

COMMERCIAL WALK-BEHIND MOWERS

M Series, R Series



JOHN DEERE



It's in your hands.

Your hands. When it comes to the controls on our new John Deere M and R series walk-behind mowers, your hands were what we thought of first. Because if your hands aren't satisfied, you won't be either.

From the start, the goal was simple: improve operator comfort and productivity. And so we made sure the proximity of one control to another was just right. Also hand position for minimum fatigue was another consideration. Lastly, we made sure that the control grips were designed with recessed OPC levers providing a smooth contour that won't dig into your hands during operation.



M SERIES

W36M
W48M



R SERIES

W36R
W48R
W52R
W61R



Meet the new Commercial Walk-behind mowers: the M & R Series

M Series:

W36M/W48M

- 14.5 hp¹ (10.8 kW)/14.5 hp (10.8 kW)
- 36-inch (91.4-cm) floating mower deck available/48-inch (122-cm) floating mower deck available
- Self-propelled hydrostatic drive system
- Easy-to-use controls for operator comfort and convenience

R Series:

W36R/W48R/W52R/W61R

- 14.5 hp² (10.8 kW)/18.5 hp (13.8 kW)/25.0 hp (18.6 kW)
- 36-in. (91.4-cm)/ 48-inch (122-cm)/ 52-inch (132-cm)/61-inch (155-cm) floating mower decks available
- Self-propelled hydrostatic drive system
- Easy-to-use controls for operator comfort and convenience

¹ Horsepower measured at 3600 rpm, engine manufacturer certified gross power tested in accordance with SAE J1995. Engine horsepower and torque information for non-Deere engines are provided by the engine manufacturer for comparison purposes only. Actual operating horsepower and torque will be less. Refer to the engine manufacturer's Web site for additional information.

² Model available in California.



Goodbye gear, hello hydrostatic

Both the M & R Series feature hydrostatic drive systems that provide positive reverse for more power and smoother operation. The infinite ground speed adjustments on both units enables a smoother transition from one speed to another. And a reverse speed of 3 miles per hour (4.8 km/h) allows operators to back out of tight mowing spots quickly.



Greater Maneuverability is the result of responsive, ergonomic controls.



The M and R Series both feature a thoughtful design that promotes safe operation. Before the engine will start, the transmission speed lever must be in neutral, the parking brake set, the PTO disengaged and the key switch turned to on.



Yoke and caster wheels are made of solid construction for long life. Also, the caster wheels are set close to the blades for better ground following capability.



Both the M and R Series feature engines with a V-Twin design for smooth operation and fast starts. The aluminum engine block with cast-iron cylinder liners dissipates heat quickly. And the overhead valve design has:

- More horsepower and torque per cubic inch of displacement
- Better fuel efficiency
- Less oil consumption
- And a cooler operating temperature

Both the M and R Series are equipped with high quality fabricated decks, with 10-gauge (0.14 in./3.42mm) steel deck top plate, plus a 10-gauge (0.14 in./3.42mm) spindle reinforcement plate for added strength, and 7-gauge (0.19 in./4.8mm) side skirts with a reinforcement bar. All decks feature a floating suspension for the best possible cut. A deep deck design for more mowing capacity. And side and center anti-scalp wheels for smoother mowing.



With ground speeds up to 20% faster than the previous generation, you'll be cutting more acres with the M and R Series. The M Series features recoil start and transport speeds up to 6.5 mph (10.5 km/h). And the R Series has an electric start and transport speeds up to 7.5 mph (12.1 km/h). Speed walking indeed.



And for sheer curb climbing ability, our four R Series walk behinds are built with 8 and a half inches (21.6 cm) of frame clearance and positive reverse performance bringing even the most daunting curbs to their knees. No more scuffed or chipped curbs. And no more damage to the mower.





Better weight distribution means better operation.

We significantly improved the weight distribution on the M & R series to help operators on mowing slopes or tricky side-hills. Combine with our easy-to-use controls, operators can hold the line on hillsides.

SPECIFICATIONS: 2019 Commercial Walk-Behind Mowers

	M Series	
MODEL	W36M	W48M
ENGINE		
Model number*	FS481V	FS481V
Power (gross) ¹	At 3600 rpm 14.5 hp ¹ (10.8 kW)	At 3600 rpm 14.5 hp ¹ (10.8 kW)
Displacement	36.8 cu in. (603 cc)	36.8 cu in. (603 cc)
Oil filter	Full flow, replaceable	Full flow, replaceable
Oil cooler	N/A	N/A
Lubrication	Full pressure	Full pressure
Cleanout ports	Integrated	Integrated
Cooling	Air	Air
Air cleaner	Paper element with foam precleaner	Paper element with foam precleaner
Starter	Recoil	Recoil
FUEL SYSTEM		
Fuel tank capacity	5.4 U.S. gal. (20.4 L)	5.4 U.S. gal. (20.4 L)
Fuel filter	Replaceable, in fuel line	Replaceable, in fuel line
ELECTRICAL SYSTEM		
Hourmeter	Digital	Digital
Battery voltage	N/A	N/A
Cold cranking amp	N/A	N/A
DRIVE TRAIN		
Travel speed, forward	0-6.5 mph (0-10.5 km/h)	0-6.5 mph (0-10.5 km/h)
Travel speed, reverse	0-3 mph (0-4.8 km/h)	0-3 mph (0-4.8 km/h)
Speed and direction control	Ergonomic handles w/spring-loaded neutral lock	Ergonomic handles w/spring-loaded neutral lock
Filter	External, replaceable	External, replaceable
REAR WHEELS AND TIRES		
Rear tire size	18x6.5-8	18x8.5-8
CASTER WHEELS AND TIRES		
Caster wheel tire size	9x3.5-4	9x3.5-4
Caster wheel type	Semi-pneumatic	Semi-pneumatic
BRAKES		
Park brake	Internal, integrated in the transmission	Internal, integrated in the transmission
Park brake actuation	Hand brake	Hand brake
MOWER DECKS		
Available widths	36 in. (91.4 cm)	48 in. (122 cm)
Mower type	Side discharge	Side discharge
Spindle housings	Aluminum	Aluminum
Deck mounting	Full Floating	Full Floating
Deck thickness	10-gauge (0.14 in./3.42mm) fabricated steel deck top with added 10-gauge (0.14 in./3.42mm) spindle mounting plate, 7-gauge (0.19 in./4.8mm) side skirts with reinforcement bar	10-gauge (0.14 in./3.42mm) fabricated steel deck top with added 10-gauge (0.14 in./3.42mm) spindle mounting plate, 7-gauge (0.19 in./4.8mm) side skirts with reinforcement bar
Height-of-cut range	1.5-4.5 in. (3.8-11.4 cm) [.5 in (1.3 cm) increments]	1.5-4.5 in. (3.8-11.4 cm) [.5 in (1.3 cm) increments]
Cut-height positions	7	7
Blade tip speed	Approximately 18,000 fpm, 5,486 m/min	Approximately 18,000 fpm, 5,486 m/min
MOWER WHEELS/ROLLERS		
Front anti-scalp rollers	NA	Left, center
Rear anti-scalp rollers	NA	NA
DIMENSIONS		
Height	44.8 in. (113.9 cm)	44.8 in. (113.9 cm)
Length	76.4 in. (194.1 cm)	74 in. (187.4 cm)
Width (deflector down)	50 in. (127.1 cm)	62 in. (158.3 cm)
Width (deflector up for storage)	40 in. (101.6 cm)	51 in. (129.2 cm)
Weight	562 lb (255 kg)	622 lb (282 kg)
Warranty ³	24 month, single source commercial	24 month, single source commercial

* GAS engines - The engine horsepower and torque information are provided by the engine manufacturer to be used for comparison purposes only. Actual operating horsepower and torque will be less. Refer to the engine manufacturer's web site for additional information.

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² Model available in California.

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R Series			
W36R	W48R	W52R	W61R
FS481V	FS600V	FS600V	ECV740-EFI
At 3600 rpm 14.5 hp ^{1,2} (10.8 kW)	At 3600 rpm 18.5 hp ^{1,2} (13.8 kW)	At 3600 rpm 18.5 hp ^{1,2} (13.8 kW)	At 3600 rpm 25 hp ^{1,2} (18.6 kW)
36.8 cu in. (603 cc)	36.8 cu in. (603 cc)	36.8 cu in. (603 cc)	45.6 cu in. (747 cc)
Replaceable, in fuel line	Full flow, replaceable	Full flow, replaceable	Full flow, replaceable
N/A	N/A	N/A	Yes
Full pressure	Full pressure	Full pressure	Full pressure
Integrated	Integrated	Integrated	Integrated
Air	Air	Air	Air
Paper element with foam precleaner	Paper element with foam precleaner	Paper element with foam precleaner	Dual HD Canister
Electric	Electric	Electric	Electric
5.4 U.S. gal. (20.4 L)	5.4 U.S. gal. (20.4 L)	5.4 U.S. gal. (20.4 L)	5.4 U.S. gal. (20.4 L)
Replaceable, in fuel line	Replaceable, in fuel line	Replaceable, in fuel line	Replaceable, in fuel line
Digital	Digital	Digital	Digital
12 V	12 V	12 V	12 V
300 CCA	300 CCA	300 CCA	300 CCA
0-7.5 mph (0-12.1 km/h)	0-7.5 mph (0-12.1 km/h)	0-7.5 mph (0-12.1 km/h)	0-7.5 mph (0-12.1 km/h)
0-3 mph (0-4.8 km/h)	0-3 mph (0-4.8 km/h)	0-3 mph (0-4.8 km/h)	0-3 mph (0-4.8 km/h)
Ergonomic handles w/spring-loaded neutral lock	Ergonomic handles w/spring-loaded neutral lock	Ergonomic handles w/spring-loaded neutral lock	Ergonomic handles w/spring-loaded neutral lock
External, replaceable	External, replaceable	External, replaceable	External, replaceable
18x6.5-8	18x8.5-8	18x8.5-8	18x8.5-8
9x3.5-4	9x3.5-4	9x3.5-4	9x3.5-4
Semi-pneumatic	Semi-pneumatic	Semi-pneumatic	Semi-pneumatic
Mechanical locking, interference with tire	Mechanical locking, interference with tire	Mechanical locking, interference with tire	Mechanical locking, interference with tire
Hand brake	Hand brake	Hand brake	Hand brake
36 in. (91.4 cm)	48 in. (122 cm)	52 in. (132 cm)	61 in. (155 cm)
Side discharge	Side discharge	Side discharge	Side discharge
Aluminum	Aluminum	Aluminum	Aluminum
Full Floating	Full Floating	Full Floating	Full Floating
10-gauge (0.14 in./3.42mm) fabricated steel deck top with added 10-gauge (0.14 in./3.42mm) spindle mounting plate, 7-gauge (0.19 in./4.8mm) side skirts with reinforcement bar	10-gauge (0.14 in./3.42mm) fabricated steel deck top with added 10-gauge (0.14 in./3.42mm) spindle mounting plate, 7-gauge (0.19 in./4.8mm) side skirts with reinforcement bar	10-gauge (0.14 in./3.42mm) fabricated steel deck top with added 10-gauge (0.14 in./3.42mm) spindle mounting plate, 7-gauge (0.19 in./4.8mm) side skirts with reinforcement bar	10-gauge (0.14 in./3.42mm) fabricated steel deck top with added 10-gauge (0.14 in./3.42mm) spindle mounting plate, 7-gauge (0.19 in./4.8mm) side skirts with reinforcement bar
1.5-4.5 in. (3.8-11.4 cm) [.5 in (1.3 cm) increments]	1.5-4.5 in. (3.8-11.4 cm) [.5 in (1.3 cm) increments]	1.5-4.5 in. (3.8-11.4 cm) [.5 in (1.3 cm) increments]	1.5-4.5 in. (3.8-11.4 cm) [.5 in (1.3 cm) increments]
7	7	7	7
Approximately 18,000 fpm, 5,486 m/min	Approximately 18,000 fpm, 5,486 m/min	Approximately 18,000 fpm, 5,486 m/min	Approximately 18,000 fpm, 5,486 m/min
NA	Left, center	Left, center	Left, center, right
NA	Center roller/wheel	Center roller/wheel	Center roller/wheel
44.8 in. (113.9 cm)	44.8 in. (113.9 cm)	44.8 in. (113.9 cm)	44.8 in. (113.9 cm)
76.4 in. (194.1 cm)	74 in. (187.4 cm)	74.5 in.(189.0 cm)	83 in. (210.7 cm)
50 in. (127.1 cm)	62 in. (158.3 cm)	66 in. (168.5 cm)	75.5 in. (191.6 cm)
40 in. (101.6 cm)	51 in. (129.2 cm)	56 in. (142.1 cm)	65 in. (142.1 cm)
616 lb (280 kg)	669 lb (304 kg)	679 lb (308 kg)	745 lb (338 kg)
24 month, single source commercial	24 month, single source commercial	24 month, single source commercial	24 month, single source commercial

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