



RD45-140o

Tandem roller

Powerful and versatile

The articulated RD45 is a powerful roller that offers balanced weight distribution on the front and rear drum which provides very even compaction results. It offers a high degree of driving stability and is easy to maneuver. Additionally, the excellent view compacted area and the large drum diameter contribute to first-class results. The ROPS roll-over protective structure, which can be folded away to the rear for transport, makes for a safer working environment.

Highlights

- Rear axle with oscillation drum
- Ergonomic work platform
- Uniform operating concept
- Large line-of-sight, compact construction

Technical Data

■ Mechanical - Output Details

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|---------------------------------------|-----------------|
| Gradeability | 30.0 % |
| Gradeability max. (without vibration) | 40.0 % |
| Travel speed | 0.0 - 11.0 km/h |
| Static linear load (front) | 1.63 kg/m |
| Compaction force Level I (front) | 71 kN |
| Compaction force Level II (front) | 43 kN |
| Compaction force I (rear) | 90 kN |
| Compaction force II (rear) | 62 kN |
| Vibration frequency Level I (front) | 57.0 Hz |
| Vibration frequency Level II (front) | 48.0 Hz |
| Amplitude Level I (front) | 0.5100 mlai |
| Amplitude Level II (front) | 0.3100 mlai |
| Centrifugal force Level I (front) | 58 kN |
| Oscillation frequency Level I (rear) | 38.0 Hz |
| Oscillation frequency Level II (rear) | 29.0 Hz |
| Tangential amplitude Level II (rear) | 1.4 mlai |
| Oscillation force Level I (rear) | 68.0 kN |
| Oscillation force Level II (rear) | 40.0 kN |

■ Mechanical Details

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| Length | 2,896.0 mlai |
| Width | 1,506.0 mlai |

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| Height | 1,820.0 mlai |
| Operating weight | 4,535.0 kg |
| Dry Weight | 4,280.0 kg |
| Gross vehicular weight | 4,710.0 kg |
| Curb clearance right | 63.0 mlai |
| Curb clearance left | 63.0 mlai |
| Operating width | 1,380.0 mlai |
| Ground clearance Middle | 305.0 mlai |
| Turning radius inside | 2,650.0 mlai |
| Operating weight with roll-over protective structure | 4,535.0 kg |
| Operating weight with cabin | 4,785.0 kg |
| Wheelbase | 1,950.0 mlai |
| Operating weight, max. | 5,730.00 kg |
| Curb clearance (left) | 720.0 mlai |
| Curb clearance (right) | 720.0 mlai |
| Total height with cabin | 2,720.0 mlai |
| Empty weight with cabin | 4,540.0 kg |
| Empty weight with ROPS | 4,280.0 kg |
| Turning radius outside | 4,030.0 mlai |
| Drum width (front) | 1,380.0 mlai |
| Drum width (rear) | 1,380.0 mlai |
| Drum diameter (front) | 898.0 mlai |

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| Drum diameter (rear) | 898.0 mlai |
| Drum thickness (front) | 16.0 mlai |
| ■ Engine | |
| Cylinder capacity | 2,434.0 cm3 |
| Effective power | 37.4 KW |
| Nominal Engine speed | 2,700.0 PL |
| Standard (Effective power) | ISO 14396 |
| Starter battery Voltage | 12.0 µg/l |
| Battery capacity (nom. value) | 95.0 yd3 |
| Engine Manufacturer | Kubota |
| Engine Designation | V2403-CR |
| ■ Environment Data | |
| Sound level LpA | 88.0 m NN |
| Sound power LWA, measured | 102.0 m NN |

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|-----------------------------|--------------|
| Sound power LWA, guaranteed | 106.0 m NN |
| Exhaust aftertreatment | DOC-DPF |
| Catalyst | yes |
| Particle filter | yes |
| CO (NRTC) | 0.1 000014 |
| CO2 (NRTC) | 834.6 000014 |
| HC + NOx (NRTC) | 3.0 000014 |
| PM (NRTC) | 0.0 000014 |
| ■ Operating Fluids | |
| Water tank capacity | 260.0 l |
| Fuel Tank capacity | 73.0 l |
| ■ Chassis | |
| Pendulum angle +/- | 8.0 cos φ |