

RD45-140 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

- 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)	88.76 lb/in
Linear load with vibration Level I (front)	353.93 lb/in
Linear load with vibration Level II (front)	250.56 lb/in
Linear load with vibration Level II (rear)	250.00 lb/in
Compaction force Level I (front)	19,109 lbf
Compaction force Level II (front)	13,489 lbf
Compaction force II (rear)	13,489 lbf
Vibration frequency Level I (front)	60.0 Hz
Vibration frequency Level II (front)	51.0 Hz
Vibration frequency Level I (rear)	60.0 Hz
Vibration frequency Level II (rear)	51.0 Hz
Amplitude Level I (front)	0.0201 in
Amplitude Level II (front)	0.0122 in
Amplitude Level I (rear)	0.0201 in
Amplitude Level II (rear)	0.0122 in
Centrifugal force Level I (front)	14,388 lbf
Centrifugal force Level II (front)	8,768 lbf
Centrifugal force Level I (rear)	14,388 lbf
Centrifugal force Level II (rear)	8,768 lbf

Mechanical Details

Length	116.7 in
Width	59.3 in
Height	102.0 in
Operating weight	9,777.5 lb
Dry Weight	9,215.3 lb
Gross vehicular weight	10,163.3 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	9,777.5 lb
Operating weight with cabin	10,328.7 lb
Wheelbase	76.8 in
Operating weight, max.	12,412.04 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	9,788.5 lb
Empty weight with ROPS	9,215.3 lb

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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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