

875 LOGGER



THE 875 LOGGER

The 875 logger is a heavy duty, purpose built, no compromise forestry carrier that can be configured for heavy duty cycle loading or processing.

BENEFITS AND ADVANTAGES:

Powerful, efficient Tigercat FPT engine

- Tier 2 or Tier 4 options available
- Simple, reliable SCR emission control technology for Tier 4

Efficient, high-capacity cooling system

- Automatic variable fan speed for improved fuel efficiency
- Automatic reversing cycle to clean the heat exchangers

Smooth, quiet, twin swing drive system

- High swing torque and reduced gear tooth loads
- Large diameter, high capacity bearing

Dedicated, energy recovery swing system

- Closed loop drive feeds power back to the engine when swing decelerates, reducing fuel consumption and recovering energy for other machine functions
- Dedicated swing system enhances machine performance

Durable construction for extreme duty

- Heavy wall side bumpers and solid cast counterweight
- Upper assembly will not dent or deform from impacts

Excellent service access

- Power operated side engine door and overhead roof enclosure
- Full access to engine, major components and service points

Compartmentalized component arrangement

- Shields separate the engine from hydraulic pumps and valves

Tigercat F7-150 forest duty undercarriage

- Designed and built to withstand rigorous, full time, forest duty applications

Quiet, climate controlled operator's station

- Ergonomic cab with rear entry and generous storage space
- Full length front window and additional floor windows for clear sight line to the tracks
- High output climate control system with multiple vents



THE 875 ADVANTAGE

- Heavy duty side bumpers and durable solid cast counterweight.
- Power clam, butt-n-top and harvester head compatibility.
- Closed loop swing drive feeds power back to the engine when swing decelerates, reducing fuel consumption and recovering energy for other machine functions. Tigercat's efficient hydraulic circuits enhance overall performance and productivity.
- Expansive, refined operator's station with ergonomic controls, easy entry and clear sight lines.



TIGERCAT FPT ENGINE TECHNOLOGY

Tigercat FPT Tier 2 and 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.

TIGERCATPOWER.
TIGERCATSUPPORT.

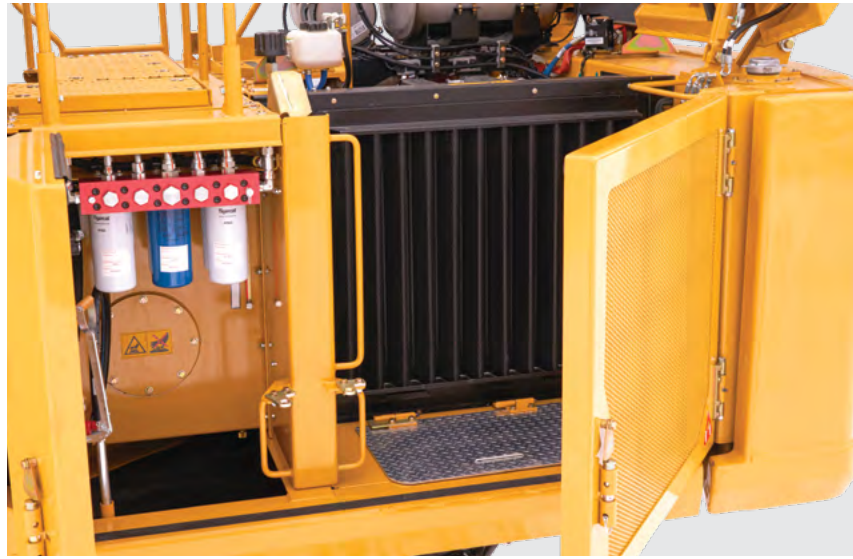
Tigercat
by **FPT**
POWERTRAIN TECHNOLOGIES



UNMATCHED ACCESS



The engine and hydraulic pumps are compartmentalized and easily accessed. Easy access to daily service points.



Swing-out doors access filters and cooling system components for quick daily service.



POWER OPERATED SIDE DOOR AND ROOF ENCLOSURE.

Neat, clean component layout. Thoughtful component arrangement allows for optimal cooling airflow and full access to all service points with room to work.

875

DIMENSIONS

WIDTH with steps	3 480 mm (137 in)
SHIPPING HEIGHT	3 430 mm (135 in)
GROUND CLEARANCE	710 mm (28 in)
WEIGHT less attachment	36 290 kg (80,000 lb)
TAIL SWING over rear	3 300 mm (131 in)
TAIL SWING over side	1 590 mm (63 in)

POWER

ENGINE Tier 4f	Tigercat FPT N67 Tier 4f
▶ RATED	212 kW (284 hp) @ 2,200 rpm
▶ PEAK	212 kW (284 hp) @ 2,200 rpm
ENGINE Tier 2f	Tigercat FPT N67 Tier 2
▶ RATED	210 kW (282 hp) @ 2,200 rpm
▶ PEAK	210 kW (282 hp) @ 2,200 rpm
AIR FILTRATION	Precleaner, 2-stage engine air cleaner
COOLING	Side by side radiator, oil cooler, charge air
▶ Optional	Removable intake debris screen
FAN	Hydraulic driven automatic variable speed, reversible
FUEL CAPACITY usable	800 L (211 US gal)
DEF CAPACITY Tier 4f	80 L (21 US gal)

HYDRAULIC SYSTEM

PUMP, MAIN	Piston, load sensing
PUMP, SWING	Piston, closed loop, energy recovery
PUMP, ATTACHMENT	Piston, load sensing
PUMP, COOLING FAN	Gear
RESERVOIR	225 L (60 US gal)
FILTRATION	(5) Spin-on, 7 micron full flow (1) water absorbing
CYLINDERS, HOIST	(2) 140 mm (5.5 in) bore
CYLINDER, STICK	150 mm (5.9 in) bore
CYLINDER, POWER CLAM/B-N-T	110 mm (4.3 in) bore
HORSE POWER CONTROL	Electronic speed sensing

UNDERCARRIAGE

TRACK FRAMES	F7-150 heavy duty forestry 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	291 kN (65,500 lbf)
GEARBOX	Triple reduction planetary with brake
FRONT IDLER	Hydraulic track adjuster; Spring shock absorber
SLIDES, UPPER	Replaceable, bolt-on
ROLLERS, LOWER	(8) FH400 single/double flange
TRACK SHOE	710 mm (28 in) double grouser, tall lug

TOP SPEED

LOW RANGE	2,3 km/h (1.4 mph)
HIGH RANGE	4,5 km/h (2.8 mph)

BRAKES

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

ROTATING UPPER

SWING DRIVE	8 rpm variable speed; 360° continuous rotation, Double reduction, twin swing drive planetary gearboxes, twin piston swing motors
SWING BEARING	1 370 mm (54 in) ball circle diameter
ENCLOSURE	Hydraulically operated roof and side engine enclosure with manual backup; Large air intake for cooling system; Vandal protection; Smooth exterior

BOOM SYSTEM BUTT-N-TOP/POWER CLAM

MAXIMUM RADIUS	10 920 mm (430 in)
HYDRAULIC BARE PIN LIFT*	6 600 kg (14,500 lb)

BOOM SYSTEM HARVESTER

MAXIMUM RADIUS	10 910 mm (430 in)
HYDRAULIC BARE PIN LIFT*	6 600 kg (14,500 lb)

BOOM SYSTEM WITH LIVE HEEL

MAXIMUM RADIUS	12 450 mm (490 in)
HYDRAULIC BARE PIN LIFT*	4 540 kg (10,000 lb)

OPERATOR'S STATION

CAB	Insulated and pressurized; A/C, heater, defroster Full length polycarbonate windshield Polycarbonate side, rear, door and floor windows Machine monitoring system with warning horn AM/FM digital stereo with CD player (2) Power points
OPERATOR CONTROLS	Hydraulic proportional boom/travel/swing Electronic for horsepower/fan control Electric switch for swing brake/speed Electronic control system with colour display screen interface for machine monitoring and function adjustment
SEAT	Full suspension air ride, fully adjustable Armrest mounted Tigercat joysticks

ELECTRICAL

BATTERY	(2) 12 v
ALTERNATOR	110 amp 24 v
SYSTEM VOLTAGE	24 v
LIGHTING	(12) High output LED; (5) LED service, engine enclosure

OTHER STANDARD EQUIPMENT

Fuel suction strainer; Alarm for track movement
Load ticket chute

OPTIONAL EQUIPMENT

Cold weather kit; High view cab mounted camera system. Heavy duty stick cylinder guard; Jaw/tilt control swap; Butt-n-top tilt float

TIGERCAT 875



*Hydraulic bare pin lift calculated at 10 668 mm (35 ft) reach as per SAE J2417

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.
WEIGHTS AND DIMENSIONS MAY VARY SUBJECT TO MACHINE OPTIONS AND CONFIGURATIONS.
FOR THE MOST CURRENT SPECIFICATIONS PLEASE REFER TO THE TIGERCAT WEBSITE OR MOBILE APP.

EMAIL	comments@tigercat.com
PHONE	519.753.2000
WEBSITE	www.tigercat.com
ADDRESS	54 Morton Ave. East, Brantford, Ontario Canada, N3R 7J7
MAIL	Box 637 N3T 5P9

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