TRACKED FELLER BUNCHERS/HARVESTERS

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

JOHN DEERE

INTRODUCING THE

M-SERIES


CONSIDER THE
GAME OFFICIALLY
CHANGED.
WARNING
JOHN DEERE

KEEP BACK 300FT/90M

Three years in the making and backed by over a half-century of experience in the woods, our next-generation 800M- and 800MH-Series are changing the game — thanks to customers like you.

When we designed our new midsize machines, we relied on the input of the people who are in the machines every day. After collecting invaluable customer input, we spent over 7,000 hours testing the machines until we got them exactly right.

THE RESULT Midsized machines that redefine the meanings of uptime, productivity, and low daily operating costs.

John Deere really listened to everything we asked for in developing these machines. And amazingly they did so with no compromises.

Grant Phillips, CAG member
Pine Harvesters, Oberon, New South Wales, Australia

YOU ASKED FOR IT

Built for the way you work.

We gathered fresh insight from Customer Advocate Groups (CAGs) to make these machines even more rugged and reliable.

More power

Engine power has increased significantly — by 25 percent — for superb multifunction performance.

Multiple boom-set/ felling-head combinations

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

Better stability

Longer, wider undercarriage maximizes stability no matter the terrain.

High-torque swing option

If you're working in really big timber or on hills, high-torque swing — standard on harvester models, optional on feller bunchers — provides increased power, to boost productivity.

Rapid Cycle System (RCS)

RCS, now standard, uses a single, easy-to-operate joystick to quickly and simply control all boom functions.

Closed-loop hydrostatic drive

Boost multifunctioning even more, particularly on slopes and in rough terrain. Adjust priority between track drive and other hydraulic functions to match site conditions and your operator style or preference.

Increased tractive effort

Up to 45-percent more tractive effort increases capability for negotiating difficult or steep terrain, deep snow, and swamps.

MAXIMIZE PRODUCTIVITY

Rapid Cycle System.

What operator wouldn't be more productive in an 800M- or 800MH-Series machine? New Rapid Cycle System (RCS) combines automated felling-head arm cycling with simple boom control — dramatically reducing operator fatigue while increasing efficiency and productivity.

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, multistem cutting.

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.

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.

SAVE TIME

COVER MORE AREA

ALL IN ONE
MULTIPLE OPERATOR SETTINGS
ONE-BUTTON ACTIVATION
KEEP BACK 360ft T/90M

OPERATE IN COMFORT

Room with a view.

The new operator station was designed by loggers for loggers. It's roomier and more comfortable, with ergonomically designed controls. And the view has to be seen to be believed, with significantly more window area for improved visibility.

Effortless control

Fully adjustable armrests, including mounted keypads, provide fingertip control of all machine functions. Fully adjustable air-cushioned seat provides exceptional daylong comfort in the climate-controlled cab.

Sealed-switch module

Sealed touchpad 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.

Improved visibility

Floor-to-ceiling front window expands the view of the cutting area by 44 percent.

They've completely redesigned the cab — it's a lot larger. And with improved visibility, it really opens everything up. It's like you're right out there in the forest.

Frank Chandler, Jr., CAG member
C&C Logging, Kelso, Washington

EXPECT MORE

All give and no take.

In the woods, uptime is the name of the game. That's why we went to our toughest customers, loggers just like you, to help develop these rugged new players — the 800M- and 800MH-Series Tracked Felled Bunchers and Tracked Harvesters.

Robust booms

Field-proven boom design is transplanted from our larger 900M- and 900MH-Series models. All booms are stronger and more robust, with thicker plates and larger pins and bushings to ensure long life.

Larger fuel tanks

Fuel-tank capacity has been increased by over 50 percent (to 230 versus 154 gal. on comparably sized machines) to extend intervals between fill-ups, allowing you to run up to 24 hours without refueling.

Through-nose harvester head plumbing

Through-nose plumbing option routes hoses up and out of harm's way to extend hose life, increasing uptime and reducing operating costs.

More stable and able

Improved stability and increased engine horsepower help you make quick work of the woods in all conditions.

Optional toolbox

Optional undercarriage-mounted toolbox provides convenient storage for tools, additional saw bars, and other spare parts, minimizing trips back to the service truck.

It's so important to get customer input into a product because we're the ones who spend our lives in the equipment. These machines are very well built, and they represent pretty much everything we asked Deere to build.

Mark Maenpaa, CAG member
K&M Logging Inc., Thunder Bay, Ontario


WARNING
35%
FASTER
CYCLE TIMES
ON THE BOOM
OVER 50%
INCREASED
BOOM DURABILITY
KEEP BACK 300FT/90M
Waratah

Best-in-class serviceability

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

Hydraulic reversing fan

Reversing fan automatically reverses airflow to eject debris from the cooler cores, conserving power and fuel. Variable-speed fan runs only as fast as needed, or if conditions demand more frequent cleaning, simply press a button to actuate the reversing cycle.

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, simplifying maintenance and repairs when needed.

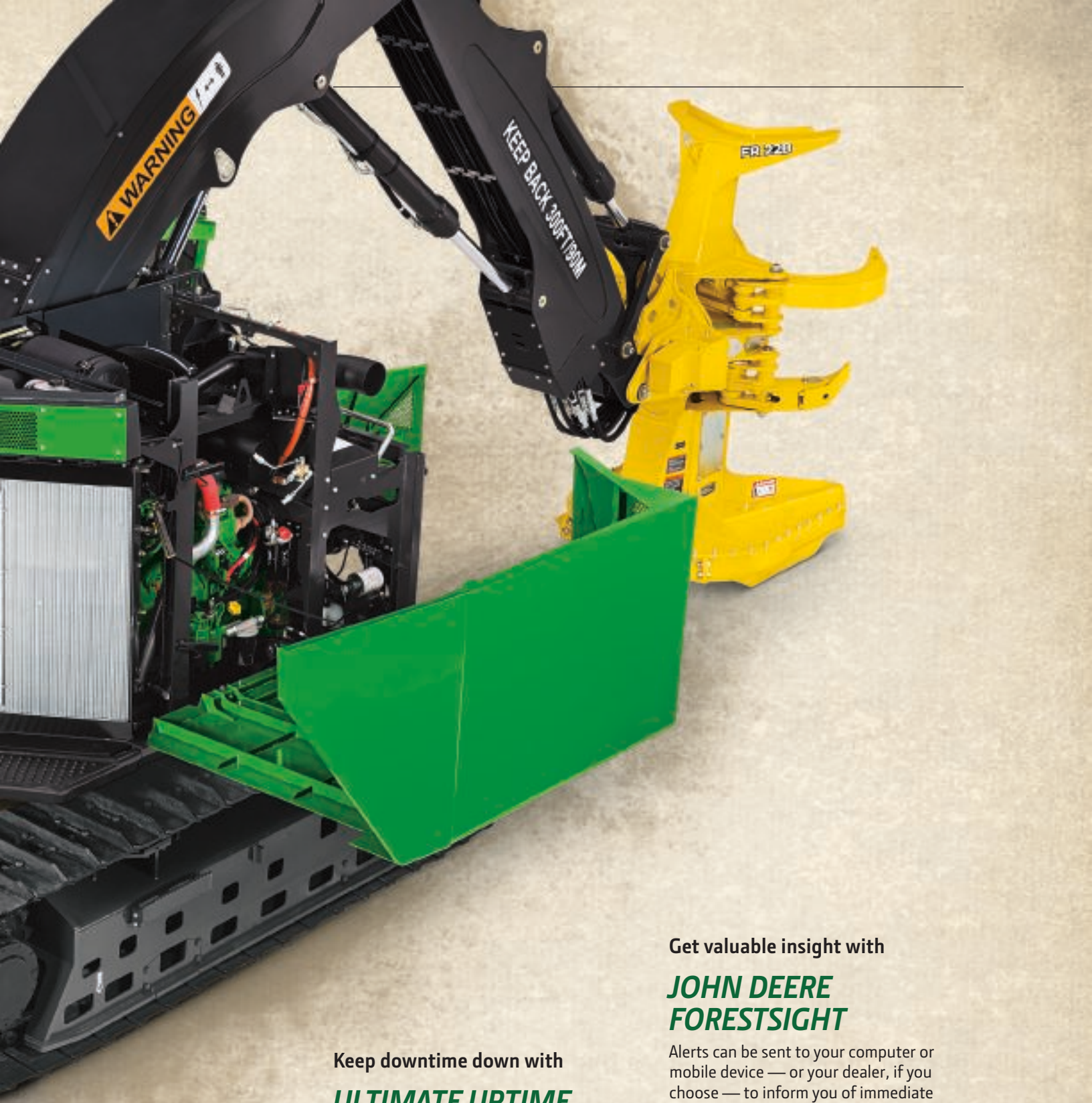
Remote diagnostics

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.

Work faster with TimberNavi™

Get a clearer picture of your operations with the optional new TimberNavi. This easy-to-use GPS-mapping technology provides locations of site features such as streams, roads, and electricity lines on a rugged color touchscreen display, enabling operators to work with confidence. Precise knowledge of machine position relative to cut-block boundaries will help you maximize efficiency, so you can move more wood to the landing at less cost.

SEE FOR YOURSELF.



Keep downtime down with

ULTIMATE UPTIME

In addition to the base John Deere ForestSight™ features, our dealers work with you to build an uptime package that meets your specific needs, including customized maintenance and repair agreements, onsite parts availability, extended warranties, fluid sampling, response-time guarantees, and more.

Get valuable insight with

JOHN DEERE FORESTSIGHT

Alerts can be sent to your computer or mobile device — or your dealer, if you choose — to inform you of immediate machine issues. If downtime does occur, exclusive remote diagnostics and programming enable your Deere 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.

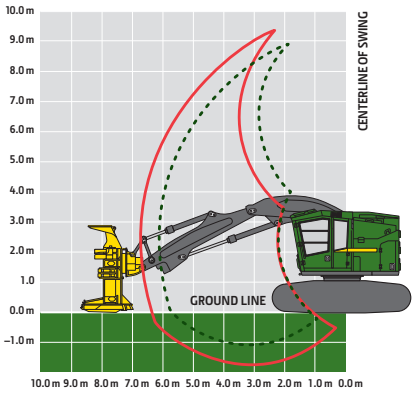
803M/853M/859M

Engine	803M/853M/859M					
Manufacturer and Model	John Deere PowerTech™ Plus 6090H					
Non-Road Emission Standard	EPA Tier 3/EU Stage IIIA					
Cylinders	6					
Displacement	9.0 L (549 cu. in.)					
Peak Power at 1,900 rpm	224 kW (300 hp)					
Rated Power at 2,000 rpm	213 kW (286 hp)					
Net Peak Torque at 1,500 rpm	1270 Nm (937 lb.-ft.)					
Cooling						
Fan Type	Suction type, hydraulically driven, variable speed, reversing					
Hydraulics						
Closed center, load sense, pressure compensated						
Standard Travel System						
Main Pump	Variable-displacement axial piston					
Maximum Rated Flow	494 L/min. (131 gpm)					
Continuous Saw Pump	Dedicated variable-displacement axial piston					
Maximum Rated Flow	135 L/min. (36 gpm)					
Attachment Pump	Dedicated variable-displacement axial piston					
Maximum Rated Flow	135 L/min. (36 gpm)					
Closed-Loop Hydrostatic Drive						
Main Pump – Dedicated Travel	Variable-displacement axial piston					
Maximum Rated Flow	494 L/min. (131 gpm)					
Travel Pump	Dedicated variable-displacement axial piston					
Maximum Rated Flow (x2)	190 L/min. (50 gpm)					
Continuous Saw Pump	Dedicated variable-displacement axial piston					
Maximum Rated Flow	135 L/min. (36 gpm)					
Attachment Pump	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					
Electrical						
Voltage	24 volt					
Number of Batteries	2 x 12 volt					
Alternator Rating						
Standard	100 amp					
Optional	130 amp					
Work Lights						
Standard	Halogen (12)					
Optional	LED (12)					
Service Lights	Halogen (2)					
Undercarriage	**803M**		**853M**		**859M**	
Integral track guides, thick high-abrasion-resistant material, ramp angles, hydraulic track adjustment						
Size	U6 HD		U7 HD		U7 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	*Standard*	*Closed-Loop Hydrostatic Drive*	*Standard*	*Closed-Loop Hydrostatic Drive*	*Standard*	*Closed-Loop Hydrostatic Drive*
Travel Speed, Forward and Reverse						
High	4.9 km/h (3.0 mph)	4.9 km/h (3.0 mph)	4.2 km/h (2.6 mph)	4.2 km/h (2.6 mph)	3.6 km/h (2.2 mph)	3.6 km/h (2.2 mph)
Low	2.7 km/h (1.7 mph)	2.7 km/h (1.7 mph)	2.1 km/h (1.3 mph)	1.9 km/h (1.2 mph)	1.7 km/h (1.0 mph)	1.6 km/h (1.0 mph)
Tractive Effort	245 kN (55,040 lbf)	245 kN (55,040 lbf)	322 kN (72,300 lbf)	331 kN (74,320 lbf)	373 kN (83,880 lbf)	384 kN (86,210 lbf)
Rotating Upper	**803M/853M/859M**					
Swing System	*Standard*		*Optional*			
Swing Speed (maximum)	7.7 rpm		6.8 rpm			
Swing Torque	55 090 Nm (40,630 lb.-ft.)		80 170 Nm (59,130 lb.-ft.)			
Swing Brake	Sealed wet multi-disc, manually applied/released					
Serviceability						
Fuel Tank	870 L (230 gal.)					

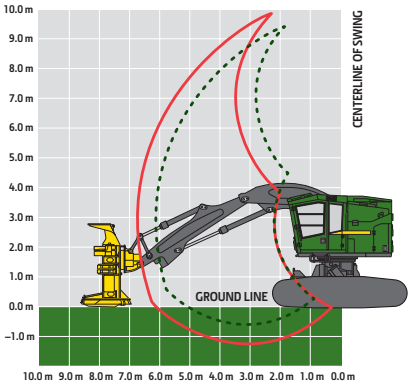
Machine not exactly as shown. Illustrations for dimensioning purposes only. Specifications are subject to change without notice.

Ground Pressure *(SAE J1309, standard machine, less attachment)*	803M	853M	859M
Undercarriage	U6 HD	U7 HD	U7 EXD
Double Grouser			
610 mm (24 in.)	58.1 kPa (8.4 psi)	57.8 kPa (8.4 psi)	68.2 kPa (9.9 psi)
762 mm (30 in.)	47.4 kPa (6.9 psi)	47.3 kPa (6.9 psi)	N/A
Single Grouser			
610 mm (24 in.)	57.7 kPa (8.4 psi)	57.7 kPa (8.4 psi)	68.0 kPa (9.9 psi)
711 mm (28 in.)	50.1 kPa (7.3 psi)	50.2 kPa (7.3 psi)	59.1 kPa (8.6 psi)
Triple Grouser (soft terrain only)			
914 mm (36 in.)	40.5 kPa (5.9 psi)	40.4 kPa (5.9 psi)	N/A
Operating Weight			
Includes standard equipment, 610-mm (24 in.) single-grouser tracks, standard counterweight, half-full fuel tank, and all fluids, less attachment			
Undercarriage	U6 HD	U7 HD	U7 EXD
Approximate Weight — Base Machine	28 250 kg (62,290 lb.)	30 170 kg (66,520 lb.)	35 450 kg (78,170 lb.)
Boom Performance			
6.71-m Boom			
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.)
Lift Option	*Standard*	*Power*	*Power*
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.)
6.1-m Boom			
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.)
Lift Option	*Standard*	*Power*	*Power*
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

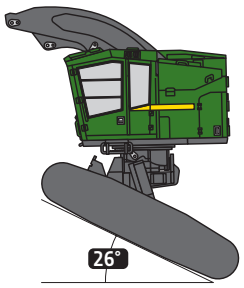


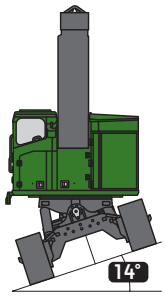
Attachment Information					
Attachment	*FS20*	*FR21B*	*FS22B*	*FR22B*	*FR24B*
Models	803M	803M, 853M, 859M	803M, 853M, 859M	803M, 853M, 859M	853M, 859M
Maximum Cutting Capacity	559 mm (22.0 in.)	545 mm (21.5 in.)	559 mm (22.0 in.)	559 mm (22.0 in.)	622 mm (24.5 in.)
Maximum Accumulation Capacity	0.43 m^2 (4.6 sq. ft.)	0.46 m^2 (5.0 sq. ft.)	0.48 m^2 (5.2 sq. ft.)	0.48 m^2 (5.2 sq. ft.)	0.60 m^2 (6.5 sq. ft.)
Opening at Front of Housing	983 mm (38.7 in.)	1180 mm (46.5 in.)	1280 mm (50.4 in.)	1280 mm (50.4 in.)	1372 mm (54.0 in.)
Blade Diameter	1422 mm (56.0 in.)	1372 mm (54.0 in.)	1422 mm (56.0 in.)	1422 mm (56.0 in.)	1549 mm (61.0 in.)
Number of Teeth	18	18	18	18	20
Saw rpm	1,150 rpm	1,150 rpm	1,150 rpm	1,150 rpm	1,150 rpm
Wrist Rotation	30 deg.	302 deg.	30 deg.	312 deg.	310 deg.
Width at Saw Housing	1600 mm (63.0 in.)	1550 mm (61.0 in.)	1620 mm (63.8 in.)	1620 mm (63.8 in.)	1737 mm (68.4 in.)
Height	2794 mm (110.0 in.)	2820 mm (111.0 in.)	3068 mm (120.8 in.)	3068 mm (120.8 in.)	3068 mm (120.8 in.)
Weight (including adapter and wrist)	2650 kg (5,840 lb.)	3140 kg (6,920 lb.)	3550 kg (7,830 lb.)	3840 kg (8,470 lb.)	4020 kg (8,860 lb.)

803M/853M/859M

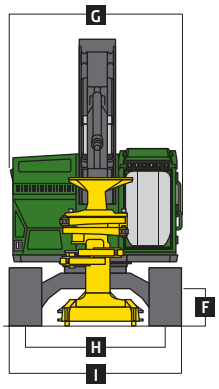
Machine Dimensions	803M	853M	859M
Standard Undercarriage	U6 HD	U7 HD	U7 EXD
A Overall Height with 6.71-m Boom			
Top of Cab with Flat Skylight	3.43 m (11 ft. 3 in.)	3.46 m (11 ft. 4 in.)	3.92 m (12 ft. 10 in.)
Top of Cab with Peaked Skylight	3.65 m (12 ft. 0 in.)	3.68 m (12 ft. 1 in.)	4.13 m (13 ft. 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 Overall Track Length	4.61 m (15 ft. 1 in.)	4.90 m (16 ft. 1 in.)	4.90 m (16 ft. 1 in.)
C 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.)
D 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 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.)
E Boom Reach (to attachment pin)			
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.)
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.)
F 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
G 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.)
H Track Gauge	2.67 m (8 ft. 9 in.)	2.69 m (8 ft. 10 in.)	2.72 m (8 ft. 11 in.)
I 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

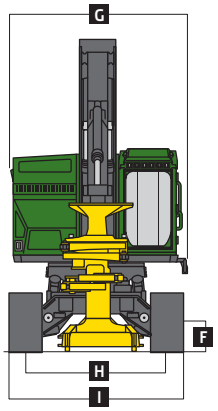
859M Leveling



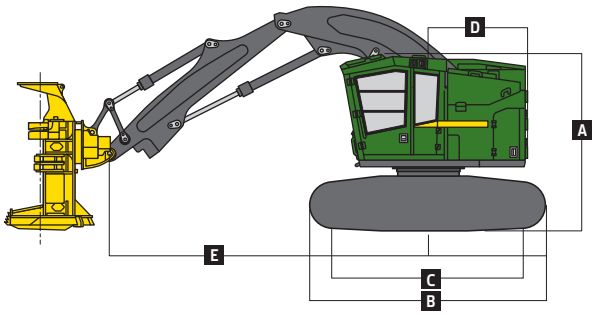


859M Undercarriage-Leveling Mechanism	
Forward	26 deg.
Side to Side	14 deg.
Rearward	7 deg.

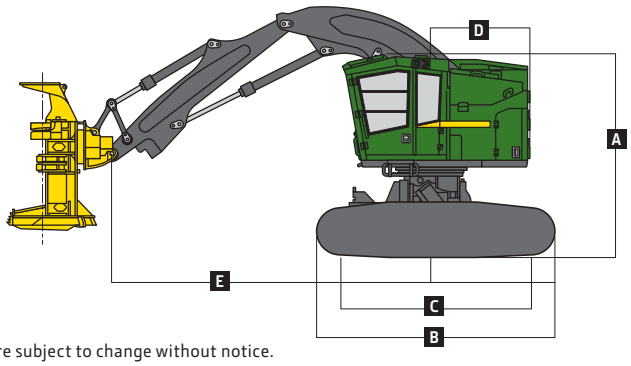




803M / 853M Tracked Feller Bunchers



859M Tracked Feller Buncher



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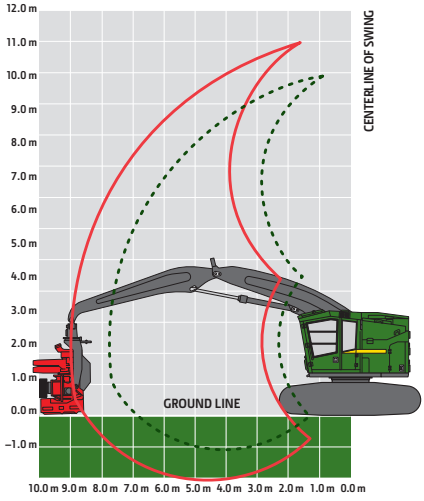
803MH/853MH/859MH

Engine	803MH/853MH/859MH					
Manufacturer and Model	John Deere PowerTech™ Plus 6090H					
Non-Road Emission Standard	EPA Tier 3/EU Stage IIIA					
Cylinders	6					
Displacement	9.0 L (549 cu. in.)					
Peak Power at 1,900 rpm	224 kW (300 hp)					
Rated Power at 2,000 rpm	213 kW (286 hp)					
Net Peak Torque at 1,500 rpm	1270 Nm (937 lb.-ft.)					
Cooling						
Fan Type	Suction type, hydraulically driven, variable speed, reversing					
Hydraulics						
Closed center, load sense, pressure compensated						
Standard Travel System						
Main Pump	Variable-displacement axial piston					
Maximum Rated Flow	494 L/min. (131 gpm)					
Attachment Pump	Dedicated variable-displacement axial piston					
Maximum Rated Flow (x2)	135 L/min. (36 gpm)					
Closed-Loop Hydrostatic Drive						
Main Pump – Dedicated Travel	Variable-displacement axial piston					
Maximum Rated Flow	494 L/min. (131 gpm)					
Travel Pump	Dedicated variable-displacement axial piston					
Maximum Rated Flow (x2)	190 L/min. (50 gpm)					
Attachment Pump	Dedicated variable-displacement axial piston					
Maximum Rated Flow (x2)	135 L/min. (36 gpm)					
Oil Filtration	2 main return filters, 10-micron return with bypass, one case drain strainer, 25 micron					
Electrical						
Voltage	24 volt					
Number of Batteries	2 x 12 volt					
Alternator Rating						
Standard	100 amp					
Optional	130 amp					
Work Lights						
Standard	Halogen (12)					
Optional	LED (12)					
Service Lights	Halogen (2)					
Undercarriage	**803MH**		**853MH**		**859MH**	
Integral track guides, thick high-abrasion-resistant material, ramp angles, hydraulic track adjustment						
Size	U6 HD		U7 HD		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	*Standard*	*Closed-Loop Hydrostatic Drive*	*Standard*	*Closed-Loop Hydrostatic Drive*	*Standard*	*Closed-Loop Hydrostatic Drive*
Travel Speed, Forward and Reverse						
High	4.9 km/h (3.0 mph)	4.9 km/h (3.0 mph)	4.2 km/h (2.6 mph)	4.2 km/h (2.6 mph)	3.6 km/h (2.2 mph)	3.6 km/h (2.2 mph)
Low	2.7 km/h (1.7 mph)	2.7 km/h (1.7 mph)	2.1 km/h (1.3 mph)	1.9 km/h (1.2 mph)	1.7 km/h (1.0 mph)	1.6 km/h (1.0 mph)
Tractive Effort	245 kN (55,040 lbf)	245 kN (55,040 lbf)	322 kN (72,300 lbf)	331 kN (74,320 lbf)	373 kN (83,880 lbf)	384 kN (86,210 lbf)
Rotating Upper	**803MH/853MH/859MH**					
Swing System, Standard						
Swing Speed (maximum)	6.7 rpm					
Swing Torque	80 170 Nm (59,130 lb.-ft.)					
Swing Brake	Sealed wet multi-disc, manually applied/released					
Serviceability						
Fuel Tank	870 L (230 gal.)					

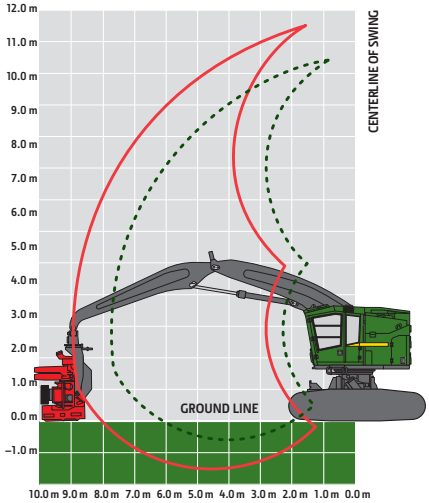
803MH/853MH/859MH

Ground Pressure *(SAE J1309, standard machine, less attachment)*	803MH	853MH	859MH
Undercarriage	U6 HD	U7 HD	U7L EXD
Double Grouser			
610 mm (24 in.)	57.9 kPa (8.4 psi)	57.6 kPa (8.4 psi)	67.8 kPa (9.8 psi)
762 mm (30 in.)	47.3 kPa (6.9 psi)	47.2 kPa (6.8 psi)	N/A
Single Grouser			
610 mm (24 in.)	57.5 kPa (8.3 psi)	57.5 kPa (8.3 psi)	67.7 kPa (9.8 psi)
711 mm (28 in.)	50.0 kPa (7.3 psi)	50.1 kPa (7.3 psi)	58.8 kPa (8.5 psi)
Triple Grouser (soft terrain only)			
914 mm (36 in.)	40.4 kPa (5.9 psi)	40.3 kPa (5.8 psi)	N/A
Operating Weight			
Includes standard equipment, 610-mm (24 in.) single-grouser tracks, standard counterweight, half-full fuel tank, and all fluids, less attachment			
Undercarriage	U6 HD	U7 HD	U7L EXD
Approximate Weight — Base Machine	28 150 kg (62,070 lb.)	30 070 kg (66,300 lb.)	35 260 kg (77,750 lb.)
Boom Performance			
8.84-m Boom with RCS			
Maximum Reach (to attachment pin)	8.84 m (29 ft. 0 in.)	8.84 m (29 ft. 0 in.)	8.84 m (29 ft. 0 in.)
Minimum Reach (to attachment pin)	2.71 m (8 ft. 11 in.)	2.71 m (8 ft. 11 in.)	2.71 m (8 ft. 11 in.)
Harvesting Swath	6.13 m (20 ft. 1 in.)	6.13 m (20 ft. 1 in.)	6.13 m (20 ft. 1 in.)
Standard-Lift Option			
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.)
7.75-m Boom with RCS			
Maximum Reach (to attachment pin)	7.75 m (25 ft. 5 in.)	7.75 m (25 ft. 5 in.)	7.75 m (25 ft. 5 in.)
Minimum Reach (to attachment pin)	2.31 m (7 ft. 7 in.)	2.31 m (7 ft. 7 in.)	2.31 m (7 ft. 7 in.)
Harvesting Swath	5.44 m (17 ft. 10 in.)	5.44 m (17 ft. 10 in.)	5.44 m (17 ft. 10 in.)
Standard-Lift Option			
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.)

803MH and 853MH Tracked Harvesters



859MH Tracked Harvester

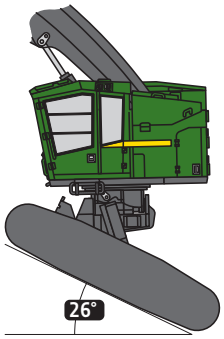


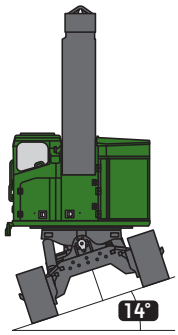
Attachment Information				
Attachment	*HTH616C*	*HTH622B*	*HTH623C*	*HTH624C*
Models	803MH, 853MH, 859MH	803MH, 853MH, 859MH	803MH, 853MH, 859MH	853MH, 859MH
Maximum Cutting Capacity	550 mm (21.7 in.)	750 mm (29.5 in.)	750 mm (29.5 in.)	810 mm (31.9 in.)
Maximum Delimbing Capacity	510 mm (20.1 in.)	640 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.)
(See individual Harvesting Head brochure for more details.)				

Machine not exactly as shown. Illustrations for dimensioning purposes only. Specifications are subject to change without notice.

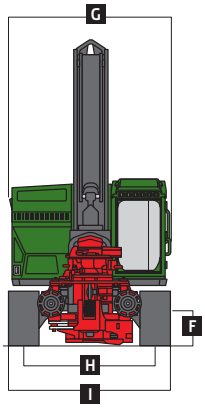
Machine Dimensions	803MH	853MH	859MH
Standard Undercarriage	U6 HD	U7 HD	U7L EXD
A Overall Height with 8.84-m Boom			
Top of Cab with Flat Skylight	3.43 m (11 ft. 3 in.)	3.46 m (11 ft. 4 in.)	3.92 m (12 ft. 10 in.)
Top of Cab with Peaked Skylight	3.65 m (12 ft. 0 in.)	3.68 m (12 ft. 1 in.)	4.13 m (13 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 Overall Track Length	4.61 m (15 ft. 1 in.)	4.90 m (16 ft. 1 in.)	4.90 m (16 ft. 1 in.)
C 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.)
D 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 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.)
E Boom Reach (to attachment pin)			
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.)
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.)
F 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
G 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.)
H Track Gauge	2.67 m (8 ft. 9 in.)	2.69 m (8 ft. 10 in.)	2.72 m (8 ft. 11 in.)
I 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 Leveling

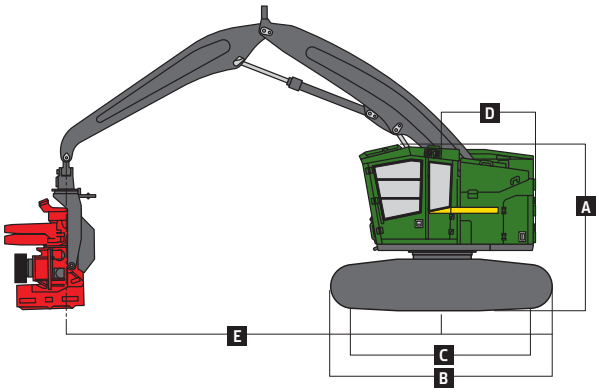


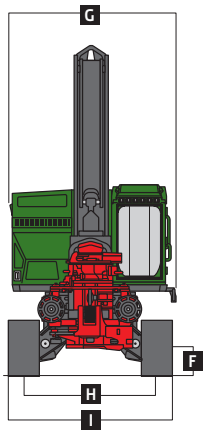


859MH Undercarriage-Leveling Mechanism	
Forward	26 deg.
Side to Side	14 deg.
Rearward	7 deg.

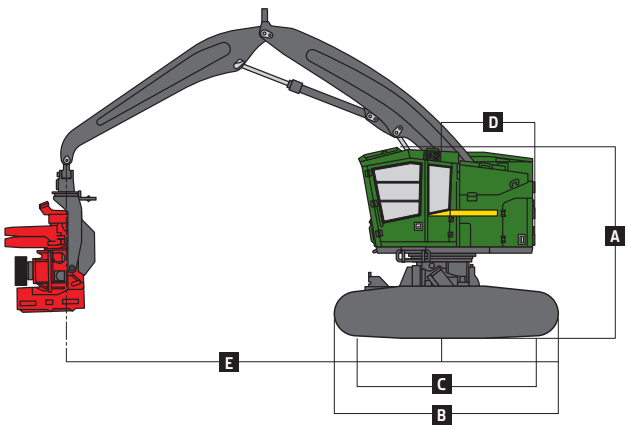


803MH / 853MH Tracked Harvesters





859MH Tracked Harvester



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