



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

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) |
| 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) |
| 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 |
| CYLINDER, TILT | 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 |

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) |
| MINIMUM CUT RADIUS | 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 |
| SWING | 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 |
| Optional | (4) Service lights, engine enclosure (7) HID; (2) Halogen (6) Service lights, engine enclosure | (6) Service lights, engine enclosure N/A | (6) Service lights, engine enclosure N/A | (6) Service lights, engine enclosure N/A |

OTHER STANDARD EQUIPMENT

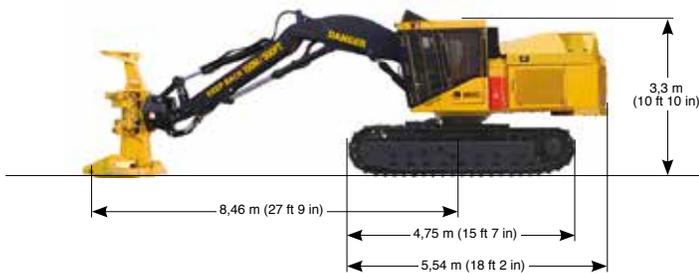
| | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|
| Power-link | Power-link | Power-link | Power-link |
| Fuel suction strainer | Fuel suction strainer | Fuel suction strainer | Fuel suction strainer |
| Alarm for track movement |

OPTIONAL EQUIPMENT

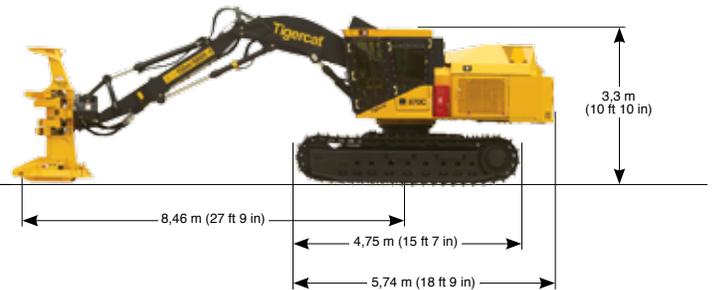
| | | | |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| High rotation wrists: 110°, 340° |
| Bolt-on toolbox | Bolt-on toolbox | Bolt-on toolbox | Bolt-on toolbox |
| Cold weather kit | Cold weather kit | 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

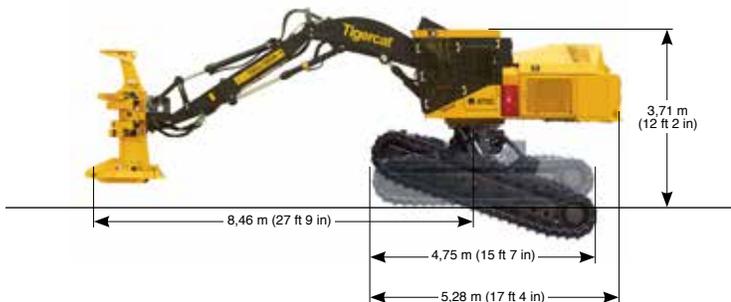
860C FELLER BUNCHER



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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