

RD45-140o.3

Tandem roller

Powerful and versatile

The articulated RD45 is a powerful roller that offers balanced weight distribution on the front and rear drum which provides very even compaction results. It offers a high degree of driving stability and is easy to maneuver. Additionally, the excellent view compacted area and the large drum diameter contribute to first-class results. The ROPS roll-over protective structure, which can be folded away to the rear for transport, makes for a safer working environment.

Highlights

- Rear axle with oscillation drum
- Ergonomic work platform
- Uniform operating concept
- Large line-of-sight, compact construction

Technical Data

Mechanical - Output Details

Gradeability	30.0 %
Gradeability max. (without vibration)	40.0 %
Travel speed	0.0 - 11.0 km/h
Static linear load (front)	1.58 kg/mm
Compaction force Level I (front)	70 kN
Compaction force Level II (front)	42 kN
Compaction force I (rear)	90 kN
Compaction force II (rear)	62 kN
Vibration frequency Level I (front)	57.0 Hz
Vibration frequency Level II (front)	48.0 Hz
Amplitude Level I (front)	0.5100 mm
Amplitude Level II (front)	0.3100 mm
Centrifugal force Level I (front)	58 kN
Oscillation frequency Level I (rear)	38.0 Hz
Oscillation frequency Level II (rear)	29.0 Hz
Tangential amplitude Level II (rear)	1.4 mm
Oscillation force Level I (rear)	68.0 kN
Oscillation force Level II (rear)	40.0 kN

Mechanical Details

Length	2,896.0 mm
Width	1,506.0 mm
Height	1,820.0 mm
Operating weight	4,435.0 kg
Dry Weight	4,180.0 kg
Gross vehicular weight	4,870.0 kg
Curb clearance right	63.0 mm
Curb clearance left	63.0 mm
Operating width	1,380.0 mm
Ground clearance	305.0 mm
Turning radius inside	2,650.0 mm
Operating weight with roll-over protective structure	4,435.0 kg
Operating weight with cabin	4,685.0 kg
Wheelbase	1,950.0 mm
Operating weight, max.	5,640.00 kg
Curb clearance (left)	720.0 mm
Curb clearance (right)	720.0 mm
Total height with cabin	2,720.0 mm
Empty weight with cabin	4,435.0 kg
Empty weight with ROPS	4,180.0 kg
Turning radius outside	4,030.0 mm
Drum width (front)	1,380.0 mm
Drum width (rear)	1,380.0 mm
Drum diameter (front)	898.0 mm

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Drum diameter (rear)	898.0 mm
Drum thickness (front)	16.0 mm

Engine

Cylinder capacity	2,197.0 cm³
Effective power	34.6 kW
Nominal Engine speed	2,700.0 1/min
Standard (Effective power)	ISO 14396
Starter battery Voltage	12.0 V
Battery capacity (nom. value)	77.0 Ah
Engine Manufacturer	Kubota
Engine Designation	V2203

Environment Data

Sound level LpA	87.0 dB(A)
Sound power LWA, measured	102.0 dB(A)
Sound power LWA, guaranteed	106.0 dB(A)
Exhaust aftertreatment	no
Catalyst	no
Particle filter	no
CO (NRSC)	1.0 g/KWh
CO2 (NRSC)	791.0 g/KWh
HC + NOx (NRSC)	6.6 g/KWh
PM (NRSC)	0.4 g/KWh

Operating Fluids

Water tank capacity	260.0 l
Fuel Tank capacity	73.0 l

Chassis

Pendulum angle +/-	8.0 °

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