



RD18-80.3

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 %	Width	856.0 mm
Gradeability max. (without vibration)	40.0 %	Operating weight	1,590.0 kg
Travel speed	0.0 - 11.0 km/h	Dry weight	1,450.0 kg
Static linear load (front)	0.96 kg/mm	Gross vehicular weight	1,630.0 kg
Linear load with vibration Level I (rear)	3.58 kg/mm	Operating width	856.0 mm
Linear load with vibration Level II (rear)	2.56 kg/mm	Ground clearance	230.0 mm
Compaction force Level I (front)	28 kN	Turning radius inside	2,230.0 mm
Compaction force Level II (front)	20 kN	Operating weight with roll-over protective structure	1,590.0 kg
Compaction force I (rear)	28 kN	Wheelbase	1,560.0 mm
Compaction force II (rear)	20 kN	Operating weight, max.	1,690.00 kg
Vibration frequency Level I (front)	61.0 Hz	Empty weight with ROPS	1,450.0 kg
Vibration frequency Level II (front)	48.0 Hz	Turning radius outside	3,065.0 mm
Vibration frequency Level I (rear)	61.0 Hz	Drum width (front)	800.0 mm
Vibration frequency Level II (rear)	48.0 Hz	Drum width (rear)	800.0 mm
Amplitude Level I (front)	0.4300 mm	Drum diameter (front)	620.0 mm
Amplitude Level II (front)	0.4300 mm	Drum diameter (rear)	620.0 mm
Amplitude Level II (rear)	0.4300 mm	Drum thickness (front)	12.0 mm
Centrifugal force Level I (front)	17 kN	■ Engine	
Centrifugal force Level I (rear)	17 kN	Cylinder capacity	1,123.0 cm ³
■ Mechanical Details		Effective power	16.3 KW
Length	2,295.0 mm	Nominal Engine speed	2,600.0 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	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 °