

RD27-120o

Tandem roller

Convenient and efficient

The RD27 is the compact and versatile for every construction site. With its three-point articulated pendulum joint, the roller achieves a consistently even weight distribution with optimum maneuverability and travel stability. As a result, excellent, high-quality asphalt surfaces can be achieved. The user benefits from intuitive operation as well as the comprehensive view of the compaction area. Because of its compact dimensions, the RD27 is an excellent choice for use in confined areas.

Highlights

- Rear axle with oscillation drum
- Ergonomic work platform
- Clearly arranged, intuitive operator panel
- Large line-of-sight, compact construction

Technical Data

Mechanical - Output Details

Gradeability	35.0 %
Gradeability max. (without vib	40.0 %
Travel speed	0.0 - 12.0 km/h
Static linear load (front)	1.11 kg/mm
Compaction force I (front)	54 kN
Compaction force II(front)	38 kN
Compaction force I (rear)	52 kN
Compaction force II(rear)	36 kN
Vibration frequency I (front)	65.0 Hz
Vibration frequency II (front)	51.0 Hz
Amplitude Level I (front)	0.4500 mm
Amplitude Level II (front)	0.4500 mm
Centrifugal force I (front)	49 kN
Oscillation frequency I(rear)	38.0 Hz
Oscillation frequency II(rear)	29.0 Hz
Tangential amplitude II (rear)	1.1 mm
Oscillation force I (rear)	39.0 kN
Oscillation force II (rear)	23.0 kN

Mechanical Details

Length	2,530.0 mm
Width	1,310.0 mm
Height	1,752.0 mm
Operating weight	2,755.0 kg
Dry Weight	2,570.0 kg
gross vehicular weight	2,870.0 kg
Curb clearance right	55.0 mm
Curb clearance left	55.0 mm
Operating width	1,200.0 mm
Ground clearance Middle	280.0 mm
Turning radius inside	2,370.0 mm
Operating weight with roll-ove	2,755.0 kg
Wheelbase	1,700.0 mm
Operating weight, max.	3,470.00 kg
Curb clearance (left)	570.0 mm
Curb clearance (right)	570.0 mm
Empty weight with ROPS	2,570.0 kg
Turning radius outside	3,570.0 mm
Drum width (front)	1,200.0 mm
Drum width (rear)	1,200.0 mm
Drum diameter (front)	720.0 mm
Drum diameter (rear)	720.0 mm
Drum thickness (front)	15.0 mm

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Engine

Cylinder capacity	1,499.0 cm³
Effective power	22.9 kW
Nominal Engine speed	2,700.0 1/min
Standard (Effective power)	ISO 14396
Starter battery Voltage	12.0 V
Battery capacity (nom. value)	70.0 Ah
Engine Manufacturer	Kubota
Engine Designation	D1503

Environment Data

Sound level LpA	90.0 dB(A)
Sound power LWA, measured	104.0 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)	797.0 g/KWh
HC + NOx (NRSC)	6.6 g/KWh
PM (NRSC)	0.4 g/KWh

Operating Fluids

Water tank capacity	180.0 l
Fuel Tank capacity	42.0 l

Chassis

Pendulum angle +/-	8.0 °

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