

**Mecalac**

COMPACTION ROLLERS  
SERIES



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**COMPACTION  
ROLLERS**

SERIES

**Mecalac**



# TOUGH EXTERIOR, INTERNAL INNOVATION

With more than 60 years' experience in both design and production, we continue to innovate, boasting a comprehensive portfolio of state-of-the-art equipment specifically developed to revolutionise operations for construction professionals worldwide – saving time, money and labour.

Built with innovation in mind, Mecalac compaction rollers are designed to withstand the most demanding tasks. Easy to use controls, intuitive layout and with vibration reduction technology enhances operator comfort and productivity.

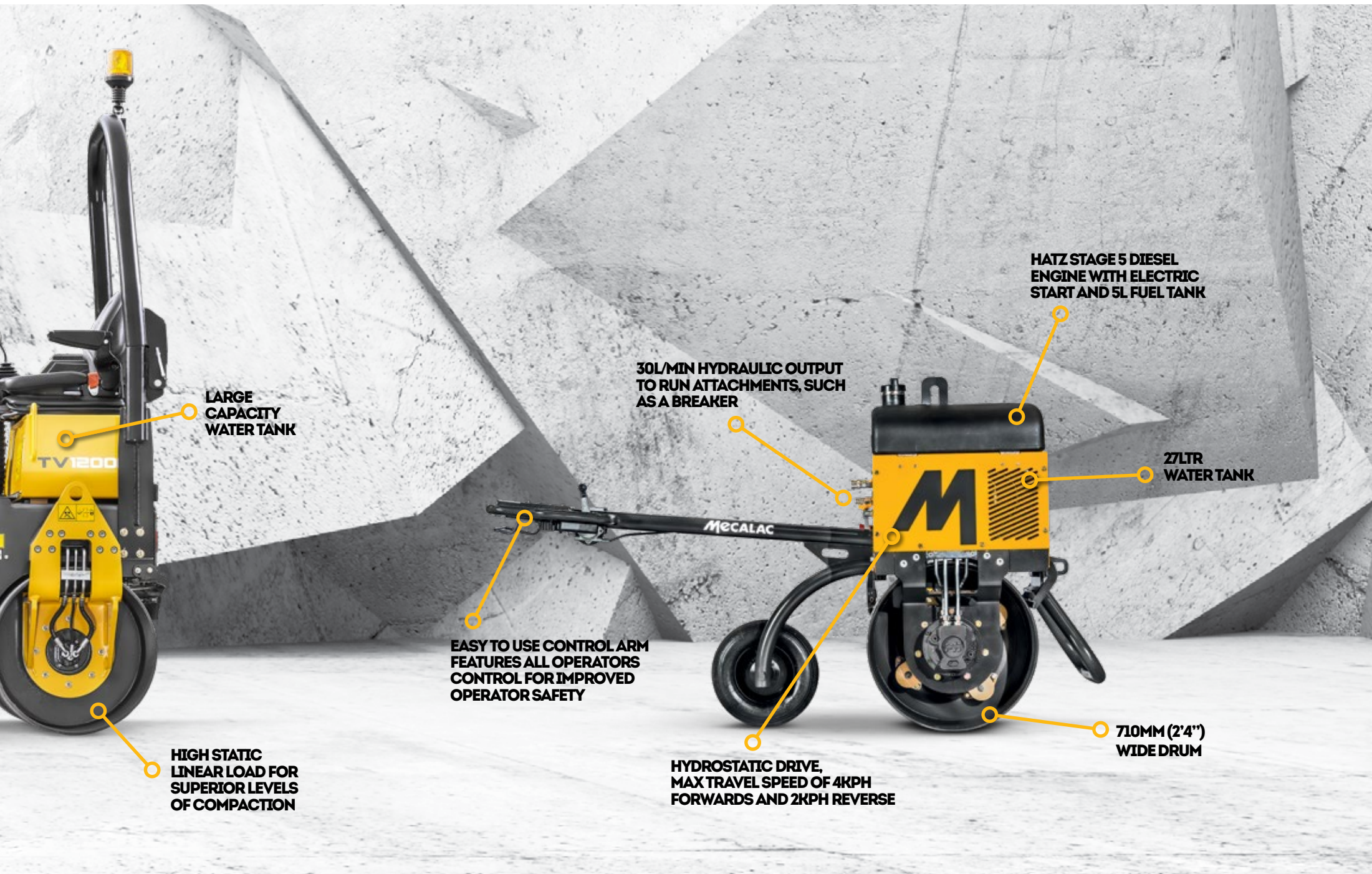
Ranging from the versatile MBR71 pedestrian roller to the productive TV1200 tandem roller (and everything in-between), there's the right machine for every application.

**HIGH PERFORMANCE,  
FUEL EFFICIENT KUBOTA  
STAGE V ENGINE, REXROTH  
HYDROSTATIC TRANSMISSION**

**WRAP AROUND STEERING  
COLUMN FOR IMPROVED  
OPERATOR COMFORT**

**HEAVY DUTY FRONT  
TILTING ENGINE CANOPY  
PROVIDES EXCELLENT  
SERVICE ACCESS**

**EASILY SELECTABLE 1 OR 2  
DRUM VIBRATION, INCLUDING  
DUAL FREQUENCY VIBRATION**



**LARGE  
CAPACITY  
WATER TANK**

**30L/MIN HYDRAULIC OUTPUT  
TO RUN ATTACHMENTS, SUCH  
AS A BREAKER**

**HATZ STAGE 5 DIESEL  
ENGINE WITH ELECTRIC  
START AND 5L FUEL TANK**

**27LTR  
WATER TANK**

**EASY TO USE CONTROL ARM  
FEATURES ALL OPERATORS  
CONTROL FOR IMPROVED  
OPERATOR SAFETY**

**HIGH STATIC  
LINEAR LOAD FOR  
SUPERIOR LEVELS  
OF COMPACTION**

**HYDROSTATIC DRIVE,  
MAX TRAVEL SPEED OF 4KPH  
FORWARDS AND 2KPH REVERSE**

**710MM (2'4")  
WIDE DRUM**



# SINGLE DRUM ROLLERS

## MBR71

Designed for the compaction of asphalt materials, Mecalac pedestrian rollers provide class-leading performance in applications including highway repair, footpaths, cycle lanes, playgrounds and landscaping environments.

The proven design provides superb balance, making it easy to manoeuvre in tight spaces.

Innovative rubber couplings in the drum reduce vibration transfer for low hand-arm (HAV) levels for additional comfort. The MBR71 is fitted with a 'hold to travel' handle so that the hydraulic drive cuts off if the control lever is released.

For added versatility the MBR71 features an all-new tow-behind trailer and hydraulic breaker combination. Inverted suspension ensures the trailer is perfect for low loading, while a new light board design ensures optimum visibility and compliance for road-tow operation.

## FEATURES – SINGLE DRUM ROLLERS

- Reliable, air-cooled engine with electrical start for easy start-up
- Effective drum clearing from front and rear scraper bars
- High capacity corrosion free water system ensures drum cleanliness at all times
- Hydrostatic transmission for easy manoeuvrability
- High quality surface finish on drum for improved results on asphalt surfaces





# TANDEM VIBRATING ROLLERS

Arguably some of the toughest in the world, the Mecalac range of tandem rollers are designed for the rigorous demands of the plant hire industry.

## TV800

The TV800 (featuring with an 800mm (2'7") drum) is perfect for small sites. An optional hydraulic breaker outlet provides 30L/min flow rate (Category 2), removing the need for an additional powerpack or compressor on site, further increasing versatility.

## TV900

With a 900mm (2'11") drum, high compaction productivity is achieved by the TV900's mass exciter system, which delivers high dynamic force, optimised balance between frequency and amplitude provides ultimate versatility in meeting all kinds of job site conditions. An optional hydraulic breaker outlet provides 30L/min flow rate (Category 2).

## TV1000

Setting the standard for asphalt and granular layers compaction, the TV1000 is operator friendly and highly productive. Hydrostatic power management provides excellent hill-climbing ability and, when combined with superb articulation delivering a tight turning circle, are highly manoeuvrable. The TV1000 features 1000mm (3'3") wide drums.





# TANDEM VIBRATING ROLLERS

## TV1200

Bringing new life to a proven classic, the TV1200 features an all-new vacuum formed bonnet, revised side arm, LED lights and a fully-refreshed livery. A water-cooled diesel engine and renowned mass exciter system completes the set-up, guaranteeing a reliable roller with outstanding performance.

## FEATURES – TANDEM VIBRATING ROLLERS

- Rugged design to withstand plant hire industry conditions
- Water-cooled diesel engines provide excellent reliability, low noise and low emissions
- High-static linear loads reduce the number of passes
- Two frequencies provide enhanced versatility
- Optional pressure fed water sprinkler provides greater flow regulation for improved cleaning capability





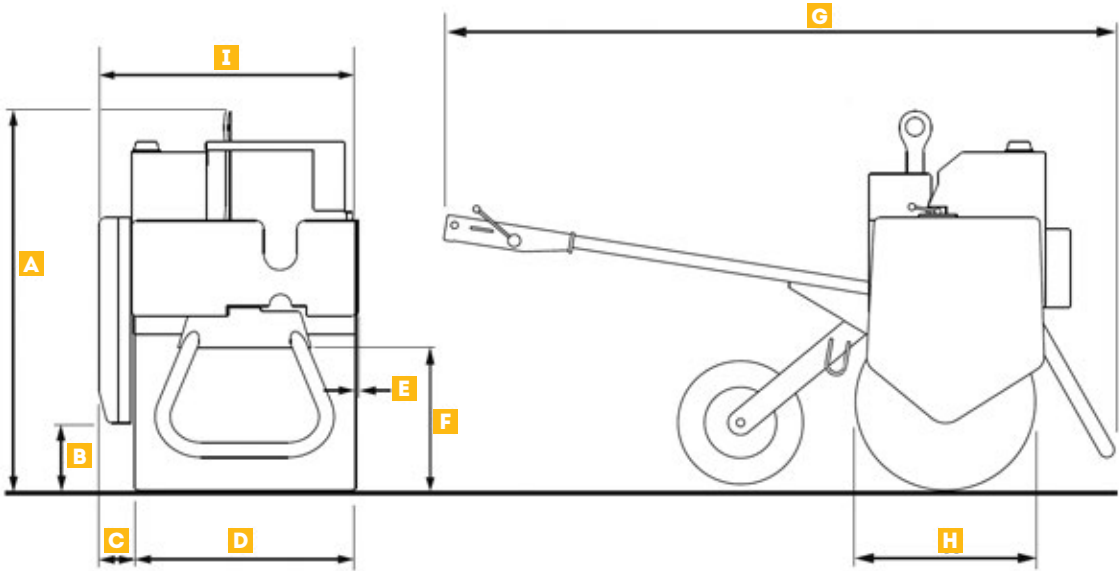
# TECHNICAL SPECIFICATIONS



| Compaction Roller Range          | MBR71         | TV800          | TV900          | TV1000           | TV1200           |
|----------------------------------|---------------|----------------|----------------|------------------|------------------|
| Operating Weight kg (lbs)        | 513<br>(1130) | 1559<br>(3437) | 1568<br>(3457) | 2570<br>(5665.8) | 2925<br>(6448.5) |
| Static Linear Load kg/cm (lb/in) | 7.2<br>(40.3) | 9.7<br>(54.3)  | 8.7<br>(48.7)  | 12.85<br>(71.9)  | 12.18<br>(68.2)  |
| Frequency VPM                    | 3900          | 2760 / 3120    | 2760 / 3120    | 2880 / 3360      | 2880 / 3360      |

➔

TECHNICAL DATA PEDESTRIAN ROLLER MBR71



| DIMENSIONS mm (ft in)            |                           | DATA         |
|----------------------------------|---------------------------|--------------|
| <b>A</b>                         | Overall Height            | 1225 (4')    |
| <b>B</b>                         | Curb Clearance - Farside  | 468 (1'6")   |
| <b>C</b>                         | Overhang - Farside        | 38 (1.5")    |
| <b>D</b>                         | Drum Width                | 710 (2'3")   |
| <b>E</b>                         | Overhang - Curbside       | 25 (1")      |
| <b>F</b>                         | Curb Clearance - Curbside | 380 (1'3")   |
| <b>G</b>                         | Overall Length            | 2187 (7'2")  |
| <b>H</b>                         | Drum Diameter             | Ø575 (1'11") |
| <b>I</b>                         | Machine Width             | 772 (2'6")   |
| Drum Shell Thickness (not shown) |                           | 8            |

| PERFORMANCE                        | DATA       |
|------------------------------------|------------|
| Total Static Basic Weight kg (lbs) | 496 (1093) |
| Operating Weight kg (lbs) CECE     | 513 (1130) |
| Static Linear Load kg/cm (lb/inch) | 7.2 (40.3) |
| Frequency - Hz (VPM)               | 65 (3900)  |
| Amplitude (mm)                     | 0.57       |
| Centrifugal Force kN (lbf)         | 15 (3372)  |
| Gradeability - without Vibration   | 33%        |
| Gradeability - with Vibration      | 25%        |

| ENGINE & DRIVE                        |                                |
|---------------------------------------|--------------------------------|
| Engine Make                           | Hatz                           |
| Engine Model                          | 1B50T                          |
| Cylinders                             | 1                              |
| Displacement cc (in³)                 | 517 (31.5)                     |
| Cooling                               | Air                            |
| Power - kW (HP) (DIN ISO 1585)        | 7.3 (9.8)                      |
| Operating Speed (rpm)                 | 3000                           |
| Fuel Type                             | Diesel                         |
| Drive                                 | Hydrostatic                    |
| Maximum Travel Speed (kph) - Forwards | 4 (2.5)                        |
| Maximum Travel Speed (kph) - Reverse  | 2 (1.2)                        |
| Braking System - Service              | Dynamic Hydrostatic            |
| Braking System - Parking              | Spring apply hydraulic release |
| Start Type                            | Electric                       |

| CAPACITIES                                 |            |
|--------------------------------------------|------------|
| Hydraulic Tank Capacity ltr (gallons (US)) | 12.5 (3.3) |
| Fuel Tank Capacity ltr (gallons (US))      | 5 (1.32)   |
| Water Tank Capacity ltr (gallons (US))     | 27 (7.13)  |

| EMISSIONS                                |                                     |
|------------------------------------------|-------------------------------------|
| Noise (dB) - LwA (2000/14/EC / ISO 4871) | 92dB                                |
| Engine Emissions                         | EU Stage V / U.S. EPA Tier 4 Final* |
| Hand Arm Vibration (HAV) - (EN500-4)     | 3.6m/s²                             |

| EXCITER |                 |
|---------|-----------------|
| Type    | Single Shaft    |
| Drive   | Hydraulic Motor |

| WATER SPRAY SYSTEM |                                          |
|--------------------|------------------------------------------|
| System Type        | Gravity Fed with Non-Corrosive Spray Bar |

| DRUM SCRAPER BARS |                                        |
|-------------------|----------------------------------------|
| System Type       | Heavy Duty Adjustable - Front and Rear |

## STANDARD EQUIPMENT

|                                    |
|------------------------------------|
| Gravity Fed Water System           |
| Drum Scraper Bars Front and Rear   |
| Low Maintenance Battery (12V)      |
| Emergency Release Free Wheel Valve |
| Heavy Duty Central Lifting Point   |
| Battery Isolator                   |
| Emergency Stop                     |
| Front Prop Stand                   |
| Rear Jockey Wheel                  |
| Electric Starting                  |
| Hour Meter                         |
| 30L/min Hydraulic Take-off Valve   |

## OPTIONAL EQUIPMENT

|                                                                                                              |
|--------------------------------------------------------------------------------------------------------------|
| Stanley BR50 Vibro-Damped Hydraulic Breaker with Tools, Valve and Hosing (light use only)                    |
| Stanley BR67 Vibro-Damped Hydraulic Breaker with Tools, Valve and Hosing (must be carried on towing vehicle) |
| 'Towit' Tow-Behind Trailer with Storage Box, Prop-Stand, Number Plate Lighting and Road Lighting             |
| 'Towit' Tow-Behind Trailer, Longer Break-away Tether Cable with Clip on Hook                                 |

**Standard and optional equipment may vary.  
Consult your Mecalac dealer for details.**

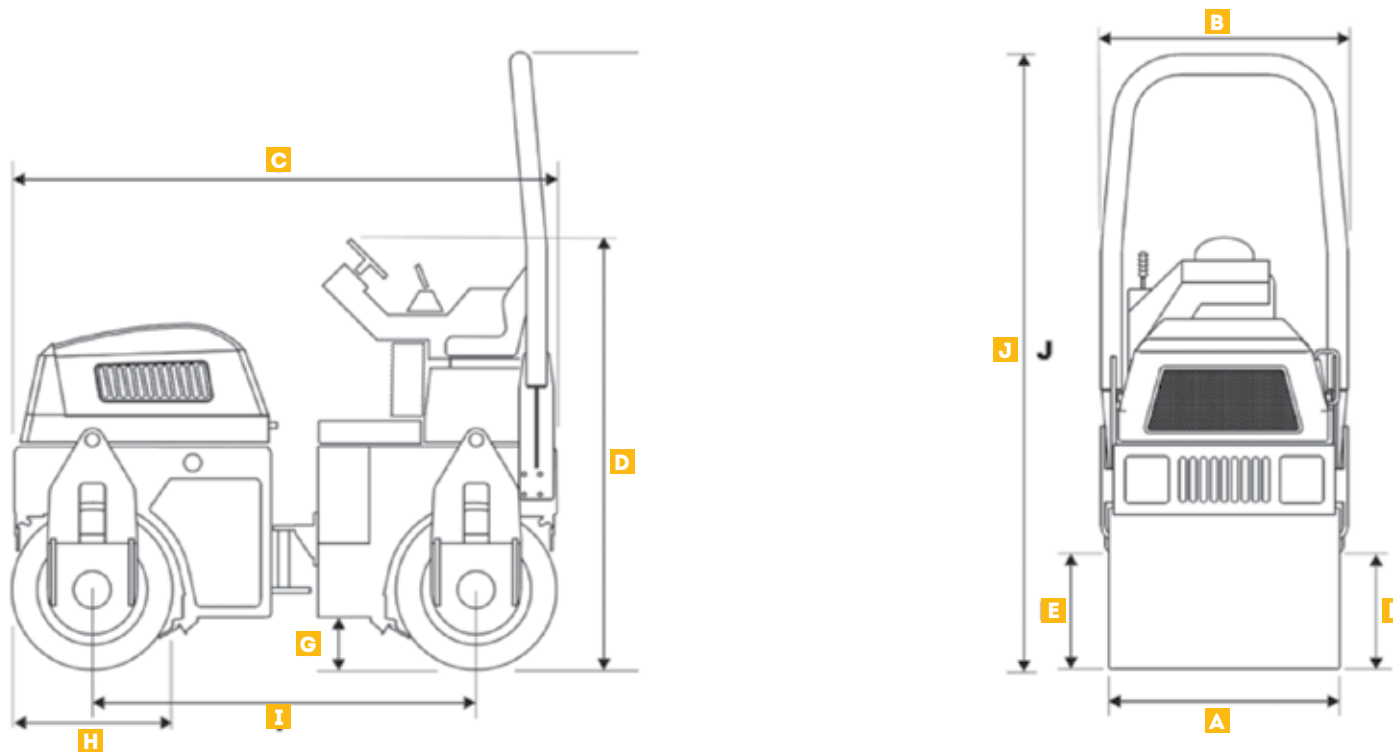
\*Depending on your Local Legislation - Environmental Protection Agency (EPA)

### NOTE

METRIC MEASUREMENTS ARE THE CRITICAL VALUES

- 1 Litre = 0.26417 US Liquid Gallons
- 1 Litre = 0.21997 Imperial Liquid Gallons

# ➔ TECHNICAL DATA COMPACT TANDEM ROLLERS



| DIMENSIONS mm (ft in)                                       | TV800             | TV900             | TV1000            | TV1200            |
|-------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|
| <b>A</b> Drum Width                                         | 800 (2'7")        | 900 (2'11")       | 1000 (3'3")       | 1200 (3'11")      |
| <b>B</b> Overall Width                                      | 870 (2'10")       | 970 (3'2")        | 1070 (3'6")       | 1270 (4'2")       |
| <b>C</b> Overall Length                                     | 1860 (6'1")       | 1860 (6'1")       | 2375 (7'10")      | 2375 (7'10")      |
| <b>D</b> Height to Top of Steering Wheel (Transport Height) | 1530 (5')         | 1530 (5')         | 1940 (6'4")       | 1940 (6'4")       |
| <b>E</b> Curb Clearance - Right                             | 420 (1'5")        | 420 (1'5")        | 555 (1'10")       | 555 (1'10")       |
| <b>F</b> Curb Clearance - Left                              | 390 (1'3")        | 390 (1'3")        | 490 (1'7")        | 490 (1'7")        |
| <b>G</b> Ground Clearance                                   | 200 (8")          | 200 (8")          | 230 (9")          | 230 (9")          |
| <b>H</b> Drum Diameter                                      | Ø550 (1'10")      | Ø550 (1'10")      | Ø700 (2'4")       | Ø700 (2'4")       |
| <b>I</b> Wheelbase                                          | 1260 (4'2")       | 1260 (4'2")       | 1675 (5'6")       | 1675 (5'6")       |
| <b>J</b> Height to Top of ROPS frame                        | 2400 (7'10")      | 2400 (7'10")      | 2650 (8'8")       | 2650 (8'8")       |
| Overhang - Left / Right                                     | 35/35 (1.3"/1.3") | 35/35 (1.3"/1.3") | 35/35 (1.3"/1.3") | 35/35 (1.3"/1.3") |

| PERFORMANCE                                | TV800                                                                 | TV900               | TV1000            | TV1200            |
|--------------------------------------------|-----------------------------------------------------------------------|---------------------|-------------------|-------------------|
| Total Static Basic Weight kg (lbs)         | 1446 (3188)                                                           | 1455 (3208)         | 2385 (5258)       | 2740 (6040.6)     |
| Operating Weight kg (lbs) CECE             | 1559 (3437)                                                           | 1568 (3457)         | 2570 (5665.8)     | 2925 (6448.5)     |
| Static Linear Load kg/cm (lb/inch)         | 9.7 (54.3)                                                            | 8.7 (48.7)          | 12.85 (71.9)      | 12.18 (68.2)      |
| Frequency - Hz (VPM)                       | 46/52 (2760/3120)                                                     |                     | 49/63 (2940/3780) |                   |
| Amplitude (mm)                             | 0.5                                                                   | 0.5                 | 0.5               | 0.6               |
| Centrifugal Force kN (lbf)                 | 10/12.5 (2248/2810)                                                   | 10/12.5 (2248/2810) | 18/29 (4046/6519) | 24/38 (5395/8542) |
| Gradeability - without Vibration           | 30%                                                                   | 30%                 | 30%               | 30%               |
| Gradeability - with Vibration              | 40%                                                                   | 40%                 | 40%               | 40%               |
| Drum Shell Thickness mm (ft in)            | 10 (0.3")                                                             | 10 (0.3")           | 10 (0.3")         | 10 (0.3")         |
| Drum Finish                                | Machine Chamfered Edges                                               |                     |                   |                   |
| Vibrating Drums                            | Front and Rear or Rear Only (selectable)                              |                     |                   |                   |
| ENGINE & DRIVE                             | TV800                                                                 | TV900               | TV1000            | TV1200            |
| Engine Make                                | Kubota                                                                | Kubota              | Kubota            | Kubota            |
| Engine Model                               | D1005                                                                 | D1005               | D1703-M           | D1703-M           |
| Cylinders                                  | 3                                                                     | 3                   | 3                 | 3                 |
| Displacement cc (in <sup>3</sup> )         | 1001 (61.08)                                                          | 1001 (61.08)        | 1647 (100.5)      | 1647 (100.5)      |
| Cooling                                    | Water                                                                 | Water               | Water             | Water             |
| Power - kW (HP)                            | 17.5 (23)                                                             | 17.5 (23)           | 18.5 (25)         | 18.5 (25)         |
| Operating Speed (rpm)                      | 2500/3000                                                             | 2500/3000           | 2300/2800         | 2300/2800         |
| Fuel Type                                  | Diesel                                                                | Diesel              | Diesel            | Diesel            |
| Engine Emissions                           | EU Stage V / U.S. EPA Tier 4 Final*                                   |                     |                   |                   |
| Drive (both drums)                         | Hydrostatic                                                           | Hydrostatic         | Hydrostatic       | Hydrostatic       |
| Travel Speed kph (mph)                     | 8 (4.9)                                                               | 8 (4.9)             | 8 (4.9)           | 10 (6.2)          |
| Braking System – Service                   | Dynamic Hydrostatic (via propulsion system)                           |                     |                   |                   |
| Braking System – Parking                   | Spring Apply / Hydraulic Release on both drums                        |                     |                   |                   |
| WATERING SYSTEM                            | TV800                                                                 | TV900               | TV1000            | TV1200            |
| Tank Capacity ltr (gallons (US))           | 86 (22.7)                                                             | 86 (22.7)           | 180 (47.5)        | 180 (47.5)        |
| Spray Modes                                | Gravity / Pressure                                                    |                     |                   |                   |
| ELECTRICAL SYSTEM                          | TV800                                                                 | TV900               | TV1000            | TV1200            |
| Battery (volts)                            | 12V DC                                                                | 12V DC              | 12V DC            | 12V DC            |
| Alternator (amp)                           | 30                                                                    | 30                  | 55                | 55                |
| LUBRICATION SYSTEM                         | TV800                                                                 | TV900               | TV1000            | TV1200            |
| Type                                       | Grease - open loop, parallel circuit with centralised greasing points |                     |                   |                   |
| EMISSIONS                                  | TV800                                                                 | TV900               | TV1000            | TV1200            |
| Engine                                     | EU Stage V / U.S. EPA Tier 4 Final*                                   |                     |                   |                   |
| Noise (dBA)                                | 106                                                                   | 106                 | 106               | 106               |
| CAPACITIES                                 | TV800                                                                 | TV900               | TV1000            | TV1200            |
| Hydraulic Tank Capacity ltr (gallons (US)) | 28 (7.4)                                                              | 28 (7.4)            | 44 (11.6)         | 44 (11.6)         |
| Fuel Tank Capacity ltr (gallons (US))      | 18 (4.7)                                                              | 18 (4.7)            | 44 (11.6)         | 44 (11.6)         |
| Water Tank Capacity ltr (gallons (US))     | 86 (22.7)                                                             | 86 (22.7)           | 180 (47.5)        | 180 (47.5)        |
| STEERING                                   | TV800                                                                 | TV900               | TV1000            | TV1200            |
| Steering Type                              | Centrepont Articulation - Double acting (via single hydraulic ram)    |                     |                   |                   |
| Inside Turn Radius mm (ft in)              | 1950 (6'5")                                                           | 1900 (6'3")         | 2625 (8'7")       | 2525 (8'3")       |
| Outside Turn Radius mm (ft in)             | 2820 (9'3")                                                           | 2870 (9'5")         | 3695 (12'1")      | 3795 (12'5")      |
| Frame Articulation (degrees)               | 30                                                                    | 30                  | 30                | 30                |
| Frame Oscillation (degrees)                | 8                                                                     | 8                   | 15                | 15                |

\*Depending on your Local Legislation - Environmental Protection Agency (EPA)

## STANDARD EQUIPMENT

|                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------|
| Fixed ROPS Frame                                                                                                         |
| Integral Lifting Points                                                                                                  |
| Amber Beacon                                                                                                             |
| Fuel and Hydraulic Oil Tanks Level Gauges (TV1000 to TV1200)                                                             |
| Vandal Protection Package - Lockable Instrument Cover to Deter Vandals / Thieves                                         |
| Site Lights (Dependent on Region)                                                                                        |
| Centralised Greasing Points for Easy Servicing                                                                           |
| Gravity Fed Water System (TV800 to TV1200H only)                                                                         |
| Vibration Insulated Operator's Station                                                                                   |
| Deluxe Operator's Seat with Lap Belt and Traction Cut-out Switch - Automatic Stop if Operator Stands Up During Operation |
| Drum Scraper Bars Front and Rear (both drums)                                                                            |
| Articulation Lock Bar                                                                                                    |
| Sliding Operator Seat (TV1200H only)                                                                                     |
| Removable Plastic Water and Oil Tanks for Easy Servicing                                                                 |
| Fault Finding Lights on Instrument Panel                                                                                 |
| Low Maintenance Battery                                                                                                  |
| Steering Knob                                                                                                            |
| Single Piece Tilting Engine Hood                                                                                         |
| 6 in 1 Control Lever                                                                                                     |
| Emergency Release Free Wheel Valve (for towing)                                                                          |
| Hour Meter                                                                                                               |

## OPTIONAL EQUIPMENT

|                                                                                 |
|---------------------------------------------------------------------------------|
| Folding ROPS Frame                                                              |
| Audible Reversing Alarm                                                         |
| Road Lights - UK Road Traffic Act Compliant (TV800 to TV1200H)                  |
| Sun Canopy (TV1000 to TV1200 only)                                              |
| Pressurised Water Spray (TV800 to TV1200H)                                      |
| Hydraulic Breaker Attachment, Tool, Valve and Hosing - 30L/min (TV800 to TV900) |

**Standard and optional equipment may vary.  
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### NOTE

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- 1 Litre = 0.26417 US Liquid Gallons
- 1 Litre = 0.21997 Imperial Liquid Gallons



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