



RD18-80

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 | Catalyst | no |
| Battery capacity (nom. value) | 70.0 Ah | Particle filter | no |
| Engine Manufacturer | Kubota | CO2 (NRSC) | 1,018.0 g/KWh |
| Engine Designation | D1105-E4B | ■ Operating Fluids | |
| ■ Environment Data | | | |
| Sound level LpA | 84.0 dB(A) | Water tank capacity | 70.0 l |
| Sound power LWA, measured | 103.0 dB(A) | Fuel Tank capacity | 33.0 l |
| Sound power LWA, guaranteed | 104.0 dB(A) | ■ Chassis | |
| Exhaust aftertreatment | no | Pendulum angle +/- | 8.0 ° |