



The Tigercat 860C and 870C series feller bunchers are field-proven in the most demanding clear fell applications on the planet, leading the industry in efficiency, performance, reliability and longevity.

## BENEFITS AND ADVANTAGES:

### Powerful, efficient Tier 3 engine

#### 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 area

#### Twin swing drive system, powerful swing torque

- Higher swing torque, lower gear tooth loads
- Smooth and quiet swing operation

#### ER boom technology

- ER technology increases production, conserves energy
- Smooth planar boom motion reduces operator fatigue
- ER control switch provides a boost for extra stick force
- Structural parts are well proven in high cycle applications

#### Excellent service access

- Power operated clamshell style engine enclosure
- Easy access to all sides of the engine
- Excellent access to major components, daily service points

### Tigercat-built forestry undercarriages

- Long frames and wide stance carbody for excellent stability

#### Super-duty leveling system

- Large pins and roller bearings eliminate wear in pivot joints
- Frames are built with thick steel sections to minimize flex
- Field-proven in over 1,000,000 hours of operation

#### Separate compartments for engine and hydraulic components

- Shields separate engine from hydraulic pumps and valves

#### 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

SPECIFICATIONS	860C	870C	L870C	LX870C
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#### DIMENSIONS with standard single grouser shoes

WIDTH with steps	3 380 mm (133 in)	3 430 mm (135 in)	3 430 mm (135 in)	3 430 mm (135 in)
LENGTH less boom	5 540 mm (218 in)	5 740 mm (226 in)	5 280 mm (208 in)	5 280 mm (208 in)
HEIGHT less skylight	3 300 mm (130 in)	3 300 mm (130 in)	3 710 mm (146 in)	3 710 mm (146 in)
GROUND CLEARANCE	710 mm (28 in)	710 mm (28 in)	710 mm (28 in)	710 mm (28 in)
WEIGHT less head/adaptor	29 260 kg (64,500 lb)	31 300 kg (69,000 lb)	35 600 kg (78,490 lb)	35 600 kg (78,490 lb)
TAIL SWING over side	1 445 mm (57 in)	1 420 mm (56 in)	1 420 mm (56 in)	1 420 mm (56 in)

#### POWER

ENGINE	Cummins QSL9 Tier 3 224 kW (300 hp) @ 1800 rpm; Precleaner, 2-stage engine air cleaner
COOLING	Side-by-side radiator, oil cooler, charge air cooler; Removable intake debris screen
FAN	Hydraulically driven automatic variable speed, reversible
FUEL CAPACITY usable	970 L (257 US gal)

#### HYDRAULIC SYSTEM

PUMP, MAIN	Piston	Piston	Piston	Piston (boom/swing)
PUMP, TRACK	N/A	N/A	N/A	(2) Piston, closed loop
PUMP, SAW	Piston	Piston	Piston	Piston
PUMP, WRIST/CLAMP/ACCUM	Piston	Piston	Piston	Piston
PUMP, COOLING FAN	Piston	Piston	Piston	Piston
RESERVOIR	225 L (60 US gal)	225 L (60 US gal)	225 L (60 US gal)	225 L (60 US gal)
FILTRATION	(5) Spin-on, 7 micron full flow (1) Water absorbing	(5) Spin-on, 7 micron full flow (1) Water absorbing	(5) Spin-on, 7 micron full flow (1) Water absorbing	(5) Spin-on, 7 micron full flow (1) Water absorbing
CYLINDERS, HOIST	(2) 110 mm (4.3 in) bore	(2) 120 mm (4.7 in) bore	(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	(2) 110 mm (4.3 in) bore	(2) 110 mm (4.3 in) bore
CYLINDER, TILT	130 mm (5.2 in) bore	130 mm (5.2 in) bore	130 mm (5.2 in) bore	130 mm (5.2 in) bore
CYLINDERS, LEVELING	N/A	N/A	(2) 180 mm (7 in) bore	(2) 180 mm (7 in) bore
HORSE POWER CONTROL	Electronic speed sensing All-speed antistall	Electronic speed sensing All-speed antistall	Electronic speed sensing All-speed antistall	Electronic speed sensing All-speed antistall

#### UNDERCARRIAGE

TRACK FRAMES	R6-152 heavy-duty forestry Integral track guides, ramp angles	R7-150-2 super-duty forestry Integral track guides, ramp angles	R7-150L-2 super-duty forestry Integral track guides, ramp angles	R7-150L-2 super-duty forestry Integral track guides, ramp angles
TRACK CHAIN	F8/D6D 203 mm (8 in) pitch Sealed and greased	FH400 215 mm (8.5 in) pitch	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	(2) Axial piston motors Infinitely variable speed	(2) Axial piston motors Infinitely variable speed
TRACTIVE EFFORT	280 kN (63,000 lbf)	334 kN (75,000 lbf)	367 kN (82,600 lbf)	343 kN (77,100 lbf)
GEARBOX	Triple reduction planetary with brake	Triple reduction planetary with brake	Triple reduction planetary with brake	Triple reduction planetary with brake
FRONT IDLER	Hydraulic track adjuster Spring shock absorber	Hydraulic track adjuster Spring shock absorber	Hydraulic track adjuster Spring shock absorber	Hydraulic track adjuster Spring shock absorber
SLIDES, UPPER	Replaceable, bolt-on	Replaceable, bolt-on	Replaceable, bolt-on	Replaceable, bolt-on
Optional	(3) rollers	N/A	N/A	N/A
ROLLERS, LOWER	(9) D6 single/double flange, tractor	(9) FH400 single/double flange, excavator	(9) FH400 single/double flange, excavator	(9) FH400 single/double flange, excavator
TRACK SHOE	610 mm (24 in) single grouser 710 mm (28 in) single grouser tri-track 760 mm (30 in) double grouser tri-track 915 mm (36 in) triple grouser tri-track	610 mm (24 in) single grouser 710 mm (28 in) single grouser	610 mm (24 in) single grouser 710 mm (28 in) single grouser	610 mm (24 in) single grouser 710 mm (28 in) single grouser
Optional				
LEVELING	N/A	N/A	20° forward; 7° rear; +/-15° side	20° forward; 7° rear; +/-15° side

#### TOP SPEED

LOW RANGE	1,9 km/h (1.2 mph)	1,8 km/h (1.1 mph)	1,6 km/h (1 mph)	1,8 km/h (1.1 mph)
HIGH RANGE	4,2 km/h (2.6 mph)	4,2 km/h (2.6 mph)	3,7 km/h (2.3 mph)	4,2 km/h (2.6 mph)

#### ER BOOM SYSTEM with 30° wrist, 5702 saw

MAXIMUM CUT RADIUS	8 460 mm (333 in)	8 460 mm (333 in)	8 460 mm (333 in)	8 460 mm (333 in)
MINIMUM CUT RADIUS	4 800 mm (189 in)	4 800 mm (189 in)	4 800 mm (189 in)	4 800 mm (189 in)
BARE PIN LIFT full reach	6 080 kg (13,400 lb)	8 435 kg (18,600 lb)	8 435 kg (18,600 lb)	8 435 kg (18,600 lb)

#### BRAKES

TRACK	Friction disc, automatic spring applied, hydraulic release	Friction disc, automatic spring applied, hydraulic release	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	Friction disc, manual spring applied, hydraulic release	Friction disc, manual spring applied, hydraulic release

#### 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	Hydraulically operated engine enclosure, manual backup; Rear air intake for cooling system and engine; Vandal protection; Smooth exterior



The patented ER boom system allows the machine operator to extend and retract the feller buncher boom on a horizontal plane smoothly and quickly using a single joystick. 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 needed to move the boom system.

## SPECIFICATIONS

## 860C

## 870C

## L870C

## LX870C

### OPERATOR'S STATION

CAB	Insulated, pressurized and isolation mounted; A/C, heater, defroster with side-mount controls; Skylight or flat hatch Full-length polycarbonate windshield/entry door; Polycarbonate right-side and rear windows One-piece polycarbonate side door window with steel guarded tempered glass upper sliding section for ventilation; AM/FM digital stereo with CD player; (2) Power points			
OPERATOR CONTROLS	Hydraulic proportional for boom/travel/swing with electronic travel speed control limiter; Electronic for clamp/accumulating arms/wrist/leveling Electric switch for ER; 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 v	(2) 12 v	(2) 12 v	(2) 12 v
ALTERNATOR	110 amp, 24 v	110 amp, 24 v	110 amp, 24 v	110 amp, 24 v
SYSTEM VOLTAGE	24 v	24 v	24 v	24 v
LIGHTING	(8) Halogen	(7) HID; (2) Halogen	(7) HID; (2) Halogen	(7) HID; (2) Halogen
	(4) Service lights, engine enclosure	(6) Service lights, engine enclosure	(6) Service lights, engine enclosure	(6) Service lights, engine enclosure
Optional	(7) HID; (2) Halogen	N/A	N/A	N/A
	(6) Service lights, engine enclosure			

### OTHER STANDARD EQUIPMENT

Power-link	Power-link	Power-link	Power-link
Fuel suction strainer	Fuel suction strainer	Fuel suction strainer	Fuel suction strainer
Alarm for track movement	Alarm for track movement	Alarm for track movement	Alarm for track movement

### OPTIONAL EQUIPMENT

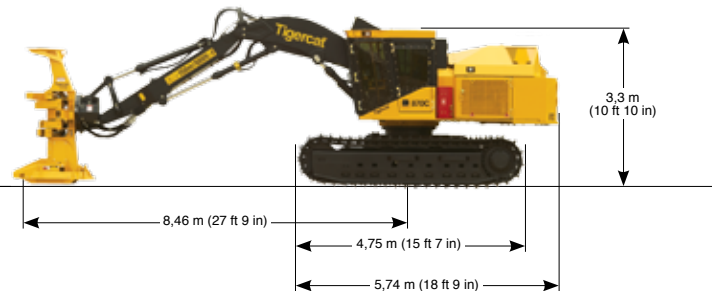
High rotation wrists: 110°, 340°	High rotation wrists: 110°, 340°	High rotation wrists: 110°, 340°	High rotation wrists: 110°, 340°
Bolt-on toolbox	Bolt-on toolbox	Bolt-on toolbox	Bolt-on toolbox
Cold weather kit	Cold weather kit	Cold weather kit	Cold weather kit
High-flow fuel filter	High-flow fuel filter	High-flow fuel filter	High-flow fuel filter
R6-140-5 undercarriage	860 F32ER boom 9,91 m (32.5 ft)		
Counterweight			

TIGERCAT RESERVES THE RIGHT TO AMEND THESE SPECIFICATIONS AT ANY TIME WITHOUT NOTICE

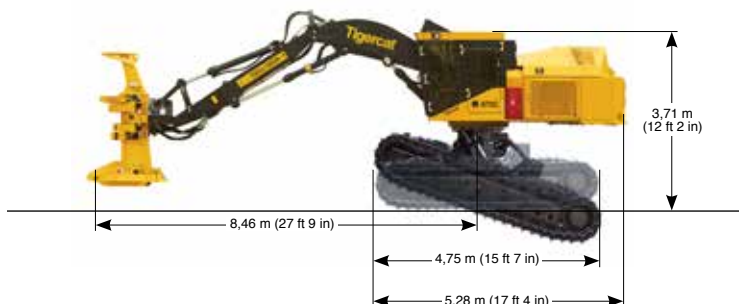
## 860C FELLER BUNCHER



## 870C FELLER BUNCHER



## L870C/LX870C FELLER BUNCHER



### 860C

With lightning quick boom cycles, the 860C is best suited to high volume, plantation clear felling.

### 870C

The stable, heavy-lifting 870C is designed to handle large timber, mixed natural stands and difficult or rocky terrain.

### L870C

Equipped with Tigercat's super-duty leveling undercarriage, the L870C is built for large timber, steep slopes and extreme terrain.

### LX870C

Closed loop track drives for even higher performance and efficiency on steep slopes.





*Tidy engine house layout*



*Separate, easily accessed pumpstack*



*Access to all sides of the engine*



*Variable, high capacity cooling*



*Rear air intake away from saw debris*



*Full length window with view of tracks*



*Long track frames and wide carbody for stability on slopes*



*Massive pins and cylinders, thick steel plate and tapered roller bearings*



*Efficient ER boom technology for quick cycles and reduced operator fatigue*



The clamshell style retracting roof enclosure provides clear and easy access to the engine, valves and cooling system components. Hose and wire routing is neat and tidy.

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