

RD18-100

Tandem roller

Compact and maneuverable

The RD18 is a compact and particularly maneuverable roller in the 1,8-t class. The 3-point articulated joint, combined with a large drum diameter, delivers even compaction performance and a high-quality asphalt surface. The user benefits from a comfortable work platform and intuitive operation. A feature of the RD18 is the one-sided drum lifting point with drums offset, which makes precise compaction possible very close to edges and walls on both sides.

Highlights

- Ergonomic work platform
- One-sided drum fastening with drum offset
- 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)	0.82 kg/mm
Linear load with vibration Level I (rear)	3.01 kg/mm
Linear load with vibration Level II (rear)	2.29 kg/mm
Compaction force Level I (front)	29 kN
Compaction force Level II (front)	22 kN
Compaction force I (rear)	29 kN
Compaction force II (rear)	22 kN
Vibration frequency Level I (front)	61.0 Hz
Vibration frequency Level II (front)	48.0 Hz
Vibration frequency Level I (rear)	61.0 Hz
Vibration frequency Level II (rear)	48.0 Hz
Amplitude Level I (front)	0.3800 mm
Amplitude Level II (front)	0.3800 mm
Amplitude Level II (rear)	0.3800 mm
Centrifugal force Level I (front)	17 kN
Centrifugal force Level I (rear)	17 kN

Mechanical Details

Length	2,295.0 mm
Width	1,056.0 mm
Operating weight	1,680.0 kg
Dry Weight	1,540.0 kg
Gross vehicular weight	1,720.0 kg
Operating width	1,056.0 mm
Ground clearance	230.0 mm
Turning radius inside	2,130.0 mm
Operating weight with roll-over protective structure	1,680.0 kg
Wheelbase	1,560.0 mm
Operating weight, max.	1,780.00 kg
Empty weight with ROPS	1,540.0 kg
Turning radius outside	3,165.0 mm
Drum width (front)	1,000.0 mm
Drum width (rear)	1,000.0 mm
Drum diameter (front)	620.0 mm
Drum diameter (rear)	620.0 mm
Drum thickness (front)	12.0 mm

Engine

Cylinder capacity	1,123.0 cm^3
Effective power	16.3 kW
Nominal Engine speed	2,600.0 1/min
Standard (Effective power)	ISO 14396

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Starter battery Voltage	12.0 V
Battery capacity (nom. value)	70.0 Ah
Engine Manufacturer	Kubota
Engine Designation	D1105-E4B

Environment Data

Sound level LpA	84.0 dB(A)
Sound power LWA, measured	103.0 dB(A)
Sound power LWA, guaranteed	104.0 dB(A)
Exhaust aftertreatment	no
Catalyst	no
Particle filter	no
CO2 (NRSC)	1,018.0 g/KWh

Operating Fluids

Water tank capacity	70.0 l
Fuel Tank capacity	33.0 l

Chassis

Pendulum angle +/-	8.0 °

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