


# RD45-140o DPF

## 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

| | |
|---|---|
| Gradeability | 30.0 % |
| Gradeability max. (without vibration) | 40.0 % |
| Travel speed | 0.0 - 6.8 m/H |
| Static linear load (front) | 91.57 lb/in |
| Static linear load (rear) | 92.70 lb/in |
| Linear load with vibration Level I (front) | 353.93 lb/in |
| Linear load with vibration Level II (front) | 250.56 lb/in |
| Compaction force Level I (front) | 19,109 lbf |
| Compaction force Level II (front) | 13,489 lbf |
| Compaction force II (rear) | 14,613 lbf |
| Vibration frequency Level I (front) | 60.0 Hz |
| Vibration frequency Level II (front) | 51.0 Hz |
| Amplitude Level I (front) | 0.0201 in |
| Amplitude Level II (front) | 0.0122 in |
| Centrifugal force Level I (front) | 14,388 lbf |
| Centrifugal force Level II (front) | 8,768 lbf |
| Oscillation frequency Level I (rear) | 39.0 Hz |
| Oscillation frequency Level II (rear) | 30.0 Hz |
| Tangential amplitude Level I (rear) | 0.1 in |
| Tangential amplitude Level II (rear) | 0.1 in |
| Oscillation force Level I (rear) | 16,186.2 lbf |
| Oscillation force Level II (rear) | 9,666.8 lbf |

### Mechanical Details

| | |
|---|---|
| Length | 116.7 in |
| Width | 59.3 in |
| Height | 102.0 in |
| Operating weight | 9,998.0 lb |
| Dry Weight | 9,435.8 lb |
| Gross vehicular weight | 10,383.8 lb |
| Curb clearance right | 2.5 in |
| Curb clearance left | 2.5 in |
| Operating width | 54.3 in |
| Turning radius inside | 104.3 in |
| Operating weight with roll-over protective structure | 9,998.0 lb |
| Operating weight with cabin | 10,549.1 lb |
| Wheelbase | 76.8 in |
| Operating weight, max. | 12,632.50 lb |
| Curb clearance (left) | 28.3 in |
| Curb clearance (right) | 28.3 in |
| Total height with cabin | 107.1 in |
| Total height with ROPS | 102.0 in |
| Empty weight with cabin | 10,009.0 lb |

The illustrations, equipment and data shown may deviate from the current delivery program of your country. Optional equipment subject to additional charge may be shown. Subject to changes.


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| | |
|---|---|
| Empty weight with ROPS | 9,435.8 lb |
| Turning radius outside | 158.7 in |
| Drum width (front) | 54.3 in |
| Drum width (rear) | 54.3 in |
| Drum diameter (front) | 35.4 in |
| Drum diameter (rear) | 35.4 in |
| Drum thickness (front) | 0.6 in |
| Drum thickness (rear) | 0.6 in |

## Engine

| | |
|---|---|
| Cylinder capacity | 148.5 Inch3 |
| Effective power | 50.2 hp |
| Nominal Engine speed | 2,700.0 1/min |
| Standard (Effective power) | ISO 14396 |
| Starter battery Voltage | 12.0 V |
| Battery capacity (nom. value) | 95.0 Ah |
| Engine Manufacturer | Kubota |
| Engine Designation | V2403-CR |

## Environment Data

| | |
|---|---|
| Sound level LpA | 88.0 dB(A) |
| Sound power LWA, guaranteed | 104.0 dB(A) |
| Exhaust aftertreatment | DOC-DPF |
| Catalyst | yes |
| Particle filter | yes |
| CO (NRTC) | 0.1 g/KWh |
| CO2 (NRTC) | 834.6 g/KWh |
| HC + NOx (NRTC) | 3.0 g/KWh |
| PM (NRTC) | 0.0 g/KWh |

## Operating Fluids

| | |
|---|---|
| Water tank capacity | 75.3 gal US |
| Fuel Tank capacity | 19.3 gal US |

## Chassis

| | |
|---|---|
| Pendulum angle +/- | 8.0 ° |

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