

KOMATSU®

D37EXi-23 D37PXi-23 Tier 4 Interim Engine

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NET HORSEPOWER

89 HP @ 2200rpm
66 kW @ 2200rpm

OPERATING WEIGHT

D37EXi-23 8560 kg 18,872 lb
D37PXi-23 8860 kg 19,533 lb

BLADE CAPACITY

2.50–2.78 yd³
1.91–2.13 m³



PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT

intelligent™
MACHINE CONTROL



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 68 kW **91 HP**
 ISO 9249 / SAE J1349..... Net 66 kW **89 HP**
 Rated rpm..... 2200 rpm
 Fan drive typeHydraulic
 Lubrication system
 Method..... Gear pump, forced lubrication
 Filter..... Full-flow
 *EPA Tier 4 Interim and EU stage 3B emissions certified



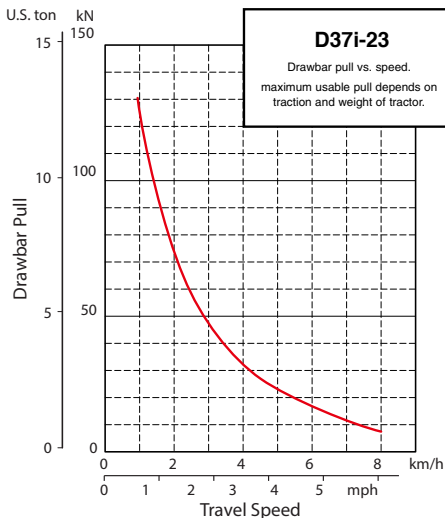
HYDROSTATIC TRANSMISSION

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*
 D37EXi-23..... 2.1 m **83"**
 D37PXi-23..... 2.3 m **91"**

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



UNDERCARRIAGE

Suspension..... Rigid type
 Track roller frameMonocoque, large section, durable construction
 Rollers and idlersLubricated track rollers
 Sealed and lubricated track
 Track tension is easily adjusted with grease gun.

Tractor for inside mounted blade (PAT)

	D37EXi-23	D37PXi-23
Number of track rollers (each side)	6	6
Number of carrier rollers (each side)	1	1
Type of shoes (standard)	Single grouser	Single grouser
Number of shoes (each side)	41	41
Grouser height	mm in 47 1.9"	47 1.9"
Shoe width (standard)	mm in 460 18"	600 24"
Ground contact area	cm²	20516
	in² 3,180	4,148
Ground pressure	kPa	40.9
(with standard shoe)	kgf/cm²	0.42
	psi 5.93	4.71
Track gauge	mm ft.in 1570 5'2"	1710 5'7"
Length of track on ground	mm ft.in 2230 7'4"	2230 7'4"
Link pitch	mm ft.in 154 6.1"	154 6.1"



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 64 ltr **16.9 U.S. gal**
 Final drive (each side)..... 3.5 ltr **0.9 U.S. gal**



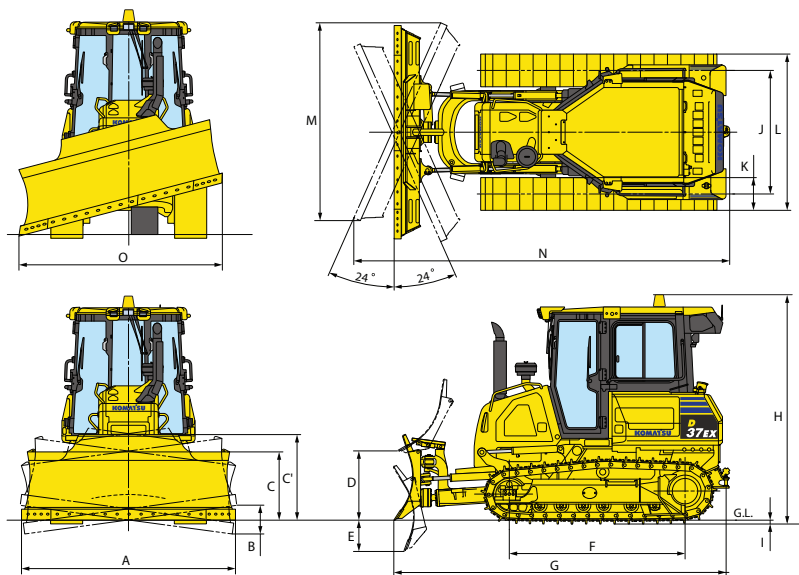
OPERATING WEIGHT (APPROXIMATE)

Tractor weight:
 Including ROPS cab, U frame for power angle tilt dozer, rated capacity of lubricant, coolant, full fuel tank, operator, and standard equipment.
 D37EXi-23 7480 kg **16,491 lb**
 D37PXi-23 7740 kg **17,064 lb**
 Operating weight:
 Including power angle tilt dozer, ROPS cab, operator, standard equipment, rated capacity of lubricant, coolant, and full fuel tank.
 D37EXi-23 8560 kg **18,872 lb**
 D37PXi-23 8860 kg **19,533 lb**



DIMENSIONS

	D37EXi-23	D37PXi-23
A	2710 mm 8'11"	3200 mm 10'6"
B	370 mm 15"	435 mm 17"
B*		390 mm 15"
C	865 mm 34"	835 mm 33"
C'	1075 mm 42"	1075 mm 42"
D	880 mm 35"	880 mm 35"
E	390 mm 15"	390 mm 15"
F	2230 mm 7'4"	2230 mm 7'4"
G	2945 mm 9'8"	2945 mm 9'8"
H	2775 mm 9'1"	2775 mm 9'1"
I	47 mm 2"	47 mm 2"
J	1570 mm 62"	1710 mm 67"
K	400 mm 16"	600 mm 24"
L	1970 mm 78"	2310 mm 91"
M	2510 mm 99"	2960 mm 117"
M*		2669 mm 105"
N	4780 mm 15'8"	4880 mm 16'0"
O	2480 mm 8'2"	2905 mm 9'6"



Ground clearance 325 mm **12.8"**

*Narrow blade for D37PXi-23



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/cm² **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"
Blade pitch	1 adjustable linkage	

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
D37EXi-23	4275	1.91	2710 x 865	880	380	370	24°
Power Angle Tilt Dozer	14'0"	2.50	8'11" x 2'10"	2'11"	1'3"	1'3"	
D37PXi-23	4275	1.95	2875 x 835	880	380	435	24°
Power Angle Tilt Dozer	14'0"	2.55	9'5" x 2'9"	2'11"	1'3"	1'5"	
D37PXi-23	4275	2.13	3200 x 835	880	380	390	24°
Power Angle Tilt Dozer	14'0"	2.78	10'6" x 2'9"	2'11"	1'3"	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.

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