610E SKIDDER

Tigercat

The Tigercat 610E leads the compact skidder class in operator visibility, agility and performance. The powerful 610E is ideal in tight spaces, soft soil conditions and selective logging. Excellent cab ergonomics, clear operator sight lines and painless maintenance routines make Tigercat skidders a top choice among operators.

BENEFITS AND ADVANTAGES:

Powerful, efficient Tigercat FPT engine
- Automatic variable engine speed for high fuel efficiency
- Operator controlled maximum speed setting
- Simple, reliable SCR emission control technology for Tier 4f

EHS 'efficient high speed' hydrostatic drive
- Extremely efficient driveline with electronic control system
- Capable of high speeds in forward and reverse
- High performance, minimal wheel spin in adverse terrain

Advanced electronic control system
- Intuitive user interface and better fuel economy
- Provides precise control of all machine functions

High capacity cooling system
- Automatic variable pitch fan for reduced fuel consumption in cold climates
- Reversing airflow to keep the heat exchangers clean

Durable, reliable Tigercat axles

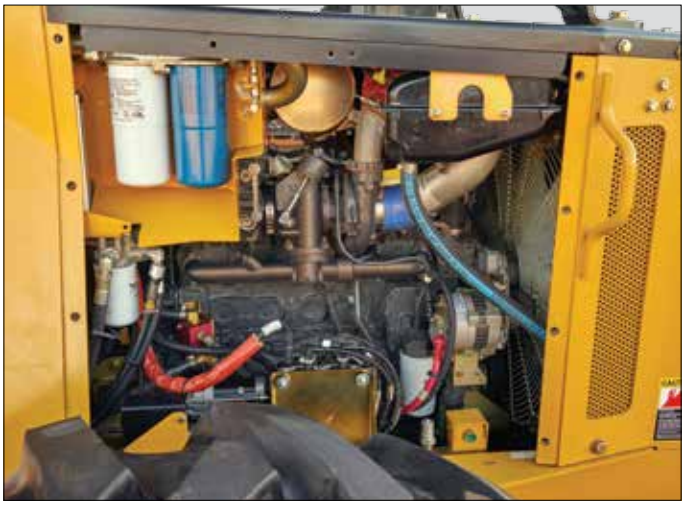
Designed and built for extreme duty
- Strength optimized frames
- Strong, long-life centre section constructed with thick steel plate, oversized pins and tapered roller bearings

Excellent service access
- Neat, compact engine enclosure
- Easy access to daily service points
- Tilt cab for access to pumps, motors and driveline

Turnaround® equipped operator's station
- Two-position Turnaround seat with ergonomic joystick steering and full rear-facing drive controls
- Grapple and arch functions controlled by one joystick
- Excellent visibility to the sides of the engine house

Large capacity Tigercat dual cylinder grapples
- Choice of plate or box tongs
- Widest tip-to-tip openings in each size class to quickly gather scattered bunches

Strong centre section with large pins and tapered roller bearings.



Neat, clean engine compartment with quick access to daily service points.

Well guarded Tigercat axles.

Convenient access to all service points promotes better machine maintenance routines.

Excellent layout with easy access to all major components.

Tilting cab to access pumps and driveline

Clean routing for hoses and wires.

Comfortable seating position when travelling grapple-forward or gathering a bunch. Rotating seat with joystick steering. Better ergonomics and reduced neck strain.

TURNaround®

Tigercat's exclusive Turnaround seat provides full rear-facing machine control.

Drive comfortably and operate all machine functions with optimal visibility whether travelling blade-forward or grapple-forward.

Quicker cycles, reduced fuel consumption, improved decking capabilities and added versatility.

Tigercat® by FPT POWERTRAIN TECHNOLOGIES

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.

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

EHS™

Speed and tractive effort

EHS is capable of providing the tractive effort of the deepest gear ratio offered in Tigercat's standard transfer case as well as the top speed of the shallowest gear ratio offered in the standard transfer case.

This is accomplished with advanced computer logic and the ability to take one of the drive motors offline when high tractive effort is not required. In this case all pump flow is directed to one hydraulic motor, increasing both travel speed and motor efficiency.

When operating conditions demand high tractive effort, both hydrostatic motors are working. When tractive effort requirements are reduced -- for instance, when traveling empty or loaded on flat terrain -- all of the pump flow is directed to one motor for higher travel speeds.

High capacity dual cylinder grapples and high visibility arch.

SPECIFICATIONS

DIMENSIONS	
LENGTH	6 985 mm (275 in)
WHEELBASE	3 935 mm (155 in)
WIDTH	3 330 mm (131 in)
WIDTH narrow offset	3 020 mm (119 in)
HEIGHT	3 150 mm (124 in)
GROUND CLEARANCE	635 mm (25 in)
WEIGHT	15 875 kg (35,000 lb)
POWER	
ENGINE	Tigercat FPT N67 Tier 4f 153 kW (205 hp) @ 2,200 rpm Precleaner and 2-stage engine air cleaner Tigercat FPT N67 Tier 2 159 kW (213 hp) @ 2,100 rpm Precleaner and 2-stage engine air cleaner
TOP SPEED	21 km/h (13 mph)
COOLING	Side-by-side aluminum radiator, oil cooler, charge air cooler and A/C condenser
FAN	Fixed pitch, blower
Optional	Flexxaire® variable pitch, reversing
FUEL CAPACITY USABLE	305 L (81 US gal)
Optional	430 L (110 US gal)
DEF CAPACITY	43 L (11 US gal)
POWER TRAIN	
TRANSMISSION	EHS (efficient high speed) hydrostatic driveline (2) variable displacement motors
AXLE, FRONT	Tigercat IB15 wide, inboard planetary, barrel differential; +/-15° oscillation
AXLE, REAR	Tigercat IB17, inboard planetary, barrel differential; Fixed
DIFFERENTIAL LOCKS	Independent front and rear
HYDRAULIC SYSTEM	
PUMP, DRIVE	Piston
PUMP, MAIN 1	Piston for all machine functions
PUMP, MAIN 2	Gear for cooling
FILTRATION	(2) spin-on, 7 micron full-flow
CYLINDERS, ARCH	(2) 100 mm (4 in) bore (single function) (4) 100 mm (4 in) bore (dual function)
CYLINDERS, STEER	(2) 85 mm (3.25 in) bore
CYLINDERS, BLADE	(2) 90 mm (3.5 in) bore
RESERVOIR	105 L (28 US gal)
BRAKES	
DYNAMIC BRAKING	Hydrostatic
SECONDARY BRAKES	Enclosed, oil cooled
PARK BRAKE	Caliper; Spring applied/hydraulic release

TIRES	
STANDARD	30.5Lx32,20
OPTIONAL	24.5x32,16; 28x26,16; 67x34-26,14; 73x44-32,16
ARCH	
STANDARD	Single function, continuous rotate
OPTIONAL	Dual function, continuous rotate
GRAPPLE	
STANDARD	Tigercat 1,21 m^2 (13 ft^2) 2-cylinder, plate or box tong
MAXIMUM OPENING	3 250 mm (128 in)
OPTIONAL	Tigercat 1,39 m^2 (15 ft^2) 2-cylinder, plate or box tong
MAXIMUM OPENING	3 505 mm (138 in)
BLADE	
WIDTH	2 285 mm (90 in)
With optional extensions	2 920 mm (115 in)
ELECTRICAL	
BATTERY	(2) 12 v
ALTERNATOR	80 amp, 24 v
SYSTEM VOLTAGE	24 v
OPERATOR'S STATION	
CAB	Insulated, pressurized and isolation mounted air conditioner/heater/defroster; (2) doors with slide side windows and hinged screens Forward sloping windshield Machine monitoring system with LCD display AM/FM digital stereo CD, CB radio
SEAT	Extreme duty Turnaround, air ride; Fully adjustable height, seat back recline, lumbar support and armrests; 2-position mechanical lock, 100° rotating for rear-facing drive, heated and cooled
OPERATOR CONTROLS	Electronic; joystick for grapple/blade/steering Electronic, foot pedal, front and rear with forward/reverse selector switch for drive Electronic control system with colour display screen interface for machine monitoring and function adjustment
OTHER STANDARD EQUIPMENT	
	Alarm for reverse drive; Fuel suction strainer; Fire extinguisher; Pressurized water system; Fenders
OPTIONAL EQUIPMENT	
	Hydraulic winch; Halogen lighting package HID lighting package; Cold weather kit

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