KOMATSU®

D39EXi-23
D39PXi-23

Tier 4 Interim Engine

D39i

NET HORSEPOWER
105 HP @ 2200rpm
78 kW @ 2200rpm

OPERATING WEIGHT
D39EXi-23 9490 kg **20,922 lb**
D39PXi-23 9910 kg **21,848 lb**

BLADE CAPACITY
2.50–2.78 yd³
1.91–2.13 m³

PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT

intelligent MACHINE CONTROL™

SPECIFICATIONS

ENGINE

Model ..... Komatsu SAA4D95LE-6*
Type ..... 4-cycle, water-cooled, direct injection
Aspiration ..... Variable flow turbocharged, air-to-air aftercooled
Number of cylinders 4
Bore x stroke ..... 95 mm x 115 mm **3.75" x 4.52"**
Piston displacement ..... 3.26 ltr **199 in³**
Governor ..... All-speed, electronic
Horsepower
SAE J1995 ..... Gross 79 kW **107 HP**
ISO 9249 / SAE J1349 ..... Net 78 kW **105 HP**
Rated rpm ..... 2200 rpm
Fan drive type ..... Hydraulic
Lubrication system
Method ..... Gear pump, forced lubrication
Filter ..... Full-flow

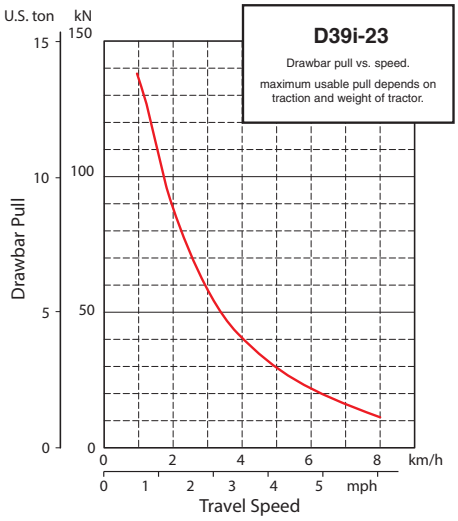
*EPA Tier 4 Interim and EU stage 3B emissions certified

HYDROSTATIC TRANSMISSION

Dual-path, hydrostatic transmission provides infinite speed changes up to 5.3 km/h **8.5 mph**. The variable capacity travel motors allow the operator to select the optimum speed to match specific jobs. Travel control lock lever and neutral switch.

Travel speed (quick shift mode)*	Forward	Reverse
1st	0-3.4 km/h **0-2.1 mph**	0-4.1 km/h **0-2.5 mph**
2nd	0-5.6 km/h **0-3.5 mph**	0-6.5 km/h **0-4.0 mph**
3rd	0-8.5 km/h **0-5.3 mph**	0-8.5 km/h **0-5.3 mph**
Travel speed (variable mode)	**Forward**	**Reverse**
	0-8.5 km/h **0-5.3 mph**	0-8.5 km/h **0-5.3 mph**

*Quick shift speeds are adjustable in the monitor.



FINAL DRIVES

In-shoe mounted axial piston type travel motors with integrated two-stage planetary gear reduction. Compact in-shoe mount reduces risk of damaged by debris. Bolt-on sprocket ring.

STEERING SYSTEM

Palm Command Control System (PCCS) joystick control for all directional movements. Pushing the joystick forward results in forward machine travel, while pulling it rearward reverses the machine. Simply tilt the joystick to the left or right to make a turn. Tilting the joystick fully to the left or right activates counter-rotation.

Hydrostatic Transmission (HST) provides smooth powerful turns. Fully electronic control enables smooth control that can be adjusted in the monitor. The PCCS utilizes shift buttons to increase and decrease speed.

Minimum turning radius*
D39EXi-23 ..... 2.2 m **87"**
D39PXi-23 ..... 2.4 m **94"**

*As measured by track marks on the ground at pivot turn.

UNDERCARRIAGE

Suspension ..... Rigid type
Track roller frame ..... Monocoque, large section, durable construction
Rollers and idlers ..... Lubricated track rollers

Sealed and lubricated track
Track tension is easily adjusted with grease gun.

		D39EXi-23	D39PXi-23 Narrow	D39PXi-23 Wide
Number of track rollers (each side)		6	6	6
Type of shoes (standard)		Single grouser	Single grouser	Single grouser
Number of shoes (each side)		39	39	39
Grouser height	mm **in**	53 **2.1"**	53 **2.1"**	53 **2.1"**
Shoe width (standard)	mm **in**	510 **20"**	635 **25"**	700 **27.5"**
Ground contact area	cm^2	24072	29970	32970
	in^2	**3,731**	**4,645**	**5,110**
Ground pressure (with dozer, ROPS cab)	kPa	38.9	32.6	30
	kgf/cm^2	0.40	0.33	0.31
	psi	**5.64**	**4.73**	**4.35**
Track gauge	mm **ft.in**	1620 **5'4"**	1810 **5'11"**	1810 **5'11"**
Length of track on ground	mm **ft.in**	2360 **7'9"**	2360 **7'9"**	2360 **7'9"**

SERVICE REFILL CAPACITIES

Coolant	34 ltr	**9.0 U.S. gal**
Fuel tank	190 ltr	**50.2 U.S. gal**
Engine oil	11 ltr	**2.9 U.S. gal**
Hydraulic tank	60 ltr	**15.8 U.S. gal**
Final drive (each side)	3.5 ltr	**0.9 U.S. gal**

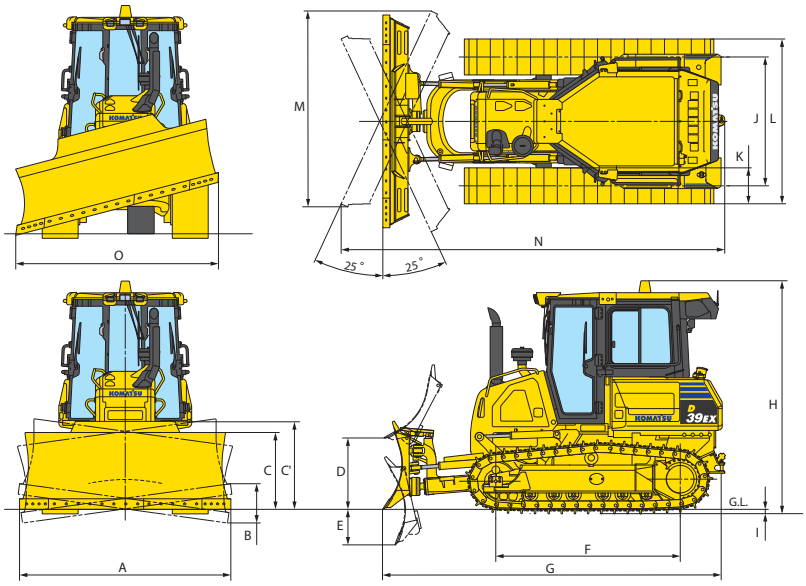
OPERATING WEIGHT (APPROXIMATE)

Tractor weight:
Including ROPS cab, U frame for power angle tilt dozer, rated capacity of lubricant, coolant, full fuel tank, operator, and standard equipment.
D39EXi-23 ..... 8340 kg **18,387 lb**
D39PXi-23 ..... 8690 kg **19,158 lb**

Operating weight:
Including Power Angle Tilt dozer, ROPS cab, operator, standard equipment, rated capacity of lubricant, hydraulic control unit, coolant, and full fuel tank.
D39EXi-23 ..... 9490 kg **20,922 lb**
D39PXi-23 ..... 9910 kg **21,848 lb**

DIMENSIONS

	D39EXi-23		D39PXi-23*		D39PXi-23**	
A	2710 mm	**8'11'**	2980 mm	**9'9'**	3250 mm	**10'8'**
B	365 mm	**14"**	405 mm	**16"**	440 mm	**17"**
C	980 mm	**39"**	920 mm	**36"**	980 mm	**38.5"**
C'	1075 mm	**3'6"**	1047 mm	**3'5"**	1075 mm	**3'6"**
D	910 mm	**3'0"**	920 mm	**3'0"**	920 mm	**3'0"**
E	450 mm	**1'6"**	440 mm	**1'6"**	440 mm	**1'6"**
F	2360 mm	**7'9'**	2360 mm	**7'9'**	2360 mm	**7'9'**
G	4385 mm	**14'5"**	4385 mm	**14'5"**	4385 mm	**14'5"**
H	3015 mm	**9'11"**	3015 mm	**9'11"**	3015 mm	**9'11"**
I	53 mm	**2"**	53 mm	**2"**	53 mm	**2"**
J	1620 mm	**5'4"**	1810 mm	**5'11"**	1810 mm	**5'11"**
K	460 mm	**1'6"**	635 mm	**2'1"**	700 mm	**2'3"**
L	2080 mm	**6'10"**	2445 mm	**8'0"**	2490 mm	**8'2"**
M	2495 mm	**8'2"**	2980 mm	**9'9"**	2990 mm	**9'10"**
N	4910 mm	**16'1"**	4957 mm	**16'3"**	5020 mm	**16'6"**
O	2475 mm	**8'1"**	2870 mm	**9'5"**	2940 mm	**9'8"**



Ground clearance ..... 380 mm **15"**

* Narrow blade, narrow shoe
** Wide blade, wide shoe

HYDRAULIC SYSTEM

Closed-center Load Sensing System (CLSS) designed for precise and responsive control, and for efficient simultaneous operation.

Hydraulic control unit:

All spool control valves externally mounted remote to the hydraulic tank. Piston-type hydraulic pump with capacity (discharge flow) of 99 ltr/min **26 U.S. gal/min** at rated engine rpm.

Relief valve setting ..... 27.4 MPa 280 kg/cm^2 **3,974 psi**
Hydraulic cylinders..... Double-acting, piston type

	Number of cylinders	Bore
Blade lift	2	75 mm **3.0"**
Blade tilt	1	90 mm **3.5"**
Blade angle	2	80 mm **3.1"**

Hydraulic oil capacity (refill):
Power angle tilt dozer ..... 60 ltr **15.9 U.S. gal**

Control valves:
3-spool control valve for Power Angle Tilt dozer
Positions:
Blade lift ..... Raise, hold, lower, and float
Blade tilt ..... Right, hold, and left
Blade angle ..... Right, hold, and left

Additional control valve required for ripper
Positions:
Ripper lift ..... Raise, hold, and lower

DOZER EQUIPMENT

Blade capacities are based on the SAE recommended practice J1265.
Use of high tensile strength steel in moldboard for strengthened blade construction.

	Overall Length With Dozer* mm ft.in	Blade Capacity m^3 yd^3	Blade Width x Height mm ft.in	Max. Lift Above Ground mm ft.in	Max. Drop Below Ground mm ft.in	Max. Tilt Adjustment mm ft.in	Blade Angle
D39EXi-23	4385	2.21	2710 x 980	910	440	365	25
Power Angle Tilt Dozer	**14'5"**	**2.89**	**8'11" x 3'3"**	**3'10"**	**1'6"**	**1'3"**	
D39PXi-23	4385	2.40	3250 x 910	910	440	440	25
Power Angle Tilt Dozer	**14'5"**	**3.14**	**10'8" x 3'0"**	**3'10"**	**1'6"**	**1'5"**	
D39PXi-23 PAT	4385	2.22	2980 x 910	910	440	405	25
Narrow Blade	**14'5"**	**2.90**	**9'9" x 3'0"**	**3'10"**	**1'6"**	**1'4"**	

*Including hitch

Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.