



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 "
Amplitude Level II (front)	0.0122 "
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 "
Tangential amplitude Level II (rear)	0.1 "
Oscillation force Level I (rear)	16,186.2 lbf

Oscillation force Level II (rear) 9,666.8 lbf

■ Mechanical Details

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

Turning radius outside	158.7 "
Drum width (front)	54.3 "
Drum width (rear)	54.3 "
Drum diameter (front)	35.4 "
Drum diameter (rear)	35.4 "
Drum thickness (front)	0.6 "
Drum thickness (rear)	0.6 "

■ 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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