

SPECIFICATIONS



ENGINE

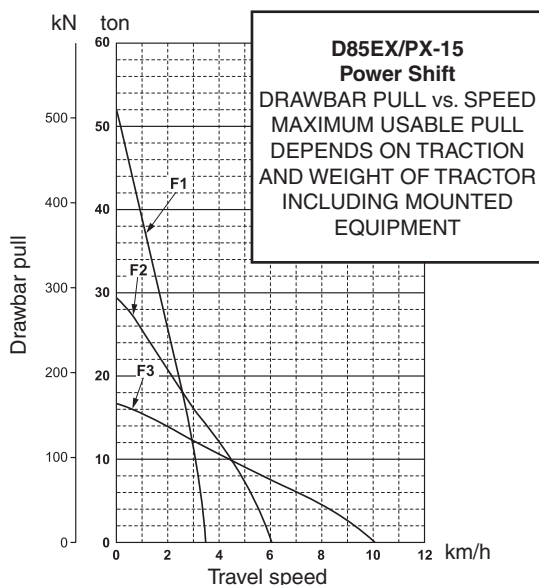
Model.....Komatsu SAA6D125E-5
 Type.....Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
 Engine power
 at rated engine speed 1.900 rpm
 ISO 14396..... 199 kW / 267 HP
 ISO 9249 (net engine power)..... 197 kW / 264 HP
 No. of cylinders 6
 Bore x stroke 125 x 150 mm
 Displacement..... 11,04 ltr
 Governor.....All-speed, electronic
 Lubrication system
 Method..... Gear pump, force lubrication
 Filter Full flow



TORQFLOW TRANSMISSION

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

Max. travel speeds (km/h)	Forward		Reverse	
	EX	PX	EX	PX
1st	3,3	3,3	4,4	4,4
2nd	6,1	6,0	8,0	7,9
3rd	10,1	10,0	13,0	12,7



FINAL DRIVE

Type..... Planetary gear, double-reduction
 Sprocket Segmented sprocket teeth are bolt-on for easy replacement



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)
 D85EX-15 1,99 m
 D85PX-15 2,24 m



UNDERCARRIAGE

Suspension..... Oscillating equaliser bar and pivot shaft
 Track roller frame Monocoque, large section, durable construction
 Rollers and idlers..... Lubricated track rollers
 Tracks Lubricated tracks, fully sealed
 Track tension Combined spring and hydraulic unit

	D85EX-15	D85PX-15
Number of track rollers (each side)	7	8
Type of shoes (standard)	Single grouser	Single grouser
Number of shoes (each side)	41	45
Grouser height	72 mm	72 mm
Shoe width (standard)	610 mm	910 mm
Ground contact area	37.210 cm ²	63.340 cm ²
Track gauge	2.000 mm	2.250 mm
Length of track on ground	3.050 mm	3.480 mm



COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank..... 490 ltr
 Radiator..... 58 ltr
 Engine oil..... 38 ltr
 Torque converter, transmission, bevel gear, and steering system 60 ltr
 Final drive (each side)
 D85EX-15 26 ltr
 D85PX-15 26 ltr
 Dozer blade hydraulics 88 ltr
 (includes the additional capacity for the optional ripper)



ENVIRONMENT

Engine emissions Fully complies with EU Stage IIIA and EPA Tier III exhaust emission regulations

Noise levels

LwA external 109 dB(A) (2000/14/EC)
 LpA operator ear 79 dB(A) (ISO 6396 dynamic test)

Vibration levels (EN 12096:1997)*

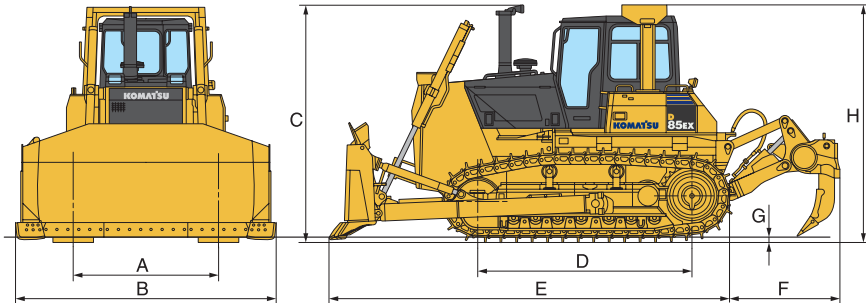
Hand/arm ≤ 2,5 m/s² (uncertainty K = 0,9 (EX)/1,4 (PX) m/s²)
 Body..... ≤ 0,5 m/s² (uncertainty K = 0,3 (EX)/0,2 (PX) m/s²)

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



DIMENSIONS

	D85EX-15	D85PX-15
A	2.000 mm	2.250 mm
B	3.635 mm	4.365 mm
C	3.330 mm	3.330 mm
D	3.050 mm	3.480 mm
E	5.795 mm	6.065 mm
F	1.460 mm	-
G	72 mm	72 mm
H	3.324 mm	3.324 mm



Dimensions with semi-U tilt blade and multishank ripper (D85EX-15)
Ground clearance: 450 mm



OPERATING WEIGHT (APPR.)

Including semi-U tilt dozer and multishank ripper (EX) or straight tilt dozer (PX), steel cab, ROPS, operator, standard equipment, rated capacity of lubricant, coolant, and full fuel tank.

D85EX-15	28.100 kg
D85PX-15	27.650 kg



RIPPER EQUIPMENT

Multishank ripper

Type	Hydraulically controlled parallelogram ripper
No. of shanks	3
Weight (including hydraulic control unit)	2.500 kg
Beam length	2.246 mm
Maximum lift above ground	564 mm
Maximum digging depth	653 mm



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	195 ltr/min
Relief valve setting	230 kg/cm ²
Spool control valve positions for tilt dozer	
Blade lift	Raise, hold, lower, and float
Blade tilt	Right, hold, and left
Additional control valve positions for multishank ripper (EX)	
Ripper lift	Raise, hold, and lower
Hydraulic cylinders	Double-acting, piston
No. of cylinders × bore	
Blade lift	2 × 100 mm
Blade tilt	1 × 150 mm
Ripper lift	2 × 130 mm



DOZER EQUIPMENT

Blade capacities are based on the SAE recommended practice J1265.

	Overall length with dozer	Blade capacity	Blade width × height	Max. lift above ground	Max. drop below ground	Max. tilt adjustment	Additional weight
D85EX-15 Straight tilt blade	5.640 mm	5,2 m ³	3.715 × 1.436 mm	1.207 mm	540 mm	750 mm	3.329 kg
D85EX-15 Semi-U blade single tilt	5.795 mm	7,0 m ³	3.635 × 1.580 mm	1.207 mm	540 mm	735 mm	3.599 kg
D85EX-15 Strengthened Semi-U blade single tilt	5.795 mm	7,0 m ³	3.635 × 1.580 mm	1.207 mm	540 mm	735 mm	4.193 kg
D85EX-15 Straight MAPT blade	6.035 mm	4,0 m ³	4.515 × 1.107 mm	1.173 mm	760 mm	520 mm	3.559 kg
D85EX-15 U blade single tilt	6.620 mm	8,5 m ³	3.820 × 1.640 mm	1.210 mm	540 mm	770 mm	3.974 kg
D85EX-15 Strengthened U blade single tilt	6.620 mm	8,5 m ³	3.820 × 1.640 mm	1.210 mm	540 mm	770 mm	4.574 kg
D85PX-15 Straight tilt blade	6.065 mm	5,9 m ³	4.365 × 1.370 mm	1.207 mm	568 mm	500 mm	3.366 kg