



Timberjack

380C/450C/480C



Skidders

FMG Timberjack

The C-Series. More productive...

Over a hundred improvements combine to make these top-of-the-line Timberjack skidders the most productive and most reliable machines we have ever built.

You might well ask how we could find a 100 ways to improve a best-selling skidder. We didn't do it alone. In the process of evaluating every part of the successful B-Series machines, we gave full consideration to comments and suggestions from owners, operators and dealers.

Together, the improvements made show a significant advance in productivity, in ease of operation and operator comfort, in reliability, and in the care for the forest environment.

But the fundamentals continue — the excellent power-to-weight ratio which makes these skidders so responsive, and the well-balanced load distribution which accounts for their soft footprint. And, of course, every structural change was made to build on the Timberjack Tough reputation.

Quick cycle times, more wood to roadside. When you watch a C-Series skidder working to its potential, whether single or dual arch grapple, or cable, you'll see quick response, fast positioning and impressive skidding power.



Dual Arch Grapple. The parallel action boom makes this type of grapple first choice in a number of situations: in scattered wood, the grapple head can be shifted forward and back instead of jockeying the machine, saving time; this

variable reach is also helpful when picking up a load on uneven ground; and because the load can be shifted forward for best weight distribution, dual arch is the choice for big loads of smaller wood on long hauls. Dual arch is available on the 450C and the 480C, with a choice of sorting and bunching heads to suit the wood.



Single Arch Grapple. This is the choice where the ground is even to rolling and the wood has been well-piled for quick and easy pick-up. Compared to a dual arch, single arch offers lower first cost, lower weight and simpler hydraulics. Single arch is available on all C-Series machines, along with a choice of heads to suit the conditions.

Cable. While grapple skidding is now the accepted standard behind mechanical felling, cable skidding continues as the best choice in many applications. Cable skidders cost less and are better suited to steep and rough ground where it would be difficult, if not impossible, to position a grapple for pick-up. In some soft ground situations, the cable skidder's lighter weight and the capability to drop the logs temporarily, then winch them in from solid ground, can make it the only choice. Cable skidders are also suited to very large wood and can be very effective skidding large loads of pre-bunched smaller stems.

Cable skidder winches. A wide choice from 30,000 lb (133 kN) to 60,000 lb (266 kN) lets you match both the machine and the winch to the job. Options are shown on the outside back page.

Adjustable fairlead allows you to position the load to suit the wood. Three positions are provided on the 380C and 450C and two on the 480C. A clear-view arch is standard on the long frame 380C, the 450C and the 480C.

Fenders. C-Series cable skidders have proper heavy duty rolled fenders built into the rear frame — not add-ons to a rear frame designed for grapples.

You simply cannot make a better choice for all-out productivity in cable skidding than these machines. They have the power, the weight distribution and the stability to move a high volume of wood at minimum cost. You get all the C-Series performance features not specific to grapples, and you get the stability of a front-axle walking beam which adds machine weight to counteract the tipping pull of off-angle winching. And an easier, less tiring ride for the operator.



Easier on the environment, too. With Timberjack skidders you have an exceptionally broad choice of axles and tires to suit the ground conditions. A selectable rear axle diff lock is available. Usually OFF for improved maneuverability, tighter turns and reduced ground disturbance, it is shifted to ON when added traction is needed. And to keep fluids where they belong, the fuel tank neck is larger to reduce spillage when filling; there are drain valves on the engine and transmission for easier recovery of used oil; and quick-connect ports are provided for checking the hydraulic system.

380C	— 152 hp (113kW) Turbo Cummins
450C	— 174 hp (130kW) Aftercooled Turbo Cummins
480C	— 177 hp (132kW) Aftercooled Turbo Cummins

with quality features everywhere



Positive engine cooling with higher capacity fan and additional vent holes in the shrouds for maximum air flow. Three pass clear-flow 8-tube-in-line radiator core with 5-1/4 fins per inch (25 mm). Top and bottom tanks are bolted on for service convenience.

Large 18 gal (68 L) hydraulic tank located below radiator for more efficient cooling. Million cycle pressure hoses and in-tank filtration 95% efficient at 10 microns.

Dual pump hydraulic system on grapple models applies full power full time to both steering and grapple functions. Selectable transmission declutch option adds even more speed to grapple operations — automatic when brake is applied or locked out for engine braking downhill.



Protected heavy wall dozer cylinders are interchangeable with the steering cylinders on the 380C and 450C — a convenient service parts feature. Clevises are friction welded to the cylinder rods for maximum strength.

Front axle walking beam design beats a centre trunnion for machine stability, and provides a smoother ride for the operator.

Onboard axle planetaries can be serviced without removing the wheels. No-spin differentials front and rear or optional rear axle diff lock.

Solid, all-welded canopy meets SAE recommendations for ROPS, FOPS and OPS. Screened doors are wide and lockable. Side and rear screens are hinged for cleaning optional all-weather inserts and the rear screen has a quick release from the inside. A noise-reducing molded fiberglass headliner is standard.

Planned service access throughout. No tools required to check engine oil. Large belly pan doors front and rear allow trash removal and access to drive-lines, greaseable transmission seal, steering cylinders and auxiliary disc brake.



Massive ball and taper pin hinge assemblies, sealed for long life, each in a removable cartridge for field service. Frames are all-welded — no bolts to shake loose. Each assembly is deep penetration welded for maximum strength.

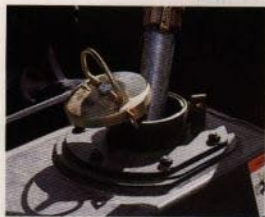


Deluxe suspension seat with arm rests, adjustable to suit operator weight, height and reach. Can be angled 15° to the right or straight ahead — operator's preference. Cloth seat optional.

e you look

Grapple winch. 40,000 lb (177kN) standard on all grapples. Wet clutch, wet brake, for top performance and reliability.

An Accumulator, which maintains constant grapple pressure to secure the load, is standard on the 480 dual arch skidder, optional on all others.



Full shift fuel tank on all models has large filler neck for faster fueling and reduced spillage. A removable mesh screen reduces contamination. Lockable cap.



Timberjack's Ramguard arch provides protection and load control while allowing good visibility. Note protective covers on hydraulic lines.

and easier to run than ever



New 32000-Series transmission. This is a significant upgrade in reliability. And in addition to the well-known productivity advantages of a fully reversing powershift transmission and torque converter combination, we have added a modulated soft shift for faster cycle times and reduced shock loads on the machine and the operator.

Transmission declutch. Besides dual-pump hydraulics in the grapple skidders, there is now an optional transmission declutch to add real zip to the grapple functions. Operator selectable, declutching can be automatic when the brake is applied or locked out on hills to allow engine braking, or when loading the machine on a transport. This feature is a time-saver in another way as well: as soon as the skidder is in position and the brake applied, the operator can shift into forward as he turns to the grapple controls. Then, when the load is secure, he simply releases the brake and drives away.

Rear axle differential lock. While no-spin differentials are standard front and rear on cable skidders, a rear axle diff lock is standard on grapples. It can be ON for added traction, or OFF

(normal) for improved maneuverability – tighter turns, and reduced ground disturbance. May be shifted on the fly.

Steering wheel. Not just an ordinary wheel but a fast response skidder steering wheel. Quick as a stick and driver friendly.

Left side braking. Left foot service brake and left hand auxiliary brake. Parking brake on floor to the left of the seat.

Full instrumentation plus warning lights for air, hydraulic and transmission filters; warning light and buzzer for transmission and engine overheating; indicators for declutch and diff lock selection.

Key start and lockable doors, battery box, fuel tank and access to hydraulic tank to discourage vandalism and protect your investment.



All-weather cab options include tinted Lexan sliding side and rear windows and windshield with wiper/washer, heating and air conditioning systems. Also optional are acoustical door and cab panels and cushioned sound-reducing floor mats. The C-Series cab is a good place to work.

REFERENCE GUIDE TO STANDARD AND OPTIONAL EQUIPMENT

	380 C		450 C			480 C		
	Cable	S/A	Cable	S/A	D/A	Cable	S/A	D/A
Engines:								
152 hp (113 kW) Cummins Turbo	●	●	—	—	—	—	—	—
174 hp (130 kW) a/c Cummins Turbo	—	—	●	●	●	—	—	—
177 hp (132 kW) a/c Cummins Turbo	—	—	—	—	—	●	●	●
Transmission/Drive Train:								
Full reversing modulated powershift	●	●	●	●	●	—	—	—
3-speed	—	—	—	—	—	●	●	●
Transmission declutch kit	—	○	—	○	○	—	○	○
No-spin differentials	●	●	●	●	●	●	●	●
Lockable differential rear	○	●	○	●	●	○	●	●
Wheelbase:								
120 inches (3 048 mm)	●	—	—	—	—	—	—	—
139 inches (3 531 mm)	○	●	●	●	●	—	—	—
148 inches (3 753 mm)	—	—	—	—	—	●	●	●
Winches:								
30,000 lbs. (133 kN)	●	—	—	—	—	—	—	—
40,000 lbs. (177 kN)	○	●	●	●	●	—	●	●
60,000 lbs. (266 kN)	—	—	○	—	—	●	—	—
Weather enclosure group*	○	○	○	○	○	○	●	●
Blade extensions	○	○	○	○	○	●	●	●
Rolled fenders	●	○	●	○	○	●	—	—
Pre-cleaner	○	○	○	○	○	●	●	●
Heater-pressurizer	○	○	○	○	○	○	○	○
Working lights	○	○	○	○	○	○	●	●
Grapple accumulator	—	○	—	○	○	—	○	●
Air conditioning	○	○	○	○	○	○	○	○

● = standard ○ = optional — = not avail. a/c = aftercooled
 This listing was correct at time of publication and is provided as a guide only. See current specification sheets for standard and optional equipment on individual models.

* Includes tinted Lexan, windshield washer/wiper, acoustical treatment, re-circulating fan, floor mat.

GRAPPLE OPTIONS	APPROVED SORTING (SCISSOR) HEADS					APPROVED BUNCHING HEADS			
	72" (1 829 mm)	82" (2 083 mm)	86" (2 184 mm)	100" (2 540 mm)	104" (2 642 mm)	90" (2 286 mm)	105" (2 667 mm)	110" (2 794 mm)	120" (3 000 mm)
380C-Single Arch	●	●	●	●		●			
450C-Single Arch	●	●	●	●					
450C-Dual Arch	●	●	●	●	●		●	●	
480C-Single Arch					●			●	
480C-Dual Arch					●		●		●

*Timberjack and the donkey symbol are registered trade marks of FMG Timberjack Inc.

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