

# MP493 / 653 / 653XC SPECIFICATIONS

# Wide Area Rotary Mower

	MP493	MP653	MP653XC
<b>ENGINE</b>			
Type	Kubota® V2403-M-DI-E3B 4-cyl, liquid-cooled diesel	Kubota® V2403-CR-T-E5 4-cyl, liquid cooled, turbo diesel	
Rated Horsepower* (gross)	36.5 kW (48.9 HP) @ 2700 rpm	48.6 kW (65.2HP) @ 2700 rpm	
Emission Level	EU Stage IIIA - (EPA Tier 4 Interim)	EU Stage V - (EPA Tier 4 Final)	
Cooling System	Side-by-side radiator/hydraulic oil cooler; pressurised; 7.8 litre (8.25 qt.) capacity, 8.5 fins per inch	Side-by-side radiator/hydraulic oil cooler; pressurised; 7.8 litre (8.25 qt.) capacity, 8.5 fins per inch. Reversible cooling fan	
Fuel Capacity	77.1 litre (20.4 gal)		
Electrical System	12-volt, input/output controller. 45/60 amp alternator. Overload protection with automotive type fuses		
<b>TRACTION AND DRIVE</b>			
Traction System	Hydrostatic closed loop parallel cross series SureTrac system; variable displacement piston pump; front high torque fixed displacement piston wheel motors; full time auto 4wd forward, on demand in reverse.		
Deck Drive	Individual hydraulic motors with self lubricating integral bearings		
Hydraulic System	50.2 litre (13.3 gal) capacity reservoir, O-ring face seal fittings, 10 micron remote charge filters, suction screen at tank, oil cooler side by side radiator, diagnostic test ports		
<b>SPEED</b>			
Mowing	12 km/h (7.5 mph)	16.4 km/h (10 mph) variable	
Transport	25 km/h (15.5 mph)	25 km/h (15.5 mph) variable	
Reverse	6.4 km/h (4 mph)	6.4 km/h (4 mph) variable	
<b>TYRES, BRAKES AND STEERING</b>			
Front tyres	26 x 12-12 tubeless 8 ply		
Rear tyres	20 x 10-8 tubeless 6 ply		
Service Brake	Dynamic through traction system		
Parking Brake	Wet parking brakes integrated into wheel motors		
Steering	Q-Amp® Variable rate, hydrostatic powered equal displacement cylinder to rear wheels		
<b>DECKS AND CUTTING</b>			
Overall Cutting width	3.28m (129 in.)	3.28m (129 in.) or 3.48m (137 in.)	4.27m (168 in.)
Number and size	One 1.52m (60 in.) front deck; Two 1.03m (40 in.) impact absorbing wing decks	One 1.52m (60 in.) front deck; Two 1.03m (40 in.) or 1.12m (44 in.) impact absorbing wing decks	One 1.52m (60 in.) front deck; Two 1.52m (60 in.) impact absorbing wing decks
Deck Construction	Bull nose profile, high strength, low weight Strenx® steel construction. Solid bumper rails, bolted assembly of all impact and wear parts		
Castor Wheels	Eight, 11 x 4. Smooth, semi pneumatic puncture proof, sealed precision ball bearings		Eight, 11 x 4 - 5/3.25
Deck lift/lower	Fingertip operated joysticks for individual deck lift/lower; cross cut position; front deck service position with lock pin. Electronic safety locks.		
Weight Transfer	On demand electrically operated hydraulic weight transfer system		
Height of Cut	25-120mm (1 - 4.75 in.) in 6.5mm (0.25 in.) increments; tool-less adjustment		25-114mm (1-4.5 in.) in 13mm (0.5 in.) increments
Cutting Capacity (10% allowance for overlap)	At 12 kph (7.5mph): 3.56 ha/hr (8.8 acres/hr)	At 12 kph (7.5mph): 3.56 ha/hr (8.8 acres/hr) 3.76 ha/hr (9.6 acres/hr)	At 12 kph (7.5mph): 4.61 ha/hr (11.4 acres/hr)
<b>WEIGHT AND DIMENSIONS</b>			
Weight	1,697 kg (3741 lbs); 1,912 kg (4215 lbs) with cab	1,769 kg (3900 lbs); 1,976 kg (4356 lbs) with cab	1,825 kg (4023 lbs); 2,032 kg (4479 lbs) with cab
Length	3.62m (143 in.) Front deck down		
Height	2.11m (83 in.) ROPS Up; 1.70m (67 in.) ROPS & Decks Down; 2.2 m (87 in.) with cab		2.34m (92 in.) wing decks up
Transport Width	1.65m (65 in.) at 50mm (2 in.) height of cut		
Accessories	Road lighting kit, beacon, Tilt Sensor Technology (TST), air suspension seat, puncture resistant tyres, equipment carry cage, air-conditioned cab		

\*Engine power is provided by engine manufacturer. Actual operating power output may vary due to conditions of specific use.  
NOTE: Specifications, while correct at time of printing, may change without notice.

**RANSOMES**

**MP493  
MP653  
MP653XC**

Wide Area Rotary Mower



DIESEL POWERED BY  
**Kubota**

*The Ransomes MP series has been developed from the ground up as a new generation of adaptable and practical wide area mowers. Delivering productivity on all fronts, the Ransomes MP Series is highly manoeuvrable, easy to transport, engineered for reduced downtime and produces the widest width of cut in its class.*

The first in a range of wide area mowers, the MP493 and MP653 are designed with high strength steel throughout, reducing overall weight where possible to make best use of their available power. A range of engines, control systems and cutting widths are available to give options for all budgets and working conditions.

## QUICK SPECS

	MP493	MP653	MP653XC
<b>Engine (gross):</b>	36.5 kw (49 hp) Kubota® Diesel	48.6 kw (65 hp) Kubota® Turbocharged Diesel	
<b>Emissions:</b>	EU Stage IIIA	EU Stage V (EPA Tier 4 Final)	
<b>Width-of-Cut:</b>	3.3 m (129 in.)	3.3 - 3.5 m (129 - 137 in.)	4.27 m (168 in.)
<b>Weight:</b>	1,697 kg (3,741 lbs)	1,769 kg (3,900 lbs)	1,825 kg (4,023 lbs)
<b>Length:</b>	3.62 m (143 in.)		
<b>Height:</b>	2.11m (83 in.)		
<b>Transport Width:</b>	1.65m (65 in.)		

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**RANSOMES**

**MP Series**

Ransomes MP Series Wide Area Rotary Mowers have been developed to deliver:

### PRODUCTIVITY

- Rugged and reliable Kubota® engines deliver power direct to the efficient hydraulic system.
- Lift and lower individual decks or run all three at a maximum width of cut to suit your needs.
- Turn on the spot within the cutting width to effortlessly mow back and forth.

### SERVICEABILITY

- Zero maintenance direct drive decks mean less time greasing, no adjusting belts and more time out at work.
- Immediate hood access for daily checks and quick-release side panels for more thorough servicing make working on the MP series effortless.

### COMFORT

- ISO mounted platform and full suspension seat offers operators unparalleled comfort and higher levels of productivity.
- Excellent seating position for an unobstructed view all around the mower whether cutting or in transport.

### ACCESSIBILITY

- With a transport width within the front deck, this mower will go places others simply can't go.
- Low transport weight of 1697 kg (MP493) means a wider variety of towing options are available.

Cab option available



#### FULLY EQUIPPED AS STANDARD:

- ✓ Air conditioning and heater
- ✓ Noise cancelling interior
- ✓ High visibility, heated, front screen
- ✓ Air suspension, high specification cloth seat
- ✓ Dual warning beacons

## PRODUCT CONFIGURATION

### EQUIPPED AS STANDARD MP493

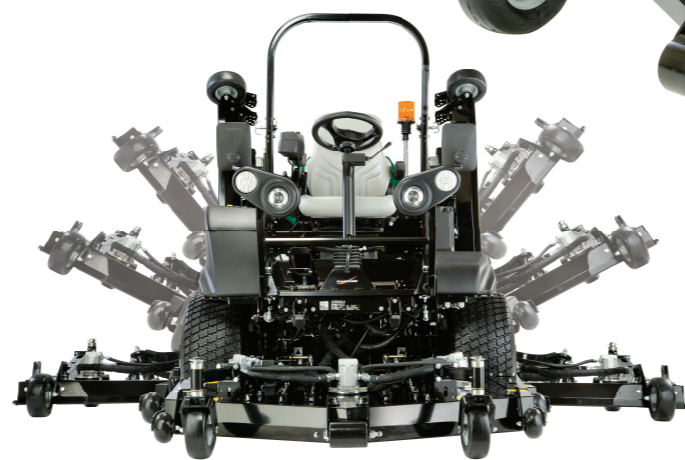
- ✓ Foldable ROPS
- ✓ 3.8" Display screen
- ✓ Tilt steering wheel
- ✓ 4 point tie down
- ✓ Fully adjustable suspension seat
- ✓ Fully sealed maintenance free rear axle

### ADDITIONALLY ON THE MP653

- ✓ Cruise control
- ✓ Adjustable travel speeds
- ✓ Advanced onboard engine and electronic diagnostics
- ✓ Quick select manual, auto and creep drive modes

### Stage V (Tier 4 Final) clean engine technology

- Common rail system for precise high pressure fuel injection control to enable lower temperature burn and generate less nitrogen oxide (NOx) pollutant.
- Exhaust gas recirculation method to remix a portion of the engine's exhaust back to the engine cylinders to reduce NOx emissions.
- Diesel particulate filtration with a diesel oxidation catalyst to transform particulate matter (PM) into water and carbon dioxide and minimise the PM in the exhaust.



Cutting Width: 3.3 - 3.5 m  
Transport Width: 1.65 m

**Road Lighting Kit**  
Optional road legal LED lighting kit positioned out of the way from the operators view of the cutting area.

**Control Armrest**  
Operator lift/lower controls on fingertip joystick for fatigue free operation. Cross cut position for seamless transitioning over pathways.

**Q Amp® Steering**  
Variable rate steering system delivering straight line mowing whilst maintaining the fast response required to turn immediately.

DIESEL POWERED BY  
**Kubota**

**Comfortable, Productive Ride**  
ISO mounted operator platform complete with a full suspension, high back seat. Maximum visibility with minimum fatigue.

**Control Unit**  
Onboard diagnostics, service intervals and TST (Optional) for safe slope operation ensures operators have all the information to run their machines efficiently and safely.

**Reversing Fan (MP653 & MP653 XC)**

Hydraulically driven, temperature controlled reversible engine fan. Reverses automatically or on demand to clear air intake screens.

**SureTrac™ 4WD**

Parallel-cross-series system automatically transfers power where needed. Provides superior traction for hill climbing and side slope operation. Also features on-demand 4WD in reverse.

**Generous Ground Clearance**

For confident travel over rough ground.

**Maintenance Free, Wet Parking Brakes**

Integrated into the front wheel motors, deliver safe braking on even the steepest of slopes and have no linkages or pads to service or adjust.

**Cutting Unit Lock**

Wing decks secured electronically from the operator's seat giving effortless, safe transport every time you're on the road.

**Decks**

Direct drive via hydraulic motors deliver power to each individual blade with zero maintenance. A lightweight durable deck pan design made from high strength steel. All impact and wear parts are bolted on and replaceable for simple, cost-effective maintenance. Wingdecks protected by impact absorption system with 150 mm of travel. Flip up front deck makes maintenance access quick and easy.

**Additional Control Functions On MP653:**

- Tune maximum operating speeds and cut functions to suit the needs of your operators.
- Quick select operation modes allow the operator to achieve maximum control and performance from the machine. Including:
  - Adapticut** – Onboard sensors assist the operator in selecting optimum speeds for cutting in heavy conditions.
  - Creep** - Instantly reduce travel speed for moving in tight spaces and loading operations.