X870D/LX870D SERIES FELLER BUNCHERS



THE X870D/LX870D

A heavy duty, full tail-swing, powerful feller buncher.
Purpose-built for demanding final fell applications in all terrain.

BENEFITS AND ADVANTAGES:

Powerful, efficient Tigercat FPT Tier 4f engine
- Extremely quiet and fuel efficient
- Simple, reliable SCR emissions 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

ER boom technology
- Tigercat's exclusive ER technology improves fuel efficiency and increases productivity, while reducing operator fatigue
- ER control switch provides a boost for extra stick force
- Structural parts are well proven in high cycle applications

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

Highly durable design and construction

Redesigned and enhanced operator's station
- Structurally reconfigured for improved visibility
- Full length front window for clear view of the tracks
- Extreme duty air-ride suspension seat for improved comfort
- Skyview and rearview camera systems

Twin swing drive system, powerful swing torque
- Higher swing torque, lower gear tooth loads
- Smooth and quiet swing operation

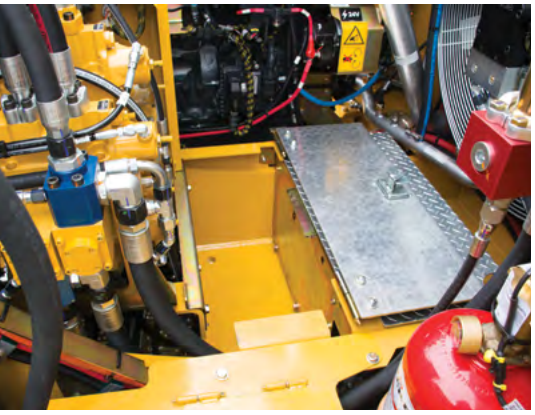
High performance closed loop track drive system
- Closed loop track drives offer greater speed and performance
- Performance tracking and increased hydraulic system efficiency when climbing, turning and multi-functioning

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

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

Tigercat®
Tough • Reliable • Productive

ACCESSIBILITY



Convenient tool storage area.



Air-ride suspension seat. Full length front window. Skyview and rearview camera system.



Easy access to filters for quicker maintenance routines.



The clamshell style retracting roof enclosure provides clear and easy access to the engine, valves and cooling system components with a side platform for daily service access.

Tigercat by FPT POWERTRAIN TECHNOLOGIES

TIGERCAT FPT ENGINE TECHNOLOGY

Tigercat FPT Tier 4f engines offer quick load response, low operating costs and high power density, combined with excellent fuel economy.

The second-generation common rail fuel injection system provides top performance in the most demanding applications.

Tigercat FPT Tier 4f emission technology is simple and reliable. The Tier 4f configuration meets emission standards without complex add-on components. The key is the patented selective catalyst reduction (SCR) after-treatment system.

Tigercat FPT engines offer improved reliability and lower long-term maintenance costs – the clear power choice for forestry and off-road industrial applications.

TIGERCAT**POWER.**
TIGERCAT**SUPPORT.**™



SPECIFICATIONS

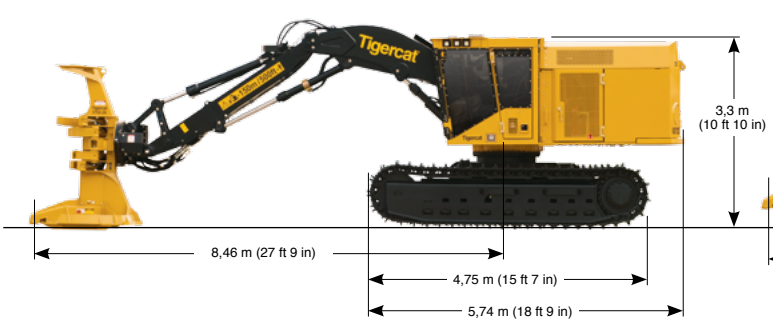
	X870D	LX870D
DIMENSIONS WITH STANDARD SINGLE GROUSER SHOES		
WIDTH with steps	3 390 mm (133 in)	3 440 mm (135 in)
LENGTH less boom	5 555 mm (219 in)	5 334 mm (210 in)
HEIGHT	3 390 mm (133 in)	3 740 mm (147 in)
GROUND CLEARANCE	710 mm (28 in)	680 mm (27 in)
WEIGHT less head/adapter	TBA	36 680 kg (80,870 lb)
TAIL SWING over side	1 590 mm (62.5 in)	1 560 mm (61.5 in)
POWER		
ENGINE Tier 4f	Tigercat FPT C87 Tier 4f	Tigercat FPT C87 Tier 4f
▸ RATED	245 kW (330 hp) @ 1,900 rpm	245 kW (330 hp) @ 1,900 rpm
▸ PEAK	245 kW (330 hp) @ 1,900 rpm	245 kW (330 hp) @ 1,900 rpm
AIR FILTRATION	Precleaner, 2-stage engine air cleaner	Precleaner, 2-stage engine air cleaner
COOLING	Aluminum side-by-side radiator, oil cooler, charge air cooler, A/C condensor; Removable intake debris screen	Aluminum side-by-side radiator, oil cooler, charge air cooler, A/C condensor; Removable intake debris screen
FAN	Hydraulic driven automatic variable speed, reversible	Hydraulic driven automatic variable speed, reversible
FUEL CAPACITY usable	1 085 L (287 US gal)	1 085 L (287 US gal)
DEF CAPACITY	135 L (35 US gal)	135 L (35 US gal)
HYDRAULIC SYSTEM		
PUMP, MAIN	Piston	Piston
PUMP, FAN	Piston	Piston
PUMP, TRACK	(2) Piston, closed loop	(2) Piston, closed loop
PUMP, SAW	Piston	Piston
PUMP, CLAMP/ACCUM.	Piston	Piston
PUMP, CHARGE/PILOT	Gear	Gear
PUMP, CASE	Gear	Gear
RESERVOIR	300 L (80 US gal)	300 L (80 US gal)
FILTRATION, MAIN HYDRAULICS	(5) Spin-on, 7 micron full flow; (1) water absorbing	(5) Spin-on, 7 micron full flow; (1) water absorbing
FILTRATION, CHARGE/PILOT	(2) Spin-on, 6 micron full flow	(2) Spin-on, 6 micron full flow
FILTRATION, CASE	(1) Spin-on, 6 micron full flow	(1) Spin-on, 6 micron full flow
CYLINDERS, HOIST	(2) 120 mm (4.7 in) bore	(2) 120 mm (4.7 in) bore
CYLINDERS, STICK/ER	(2) 110 mm (4.3 in) bore	(2) 110 mm (4.3 in) bore
CYLINDERS, TILT	130 mm (5.1 in) bore	130 mm (5.1 in) bore
CYLINDERS, LEVELING	N/A	(2) 180 mm (7 in) bore
HORSE POWER CONTROL	Electric speed sensing; All-speed antistall	Electric speed sensing; All-speed antistall
UNDERCARRIAGE		
TRACK FRAMES	R7-150 Super-duty forestry, integral track guides, ramp angles	R7-163L Super-duty forestry, integral track guides, ramp angles
TRACK CHAIN	FH400 215 mm (8.5 in) pitch	FH400 215 mm (8.5 in) pitch
FINAL DRIVE	(2) Axial piston motors, Infinitely variable speed	(2) Axial piston motors, Infinitely variable speed
TRACTIVE EFFORT	TBA	343 kN (77,100 lbf)
GEARBOX	Triple reduction planetary with brake	Triple reduction planetary with brake
FRONT IDLER	Hydraulic track adjuster; Spring shock absorber	Hydraulic track adjuster; Spring shock absorber
SLIDES, UPPER	Replaceable, bolt-on	Replaceable, bolt-on
▸ Optional	N/A	N/A
ROLLERS, LOWER	(9) FH400 single/double flange excavator	(10) FH400 single/double flange excavator
TRACK SHOE	610 mm (24 in) single grouser	610 mm (24 in) single grouser
▸ Optional	710 mm (28 in) single grouser	710 mm (28 in) single grouser
LEVELING	N/A	20° forward, 7° rear; +/-15° side
TOP SPEED		
LOW RANGE	2,3 km/h (1.4 mph)	1,8 km/h (1.1 mph)
HIGH RANGE	4,8 km/h (3.0 mph)	4,2 km/h (2.6 mph)
BRAKES		
TRACK	Friction disc; Automatic spring applied, hydraulic release	Friction disc; Automatic spring applied, hydraulic release
SWING	Friction disc; Manual spring applied, hydraulic release	Friction disc; Manual spring applied, hydraulic release

SPECIFICATIONS

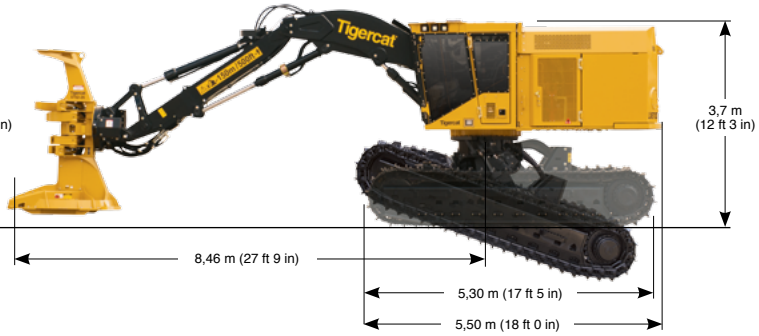
Tigercat

	X870D	LX870D
ROTATING UPPER		
SWING DRIVE	7.5 rpm variable speed; 360° continuous rotation; Double reduction, twin swing drive planetary gearboxes; twin piston swing motors	
SWING BEARING	1 190 mm (47 in) ball circle diameter	
ENCLOSURE	Perforated plate on doors for ventilation; Hydraulically operated engine enclosure, manual backup Rear air intake for cooling system and engine; Vandal protection; Smooth exterior	
OPERATOR'S STATION		
CAB	Insulated, pressurized and isolation mounted A/C, heater, defroster Skyview and rearward 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	
OPERATOR CONTROLS	Hydraulic proportional for boom/travel/swing with electronic track speed control limiter Electronic for clamp arms/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	(2) 12 AGM
ALTERNATOR	110 amp, 24 v	110 amp, 24 v
SYSTEM VOLTAGE	24 v	24 v
LIGHTING	(15) LED; (4) LED service lights, engine enclosure	(15) LED; (4) LED service lights, engine enclosure
▸ Optional	(11) High output LED, (4) LED; (4) LED service lights, engine enclosure	(11) High output LED, (4) LED; (4) LED service lights, engine enclosure
OTHER STANDARD EQUIPMENT		
	Power-link; Alarm for track movement	
OPTIONAL EQUIPMENT		
	High rotation wrists: 110°, 340° Bolt-on toolbox Cold weather kit	High rotation wrists: 110°, 340° Bolt-on toolbox Cold weather kit Auto leveling (R7-163L undercarriage only)

X870D



LX870D



ALL ENGINE POWER VALUES ARE QUOTED AT NET POWER, AS PER SAE J1349
TIGERCAT RESERVES THE RIGHT TO AMEND THESE SPECIFICATIONS AT ANY TIME WITHOUT NOTICE

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