



New design features for pneumatic tired roller patented by Sakai
Static Pneumatic Tired Roller

Static pneumatic tire roller for the best finish and compaction in any paving jobs

Best compaction quality and efficiency

- Smooth finish by seven "Super-flat" tires.
- Two hydrostatic drive motors in the rear axle minimize any pushing or shoving of hot asphalt mix (HMA) mat.
- Pressurized water sprinkler and release agent spray systems are standard to minimize pickup of HMA on tires.

Operators comfort

- Most of tire surfaces and sprinkler nozzles are visible from the operator's station.
- Extra water pump to fill a separate water tank is standard, which is designed for moisture-conditioning subbase materials and filling water tanks on other rollers on the HMA mat.

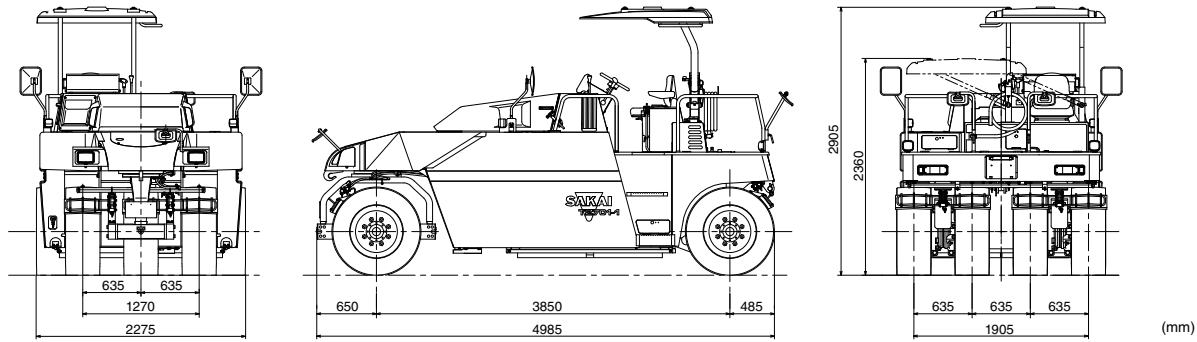
High safety standards

- Exceeds the 1 m × 1 m visibility safety standard.
- Emergency brake pedal is standard.

Easy Maintenance

- Rear wheels are powered by hydrostatic direct-drive motors.
- Water and release agent spray system with anti-clog package, i.e., a plastic water tank, triple-protection filtration, etc., and with perfect draining winterization.
- Patented quick-mount coco-mat.

TZ701-1



TYPE		Static Pneumatic Tired Roller	
MODEL		TZ701-1	
CHASSIS MODEL		1TZ1	
WEIGHTS	Operating weight (with AWNING)	kg (lb)	13,000 (28,665)
	Operating weight (with AWNING & METAL BALAST)	kg (lb)	15,000 (33,070)
	Empty weight (with AWNING)	kg (lb)	9,100 (20,065)
	Load on front axle (operating weight with AWNING & METAL BALAST)	kg (lb)	6,360 (14,020)
	Load on rear axle (operating weight with AWNING & METAL BALAST)	kg (lb)	8,640 (19,050)
PERFORMANCE	No. of speeds		2
	Speed range (Forward & Reverse) (L / H)	km / h (mph)	0 - 12 / 0 - 24 (0 - 7.5 / 0 - 14.9)
	Gradability	° (%)	42 (23)
	Min. turn radius (outer)	m (in)	6.3 (248)
DIMENSIONS	Overall length	mm (in)	4,985 (196)
	Overall width	mm (in)	2,275 (90)
	Overall height (with AWNING & METAL BALAST)	mm (in)	2,905 (114)
	Wheelbase	mm (in)	3,850 (152)
	Compaction width	mm (in)	2,275 (90)
	Tire size × Number of tires		front : 14 / 70 - 20 - 12PR (OR) × 3, rear : 14 / 70 - 20 - 12PR (OR) × 4
	Inflation (wheel)	kPa (psi)	Standard : 450 (65.3) / Available range : 240 - 600 (34.8 - 87.0)
	Ground clearance (with METAL BALAST / without METAL BALAST)	mm (in)	190 / 235 (7.5 / 9.5)
	Curb clearance	mm (in)	∞
	Side clearance	mm (in)	0
ENGINE	Make		ISUZU
	Model		4JJ1XDJA (Tier3)
	Type		Diesel, water - cooled, 4cycle, 4cylinder with turbo charger
	Displacement	L (cu.in)	2.999 (183)
	Rated output	kW (HP)/min ⁻¹	73.0 (98) / 2,000
	Electric system battery	V (V/Ah × Qty)	24 (12 / 80 × 2)
	Electric system alternator	V/A	24 / 50
	POWER LINE	Transmission	
Type			Hydraulic
Drive wheel			Rear wheel
BRAKE SYSTEM	Service (emergency)		Hydraulic, internal expanding type / Brake pedal
	Parking		Spring-applied hydraulically released type (SAHR) / Panel button
	Working (nominal)		Hydrostatic dynamic brake through drive system / F&R Lever
STEERING SYSTEM	Type		Hydraulic type
	Articulation / Oscillation (+/-)	°	43 / 5.0
FLUID CAPACITY	Fuel tank	L (gal)	91 (24.0)
	Hydraulic tank	L (gal)	78 (20.6)
	Sprinkler tank	L (gal)	3,900 (1,030)
	Liquid tank	L (gal)	19 (5.0)

- Operating Weight : 100% Fuel, 100% Water, no Operator.
- Specifications are subject change without notice.
- Above specified numbers could be deviated within ±5%.
- All units are SI units. Inside of () is for reference units.

- ※ Engine meets EPA Interim Tier3 standards.
- ※ Using low quality fuel may cause engine failure.



SAKAI HEAVY INDUSTRIES, LTD. obtain the certification of quality management system ISO9001.



SAKAI HEAVY INDUSTRIES, LTD.

HEAD OFFICE: 1-4-8, SHIBA DAIMON, MINATO-KU, TOKYO JAPAN

TELEPHONE: +81-3-3431-9971

FACSIMILE: +81-3-3436-6212

Standard Equipment :

- Instrument ● Gauges ● Coco mat ● Back up alarm
- Horn ● AWNING ● Sliding seat ● Head light
- Working light ● Turn signal lamp
- Mirrors ● Pressurized water sprinkler system
- Intermittent water spray timer ● Release agent spray system

Optional Equipment :

- Rotary lamp ● METAL BALAST (2t)