

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 in
Amplitude Level II (front)	0.0169 in
Amplitude Level I (rear)	0.0169 in
Amplitude Level II (rear)	0.0169 in
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 in
Width	33.7 in
Operating weight	3,505.4 lb
Dry Weight	3,196.7 lb
Gross vehicular weight	3,593.5 lb
Operating width	33.7 in
Turning radius inside	87.8 in
Operating weight with roll-over protective structure	3,505.4 lb
Wheelbase	61.4 in
Operating weight, max.	3,725.82 lb
Total height with ROPS	87.0 in
Empty weight with ROPS	3,196.7 lb
Turning radius outside	120.7 in
Drum width (front)	31.5 in
Drum width (rear)	31.5 in
Drum diameter (front)	24.4 in
Drum diameter (rear)	24.4 in
Drum thickness (front)	0.5 in

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Drum thickness (rear)	0.5 in

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)
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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