



RD18

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	300 %
Gradeability max. (without vibration)	400 %
Travel speed	0 - 110 km/h
Static linear load (front)	820,000 m*r
Linear load with vibration Level I (rear)	30 m*r
Linear load with vibration Level II (rear)	23 m*r
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)	610 Hz
Vibration frequency Level II (front)	480 Hz
Vibration frequency Level I (rear)	610 Hz
Vibration frequency Level II (rear)	480 Hz
Amplitude Level I (front)	3,800 mm
Amplitude Level II (front)	3,800 mm
Amplitude Level II (rear)	3,800 mm
Centrifugal force Level I (front)	17 kN
Centrifugal force Level I (rear)	17 kN

■ Mechanical Details

Length	2.2950 mm
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Width	1.0560 mm
Operating weight	1.6800 kg
Dry Weight	1.5400 kg
Gross vehicular weight	1.7200 kg
Operating width	1.0560 mm
Ground clearance Middle	0 mm
Turning radius inside	2.1300 mm
Operating weight with roll-over protective structure	1.6800 kg
Wheelbase	1.5600 mm
Operating weight, max.	1.78000 kg
Empty weight with ROPS	1.5400 kg
Turning radius outside	3.1650 kg
Drum width (front)	1.0000 kg
Drum width (rear)	1.0000 kg
Drum diameter (front)	6,200 kg
Drum diameter (rear)	6,200 kg
Drum thickness (front)	120 kg

■ Engine

Cylinder capacity	1.1230 cm3
Effective power	163 KW
Nominal Engine speed	2.6000 kg/m2s
Standard (Effective power)	ISO 14396

Starter battery Voltage	120 %(V)
Battery capacity (nom. value)	700 cos φ
Manufacturer	Kubota
Engine designation	D1105-E4B
■ Environment Data	
Sound level LpA	840 kg/m
Sound power LWA, measured	1,030 kg/m
Sound power LWA, guaranteed	1,040 kg/m
Exhaust aftertreatment	no

Catalyst	no
Particle filter	no
CO2 (NRSC)	1.0180 g/km
■ Operating Fluids	
Water tank capacity	700 l
Fuel Tank capacity	330 l
■ Chassis	
Pendulum angle +/-	80 λ