

# TRACKED FELLER BUNCHERS/HARVESTERS



JOHN DEERE

803M/MH / 853M/MH / 859M/MH



**PROVEN  
PERFORMANCE**



***OUTRUN  
EXPECTATIONS.***



BACK 300FT/90M

803M



JOHN D

*When we designed our next-generation 800M- and 800MH-Series machines, we relied on the input of the people who run them every day.* These job-proven mid-size models have been redefining uptime, productivity, and low daily operating costs — in the woods and at the landing — because you wanted them to.

Our 800M- and 800MH-Series machines come standard equipped with Smooth Boom Control (SBC) plus optional heated-ventilated seat (HVS) and updated premium Bluetooth® radio with XM Satellite Radio ready from the factory.

**THANKS TO YOU,** these tracked feller bunchers and harvesters are outrunning expectations — again.

**YOU ASKED FOR IT**

# Built for the way you work.

Ongoing input from Customer Advocate Groups (CAGs) helps make 800M- and 800MH-Series machines even more rugged and reliable.

## Reach beyond

Extended stick option (for 800MH models only) enables a longer reach to minimize the number of cut trails and enhance machine efficiency.

## Multiple boom-set/ attachment combinations

A variety of boom sets and felling and harvesting attachments can be combined to optimize productivity across a wide range of conditions.

## Get in the swing

Dual swing system increases power and performance in demanding felling or harvesting conditions, boosting overall productivity.

## Ample tractive effort

Strong tractive effort generously increases capability for negotiating difficult or steep terrain, deep snow, and swamps.

## Smooth operation

Smooth Boom Control (SBC) allows machine movements to be controlled more effectively, delivering a smoother experience for the operator and less wear and tear on the machine over time.

## Sure-footed stability

Long, wide undercarriage provides solid balance to maximize stability, no matter the terrain.

## Intelligence in action

Optional Intelligent Boom Control (IBC) makes it easier to maneuver the harvester head. Operators no longer need to control each independent boom joint separately. Simply control the harvester head, and IBC automatically controls all boom movements based on the harvester head's location, for faster cycle times and more precise operation.





SAVE **TIME**



**COVER**  
MORE AREA

A yellow logging harvester is shown in a forest, holding a large log. The harvester's arm is extended, and the log is being held horizontally. The background is a dense forest of tall, thin trees.

## MAXIMIZE PRODUCTIVITY

# Rapid Cycle System.

Faster, low-effort joystick control of all boom functions helps 800M- and 800MH-Series operators be more productive. Rapid Cycle System (RCS) combines automated felling-head arm cycling with simple boom control — dramatically reducing operator fatigue while increasing efficiency and productivity.

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### **Adaptable to preferences and environments**

RCS can be tailored to individual skill levels and specific harvesting conditions, from large single-tree harvesting to high-speed, multi-stem cutting.

### **Operator-specific settings**

Multiple RCS settings can be saved according to individual operator preferences. Novices may prefer a slower, more methodical pace, while highly skilled pros may want faster response.

### **Selectable operation**

Press a single button to engage RCS mode. Conditions don't suit the fast, parallel motion of the boom? Turn RCS off with another touch of a button.

## FT4 IN THE FOREST

# Cutting-edge solutions.

You asked for the latest technology to meet FT4/ Stage V emission regulations, and we listened and delivered. In fact, we're always focused on implementing the right engine solutions at the right time — without compromise of power, reliability, or ease of operation.

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### Fluid-efficient FT4 engines

Our EPA Final Tier 4 (FT4)/EU Stage V PowerTech™ PSS diesels meet emission regulations without sacrificing power or torque. Built on our EPA Interim Tier 4 (IT4)/EU Stage IIIB solution, this simple technology delivers a winning combination of performance, fluid efficiency, and reliability.

### Minimal impact on operation

Under normal operating conditions, the engine's natural heat breaks down trapped particulate matter and cleans the exhaust filter without impacting machine operation. Ash-service intervals for the diesel particulate filter (DPF) are condition based, meaning machine alerts will notify the operator before service is required. Typically, ash service is not necessary until the first engine overhaul depending on machine application, regular maintenance practices, and type of lubricating oil.

### Low total fluid consumption

John Deere FT4 engines maintain peak engine performance while minimizing total fluid consumption — diesel fuel plus diesel exhaust fluid (DEF). This exceptionally conservative DEF-use rate is up to four times lower than that of some other FT4 systems.

### Accumulated benefits

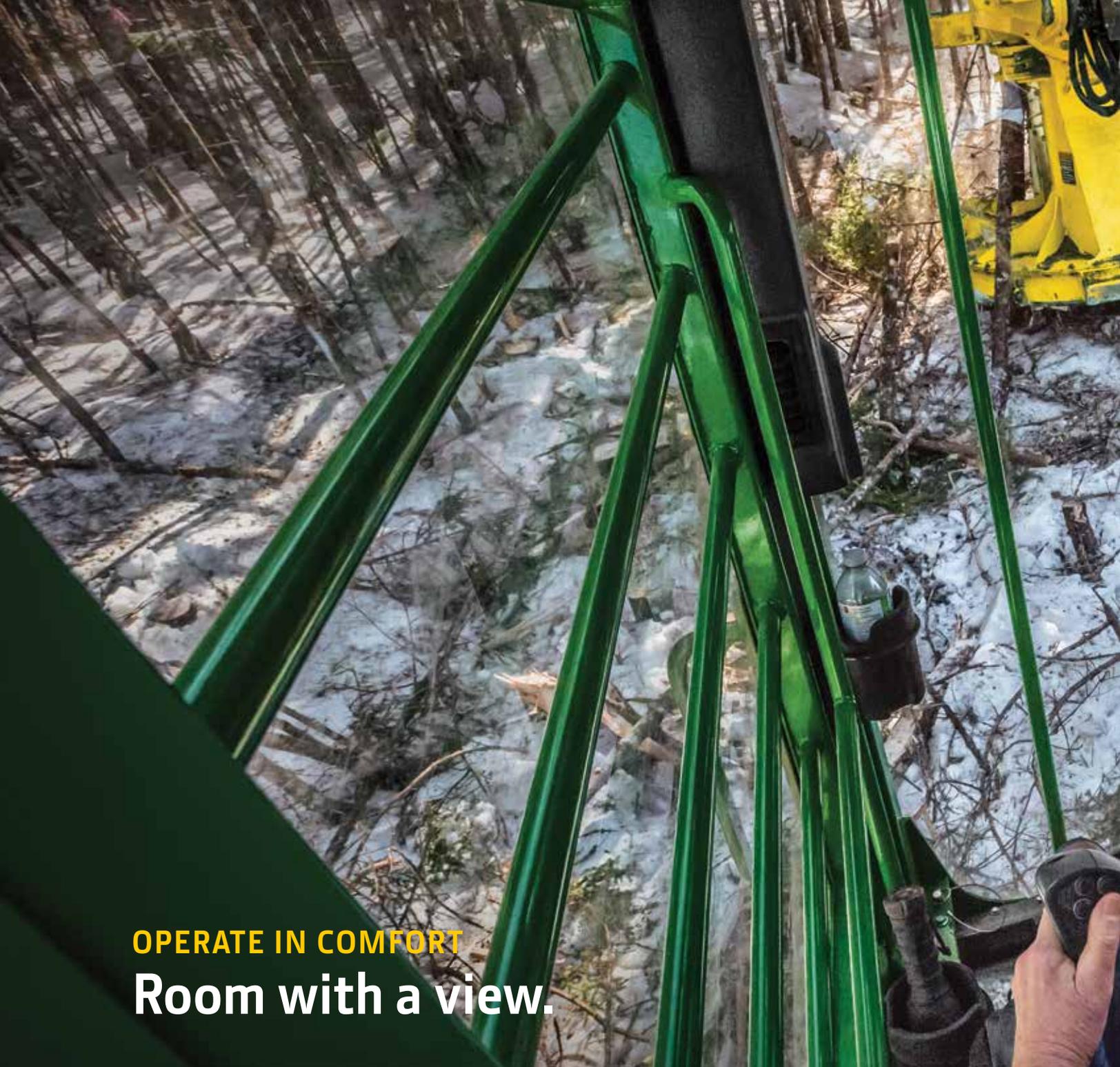
Designed for cutting, accumulating, and bunching in plantation-style applications, the twin-post FS50 and FR50 High-Accumulation Disc-Saw Felling Heads feature a large cut volume, a big accumulating pocket, and excellent holding capacity, to maximize overall production efficiency.





Up to **4X LOWER**

**DEF-CONSUMPTION RATE  
THAN SOME FT4 SYSTEMS**



**OPERATE IN COMFORT**  
**Room with a view.**

Spacious operator station was designed by loggers for loggers. It's roomier and more comfortable, with ergonomically designed controls and an updated premium Bluetooth radio option with XM Satellite Radio ready from the factory. And the view has to be seen to be believed, with significantly more window area for improved visibility.



# 10X LONGER- LASTING

## MARINE-GRADE CONTROL CENTER

### **Low-effort control**

Fully adjustable armrests enable fingertip control of all machine functions on tracked feller bunchers; on tracked harvesters, keypad are mounted on the joystick.

### **Sealed-switch module**

Sealed touch pad keeps out dust, moisture, and debris, minimizing wear. Proven marine-grade control center eliminates rocker switches, numerous wires, and unsealed connections, and lasts up to 10 times longer than standard dash switches.

### **Expansive visibility**

Floor-to-ceiling front window, large side windows, skylight, and optional floor window (standard on levelers) significantly expand the view of the harvesting area and the work at hand.

### **Take a seat**

New seat that's more ergonomic than previous models features a dual-density seat pan and contour as well as updated armrest and suspension to improve the overall comfort of operators of all sizes. Optional heated-ventilated seat (HVS) maximizes comfort in all conditions.



## EXPECT MORE And then some.

In the woods, uptime is the name of the game. That's why we went to our toughest customers, loggers just like you, to continually reinvent the rugged 800M- and 800MH-Series Tracked Feller Bunchers and Tracked Harvesters. Your latest great idea is an extended stick option on 800MH models.

### More boom

Inspired by our larger 900M- and 900MH-Series models, our field-proven, robust booms with thick plates and strong joints help extend durability and wear life. Designed for use with smaller attachments, the extended stick option (only on 800MH models) reaches 9.9 meters (32.5 feet) and features a narrow boom tip to reach past standing timber and cover wider swaths, minimizing damage to harvested trees and easing travel in sensitive areas.

### Underneath it all

All 800M- and 800MH-Series machines feature extreme-duty track chain to tackle the most challenging jobsite conditions while extending wear life.

### Stable and able

Reliable stability and solid engine horsepower help make quick work of the woods in all conditions.

### Through-nose harvester-head plumbing

Optional through-nose plumbing routes hoses up and out of harm's way to extend their wear life, increasing uptime and reducing operating costs.

### Closed-loop hydrostatic drive

Boost multifunctioning and productivity, particularly on slopes and in rough terrain, with optional closed-loop hydrostatic drive. Adjust priority between track drive and other hydraulic functions to match jobsite conditions and operator preference.

### Dedicated to your work

When equipped with the Dedicated Travel System feature, a 330-hp engine option can be selected to further improve the performance and efficiency of the Travel System and all other machine functions as well.

### Get a handle on it

Undercarriage-mounted toolbox option provides convenient storage for tools, saw teeth, extra saw bars, and other spare parts, eliminating trips to the service truck.

### Sizable fuel tanks

Large-capacity fuel tank lets you run longer between fill-ups to help keep you up and running.



waratah

H623C



**JOHN DEERE PRECISION FORESTRY**  
**Save time and money.**

As a logger, one of your most valuable commodities is uptime. You need fast, accurate diagnosis of machine issues, rapid service response, and tracking of equipment and operators to maximize efficiency and productivity. We have John Deere Precision Forestry solutions to help you do that, and more.



Get valuable insight with

## ***PRECISION FORESTRY***

### **TimberMatic™ Maps and TimberManager™**

TimberMatic Maps and TimberManager are proven jobsite-mapping tools designed for full-tree logging operations. TimberMatic Maps enables enhanced visibility, allowing operators to review production values as well as see and create points of interest that can be shared in real time with other onsite team members. Staff not on the jobsite can also access any of this data through TimberManager, to optimize tasks and increase efficiency.

### **JDLink™**

JDLink alerts can be sent to your computer or mobile device — or your John Deere dealer, if you choose — to inform you of immediate machine issues. If downtime does occur, exclusive remote diagnostics and programming enable your dealer to minimize the time and cost associated with sending a technician to the logging site for an initial diagnostic visit. You can also receive reminders of periodic scheduled maintenance on your computer or mobile device, or from your dealer.

### **Simplified serviceability**

Easy access to service components helps confirm daily checks and preventative maintenance get done on schedule, minimizing costly repairs down the road.

### **Hydraulic reversing fan**

Standard variable-speed reversing fan runs only as fast as the system requires. This conserves power and fuel while blocking debris. To keep the system clean, the fan also reverses on a timed cycle to reverse airflow and eject debris from the cooling cores. If conditions demand more frequent cleaning, the fan can be reversed by a simple push of a button.

### **Proven components**

800M- and 800MH-Series machines share many common components — including the engine, undercarriage, booms, and cab — with their 900M- and 900MH-Series counterparts, for ease of maintenance and repairs when needed.

### **Remote diagnostics**

When equipped with JDLink, fast, accurate remote diagnostics and rapid service response with the right part the first time, industry-leading parts availability, and dealer support are always within easy reach.

### **Smart debris management**

Designed to keep your workspace free and clear, the productivity-boosting debris-management system is integrated into the hood and left-side guarding to prevent materials and debris from entering the cooling package. External screening, sealed cooler compartment, and standard variable-speed reversing fan provide cooling protection when and where it's needed.



# ***SERVICE CAN BE A BREEZE.***



**WARNING**

KEEP BACK 300FT/90M

FS20

# 803M/853M/859M

Engine	803M	853M / 859M with Standard Travel		853M / 859M with Dedicated Travel		
Manufacturer and Model	John Deere PowerTech™ PSS 9.0L	John Deere PowerTech PSS 9.0L		John Deere PowerTech PSS 9.0L		
Non-Road Emission Standard	EPA Final Tier 4/EU Stage V	EPA Final Tier 4/EU Stage V		EPA Final Tier 4/EU Stage V		
Cylinders	6	6		6		
Displacement	9.0 L (549 cu. in.)	9.0 L (549 cu. in.)		9.0 L (549 cu. in.)		
Peak Power at 1,900 rpm	224 kW (300 hp)	224 kW (300 hp)		246 kW (330 hp)		
Rated Power at 2,000 rpm	213 kW (286 hp)	213 kW (286 hp)		230 kW (308 hp)		
Net Peak Torque at 1,500 rpm	1270 Nm (937 lb.-ft.)	1270 Nm (937 lb.-ft.)		1392 Nm (1,027 lb.-ft.)		
<b>Cooling</b>	<b>803M / 853M / 859M</b>					
Fan Type	Suction type, hydraulically driven, variable speed, reversing					
<b>Hydraulics</b>	Closed center, load sense, pressure compensated					
<b>Standard Travel System</b>						
<b>Main Pump</b>	Variable-displacement axial piston					
Maximum Rated Flow	494 L/min. (131 gpm)					
<b>Continuous Saw Pump</b>	Dedicated variable-displacement axial piston					
Maximum Rated Flow	135 L/min. (36 gpm)					
<b>Attachment Pump</b>	Dedicated variable-displacement axial piston					
Maximum Rated Flow	135 L/min. (36 gpm)					
<b>Dedicated Travel System</b>						
<b>Main Pump</b>	Variable-displacement axial piston					
Maximum Rated Flow	494 L/min. (131 gpm)					
<b>Travel Pump</b>	Dedicated variable-displacement axial piston					
Maximum Rated Flow (x2)	190 L/min. (50 gpm)					
<b>Continuous Saw Pump</b>	Dedicated variable-displacement axial piston					
Maximum Rated Flow	135 L/min. (36 gpm)					
<b>Attachment Pump</b>	Dedicated variable-displacement axial piston					
Maximum Rated Flow	135 L/min. (36 gpm)					
Oil Filtration	2 main return filters, 10-micron return with bypass, one case drain strainer, 25 micron					
<b>Electrical</b>						
Voltage	24 volt					
Number of Batteries	2 x 12 volt					
Alternator Rating	200 amp					
<b>Work Lights</b>						
Standard	Halogen (9 flood, 3 spot)					
Optional	LED (5 flood, 3 spot); halogen (4 flood)					
<b>Service Lights</b>	Halogen (2)					
<b>Undercarriage</b>	<b>803M</b>	<b>853M</b>		<b>859M</b>		
Integral track guides, thick high-abrasion-resistant material, ramp angles, hydraulic track adjustment						
Size	U6 Extreme Duty (EXD)	U7 EXD		U7L EXD		
Track Chain	203.2 mm (8 in.)	215.9 mm (8.5 in.)		215.9 mm (8.5 in.)		
Number of Track Links (per side)	47	47		47		
Lower Rollers (per side)	9	9		10		
Carrier Slides/Rollers (per side)	2	2		2		
Travel Performance	<i>Standard Travel</i>	<i>Dedicated Travel</i>	<i>Standard Travel</i>	<i>Dedicated Travel</i>	<i>Standard Travel</i>	<i>Dedicated Travel</i>
Travel Speed, Forward and Reverse						
High	4.6 km/h (2.9 mph)	4.8 km/h (3.0 mph)	4.3 km/h (2.6 mph)	4.1 km/h (2.6 mph)	3.7 km/h (2.3 mph)	3.7 km/h (2.3 mph)
Low	2.8 km/h (1.7 mph)	2.7 km/h (1.7 mph)	2.0 km/h (1.2 mph)	2.0 km/h (1.2 mph)	1.6 km/h (1.0 mph)	1.7 km/h (1.0 mph)
Tractive Effort	245 kN (55,078 lbf)	245 kN (55,078 lbf)	322 kN (72,389 lbf)	322 kN (72,389 lbf)	373 kN (83,854 lbf)	384 kN (86,327 lbf)
<b>Rotating Upper</b>						
Swing System	<i>Standard</i>	<i>Optional</i>	<i>Standard</i>	<i>Standard</i>		
Swing Speed (maximum)	7.7 rpm	6.8 rpm	6.8 rpm	6.8 rpm		
Swing Torque	55 090 Nm (40,630 lb.-ft.)	94 740 Nm (69,880 lb.-ft.)	94 740 Nm (69,880 lb.-ft.)	94 740 Nm (69,880 lb.-ft.)		
Swing Brake	Sealed wet multi-disc, manually applied/released					
<b>Serviceability</b>	<b>803M/853M/859M</b>					
<b>Refill Capacities</b>						
Fuel Tank	870 L (230 gal.)					
Diesel Exhaust Fluid (DEF)	30.7 L (8.1 gal.)					

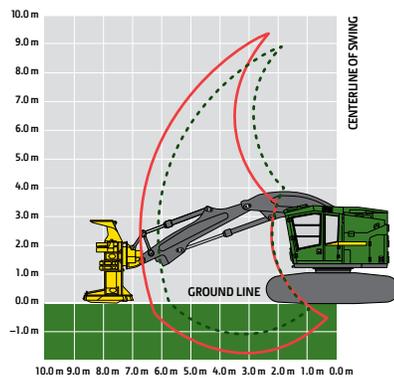


Ground Pressure (SAE J1309)	803M	853M	859M
Includes standard equipment, 6.71-m boom, half-full fuel tank, and all fluids, less attachment			
Undercarriage	U6 EXD	U7 EXD	U7L EXD
Counterweight	Standard	Medium	Standard
Boom	Standard with Rapid Cycle System (RCS)	Power with RCS	Power with RCS
Double Grouser			
610 mm (24 in.)	59.8 kPa (8.7 psi)	60.6 kPa (8.8 psi)	69.4 kPa (10.1 psi)
762 mm (30 in.)	51.9 kPa (7.5 psi)	50.8 kPa (7.4 psi)	N/A
Single Grouser			
610 mm (24 in.)	59.4 kPa (8.6 psi)	60.4 kPa (8.8 psi)	69.3 kPa (10.1 psi)
711 mm (28 in.)	51.5 kPa (7.5 psi)	52.5 kPa (7.6 psi)	60.1 kPa (8.7 psi)
Triple Grouser (soft terrain only)			
914 mm (36 in.)	41.5 kPa (6.0 psi)	43.2 kPa (6.3 psi)	N/A

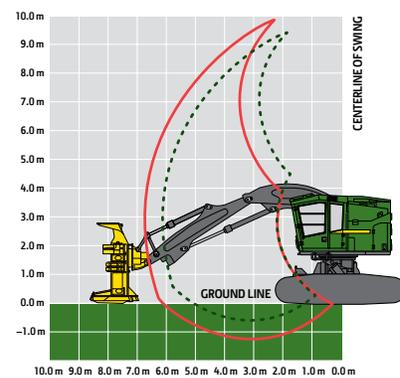
Operating Weight	803M	853M	859M
Includes standard equipment, 6.71-m boom, 610-mm (24 in.) single-grouser tracks, half-full fuel tank, and all fluids, less attachment			
Undercarriage	U6 EXD	U7 EXD	U7L EXD
Counterweight	Standard	Medium	Standard
Boom	Standard with RCS	Power with RCS	Power with RCS
Approximate Weight — Base Machine	29 030 kg (64,010 lb.)	31 600 kg (69,680 lb.)	36 060 kg (79,510 lb.)

Boom Performance	803M	853M	859M
<b>6.71-m Boom</b>			
Maximum Reach (to tip of saw blade)	8.49 m (27 ft. 10 in.)	8.49 m (27 ft. 10 in.)	8.49 m (27 ft. 10 in.)
Minimum Reach (to tip of saw blade)	3.83 m (12 ft. 7 in.)	3.83 m (12 ft. 7 in.)	3.83 m (12 ft. 7 in.)
Cutting Swath	4.66 m (15 ft. 3 in.)	4.66 m (15 ft. 3 in.)	4.66 m (15 ft. 3 in.)
<b>Lift Option with RCS</b>	<i>Standard</i>	<i>Power</i>	<i>Power</i>
Lift Capacity, Bare Pin at Full Reach	4400 kg (9,700 lb.)	5540 kg (12,220 lb.)	5540 kg (12,220 lb.)
Lift Capacity, Bare Pin at 6.1 m (20 ft.)	5520 kg (12,170 lb.)	6860 kg (15,130 lb.)	6860 kg (15,130 lb.)
Lift Capacity, Bare Pin at 4.6 m (15 ft.)	7990 kg (17,620 lb.)	9770 kg (21,540 lb.)	9770 kg (21,540 lb.)
<b>6.1-m Boom</b>			
Maximum Reach (to tip of saw blade)	7.88 m (25 ft. 10 in.)	7.88 m (25 ft. 10 in.)	7.88 m (25 ft. 10 in.)
Minimum Reach (to tip of saw blade)	3.92 m (12 ft. 10 in.)	3.92 m (12 ft. 10 in.)	3.92 m (12 ft. 10 in.)
Cutting Swath	3.96 m (13 ft. 0 in.)	3.96 m (13 ft. 0 in.)	3.96 m (13 ft. 0 in.)
<b>Lift Option with RCS</b>	<i>Standard</i>	<i>Power</i>	<i>Power</i>
Lift Capacity, Bare Pin at 6.1 m (20 ft.) at Full Reach	4830 kg (10,650 lb.)	6670 kg (14,710 lb.)	6670 kg (14,710 lb.)
Lift Capacity, Bare Pin at 4.6 m (15 ft.)	7840 kg (17,290 lb.)	10 510 kg (23,170 lb.)	10 510 kg (23,170 lb.)

**803M and 853M Tracked Feller Bunchers**



**859M Tracked Feller Buncher**



Attachment Information	FR21B	FS22B	FR22B	FR24B	FSS0	FR50
Models	803M, 853M, 859M	803M, 853M, 859M	803M,* 853M, 859M	853M,* 859M*	803M, 853M, 859M	803M,* 853M, 859M
Maximum Cutting Capacity	545 mm (21.5 in.)	559 mm (22.0 in.)	559 mm (22.0 in.)	622 mm (24.5 in.)	508 mm (20.0 in.)	508 mm (20.0 in.)
Maximum Accumulation Capacity	0.46 m <sup>2</sup> (5.0 sq. ft.)	0.48 m <sup>2</sup> (5.2 sq. ft.)	0.48 m <sup>2</sup> (5.2 sq. ft.)	0.60 m <sup>2</sup> (6.5 sq. ft.)	0.64 m <sup>2</sup> (6.9 sq. ft.)	0.64 m <sup>2</sup> (6.9 sq. ft.)
Opening at Front of Housing	1180 mm (46.5 in.)	1280 mm (50.4 in.)	1280 mm (50.4 in.)	1372 mm (54.0 in.)	870 mm (34.0 in.)	870 mm (34.0 in.)
Blade Diameter	1372 mm (54.0 in.)	1422 mm (56.0 in.)	1422 mm (56.0 in.)	1549 mm (61.0 in.)	1346 mm (53.0 in.)	1346 mm (53.0 in.)
Number of Teeth	18	18	18	20	18	18
Saw rpm	1,150 rpm	1,150 rpm	1,150 rpm	1,150 rpm	1,250 rpm	1,250 rpm
Wrist Rotation	302 deg.	30 deg.	312 deg.	310 deg.	30 deg.	310 deg.
Width at Saw Housing	1550 mm (61.0 in.)	1620 mm (63.8 in.)	1620 mm (63.8 in.)	1737 mm (68.4 in.)	1660 mm (65.0 in.)	1660 mm (65.0 in.)
Height	2820 mm (111.0 in.)	3068 mm (120.8 in.)	3068 mm (120.8 in.)	3068 mm (120.8 in.)	2850 mm (112.0 in.)	2850 mm (112.0 in.)
Weight (including adapter and wrist)	3140 kg (6,920 lb.)	3550 kg (7,830 lb.)	3840 kg (8,470 lb.)	4020 kg (8,860 lb.)	3370 kg (7,430 lb.)	3660 kg (8,070 lb.)

\*With 6.1-m boom only.

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

# 803M/853M/859M

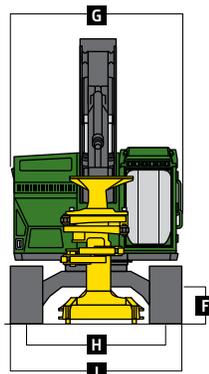
Machine Dimensions	803M	853M	859M
Standard Undercarriage	U6 EXD	U7 EXD	U7L EXD
<b>A</b> Overall Height with Standard 6.71-m Boom			
Top of Cab with Flat Skylight	3.43 m (11 ft. 3 in.)	3.46 m (11 ft. 4 in.)	3.92 m (12 ft. 10 in.)
Top of Cab with Peaked Skylight	3.65 m (12 ft. 0 in.)	3.68 m (12 ft. 1 in.)	4.13 m (13 ft. 7 in.)
Top of Boom, Extended, Attachment Vertical	3.89 m (12 ft. 9 in.)	3.93 m (12 ft. 11 in.)	4.15 m (13 ft. 7 in.)
<b>B</b> Overall Track Length	4.61 m (15 ft. 1 in.)	4.90 m (16 ft. 1 in.)	4.90 m (16 ft. 1 in.)
<b>C</b> Track Length (idler to sprocket center)	3.57 m (11 ft. 9 in.)	3.83 m (12 ft. 7 in.)	3.83 m (12 ft. 7 in.)
<b>D</b> Tail Swing (from swing center)			
Small and Medium Counterweight	1.94 m (6 ft. 4 in.)	1.94 m (6 ft. 4 in.)	1.94 m (6 ft. 4 in.)
Medium Extended and Large Extended Counterweight	2.25 m (7 ft. 4 in.)	2.25 m (7 ft. 4 in.)	2.25 m (7 ft. 4 in.)
<b>E</b> Boom Reach (to attachment pin)			
Standard 6.71-m Boom			
Maximum	6.71 m (22 ft. 0 in.)	6.71 m (22 ft. 0 in.)	6.71 m (22 ft. 0 in.)
Minimum	2.05 m (6 ft. 9 in.)	2.05 m (6 ft. 9 in.)	2.05 m (6 ft. 9 in.)
Cutting Swath	4.66 m (15 ft. 3 in.)	4.66 m (15 ft. 3 in.)	4.66 m (15 ft. 3 in.)
Optional 6.10-m Boom			
Maximum	6.10 m (20 ft. 0 in.)	6.10 m (20 ft. 0 in.)	6.10 m (20 ft. 0 in.)
Minimum	2.14 m (7 ft. 0 in.)	2.14 m (7 ft. 0 in.)	2.14 m (7 ft. 0 in.)
Cutting Swath	3.96 m (13 ft. 0 in.)	3.96 m (13 ft. 0 in.)	3.96 m (13 ft. 0 in.)
<b>F</b> Ground Clearance			
Single Grouser	744 mm (29 in.)	779 mm (31 in.)	746 mm (29 in.)
Double Grouser	715 mm (28 in.)	756 mm (30 in.)	722 mm (28 in.)
Triple Grouser	700 mm (28 in.)	738 mm (29 in.)	N/A
<b>G</b> Upperstructure Width			
Standard	3.15 m (10 ft. 4 in.)	3.15 m (10 ft. 4 in.)	3.15 m (10 ft. 4 in.)
With Optional Walkway	3.36 m (11 ft. 0 in.)	3.36 m (11 ft. 0 in.)	3.36 m (11 ft. 0 in.)
<b>H</b> Track Gauge	2.67 m (8 ft. 9 in.)	2.69 m (8 ft. 10 in.)	2.72 m (8 ft. 11 in.)
<b>I</b> Width Over Tracks			
610-mm (24 in.) Track Shoes	3.28 m (10 ft. 9 in.)	3.30 m (10 ft. 10 in.)	3.33 m (10 ft. 11 in.)
711-mm (28 in.) Track Shoes	3.38 m (11 ft. 1 in.)	3.40 m (11 ft. 2 in.)	3.43 m (11 ft. 3 in.)
760-mm (30 in.) Track Shoes	3.43 m (11 ft. 3 in.)	3.45 m (11 ft. 4 in.)	N/A
914-mm (36 in.) Track Shoes	3.58 m (11 ft. 9 in.)	3.61 m (11 ft. 10 in.)	N/A

## 859M Leveling

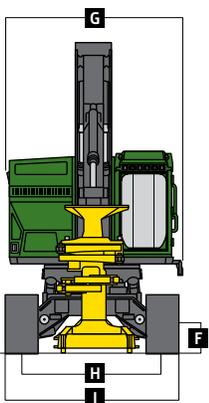
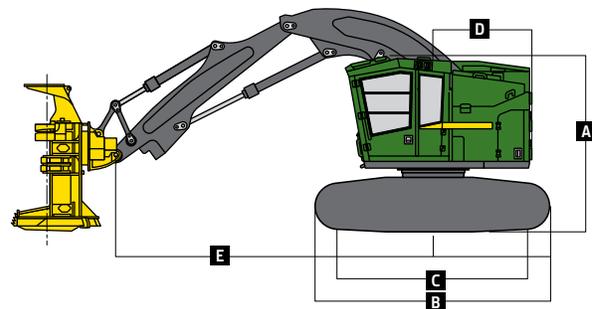


### 859M Undercarriage-Leveling Mechanism

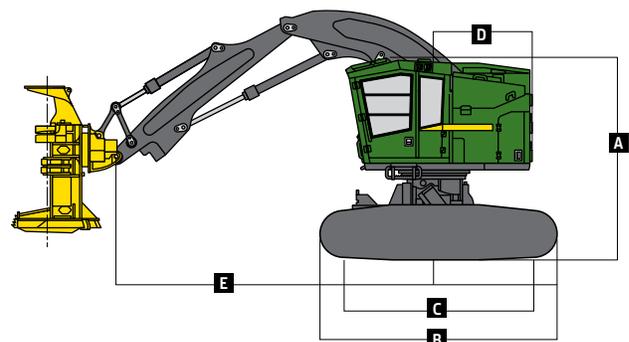
Forward	26 deg.
Side to Side	14 deg.
Rearward	7 deg.



## 803M and 853M Tracked Feller Bunchers



## 859M Tracked Feller Buncher



# 803MH/853MH/859MH

<b>Engine</b>	<b>803MH</b>	<b>853MH / 859MH with Standard Travel</b>		<b>853MH / 859MH with Dedicated Travel</b>		
Manufacturer and Model	John Deere PowerTech™ PSS 9.0L	John Deere PowerTech PSS 9.0L		John Deere PowerTech PSS 9.0L		
Non-Road Emission Standard	EPA Final Tier 4/EU Stage V	EPA Final Tier 4/EU Stage V		EPA Final Tier 4/EU Stage V		
Cylinders	6	6		6		
Displacement	9.0 L (549 cu. in.)	9.0 L (549 cu. in.)		9.0 L (549 cu. in.)		
Peak Power at 1,900 rpm	224 kW (300 hp)	224 kW (300 hp)		246 kW (330 hp)		
Rated Power at 2,000 rpm	213 kW (286 hp)	213 kW (286 hp)		230 kW (308 hp)		
Net Peak Torque at 1,500 rpm	1270 Nm (937 lb.-ft.)	1270 Nm (937 lb.-ft.)		1392 Nm (1,027 lb.-ft.)		
<b>Cooling</b>	<b>803MH / 853MH / 859MH</b>					
Fan Type	Suction type, hydraulically driven, variable speed, reversing					
<b>Hydraulics</b>						
Closed center, load sense, pressure compensated						
<b>Standard Travel System</b>						
<b>Main Pump</b>	Variable-displacement axial piston					
Maximum Rated Flow	494 L/min. (131 gpm)					
<b>Attachment Pump</b>	Dedicated variable-displacement axial piston					
Maximum Rated Flow (x2)	209 L/min. (55 gpm)					
<b>Dedicated Travel System</b>						
<b>Main Pump</b>	Variable-displacement axial piston					
Maximum Rated Flow	494 L/min. (131 gpm)					
<b>Travel Pump</b>	Dedicated variable-displacement axial piston					
Maximum Rated Flow (x2)	190 L/min. (50 gpm)					
<b>Attachment Pump</b>	Dedicated variable-displacement axial piston					
Maximum Rated Flow (x2)	181 L/min. (48 gpm)					
Oil Filtration	2 main return filters, 10-micron return with bypass, one case drain strainer, 25 micron					
<b>Electrical</b>						
Voltage	24 volt					
Number of Batteries	2 x 12 volt					
Alternator Rating	200 amp					
<b>Work Lights</b>						
Standard	Halogen (9 flood, 3 spot)					
Optional	LED (5 flood, 3 spot); halogen (4 flood)					
Service Lights	Halogen (2)					
<b>Undercarriage</b>	<b>803MH</b>	<b>853MH</b>		<b>859MH</b>		
Integral track guides, thick high-abrasion-resistant material, ramp angles, hydraulic track adjustment						
Size	U6 Extreme Duty (EXD)	U7 EXD		U7L EXD		
Track Chain	203.2 mm (8 in.)	215.9 mm (8.5 in.)		215.9 mm (8.5 in.)		
Number of Track Links (per side)	47	47		47		
Lower Rollers (per side)	9	9		10		
Carrier Slides/Rollers (per side)	2	2		2		
Travel Performance	<i>Standard Travel</i>	<i>Dedicated Travel</i>	<i>Standard Travel</i>	<i>Dedicated Travel</i>	<i>Standard Travel</i>	<i>Dedicated Travel</i>
Travel Speed, Forward and Reverse						
High	4.6 km/h (2.9 mph)	4.8 km/h (3.0 mph)	4.3 km/h (2.6 mph)	4.1 km/h (2.6 mph)	3.6 km/h (2.2 mph)	3.7 km/h (2.3 mph)
Low	2.8 km/h (1.7 mph)	2.7 km/h (1.7 mph)	2.0 km/h (1.2 mph)	2.0 km/h (1.2 mph)	1.7 km/h (1.0 mph)	1.7 km/h (1.0 mph)
Tractive Effort	245 kN (55,078 lbf)	245 kN (55,040 lbf)	322 kN (72,389 lbf)	322 kN (72,389 lbf)	373 kN (83,876 lbf)	384 kN (86,327 lbf)
<b>Rotating Upper</b>	<b>803MH / 853MH / 859MH</b>					
Swing System, Standard						
Swing Speed (maximum)	6.8 rpm					
Swing Torque	94 740 Nm (69,880 lb.-ft.)					
Swing Brake	Sealed wet multi-disc, manually applied/released					
<b>Serviceability</b>						
<b>Refill Capacities</b>						
Fuel Tank	870 L (230 gal.)					
Diesel Exhaust Fluid (DEF)	30.7 L (8.1 gal.)					

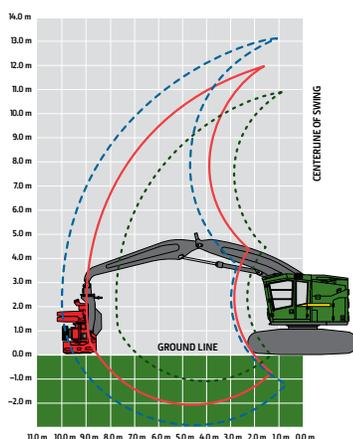
# 803MH/853MH/859MH

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

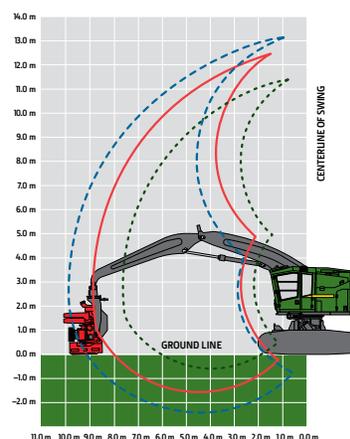
Ground Pressure (SAE J1309)	803MH	853MH	859MH
Includes standard equipment, half-full fuel tank, and all fluids, less attachment			
Undercarriage	U6 EXD	U7 EXD	U7L EXD
Counterweight	Standard	Medium	Standard
Boom	8.84 m	7.75 m	7.75 m with RCS
Double Grouser			
610 mm (24 in.)	58.1 kPa (8.4 psi)	58.2 kPa (8.4 psi)	67.0 kPa (9.7 psi)
762 mm (30 in.)	50.5 kPa (7.3 psi)	48.9 kPa (7.1 psi)	N/A
Single Grouser			
610 mm (24 in.)	57.7 kPa (8.4 psi)	58.0 kPa (8.4 psi)	66.8 kPa (9.7 psi)
711 mm (28 in.)	50.1 kPa (7.3 psi)	50.5 kPa (7.3 psi)	58.0 kPa (8.4 psi)
Triple Grouser (soft terrain only)			
914 mm (36 in.)	40.4 kPa (5.9 psi)	41.6 kPa (6.0 psi)	N/A
<b>Operating Weight</b>			
Includes standard equipment, 610-mm (24 in.) single-grouser tracks, half-full fuel tank, and all fluids, less attachment			
Undercarriage	U6 EXD	U7 EXD	U7L EXD
Counterweight	Standard	Medium	Standard
Boom	8.84 m	7.75 m	7.75 m with RCS
Approximate Weight — Base Machine	28 230 kg (62,250 lb.)	30 320 kg (66,860 lb.)	34 800 kg (76,730 lb.)
<b>Boom Performance*</b>			
<b>9.91-m Boom</b>			
<b>Lift Option with RCS</b>			
Lift Capacity, Bare Pin at 9.91 m (32 ft. 6 in.) at Full Reach	3500 kg (7718 lb.)	3500 kg (7718 lb.)	3500 kg (7718 lb.)
Lift Capacity, Bare Pin at 6.1 m (20 ft.)	8130 kg (17,927 lb.)	8130 kg (17,927 lb.)	8130 kg (17,927 lb.)
<b>8.84-m Boom</b>			
<b>Lift Option with RCS</b>			
Lift Capacity, Bare Pin at Full Reach	4190 kg (9,240 lb.)	4190 kg (9,240 lb.)	4190 kg (9,240 lb.)
Lift Capacity, Bare Pin at 7.62 m (25 ft.)	5850 kg (12,900 lb.)	5850 kg (12,900 lb.)	5850 kg (12,900 lb.)
Lift Capacity, Bare Pin at 6.1 m (20 ft.)	7700 kg (16,980 lb.)	7700 kg (16,980 lb.)	7700 kg (16,980 lb.)
<b>7.75-m Boom</b>			
<b>Lift Option with RCS</b>			
Lift Capacity, Bare Pin at 7.62 m (25 ft.) at Full Reach	5520 kg (12,170 lb.)	5520 kg (12,170 lb.)	5520 kg (12,170 lb.)
Lift Capacity, Bare Pin at 6.1 m (20 ft.)	8350 kg (18,410 lb.)	8350 kg (18,410 lb.)	8350 kg (18,410 lb.)

\*Consult your dealer for maximum approved attachment weight for each machine/boom configuration.

## 803MH and 853MH Tracked Harvesters



## 859MH Tracked Harvester



Attachment Information				
Attachment	HTH616C	HTH622B	HTH623C	HTH624C
Models	803MH, 853MH, 859MH	803MH, 853MH, 859MH	803MH, 853MH, 859MH	853MH,* 859MH*
Maximum Cutting Capacity	550 mm (21.7 in.)	750 mm (29.5 in.)	750 mm (29.5 in.)	810 mm (31.9 in.)
Maximum Delimiting Capacity	510 mm (20.1 in.)	640 mm (25.2 in.)	700 mm (27.6 in.)	760 mm (29.9 in.)
Feeding Mechanism	3 rollers, fully synchronized hydraulic drive		3 rollers, fully synchronized hydraulic drive	
Dimensions				
Maximum Width (arms open)	1600 mm (63.0 in.)	1700 mm (66.9 in.)	2000 mm (78.7 in.)	2000 mm (78.7 in.)
Height (including rotator)	2350 mm (92.5 in.)	2700 mm (106.3 in.)	3000 mm (118.1 in.)	3000 mm (118.1 in.)
Weight (rotator and standard link)	1870 kg (4,120 lb.)	2190 kg (4,830 lb.)	2870 kg (6,330 lb.)	3460 kg (7,630 lb.)

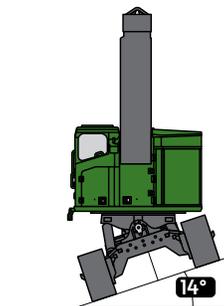
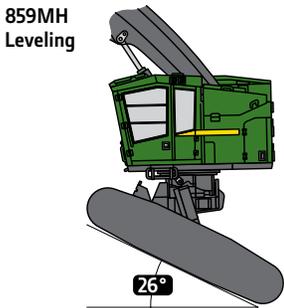
\*With 7.75-m boom only.

See individual Harvesting Head brochure for more details.

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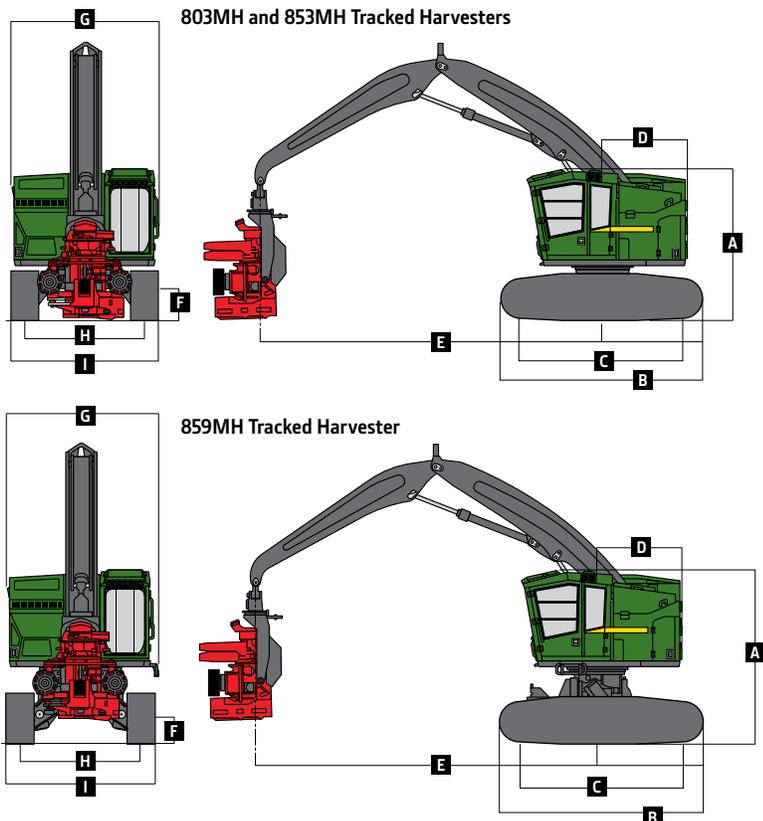
# 803MH/853MH/859MH

Machine Dimensions	803MH	853MH	859MH
Standard Undercarriage	U6 EXD	U7 EXD	U7L EXD
<b>A</b> Overall Height with 8.84-m Boom			
Top of Cab with Flat Skylight	3.43 m (11 ft. 3 in.)	3.46 m (11 ft. 4 in.)	3.92 m (12 ft. 10 in.)
Top of Cab with Peaked Skylight	3.65 m (12 ft. 0 in.)	3.68 m (12 ft. 1 in.)	4.13 m (13 ft. 7 in.)
Top of Boom, Extended, Attachment Vertical	4.45 m (14 ft. 7 in.)	4.45 m (14 ft. 7 in.)	4.70 m (15 ft. 5 in.)
<b>B</b> Overall Track Length	4.61 m (15 ft. 1 in.)	4.90 m (16 ft. 1 in.)	4.90 m (16 ft. 1 in.)
<b>C</b> Track Length (idler to sprocket center)	3.57 m (11 ft. 9 in.)	3.83 m (12 ft. 7 in.)	3.83 m (12 ft. 7 in.)
<b>D</b> Tail Swing (from swing center)			
Small and Medium Counterweight	1.94 m (6 ft. 4 in.)	1.94 m (6 ft. 4 in.)	1.94 m (6 ft. 4 in.)
Medium Extended Counterweight	2.25 m (7 ft. 4 in.)	2.25 m (7 ft. 4 in.)	2.25 m (7 ft. 4 in.)
<b>E</b> Boom Reach (to attachment pin)			
Optional 9.91-m Boom			
Maximum	9.91 m (32 ft. 6 in.)	9.91 m (32 ft. 6 in.)	9.91 m (32 ft. 6 in.)
Minimum	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)
Cutting Swath	6.46 m (21 ft. 2 in.)	6.46 m (21 ft. 2 in.)	6.46 m (21 ft. 2 in.)
Standard 8.84-m Boom			
Maximum	8.84 m (29 ft. 0 in.)	8.84 m (29 ft. 0 in.)	8.84 m (29 ft. 0 in.)
Minimum	2.71 m (8 ft. 11 in.)	2.71 m (8 ft. 11 in.)	2.71 m (8 ft. 11 in.)
Cutting Swath	6.13 m (20 ft. 1 in.)	6.13 m (20 ft. 1 in.)	6.13 m (20 ft. 1 in.)
Optional 7.75-m Boom			
Maximum	7.75 m (25 ft. 5 in.)	7.75 m (25 ft. 5 in.)	7.75 m (25 ft. 5 in.)
Minimum	2.31 m (7 ft. 7 in.)	2.31 m (7 ft. 7 in.)	2.31 m (7 ft. 7 in.)
Cutting Swath	5.44 m (17 ft. 10 in.)	5.44 m (17 ft. 10 in.)	5.44 m (17 ft. 10 in.)
<b>F</b> Ground Clearance			
Single Grouser	744 mm (29 in.)	779 mm (31 in.)	748 mm (29 in.)
Double Grouser	715 mm (28 in.)	756 mm (30 in.)	725 mm (29 in.)
Triple Grouser	700 mm (28 in.)	738 mm (29 in.)	N/A
<b>G</b> Upperstructure Width			
Standard	3.15 m (10 ft. 4 in.)	3.15 m (10 ft. 4 in.)	3.15 m (10 ft. 4 in.)
With Optional Walkway	3.36 m (11 ft. 0 in.)	3.36 m (11 ft. 0 in.)	3.36 m (11 ft. 0 in.)
<b>H</b> Track Gauge	2.67 m (8 ft. 9 in.)	2.69 m (8 ft. 10 in.)	2.72 m (8 ft. 11 in.)
<b>I</b> Width Over Tracks			
610-mm (24 in.) Track Shoes	3.28 m (10 ft. 9 in.)	3.30 m (10 ft. 10 in.)	3.33 m (10 ft. 11 in.)
711-mm (28 in.) Track Shoes	3.38 m (11 ft. 1 in.)	3.40 m (11 ft. 2 in.)	3.43 m (11 ft. 3 in.)
760-mm (30 in.) Track Shoes	3.43 m (11 ft. 3 in.)	3.45 m (11 ft. 4 in.)	N/A
914-mm (36 in.) Track Shoes	3.58 m (11 ft. 9 in.)	3.61 m (11 ft. 10 in.)	N/A



### 859MH Undercarriage-Leveling Mechanism

Forward	26 deg.
Side to Side	14 deg.
Rearward	7 deg.





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