

R2-1 Series

3-Wheel Roller

Born of a new age technology, engineered for the new age demands.

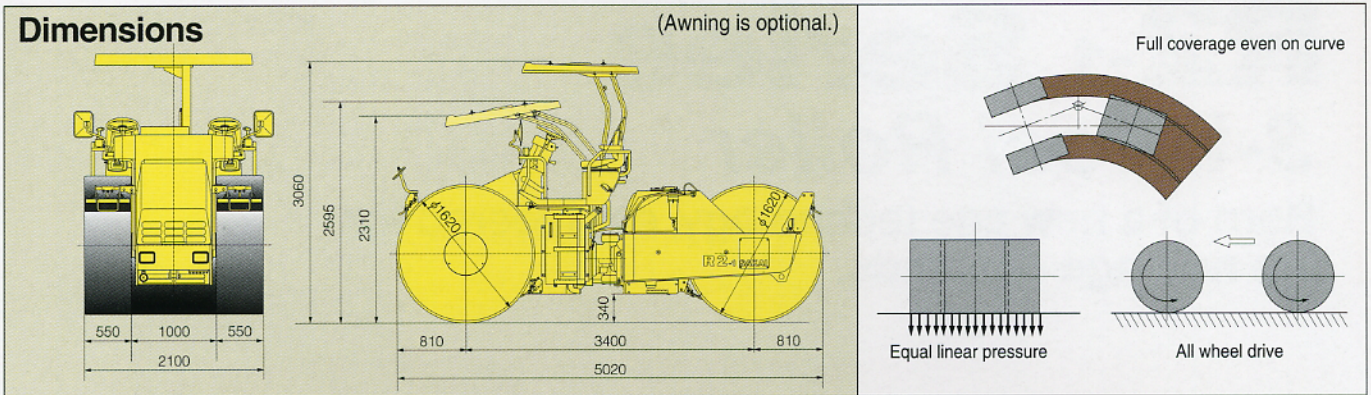


R2-1: Gross weights 12 ton (27,117 lbs)
R2H-1: Gross weights 14 ton (30,930 lbs)

These photos are shown with optional equipments mounted.

SAKAI®

SAKAI R2-1 3-Wheel Roller: No.1 in Static Load Compaction



Features

- SAKAI R2-1 Series (R2-1&R2H-1) are built to incorporate the features of both the 3-wheel roller and tandem roller. The R2-1 rollers are applicable to base work as well as asphalt pavement. They work especially well on jobs where vibratory rollers are not applicable, such as bridge overlay and compaction of roads built top of existing underground structures.
- The R2H-1 exerts high linear pressure and is the ideal roller for SUPERPAVE jobs, and is especially effective for increasing density below the tender zone temperature in which vibratory rollers are ineffective.
- 83° of full coverage even on curve thanks to its center-articulated design.
- Equal linear pressure on all three drums due to balanced weight distribution.
- Shoving and scuffing of the material is eliminated by the hydrostatic, all-wheel drive system and the uniformly large diameter drums, providing a smooth, even pavement surface.
- The operating weight is widely adjustable via the water ballast for easier handling.
- A corrosion free, pressurized sprinkler system provides efficient water spray over the drums. Furthermore the timer intermittent spray system prolongs the water refill interval.
- Operator friendly design:
 - Excellent noise protection
 - Rubber suspended operator platform
 - Dual seat with arm rests and a set of controls located on each side.
- Safety and Efficiency:
 - 1m x 1m visibility
 - Low profile design
 - Emergency pedal brake in addition to hydrostatic dynamic service brake and SAHR secondary brake.
 - Light, mirrors, horn and back-up brake alarm are standard equipment.
 - Easy-to-monitor instruments and gauges
- Many features for ease of daily maintenance and service:
 - Center-pin mechanism mounted with heavy-duty large ball bearing & taper bearings.
 - Remote drains for hydraulics and engine.
 - Full-open type engine hood permit easy access to engine and hydraulic systems from ground.

Specifications

		R2-1	R2H-1
WEIGHTS			
Gross	kg (lbs)	12,300 (27,117)	14,030 (30,930)
Load on front axle	kg (lbs)	5,990 (13,206)	6,820 (15,035)
Load on rear axle	kg (lbs)	6,310 (13,911)	7,210 (15,895)
Empty	kg (lbs)	9,300 (20,502)	10,150 (22,377)
Load on front axle	kg (lbs)	4,650 (10,251)	5,025 (11,078)
Load on rear axle	kg (lbs)	4,650 (10,251)	5,125 (11,299)
LINEAR STATIC PRESSURE			
Gross on front roll	kgf/cm (lb/in)	54.5 (305)	62.0 (347)
on rear roll	kgf/cm (lb/in)	57.4 (321)	65.5 (367)
Empty on front roll	kgf/cm (lb/in)	42.3 (237)	45.7 (256)
on rear roll	kgf/cm (lb/in)	42.3 (237)	46.6 (261)
DIMENSIONS			
Overall length	mm (in)	5,020 (198)	
Overall width	mm (in)	2,100 (83)	
Overall height			
without awning	mm (in)	2,310 (91)	
with awning	mm (in)	3,060 (120)	
Wheelbase	mm (in)	3,400 (134)	
Rolling width	mm (in)	2,100 (83)	
Min. Turning radius	mm (in)	6,300 (248)	
Ground clearance	mm (in)	340 (13.4)	
GRADABILITY	%	47 (25°)	31 (17°)
SPEEDS (Forward & Reverse)			
Low	km/h (mile/h)	0 ~ 8 (0 ~ 5)	
High	km/h (mile/h)	0 ~ 16 (0 ~ 9.9)	
ENGINE			
Model		HINO "W04D-H" Diesel Engine	
Type		Water - cooled, 4-cycle	
Displacement	L (cu.in)	4.009 (245)	
Rated output	KW (HP)/rpm	56 (75) / 2,050	
Battery		12V 70Ah x 2 pcs (24V)	
POWER LINE			
Transmission	Type	Hydrostatic transmission	
	Speed	2 speed shifts	
Final drive		Planetary gear	
BRAKE SYSTEM			
Service brake		Hydrostatic and mechanical, multi-wet disc type	
Parking brake		Mechanical, multi-wet disc type	
STEERING SYSTEM			
		Hydraulic type (Articulated type)	
ROLL			
Use	Front roll	Drive	
	Rear roll	Drive	
Dimensions	Front roll	550 x 1,620 (22 x 64) x 2 pieces	
width x dia	Rear roll	1,100 x 1,620 (43 x 64)	
WATER SPRINKLER SYSTEM			
		Water pressurized type	
FLUID CAPACITY			
Fuel tank	L (gal)	120 (32)	
Hydraulic oil tank	L (gal)	85 (22)	
Sprinkler tank	L (gal)	680 (180)	

* Specifications are subject to change without notice.

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