



The Tigercat 822D feller buncher is designed for challenging thinning and final felling. Powerful lift capacity combined with tight-tuck boom geometry minimizes site impact in selective felling applications.

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 clean the heat exchangers
- Rear cooling air intake, well away from saw discharge

ER boom technology

- ER technology increases production, conserves energy
- Smooth planar boom motion reduces operator fatigue

Tigercat-built forestry undercarriages

- Long frames and wide stance carbody for excellent stability

Quiet, climate controlled operator's station

- Industry leading cab with front and side doors
- Full length front window for a clear view of the tracks
- High output heater/air conditioner with multiple vents
- Extreme duty air-ride suspension seat

Durable upper turntable frame construction

- One piece 32 mm (1.25 in) thick turntable base plate
- Upper assembly will not dent or deform from impacts

Ultimate access to major components and daily service points

- 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

Tigercat®
by **FPT**

Tigercat FPT emission technology is simple and reliable, meeting Tier 4 emission standards without the complexities of a variable geometry turbocharger, EGR system, intake throttle body or diesel particulate filter. The key is the patented selective catalyst reduction (SCR) system. Tigercat FPT engines offer improved reliability and lower long-term maintenance costs.

TIGERCATPOWER.
TIGERCATSUPPORT.



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 the 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	3 388 mm (133 in)
LENGTH less boom	4 750 mm (187 in)
HEIGHT less skylight	3 330 mm (131 in)
GROUND CLEARANCE	760 mm (30 in)
WEIGHT less head	28 350 kg (62,500 lb)
TAIL SWING over side	406 mm (16 in)

POWER

ENGINE	Tigercat FPT C87 Tier 4f, 232 kW (310 hp) @ 1,800 rpm 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 usable	80 L (21 US gal)

HYDRAULIC SYSTEM

PUMP, MAIN	Piston
PUMP, SAW	Piston
PUMP, CLAMP/ACCUM. ARMS	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 (4.3 in) bore
CYLINDER, TILT	130 mm (5.2 in) bore
HORSE POWER CONTROL	Electronic speed sensing; All-speed antistall

UNDERCARRIAGE

TRACK FRAMES	R6-152-5 heavy-duty forestry Integral track guides, ramp angles
TRACK CHAIN	F8/D6D 203 mm (8 in) pitch sealed and greased
FINAL DRIVE	(2) axial piston motors; Infinitely variable speed
TRACTIVE EFFORT	280 kN (63,000 lbf)
GEARBOX	Triple reduction planetary type with brake
FRONT IDLER	Hydraulic track adjuster; Spring shock absorber
SLIDES, UPPER	Replaceable, bolt-on; Optional rollers
ROLLERS, LOWER	(9) D6 single and double flange tractor type
TRACK SHOE	610 mm (24 in) single/double grouser
Optional	710 mm (28 in) single grouser tri-track 760 mm (30 in) double grouser tri-track 915 mm (36 in) triple grouser tri-track

TOP SPEED

LOW RANGE	1,9 km/h (1.2 mph)
HIGH RANGE	4,2 km/h (2.6 mph)

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 1,190 mm (47 in) ball circle diameter Perforated plate on doors for ventilation Hydraulic operated engine enclosure Rear air intake for cooling system and engine Vandal protection; Smooth exterior
SWING BEARING ENCLOSURE	

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 Hydraulic proportional for boom/travel/swing with electronic 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
CONTROLS	
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; Alarm for track movement

OPTIONAL EQUIPMENT

High rotation wrists: 110°, 340°; R7-150-2 undercarriage; High output LED lighting

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822D FELLER BUNCHER



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