

DOOSAN

Wheeled Excavator |
DX165W-5



Maximum power: 137 HP
Operating weight: 16.5 t
Max. bucket capacity: 0.51 m³





Engine

Make / Model	Perkins 1204F
No. of cylinders	4
Rated power at 2200 rpm (SAE J1995)	102.1 kW (137.0 HP)
Rated power at 2200 rpm (SAE J1349)	98.2 kW (132.0 HP)
Max. torque at 1400 rpm	56 kgf.m
Piston displacement	4400 cm ³
Bore × stroke	105 mm × 127 mm
Starter	24 V × 5.5 kW
Batteries - Alternator	2 × 12 V, 100 Ah - 24 V, 85 Ah

Weights

Operating weight	16.5 - 17.9 ton
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Performance

Bucket digging force (ISO)	108.7 / 114.9 kN
Arm digging force (ISO) - arm 2.5 m	64.1 / 67.7 kN
Travel speed (creep / low / high)	3.0 / 10 / 37 km/h
Swing speed	12.2 rpm
Swing torque	36.2 kN.m
Maximum traction force	102.7 kN
Gradeability	35°

Hydraulic system

Main pumps (2)	Tandem - axial piston
Maximum pump flow - main	2 × 171.8 l/min
Maximum pump flow - pilot	21.3 l/min
Maximum pump flow - auxiliary	35.5 + 13.6 l/min
Maximum system pressure	
Work	350 kgf/cm ²
Swing	275 kgf/cm ²
Travel	370 kgf/cm ²
Power boost	370 kgf/cm ²

Fluid capacities

Fuel tank	236 l
Hydraulic tank	96 l

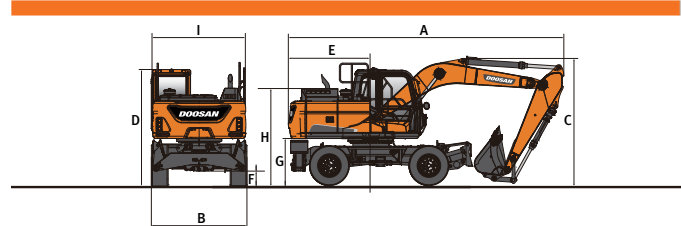
Other

A-weighted emission sound pressure level at the operator's position, LpAd (ISO 6396:2008)	71 dB(A)
A-weighted sound power level, LwAd (2000/14/EC)	102 dB(A)
Hydraulic cylinders	Bore × Rod diam. × Stroke
Boom, lower	110 × 75 × 1035 mm
Boom, upper	140 × 85 × 720 mm
Arm	115 × 80 × 1068 mm
Bucket	100 × 70 × 900 mm
Dozer blade	100 × 60 × 204 mm
Outrigger	110 × 70 × 438 mm

Standard features (not exhaustive)

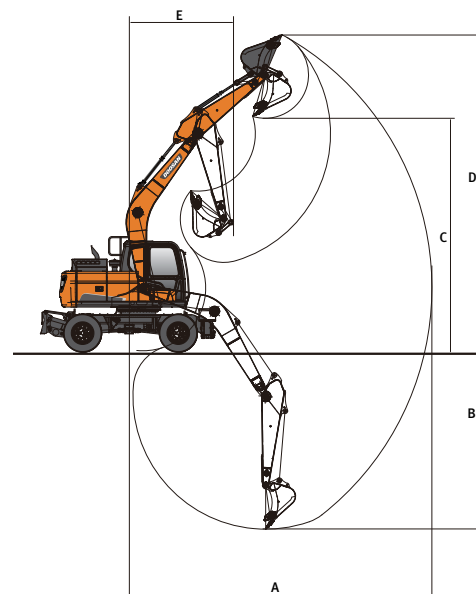
Two-piece boom: 4987 mm - arm: 2500 mm	Roll Over Protective Structure - ROPS (Std ISO 12117-2)
3315 kg counterweight	Guard rail (ISO 2867 2011)
Perking 1204F - EU Stage IV - EGR, SCR and DOC	Cab pack: sun visor, roof window and rain shield
Front clamshell cradle	Fully adjustable air suspension seat with heater
Rear dozer blade	Safety valves (boom & arm)
Double tyres 10.00-20-14PR	Overload warning device
Breaker piping (one way auxiliary hydr. line)	Rear & front travel alarm
Two way pedal	Work lights (2 front frame, 4 front cab-mounted, 2 rear cab-mounted, 2 boom mounted and 1 rear side)
Control of auxiliary hydraulic flow & pressure from control panel	Rear view camera
4 operating modes & 4 working modes	Creeping/low/high speed
Sliding proportional control of auxiliary hydraulic lines on joysticks	Auto idle and Smart Power Control (SPC)
Side mirror	CORE TMS Doosan Telematic system
Fuel filling pump	1 yr / 2000 h warranty (whatever occurs first)
Air conditioning with climate control	
Mineral oil Total Hydroflo CT	

Dimensions



	Two-piece boom	
Boom length - mm	4987 (3350 LB + 2000 UB)	
Arm length - mm	2100	2500
Bucket capacity - m ³	0.51	0.51
A Shipping length - mm	7655	
B Shipping width - mm	2500	
C Shipping height (boom) - mm	3110	
D Height over cab - mm	3102	
E Tail swing radius - mm	1850	
F Ground clearance - mm	350	
G Counterweight clearance - mm	1215	
H Engine cover height - mm	2262	
I Upper housing width - mm	2490	

Working range



	Two-piece boom	
Boom length - mm	4987 (3350 LB + 2000 UB)	
Arm length - mm	2100	2500
Bucket capacity - m ³	0.51	0.51
A Max. digging reach - mm	8210	8670
B Max. digging depth - mm	5025	5455
C Max. loading height - mm	6715	7175
D Max. digging height - mm	9060	9565
E Min. swing radius - mm	2490	2645

