



RD18-80

Tandem roller

Compact and maneuverable

The RD18 is a compact and particularly maneuverable roller in the 1.98 tn.sh. 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 - 6.8 m/H
Static linear load (front)	53.93 lb/in
Static linear load (rear)	57.87 lb/in
Linear load with vibration Level I (front)	196.63 lb/in
Linear load with vibration Level II (front)	139.89 lb/in
Linear load with vibration Level II (rear)	143.82 lb/in
Compaction force Level I (front)	6,295 lbf
Compaction force Level II (front)	4,496 lbf
Compaction force II (rear)	4,496 lbf
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)	0.0169 "
Amplitude Level II (front)	0.0169 "
Amplitude Level I (rear)	0.0169 "
Amplitude Level II (rear)	0.0169 "
Centrifugal force Level I (front)	3,822 lbf
Centrifugal force Level II (front)	2,473 lbf

Centrifugal force Level I (rear) 3,822 lbf

Centrifugal force Level II (rear) 2,473 lbf

■ Mechanical Details

Length	90.4 "
Width	33.7 "
Operating weight	3,505.4 lb
Dry Weight	3,196.7 lb
Gross vehicular weight	3,593.5 lb
Operating width	33.7 "
Turning radius inside	87.8 "
Operating weight with roll-over protective structure	3,505.4 lb
Wheelbase	61.4 "
Operating weight, max.	3,725.82 lb
Total height with ROPS	87.0 "
Empty weight with ROPS	3,196.7 lb
Turning radius outside	120.7 "
Drum width (front)	31.5 "
Drum width (rear)	31.5 "
Drum diameter (front)	24.4 "
Drum diameter (rear)	24.4 "
Drum thickness (front)	0.5 "
Drum thickness (rear)	0.5 "

■ Engine

Cylinder capacity	68.5 Inch3
Effective power	21.9 hp
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)
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Sound power LWA, measured	103.0 dB(A)
Sound power LWA, guaranteed	104.0 dB(A)
Exhaust aftertreatment	no
Catalyst	no
Particle filter	no

■ Operating Fluids

Water tank capacity	18.5 gal US
Fuel Tank capacity	8.7 gal US

■ Chassis

Pendulum angle +/-	8.0 °
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