

VIBRATORY PNEUMATIC TIRE ROLLER GW1753



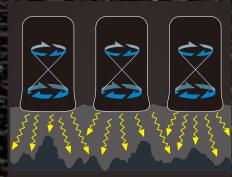






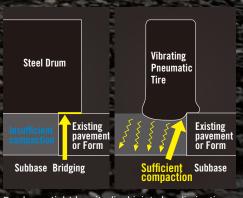
DYNAMIC KNEADING ACTION

- Four (4) amplitude settings to achieve the required density.
- High productivity on both large and small projects with the ability to maneuver in tight spaces on city streets, parking lots and cul-de-sacs.
- Density results achieved by the 9 ton GW753 are equal or higher than those of a 25 ton static tire roller.

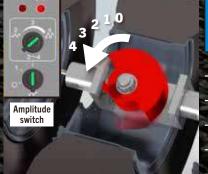


Creates bonding between new overlay pavement and old milled surface.

WORLD'S FIRST AND ONLY



Produces tight longitudinal joints by eliminating the bridging effect that normally occurs with steel drum rollers.



Schematic diagram of variable amplitude vibration.

Amplitude setting*	Amplitude	Centrifugal force	Equivalent compaction efforts to a static pneumatic tire roller	Applications and layer thickness
	mm	kN	ton	(Examples)
Static	0.0	0	= 9	Overlays and thin HMA layers, less than 5 cm
1	0.1	8	≥ 10	
2	0.3	25	≥ 15	
3	0.5	42	≥ 20	Binder and base course layers,
4	0.7	58	≥ 25	thicker than 5 cm

*The amplitude selected and number of roller passes should be reconfirmed by test section.



SAFETY

Upgraded to 180° rotating swivel seat

The operator's seat can be easily adjusted to 5 different degrees of rotation, comfort and excellent visibility of the drum's edge and rearward boosting its maneuverability.

SECURE STEPS

Additional 1 step to operator seat (3 steps in total)



*This production image is for illustration purposes only







GW750-2

W753



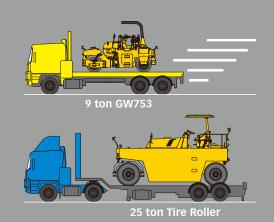
PERFORMANCE

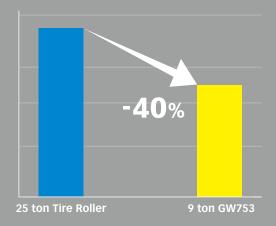
Saving in the trucking cost

Approximately 40% reduction of the trucking cost by using the GW753 compared with a 25 ton static tire roller.

Easier and faster to move to and from jobs due to lighter weight only 9 tons.

*Accumulated costs was used Japanese domestic data



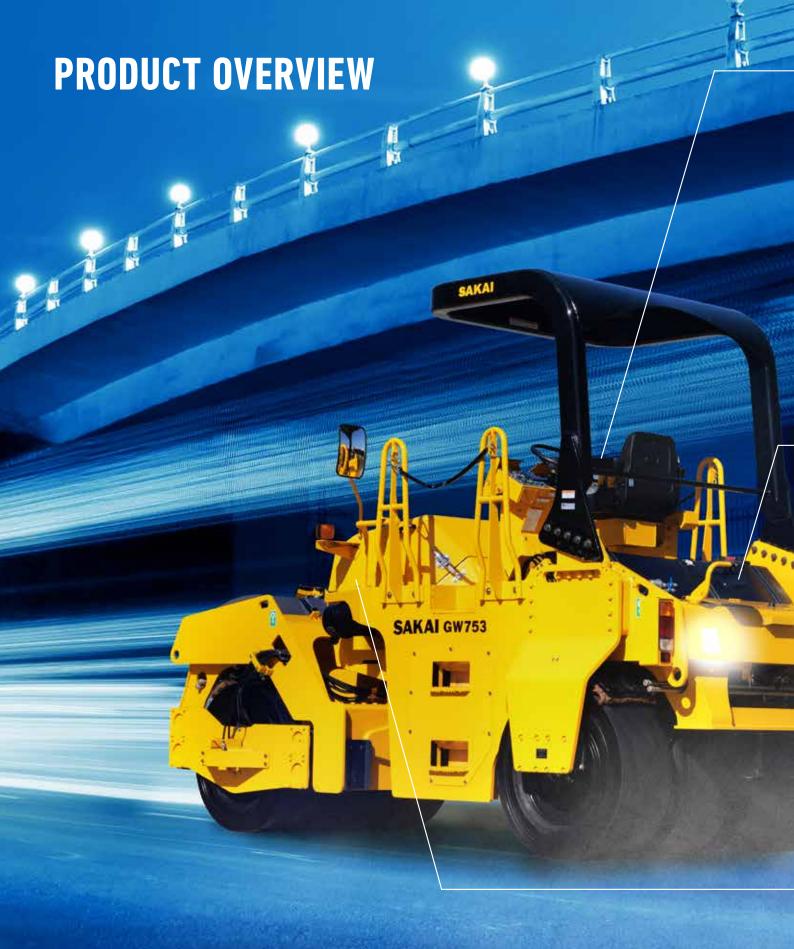


Center-pin articulated steering system

It ensures tire overlap when making turns (Up to 145 mm overlap between front and rear tires) and finishes HMA pavement smoothly.

The center-pin articulated steering system, enhanced maneuverability in tight spaces on city streets, in parking lots and along cul-de-sacs.





OPTION









Deluxe seat

AWNING Additional handrail

BRAKE SYSTEM

- Service brake (dynamic brake) by FNR lever
- Emergency brake by brake pedal
 *This brake is used only for EMERGENCY.
- Parking brake by panel button
- Auto-stop in case of failure engine and/or hyd. system







WATER SPRINKLER SYSTEM

- Plastic water tank (front-280L & rear-450L)
- Intermittent spray timer for the right timing
- Stainless spray bars
- Brass quick mount nozzle with filter



RELEASE AGENT SPRAY SYSTEM

- Plastic tank (Approx.20L)
- Stainless spray bars
- Brass quick mount nozzle with filter
- Spray adjusting valves



EASY ACCESS

• Side doors accessible from the ground

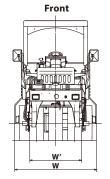


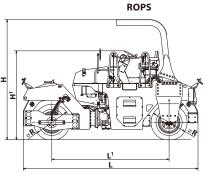
• Fully opened engine hood

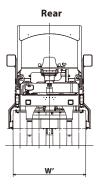


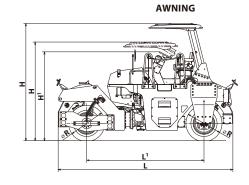


GW753









TYPE		Vibratory Pneumatic Tire Roller			
MODEL		GW753 with ROPS GW753 with AWNING 1GW5			
CHASSIS MODEL					
WEIGHTS	Max. operating weight	kg (lbs)	9,160 (20,195)	8,915 (19,655)	
	Operating weight	kg (lbs)	8,740 (19,270)	8,495 (18,730)	
	Load on front axle - operating weight	kg (lbs)	3,640 (8,025)	3,585 (7,905)	
	Load on rear axle - operating weight	kg (lbs)	5,100 (11,245)	4,910 (10,825)	
PERFORMANCE	Centrifugal force (Front 1/2/3/4)	kN (lbs) [kgf]	6 / 19 / 32 / 45 (1,350 / 4,270 / 7,195 / 10,115) [610 / 1,940 / 3,265 / 4,590]		
	Centrifugal force (Rear 1/2/3/4)	kN (lbs) [kgf]	8 / 25 / 42 / 58 (1,800 / 5,620 / 9,440 / 13,040) [815 / 2,550 / 4,280 / 5,915]		
	Frequency	Hz (vpm)	40 (2,400)		
	Amplitude (1/2/3/4)	mm (in)	0.10 / 0.31 / 0.53 / 0.74 (0.004 / 0.012 / 0.021 / 0.029)		
	Number of speed shifts				
	Speed range (L / H)		0 - 6 / 0 - 12 (0 - 3.7 / 0 - 7.5)		
	Gradeability	km/h (mph) % (°)	38 (20)	40 (21)	
	Turning radius compacted surface (inside / outside)	m (in)	3.8 / 5.7 (150 / 225)	
DIMENSIONS	Overall length L	mm (in)	4,695 (185)		
	Overall width W	mm (in)	2,200 (87)		
	Overall height (without ROOFS) H ¹	mm (in)	2,39	390 (94)	
	Overall height (with ROOFS) H	mm (in)	3,225 (127)	fold:2,650 (104) / unfold:3,150 (124)	
	Wheelbase L ¹	mm (in)	3,150	(124)	
	Compaction width W' (Front / Rear)	mm (in)	1,390 (55)	1,390 (55) / 1,950 (77)	
	Tire size x Number of tires (Front / Rear)		14/70-20-12PR x 3 / 14/70-20-12PR x 4		
	Inflation (each wheels)	kPa (psi)	441	441 (63.9)	
	Ground clearance	mm (in)	275 (10.8)		
	Curb clearance	mm (in)	244 (9.7)		
	Side clearance	mm (in)	125	125 (5)	
ENGINE	Make		KUBOTA		
	Model		V3800DICR-TIE3B-SH1		
	Туре		Diesel, water cooled, 4 cycle, 4 cylinder, with turbo charger		
	Displacement	L (cu.in)	3.769 (230.0)		
	Rated output	kW (HP)/min-1	80.8 (108) / 2,400		
	Electric system battery	V (V / Ah x Qty)	12 (12 / 72 x 2)		
	Electric system alternator	V/A	12 / 130		
DRIVE SYSTEM	Power transmission type		Hydrostatic		
	Drive wheel		All wheel		
VIBRATION SYSTEM	Power transmission type		Hydraulic		
	Number of amplitude		4		
	Vibrator type		Variable eccentric shaft		
BRAKE SYSTEM	Service brake		Dynamic brake through hydrostatic drive system / F-N-R lever		
	Secondary brake (Emergency brake)		Hydrostatic + Spring applied hydraulic	ally released type (SAHR) / Brake pedal	
	Parking brake		SAHR / Panel button		
STEERING SYSTEM	Power transmission type		Hydraulic		
	Articulation / Oscillation angle	± (°)	36.7 / 6.5		
FLUID CAPACITY		L (gal)	130 (34.3)		
	Hydraulic oil tank	L (gal)		23.8)	
	Water Sprinkler tank (Front / Rear)	L (gal)	280 (74) /	450 (118.9)	
	Liquid spray tank	L (gal)		(5)	

- Specified figures have a tolerance of ±5%.
 All specifications may be changed without notice.
 Specified figures are in SI Units, followed by their equivalent in English units of measurement in parentheses.
 The photos may contain optional equipment and/or attachment.

Standard Equipment:

- Instrument panel Gauges Backup alarm Horn Comfort seat
- Front-facing working lights Rear-facing working lights
- Turn signal lamp Hazard lamp Mirrors
- Pressurized water sprinkler system Intermittent water spray timer
- Release agent spray system
 Cocomat
 Accessory socket(12V)
- 4 points lifting Vandalism protections ECO Mode

Optional Equipment:

■ ROPS ■ AWNING ■ Additional handrail ■ Deluxe seat

ISO9001 certified Tokyo Head Office, Tokyo Factory, Global Service Division, Technical Development Division.

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