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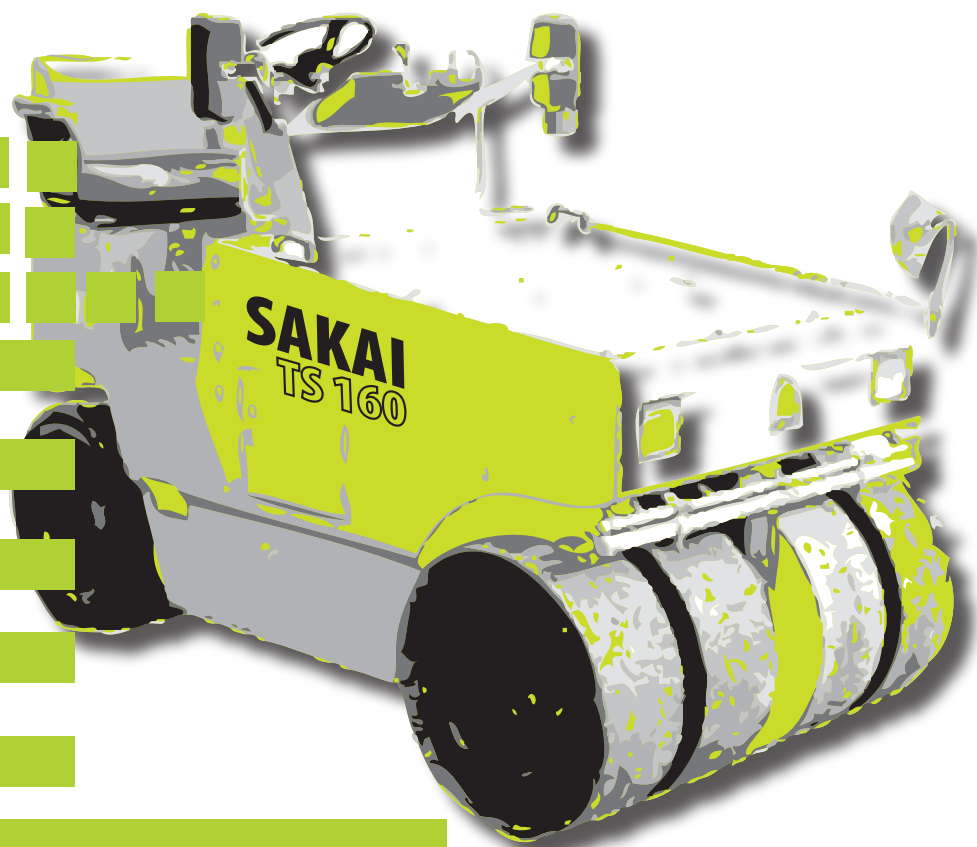
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# SPECIFICATIONS

MODELL & TYPE

SAKAI TS160

PNEUMATIC TIRED ROLLER



# SAKAI

# TS160

[www.ito-germany.de](http://www.ito-germany.de)

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ENGINE: KUBOTA D1105 - K3A

# SPECIFICATIONS

- 1. **MODEL & TYPE**
- 2. **MANUFACTURER**

**SAKAI TS160-2 PNEUMATIC TIRED ROLLER**  
**SAKAI HEAVY INDUSTRIES, LTD**

### 3. **MASS**

Gross	Approx.	2900 kg	( 6395 lbs)
Load on front axle	"	1700 kg	( 3750 lbs)
Load on rear axle	"	1200 kg	( 2645 lbs)
Empty	"	2715 kg	( 5985 lbs)
Load on front axle	"	1600 kg	( 3525 lbs)
Load on rear axle	"	1115 kg	( 2460 lbs)

### 4. **LOAD ON EACH TIRE**

Gross			
On front wheel	Approx.	425 kg	( 935 lbs)
On rear wheel	"	400 kg	( 880 lbs)
Empty			
On front wheel	"	400 kg	( 880 lbs)
On rear wheel	"	372 kg	( 820 lbs)

### 5. **DIMENSIONS**

Overall length	Approx.	2675 mm	( 105,,)
Overall width	"	1300 mm	( 51,,)
Overall height	"	1760 mm	( 69,,)
Wheelbase	"	1900 mm	( 75,,)
Rolling width	"	1300 mm	( 51,,)
Ground clearance	"	200 mm	( 7.9,,)

### 6. **SPEEDS (Forward & Reverse)**

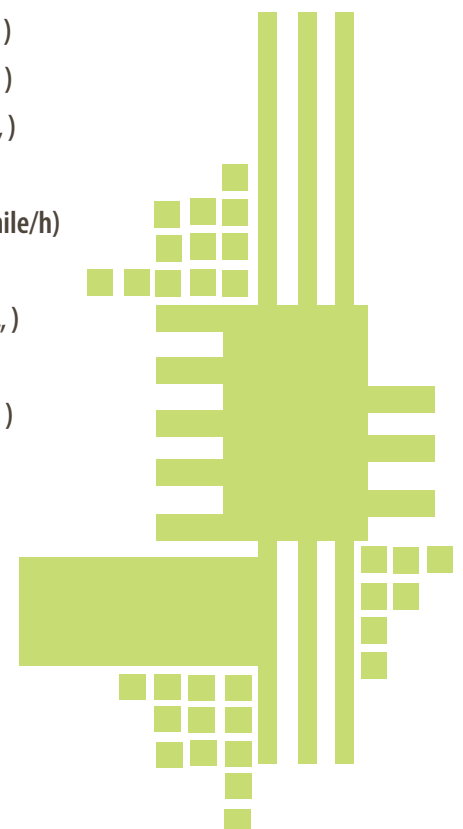
0 - 14 km/h ( 0 - 8.7 mile/h)

### 7. **MIN. TURNING RADIUS (outer)**

Approx. 3.9 m ( 154,,)

### 8. **GRADABILITY**

Approx. 47 % ( 25°)



# SPECIFICATIONS

## 9. ENGINE

Model	KUBOTA	D1105 - K3A	Diesel Engine
Type	Water - cooled, 4 - cycle, 3 - cylinder in - line, vertical mounted, overhead valve, swirl combustion chamber type		
Bore X Stroke	78.0 mm X	78.4 mm	( 3.071 „ X 3.087 „ )
Displacement	1.123 liters	( 68.5 cu.in)	
Performance	Rated speed	2300 min <sup>-1</sup>	
	Rated output	14.6 kW	( 19.6 HP)
	Max. torque	69.8 N • m	( 51.5 ft•lb)
		at	1600 min <sup>-1</sup>
Governor	Fly weight type		
Lubrication system	Pressure lubrication by gear pump		
Oil filter	Full - flow:paper		
Air cleaner	Dry type		
Cooling system	Centrifugal forced feeding system (pressure type)		
Cooling fan	Exhaling type		
Electrical system	Alternator	12 V	35 A
	Starter	12 V	1.4 kW
	Battery	12 V	80 Ah X

## 10. POWER LINE

Transmission	Typ	Hydrostatic transmission
	Speed	Stepless
Reverser	Switching the direction of flow delivered from the variable pump	
Final drive	Front	Spur gear

## 11. BRAKE SYSTEM

Service brake	Hydrostatic and mechanical , multi - wet disc type
Parking brake	Mechanical , multi - wet disc type

## 12. STEERING SYSTEM

Hydraulic type



# SPECIFICATIONS

## 13. WHEELS

Use	Front wheels	4 ,	Drive
	Rear wheels	3 ,	Gide
Suspension	Front	Rigid	
	Rear	Swing	
Oscillation	Front		0 mm
	Rear	±	55 mm ( ± 2.2,, )
Tire size		9.5/65-15-6PR(OR) , smooth tread	
Inflation	Available range		325 kPa ( 47.1 lb/sq.in)
Overlap		Approx.	83 mm ( 3.3,, )

## 14. WATER SPRINKLER SYSTEM

Pressurized type

## 15. LIQUID SPRAY SYSTEM

Pressurized type

## 16. FLUID CAPACITY

Cooling water	5.6 liters	( 1.5 gal)
Fuel tank	36 liters	( 9.5 gal)
Engine oil pan	4.1 liters	( 1.1 gal)
Reduction gear case	1.6 liters	( 0.4 gal)
Hydraulic oil tank	39 liters	( 10.3 gal)
Sprinkler tank	185 liters	( 49 gal)
Liquid tank	10 liters	( 2.6 gal)

## 17. OTHERS

Instruments & lights 1 set

Remarks: Above specified numbers will be deviated within ±5%.



