

TCM

 **Shovel Loader**
SD23/SD25



Shovel Loader

SD23 : 0.9 m³ / 2300 kg
SD25 : 1.0 m³ / 2500 kg



Clean and Powerful

Clean, Powerful, 3.8-liter Engine

The powerful yet clean engine with enhanced environmental friendliness provides improved load handling performance and better work efficiency.

► Meets Emissions Regulations (U.S. Tier 2 / EU Stage II)

CO	HC	NOx	PM
5.0	1.3	7.0	0.4

Limits imposed on exhaust emissions (g/kWh)



Rated output:

61.7 kW (83.9 PS) at 2100 rpm

Maximum torque:

320 N-m (32.6 kg-m) at 1500 rpm

► The rectangular-fin radiator is less prone to clog and is standard equipment



A large-capacity radiator and a separate oil cooler are installed for improved cooling efficiency.

TCM SD23 and 25 shovel loaders offer powerful traction and large engine output ensuring higher work efficiency. In addition, their high dump clearance and long dump reach allow easy load handling to meet various job requirements.

Superb Agility Enhances Productivity In Tough, Confined Workplaces

Ease of Operation

Easy-to-use levers and switches



Parking brake lever

Secure braking is easily obtained by tilting the lever.

Travel speed selection switch

Three gear shifting patterns are available to suit various job conditions.

		km/h	
		Shift-up	Shift-down
Normal mode		6	3
Gradient mode		Held in 1st gear	
Optional mode		8	5

Automatic Transmission And Electric Direction Control Lever



The automatic transmission allows the operator to start and accelerate the loader up to the maximum travel speed simply by stepping on the accelerator pedal.

The loader can start and accelerate smoothly without requiring complicated gear shifting, thus providing excellent maneuverability. The electric direction control lever allows the operator to reverse the direction of travel with ease.

Ease of Maintenance Is Designed In



The loaders have been designed for easy daily checks and inspection of the components, including the engine.

Clean and Readable Instrument Panel

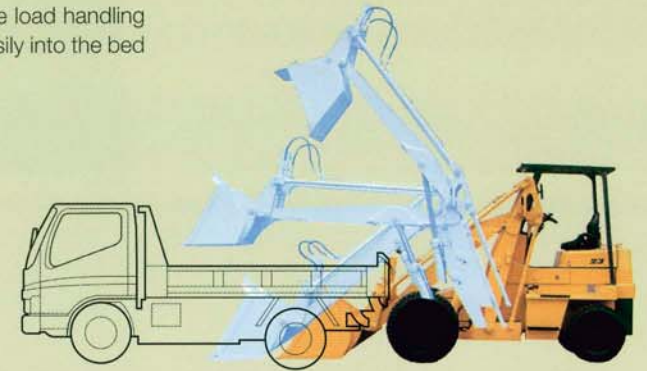


The instrument panel is easy to see and simple to understand.

Excellent Operating Performance

Its high dump clearance, along with a long dump reach, helps ease load handling for higher job efficiency and it allows the operator to dump loads easily into the bed of a 10-ton dump truck, as well as into a hopper.

Dumping clearance: **2920 mm**
 Dumping reach: **1260 mm**
 Maximum reach: **2965 mm**
 (SD25)



Safety

Excellent Visibility



Front visibility is wide and clear because the loader has an uncluttered loading mechanism design.

Boom Lever Lock



The boom lever lock prevents the booms from falling unexpectedly.

Hood Stopper

The hood is locked automatically when fully opened.

Two Large Steps



Two large steps are provided for easier and safer on and off motions.

Safety Operator's Seat



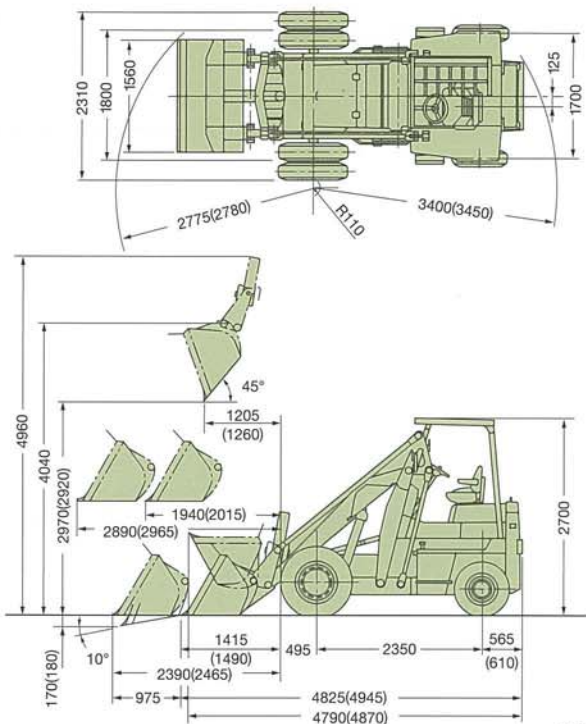
- Latching seat belt
- Reclining backrest
- Rear document pocket
- Side supports

Neutral Safety Mechanism

The neutral-start safety system prevents the engine from being started unless the direction control lever is in neutral. This prevents the truck from moving abruptly when the starter switch is turned on.

Double-action Parking Brake Lever

The double-action parking brake lever cannot be released unless the release button is depressed. This helps prevent releasing the parking brake inadvertently.



Unit: mm
 ● The figures in parentheses are given for the SD25.

Standard specifications

		SD23T9EX	SD25T9EX
● Performance and Weight			
Bucket capacity (heaped)	m ³	0.9	1.0
Max. load	Booms retracted	2300	2500
	Booms extended	1500	1700
Raising time (loaded)	s	5.5	
Lowering time (unloaded)	s	6.2	
Bucket dumping time (unloaded)	s	2.0	
Travel speed (unloaded)	km/h	1st speed: 10; 2nd speed: 25	
Max. drawbar pull (loaded)	kN (kg)	47 (4800)	
Gradeability (loaded)		1/2.4	
Min. turning radius (at outermost part of loader)	mm	3400	3450
Dumping clearance (45° dump)	mm	2970	2920
Dumping reach (45° dump)	mm	1205	1260
Weight	kg	6130	6320
● Dimensions			
Overall length (bucket on the ground)	mm	4825	4945
Overall width (loader body)	mm	2310	
Overall height (overhead guard)	mm	2700	
● Engine			
Name	Kubota "V3800DI-T" Diesel engine		
Total displacement	ℓ	3.769	
Rated output	kW (PS)/rpm	61.7 (83.9)/2100	
● Others			
Drive system	Front wheel drive		
Front wheels	4x8.25-20-12PR (I)		
Rear wheels	7.50-16-8PR (I)		
Steering system	Rear wheel steering		

Shovel loader attachments (Select a suitable bucket according to your job requirements)

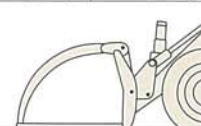
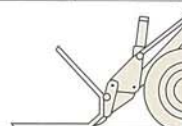
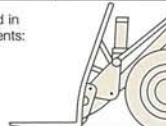
Bucket	Standard Type 1	Type 2	Type 3	Type 4	Type 1	Type 2	Type 3	Type 4	Type 1	Type 2	Type 3	Type 4	Type 1	Type 2	Type 3	Type 4	Type 1	Type 2	Type 3	Type 4		
Attachment model name	B1 090	B2 090	B3 090	B4 090	B1 100	B2 100	B3 100	B4 100	B1W100	B2W100	B3W100	B4W100	B1 130	B2 130	B3 130	B4 130	B1 070	B2 070	B3 070	B4 070		
Bucket capacity (heaped) (m ³)	0.9				1.0				1.0				1.3				0.7					
Max. load (kg)	SD23	Booms retracted	2300 (1700)				2250 (1650)				2250 (1600)				2200 (1550)				2300 (1750)			
		Booms extended	1500 (1000)				1450 (950)				1450 (900)				1400 (850)				1500 (1050)			
SD25	Booms retracted	2500 (1900)				2500 (1850)				2500 (1800)				2400 (1750)				2500 (1950)				
	Booms extended	1700 (1150)				1700 (1100)				1700 (1050)				1600 (1000)				1700 (1200)				
Dumping clearance (mm)	With standard booms	2970	2855	2870	2750	2920	2800	2815	2700	3075	2955	2970	2855	2970	2855	2870	2750	3075	2955	2970	2855	
	With high lift arms	3600	3485	3500	3380	3550	3430	3445	3330	3710	3590	3605	3490	3600	3485	3500	3380	3710	3590	3605	3490	
Dumping reach (mm)	With standard booms	1205	1325	1290	1405	1260	1375	1340	1460	1105	1220	1185	1305	1205	1325	1290	1405	1105	1220	1185	1305	
	With high lift arms	1170	1290	1255	1370	1225	1340	1305	1420	1070	1185	1150	1270	1170	1290	1255	1370	1070	1185	1150	1270	

● The figures in parentheses in the Max. load section are given for loaders with high lift arms.

Attachment model name	Hinged forks				Dumping forks				Logger				Other attachments:								
	HF212 (Standard)		HF252 (Wide view)		DF211		TL211		TL211		TL211										
Booms retracted/extended	Retracted	Extended	Retracted	Extended	Retracted	Extended	Retracted	Extended	Retracted	Extended	Retracted	Extended	<ul style="list-style-type: none"> ● Buckets ● High lift arms ● Super-high lift arms ● Steel cabin ● Smoke reduction muffler ● Heater ● Rear work light ● Double-element air filter ● "Unique" solid tire ● Fire extinguisher ● Quadruple tubing ● Cold-weather battery ● Bucket cylinder boot ● Right-side arrangement of transmission control lever ● Front fender ● Upright muffler ● PS cylinder boot ● Dust screen ● Strobe light ● Front windshield ● Operator's cabin with air conditioner ● OK monitor ● Ventilation control within cabin ● Wide-view hinged forks ● Low-noise specification ● Wet type brake 								
Max. lift (mm)	3290 (3920)	3580 (4225)	3310 (3935)	3600 (4240)	3200 (3830)	3490 (4135)	3290 (3920)	3580 (4225)	3290 (3920)	3580 (4225)	3290 (3920)	3580 (4225)									
Max. load (kg)	SD23	2300 (1750)	1150 (850)	2150 (1650)	1050 (800)	2200 (1600)	1000 (700)	1950 (1350)	750 (450)	2500 (1900)	1300 (950)	2350 (1800)		1200 (900)	2400 (1750)	1150 (850)	2150 (1500)	900 (550)			
	SD25	2500 (1900)	1300 (950)	2350 (1800)	1200 (900)	2400 (1750)	1150 (850)	2150 (1500)	900 (550)	2600 (2000)	1350 (1000)	2400 (1800)		1250 (950)	2500 (1900)	1200 (900)	2400 (1750)	900 (550)			
Dumping clearance (mm)	2630 (3255)	2920 (3565)	2600 (3225)	2890 (3535)	2030 (2655)	2320 (2965)	2185 (2815)	2475 (3120)	2630 (3255)	2920 (3565)	2600 (3225)	2890 (3535)		2030 (2655)	2320 (2965)	2185 (2815)	2475 (3120)	2630 (3255)	2920 (3565)	2600 (3225)	2890 (3535)
Dumping reach (mm)	645 (735)	1200 (1145)	780 (870)	1335 (1215)	1045 (1135)	1600 (1545)	1045 (1140)	1600 (1545)	645 (735)	1200 (1145)	780 (870)	1335 (1215)		1045 (1135)	1600 (1545)	1045 (1140)	1600 (1545)	645 (735)	1200 (1145)	780 (870)	1335 (1215)

The figures in parentheses are given for loaders with high lift arms.

The hinged fork attachment can be used in combination with the following attachments:
 ● Fork extension sleeves ● Long forks
 ● Wide carriage bar ● Scoop



- TCM retains the right to change these products and specifications without incurring any obligation relating to such changes.
- These products and specifications are subject to change without notice.
- Photos and illustrations may or may not include optional equipment and accessories.
- Features and specifications may vary depending on markets.
- Performance data and dimensions are nominal and subject to tolerances.



ISO 9001 Certification
(TCM Shiga Plant)

ISO 14001 Certification
(TCM Shiga Plant)

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