



Valmet

**430 FXL**  
**430 FX**



**Increase stability**  
and production with Komatsu quality





## Highlights

Valmet 430FX and 430FXL feature a Komatsu designed forestry undercarriage including a new carbody, larger track sets and track chain to improve stability, extend service life and increase production.





**430<sup>FX</sup>**  
**430<sup>FXL</sup>**

Longer and larger track and chain (8.5 inch) adds stability. Heavy duty Komatsu final drives deliver higher reliability.

Multifunction perfection! Independent, closed-loop track drives. Nothing performs as smooth as the 430FX/FXL.

Zero tail swing, 4-way leveling (FXL only) and 540-degree, or continuous rotation improve maneuverability and performance.

Roomy and comfortable cab offers commanding view. Ergonomics maximize operator comfort and efficiency.

Efficient 300hp, Tier 3 engine provides good fuel economy and responsive hydraulic performance.





New carbody design features extended bottom plate with new channel box-style cross members and horizontal stiffeners.



Longer under-carriage with thicker track shoes and 8.5" pitch track chain enhances machine stability.





## The cutting machine for every forest

### A Value-Added Performer

The purpose-built Valmet 430FX/FXL is an exceptional value for felling and harvesting work. This series makes huge performance strides with increased stability, reliability and production. Central to the machine improvements, is the larger undercarriage featuring a redesigned carbody and longer Komatsu tracks to add even more value.

### Superior Multifunction Performance

Nothing performs like Komatsu Forest's closed-loop hydraulic track drive system. The 430 will travel, reach, cut, and swing with power to spare in the track and implement systems. There is never a compromise between high production, performance and operator safety.

### Ideal Maneuverability

Nothing matches Valmet 430s maneuverability. The setback boom allows the operator to cut closer to the tracks in tight situations. Multiple boom options ensure a wide cutting swath.

The 430FXL leveling capability keeps the operator comfortable and productive in steep terrain.

### Operating Environment

The 430FX/FXLs easy-to-use digital control system provides smooth performance for felling or harvesting configurations. The system has built-in machine protection, active self diagnostics and troubleshooting. The controls are adjustable and give the operator flexibility to set their own handling preferences.

### Superior Ergonomics

The 430FX/FXL cab is well equipped, comfortable and designed for efficiency. Controls are positioned to minimize operator fatigue. Large tinted windows provide a commanding view of the work area. Non-glare surfaces eliminate eye strain and keep the operator fresh during long shifts.

### Dependable Tier 3 Power

The 430FXL is equipped with a powerful Cummins 300hp Tier 3 engine. It delivers excellent hydraulic performance with Valmet's superior multifunction capability. A new improved cooling system with auto-reversing fan helps keep the radiator free of debris. An auxiliary hydraulic oil cooler with a temperature controlled fan cools only when needed saving horsepower and fuel.

### Safety First

Certified FOPS, ROPS, OPS and WCB cab protects the operator, allowing them to focus on the job.



### Komatsu Components

Komatsu-built final drives, springs and idlers increase reliability and extend service life.



### Control & Information System

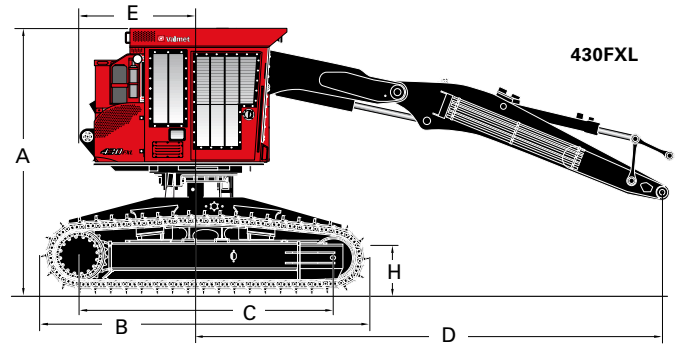
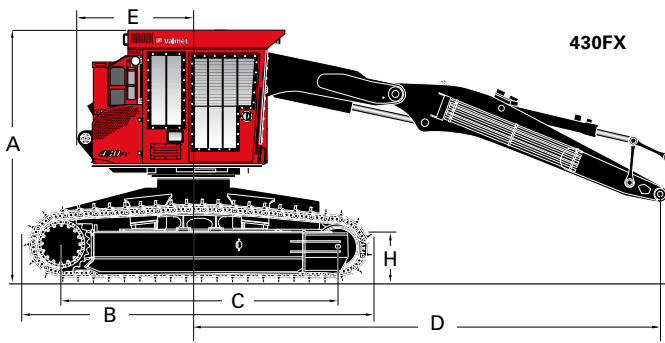
Adjustable controls are easy-to-use keeping the operator up to date with machine performance.



The Valmet 430FX/FXL can be fitted with harvesting or felling boom options designed to fit your work.



# Technical specifications



Dimensions	430FX	430FXL
A Overall height	11' 10" / 3595mm	12' 5" / 3775 mm
B Overall track length	16' 1" / 4915mm	15' 1" / 4590 mm
C Track length (Idler center to sprocket center)	12' 9" / 3875 mm	11' 8" / 3555 mm
D Max boom reach to pin	21' 5" / 6530 mm	21' 5" / 6530 mm
E Tail swing radius*	5' 7" / 1690 mm	5' 7" / 1690 mm
F Track width w/24" 600 mm shoe	10' 4" / 3140 mm	9' 8" / 2935 mm 10' 4" / 3140 mm**
w/28" 700 mm shoe	10' 8" / 3240 mm	10' 0" / 3035 mm 10' 8" / 3240 mm**
w/35.4" 900 mm shoe	11' 3" / 3440 mm	NA 11' 3" / 3440 mm**
G Track gauge	8' 4" / 2540 mm	7' 8" / 2335 mm 8' 4" / 2540 mm**
H Ground clearance	29" / 730 mm	29" / 730 mm

\*To outer most structure. \*\*Optional wide carbody.

## Engine

Make/Model	Cummins QSC, Tier3
Type	Water cooled, 4-cycle, direct injection, turbocharged and charge air cooled
Number of cylinders	In-line, 6-cylinder
Bore x stroke	4.49 in x 5.31 in / 114 mm x 135 mm
Piston displacement	505 in <sup>3</sup> / 8.3 liter
Horse power Peak	300 HP / 224 kW @ 2000 rpm
Horse power Rated	280 HP / 209 kW @ 2200 rpm
Peak torque	1000 lb-ft / 1356 Nm @ 1500 rpm
Cooling system	Side-by-side aluminum core type, engine coolant, charged air and hydraulic oil. Auto reversing fan



## Hydraulic system

Implement pump	Variable displacement piston. Maxflow 91 GPM (344 liter/min).
Track drive pump	2-Variable displacement piston pump. Max flow 57 GPM (216 liter/min)
Auxiliary pump	Optional 28 GPM (106 liter/min) or 45 GPM (170 liter/min)
Travel motor	2-Variable displacement piston
Swing motor	Fixed displacement radial piston
Cylinders	# of cylinders-Bore x Stroke x Rod Dia.
Main boom	1-6.5"x42"x4"/165mm x1067mm x102mm
Stick boom	1-5.5"x34.25"x3.5"/140mm x870mm x89mm
Tool tilt	1-5"x40"x3"/127mm x1016mm x76mm
Leveling*	2-6.5"x14"x3.5"/165mm x356mm x89mm
*430FXL only	

## Travel system

Drive method	Hydrostatic, independent closed loop
Steering control	Foot pedals
Max travel speed Hi	3.0 mph / 4.8 km/h
Max travel speed Lo	1.6 mph / 2.6 km/h
Max tractive effort	61,775 lb / 28 010 kg
Service brake	Hydraulic
Parking brake	Mechanical

## Undercarriage

Carbody	Boxed center frame structure
Frack frame	Box-section
Track type	Grease charged and sealed
Number of shoe/links	430 FX : 47 per side 430 FXL : 44 per side
Rollers	430 FX : 8 per side 430 FXL : 7 per side

Machine Weight	430FX	430FXL
Approx. operating weight*	60,420 lb / 27 405 kg	60,625 lb / 27 500 kg
		61,150 lb / 27 730 kg**

\*Approximate "woods ready" operating weight, fully serviced including 1/2 tank fuel and 175 lb (80 kg) operator, fellerbuncher boom/stick boom, 24" (600mm) single grouser shoe.

\*\*Optional wide carbody.



## Swing system

Rotation	430 FX : Continuous rotation 430 FXL : Non continuous rotation with 540° swing limit
Drive method	Hydrostatic
Swing speed	0 to 8.5 rpm
Swing torque	47,100 lb-ft / 63.9 kNm
Swing brake	Hydraulic
Parking brake	Mechanical

## Electrical system

Type	24V with master disconnect
Alternator	24V, 75A
Work lights	10 - Halogen lights

## Boom Performance

Boom reach to pin	
Max	21' 5" / 6530 mm
Min	7' 6" / 2290 mm
Swath	13' 11" / 4240 mm
Lifting capacity	24,250 lb / 11 000 kg @10' / 3.05m 18,200 lb / 8255 kg @15' / 4.57m 11,500 lb / 5216 kg @20' / 6.10m
Fellerbuncher boom, swing center to att pin, without Attachment	

## Ground pressure

430 FX	
with 24" / 600 mm SG	7.57 psi / 52.2 kPa
with 28" / 700 mm DG*	6.64 psi / 45.8 kPa
with 28" / 700 mm SG*	6.57 psi / 45.3 kPa
with 34.5" / 900 mm TG*	5.30 psi / 36.5 kPa
430FXL	
with 24" / 600 mm SG	8.22 psi / 56.7 kPa
with 28" / 700 mm DG*	7.21 psi / 49.7 kPa
with 28" / 700 mm SG*	7.14 psi / 49.2 kPa
with 34.5" / 900 mm TG*	NA
	8.29 psi / 57.2 kPa** 7.27 psi / 50.1 kPa** 7.20 psi / 49.6 kPa** 5.80 psi / 40.0 kPa**
*Option. **Optional wide carbody.	

## Leveling system – 430FXL only

Type	2-cylinder, 4-way cab leveling system
Leveling angle	
Front	27° / 51%
Rear	5° / 9%
Side	20° / 36% each

## Lubricant and fill capacity

Fuel tank	430FXL: 185 US gallons / 700 liters 430FX: 225 US gallons / 825 liters
Coolant	8 US gallons / 30.3 liters
Engine oil pan	20 US quarts / 18.9 liters
Final drive	11.6 US quarts / 11 liters per side
Swing gear box	4.5 US quarts / 4.3 liters
Hydraulic tank	100 US gallons / 379 liters

## Standard equipments

Operator's environment  
ROPS/FOPS/TOPS/FOG/OPS and WCB certified cab. Air conditioner and heater. AM/FM/CD stereo (satellite and iPod ready). Handheld fire extinguisher 10 lb. Electrical joystick/foot pedal controls. Interior light. Lockable cab door. 3 Emergency escapes. Seat adjustments (height, weight compensation, forward & back, backrest angle, armrest height, joystick forward and back).

Seat belt, 3" wide. 3/4" polycarbonate front window. Instrument panel, gauges, warning lights and an audible alarm. Ventilation fan. Window bar protection

### Engine

Cummins QSC Tier3. Auto reversing fan w/ guarding. Engine compartment service light. Muffler with blanket. Fuel water separator. Engine interface, monitoring system

### Hydraulic system

Auxiliary hydraulic oil cooler w/ temp sensing hydraulic fan. Hydraulic control interface, monitoring system. Travel speed auto shift. Electric hydraulic oil fill pump

### Electrical system

24V with master disconnect. IQAN programmable digital control system. 10-Halogen work lights

### Upper structure

45cc swing motor. 430FX : continuous rotation, 430FXL : non continuous rotation.

### Undercarriage

24" / 600mm single grouser. Track slider. Rubber debris skirt

### Fellerbuncher specification

Boom: 14' 2" 4320 mm std main boom. 13' 0" 3960 mm 4-bar link stick boom

### Harvester specification

Boom: 14' 2" 4320 mm std main boom. 13' 8" 4165 mm stick boom for harvester/processor

## Optional Equipments

### Engine

Engine wet kit. (Quick coupler for coolant). Block heater, 120V

### Cab

Seat, KAB vented. Xenon lights (4). 1.25" polycarbonate sky window. 1.25" polycarbonate front window. Floor heater. Floor heater w/ ventilation

### Track

28" / 700mm single grouser. 28" / 700mm double grouser. 35.4" / 900mm triple grouser\*. Track roller \*Wide carbody selection

### Upper structure

56cc swing motor (swing torque 58,400 lb-ft). Automatic/manual release fire suppression, 50lbs. Air intake pre-cleaner. "Espar" engine and hydraulic oil pre-heater. Hydraulic tank heater, 120V. Hydraulic tank heater, "Probe". Charge oil pump relief heater. Gear box cooler (pump drive). Storage box in carbody. Vacuum pump for hydraulic tank. 430FXL : continuous rotation. 430FX: Counterweight (1680 lb / 760 kg), Counterweight for 8' squirt boom (2605 lb / 1180 kg)

### Control

Auto track brakes. Variable track speed

### Fellerbuncher option

### Boom

Stick boom tree deflector. Tree counter.

### Hydraulics and controls

Disc saw. Bar saw. Combination bar saw w/ disc saw. Intermittent disc saw. Auxiliary pump (28 GPM) for intermittent disc saw

### Harvester option

### Boom

16'1" 4900mm 2' extended main boom  
13' 3"-19' 3", 6' telescopic stick boom (6' squirt boom)  
13' 3"-21' 3", 8' telescopic stick boom (8' squirt boom)  
13'0" 3960mm 4-bar link stick boom

Stick boom tree deflector.

### Hydraulics and controls

Valmet harvester / processor. Non-Valmet harvester / processor (Dangle heads). Non-Valmet harvester / processor (fixed heads)  
Auxiliary pump (28 GPM) for fixed heads

**Notes** Standard and extra equipment are market-dependent and vary between countries. The specification describes possible equipment, which is either standard or optional. Stated weights are based on standard equipment. Specifications and designs are subject to change without notice.

# Why a Valmet track carrier?

High productivity, low operating costs, innovative technology, excellent operator environment –these are just a few advantages that earn Valmet forestry machines a place among the best in the world. Behind this success is a dedicated strategy to continually refine and expand upon the benefits of owning Valmet, a strategy based on the following core ideas.

## Ergonomics

Your forestry machine is a mobile work environment where the operator's opportunities to perform optimally without tiring are a decisive factor in financial success. This is an important starting point that has helped us develop the unique ergonomic advantages of Valmet harvesters and feller bunchers. A good example is the unique setback boom design to increase stability and production.

## Economy

Improved owner profitability is an important driving force in Valmet machine development. Each small improvement that increases productivity and reliability, or reduces cost is of interest. Tangible, quantifiable examples include energy-efficient engines, powerful hydraulics and unmatched productivity.

## Productivity

More work in less time – a comment we often hear from those who move from a competing brand to Valmet. There are many reasons, large and small. The most important include extremely high-performance operator environments, great maneuverability, powerful control and information systems, and large work areas from stationary positions.

## Customer Support

Fast and competent service is of great importance to forestry machine performance and economy. This is where our extensive service network provides you as a Valmet owner with a sense of security. An important advantage is that our technicians are experts at servicing Valmet machines.

## Environment

Forests are an important and sensitive part of the global ecosystem. This is why every new Valmet product, and all its component parts, is examined from both short-term and long-term environmental perspectives. This has led to concrete environmental improvements such as highly effective exhaust emission control and low, evenly distributed ground pressure in Valmet track machines. Environmental considerations also permeate our broad range of accessories and consumables, such as our special, rapidly biodegradable oils.

## Global Experience

Valmet machines are put to work all over the world. They have been refined to maximize profitability regardless of the conditions. The same fundamental idea lies behind the global service and dealer network that provides support to thousands of Valmet owners on a daily basis.

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