 micron full flow; (1) water absorbing
CYLINDER, HOIST	140 mm (5.5 in) bore
CYLINDERS, STICK/ER	(2) 110 mm (4.5 in) bore
CYLINDER, TILT	130 mm (5.2 in) bore
CYLINDERS, LEVELING	(2) 180 mm (7 in) bore
HORSE POWER CONTROL	Electronic speed sensing; All-speed antistall

UNDERCARRIAGE

TRACK FRAMES	R7-150L-2 super-duty leveling Integral track guides, ramp angles
TRACK CHAIN	FH400 215 mm (8.5 in) pitch
FINAL DRIVE	(2) Axial piston motors; Infinitely variable speed
TRACTIVE EFFORT	343 kN (77,100 lbf)
GEARBOX	Triple reduction planetary type with brake
FRONT IDLER	Hydraulic track adjuster; Spring shock absorber
SLIDES, UPPER	Replaceable, bolt-on
ROLLERS, LOWER	(9) FH400 single and double flange excavator type
TRACK SHOE	610 mm (24 in) single grouser
Optional	710 mm (28 in) double grouser
LEVELING	26° forward; 7° rear; +/-22° side

BRAKES

TRACK	Friction disc Automatic spring applied, hydraulic release
SWING	Friction disc Manual spring applied, hydraulic release

ROTATING UPPER

SWING DRIVE	7 rpm variable speed; 360° continuous rotation Double reduction, swing drive planetary gearbox with brake; Piston swing motor
SWING BEARING	1,190 mm (47 in) ball circle diameter
ENCLOSURE	Perforated plate on doors for ventilation Hydraulic operated engine enclosure Rear air intake for cooling system and engine Vandal protection; Smooth exterior

ER BOOM SYSTEM with 30° wrist, 5702 saw

MAXIMUM CUT RADIUS	8 430 mm (332 in)
MINIMUM CUT RADIUS	3 500 mm (138 in)
BARE PIN LIFT full reach	5 760 kg (12,700 lb)

OPERATOR'S STATION

CAB	Insulated, pressurized and isolation mounted A/C, heater, defroster, upward vision camera system Full length polycarbonate windshield/entry door Polycarbonate right and left side windows One-piece polycarbonate side door window with steel guarded upper sliding section for ventilation AM/FM digital stereo and auxiliary input port Bluetooth® audio and hands-free calling (2) power points
CONTROLS	Hydraulic proportional for boom/travel/swing with electronic track speed control limiter Electronic for clamp/accumulating arms/wrist Electric switch for swing brake Electronic control system with colour LCD display screen for machine monitoring and function adjustment
SEAT	Full suspension air ride, fully adjustable with angled mounting; Armrest mounted Tigercat joysticks

ELECTRICAL

BATTERY	(2) 12 AGM
ALTERNATOR	110 amp, 24 v
SYSTEM VOLTAGE	24 v
LIGHTING	(14) LED; (4) LED service lights, engine enclosure

OTHER STANDARD EQUIPMENT

Fuel suction strainer; Bottom level fueling; Alarm for track movement; Cold weather kit

OPTIONAL EQUIPMENT

High rotation wrists: 110°, 340°; High output LED lighting; Bolt-on toolbox

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