

Specifications

ENGINE

Model	Komatsu SAA6D114E-6
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	1.950 rpm
ISO 14396	164 kW/220 HP
ISO 9249 (net engine power)	162 kW/217 HP
No. of cylinders	6
Bore × stroke	114 × 144,5 mm
Displacement	8,85 l
Fan drive type	Hydraulic, reversible
Lubrication system	
Method	Gear pump, force lubrication
Filter	Full flow

FINAL DRIVE

Type	Spur and planetary gear, double-reduction
Sprocket	Segmented sprocket teeth are bolt-on for easy replacement

MAX. TRAVEL SPEEDS

	Forward	Reverse
1st	3,6 km/h	4,5 km/h
2nd	5,6 km/h	6,7 km/h
3rd L	7,3 km/h	8,7 km/h
3rd	11,3 km/h	13,6 km/h

STEERING SYSTEM

Type	Hydrostatic Steering System (HSS)
Steering control	PCCS-lever
Service brakes	Wet, multiple-disc, pedal-controlled, spring-actuated and hydraulically released
Minimum turning radius (counter-rotation) (as measured by track marks on ground)	
D65EXi-18	1,9 m
D65PXi-18	2,2 m

TORQFLOW TRANSMISSION

Type	Komatsu TORQFLOW
Torque converter	3-element, 1-stage, 2-phase, water-cooled, automatic lock-up
Transmission	Planetary gear, multiple-disc clutch hydraulically actuated, force-lubricated
Gearshift lock lever and neutral safety switch prevent accidental starts.	

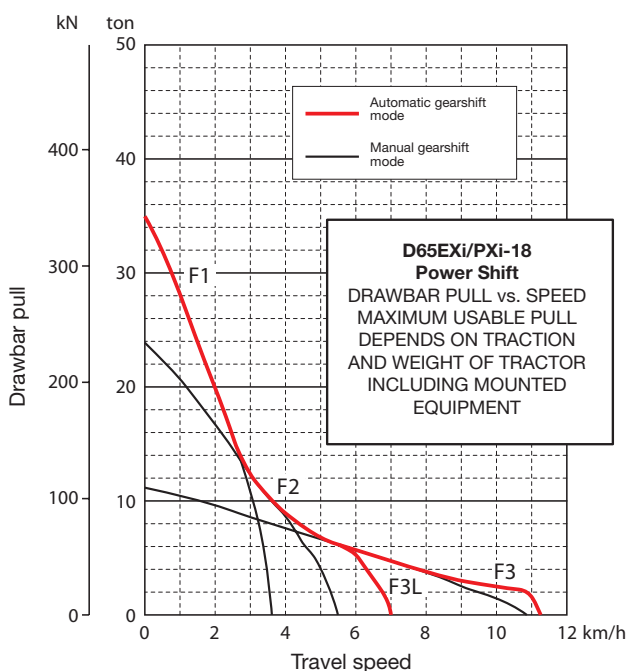
ENVIRONMENT

Engine emissions	Fully complies with EU Stage IV exhaust emission regulations
Noise levels	
LwA external	108 dB(A) (2000/14/EC Stage II)
LpA operator ear	78 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)*	
Hand/arm	≤ 2,5 m/s ² (uncertainty K = 0,94 m/s ²)
Body	≤ 0,5 m/s ² (uncertainty K = 0,29 m/s ²)

* For the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.

SERVICE REFILL CAPACITIES

Fuel tank	415 l
Radiator	49 l
Engine oil	30,5 l
Torque converter, transmission, bevel gear and steering system	48 l
Final drive (each side)	
D65EXi-18	16,5 l
D65PXi-18	22,2 l
Work equipment hydraulics	62 l
Multishank ripper	7 l
AdBlue® tank	23,5 l



Specifications

UNDERCARRIAGE

Suspension	Oscillating equaliser bar and pivot shaft
Track roller frame	Monocoque, large section, durable construction
Rollers and idlers	Lubricated track rollers
Tracks	PLUS link assembly
Track tension	Combined spring and hydraulic unit

D65EXi-18

Type of blade	Sigmodozer®
Number of track rollers (each side)	7
Number of shoes (each side)	42
Shoe width (standard)	610 mm
Ground contact area	36.234 cm ²
Ground pressure*	0,63 kg/cm ²
Track gauge	1.880 mm
Length of track on ground	2.970 mm

D65PXi-18

Type of blade	Straight tilt	INPAT
Number of track rollers (each side)	8	8
Number of shoes (each side)	45	45
Shoe width (standard)	915 mm	760 mm
Ground contact area	59.932 cm ²	49.780 cm ²
Ground pressure*	0,37 kg/cm ²	0,46 kg/cm ²
Track gauge	2.050 mm	2.230 mm
Length of track on ground	3.275 mm	3.275 mm

* Including blade and ripper (EXi), ROPS cab, hydraulic control unit, operator, standard equipment, rated capacity of lubricant, coolant, and full fuel tank.

DOZER EQUIPMENT

	Overall length with blade	Blade capacity	Blade width × height	Max. lift above ground	Max. drop below ground	Max. tilt adjustment	Additional weight
D65EXi-18 Sigmodozer®	5.490 mm	5,61 m ³	3.410 × 1.425 mm	1.135 mm	500 mm	870 mm	2.440 kg
D65PXi-18 Straight tilt	5.680 mm	3,69 m ³	3.970 × 1.100 mm	1.130 mm	535 mm	890 mm	2.100 kg
D65PXi-18 INPAT	5.790 mm	4,42 m ³	4.010 × 1.235 mm	1.170 mm	695 mm	520 mm	* 2.990 kg

Blade capacities are based on the SAE recommended practice J1265.

* Foldable INPAT blade (PXi): additional weight +330 kg

HYDRAULIC SYSTEM

Type	CLSS (closed-centre load sensing system)
All spool valves externally mounted beside the hydraulic tank.	
Main pump	Variable displacement piston pump
Maximum pump flow	248 l/min
Relief valve setting	285 kg/cm ²
Control valve positions for Sigmodozer® or straight tilt dozer	
Blade lift	Raise, hold, lower and float
Blade tilt	Right, hold and left
Control valve positions for INPAT dozer	
Blade lift	Raise, hold, lower and float
Blade tilt	Right, hold and left
Blade angle	Right, hold and left
Additional control valve positions for multishank ripper (EXi)	
Ripper lift	Raise, hold and lower
Ripper tilt	Increase, hold and decrease

NUMBER OF CYLINDERS × BORE

Type of blade	Sigmodozer®	Straight tilt	INPAT
Blade lift	2 × 85 mm	2 × 85 mm	2 × 90 mm
Blade tilt	–	1 × 125 mm	1 × 130 mm
Blade tilt/pitch	2 × 125 mm	–	–
Blade angle	–	–	2 × 110 mm

OPERATING WEIGHT (APPR.)

Including ripper (EXi), ROPS cab, operator, standard equipment, rated capacity of lubricant, coolant, and full fuel tank

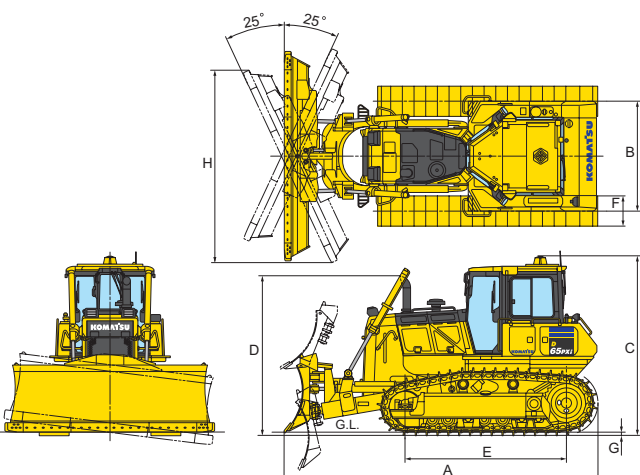
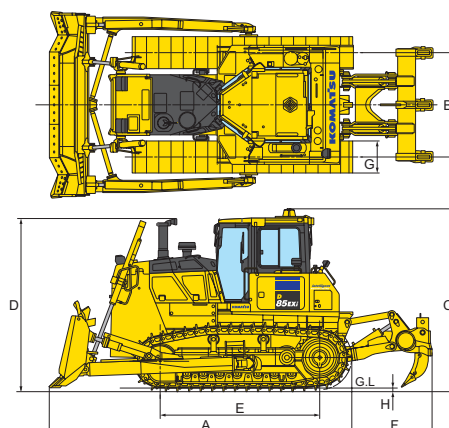
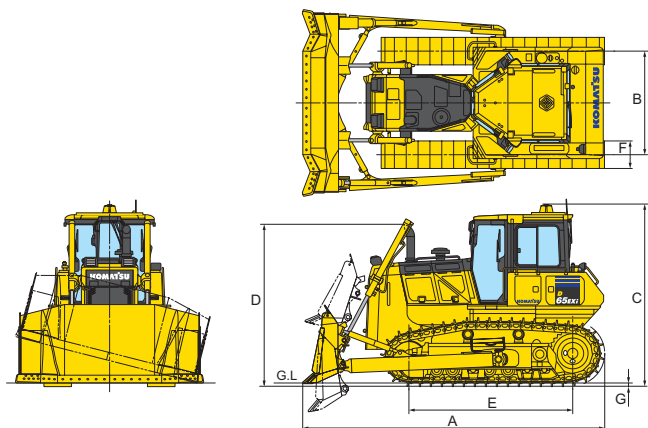
D65EXi-18 with Sigmodozer®	23.000 kg
D65PXi-18 with straight tilt	22.200 kg
D65PXi-18 with INPAT	23.100 kg

DIMENSIONS

	D65EXi-18 Sigmadozer®	D65PXi-18 Straight Tilt	D65PXi-18 INPAT
A	5.490 mm	5.680 mm	5.790 mm
B	1.880 mm	2.050 mm	2.230 mm
C	3.330 mm	3.330 mm	3.330 mm
D	2.970 mm	2.970 mm	2.970 mm
E	2.970 mm	3.275 mm	3.275 mm
F	610 mm	915 mm	760 mm
G	65 mm	65 mm	65 mm
H	-	-	3.670 mm

MULTISHANK RIPPER (EXI)

Type	Hydraulically controlled parallelogram ripper
No. of shanks	3
Weight (including hydraulic control unit)	1.920 kg
Ripper cylinder	1 × 125 mm
A	5.810 mm
B	2.000 mm
C	3.498 mm
D	3.300 mm
E	3.030 mm
F	1.515 mm
G	610 mm



Ground clearance: 415 mm