

DOOSAN



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Construction Equipment

DX300LCA

Engine Power	SAE J1349, net 146 kW(193 HP) @ 1,900 rpm
Operational Weight	29,600 kg (65,257 lb)
Bucket Capacity (SAE/PCSA)	0.64 ~ 1.75m ³ (0.84 ~ 2.29yd ³)



TECHNICAL SPECIFICATIONS

Engine

Model	Doosan DE08TIS
Rated horse power	146 kW (193 HP) @ 1,900 rpm (SAE J1349,net)
Piston displacement	8,071cc

Swing Mechanism

High-torque, axial piston motor with planetary reduction gear bathed in oil. Swing circle is singlerow, shear type ball bearing with induction-hardened internal gear. Internal gear and pinion gear immersed in lubricant.

Swing speed	0 to 9.9rpm
Max. swing torque	10,070kgf.m

Drive

Each track is driven by an independent, high-torque, axial piston motor through planetary reduction gear. Two levers or foot pedal control provide smooth travel or counter-rotation upon demand.

Travel speed (HIGH/low)	3.0/5.1km/h
Maximum traction force	25.2 / 13.7 ton
Gradeability	70%

Refill Capacities

Fuel tank	500 ℓ
Cooling system (Radiator capacity)	35 ℓ
Engine oil	31.5 ℓ
Swing drive(each)	6 ℓ
Final drive (each)	2x7 ℓ
Hydraulic tank	280 ℓ

Bucket

Bucket	Capacity (m ³)	Width	Radius	Weight	Recommendation					
					C/W (ton)			SHOE (mm)		
					5.3			600		
SAE/PCSA	W/O Cutter	6.245m Boom			6.245m HD Boom			10m Boom		
		2.5m Arm	3.1m Arm	3.75m Arm	2.85m HD Arm	3.1m HD Arm	7m Arm			
General Purpose Bucket	0.64m ³	1,083 mm	1,220 mm	423 kg	X	X	X	X	X	C
	0.80m ³	962 mm	1,602 mm	847 kg	A	A	A	A	A	X
	1.05m ³	1,172 mm	1,602 mm	971 kg	A	A	A	A	A	X
	1.27m ³	1,376 mm	1,602 mm	1,090 kg	A	A	A	A	A	X
	1.50m ³	1,582 mm	1,602 mm	1,199 kg	A	B	B	A	B	X
	1.75m ³	1,792 mm	1,602 mm	1,301 kg	B	C	D	C	C	X
Heavy Duty Bucket	1.04m ³	1,050 mm	1,553 mm	944 kg	A	A	A	A	A	X
	1.23m ³	1,200 mm	1,553 mm	1,020 kg	A	A	A	A	A	X
	1.47m ³	1,400 mm	1,553 mm	1,122 kg	A	B	B	A	B	X
	1.60m ³	1,500 mm	1,553 mm	1,172 kg	A	B	C	B	B	X
	1.72m ³	1,600 mm	1,553 mm	1,243 kg	B	C	C	B	C	X

Based on ISO 10567 and SAE J296, arm length without quick change clamp
 Δ: Suitable for materials with density of 2,100kg/m³ (13,500lb/ud³) or less

This bucket recommendation is based on machine stability considering the tipping load with certain density of handling material, and should be strictly followed.

Hydraulic System

The heart of the system is the e-EPOS (Electronic Power Optimizing System). It allows the efficiency of the system to be optimized for all working conditions and minimizes fuel consumption. The new e-EPOS is connected to the engine electronic control via a data transfer link to harmonize the operation of the engine and hydraulics.

- The hydraulic system enables independent or combined operations.
- Two travel speeds offer either increased torque or high speed tracking.
- Cross-sensing pump system for fuel savings.
- Auto deceleration system.
- Two operating modes, two power modes.
- Button control of flow in auxiliary equipment circuits.
- Computer-aided pump power control.

Main pumps

Tandem axial piston pumps
 Max flow : 2 x 247 ℓ /min

Pilot pump

Gear pump - max flow : 28.5 ℓ /min

Main relief pressure

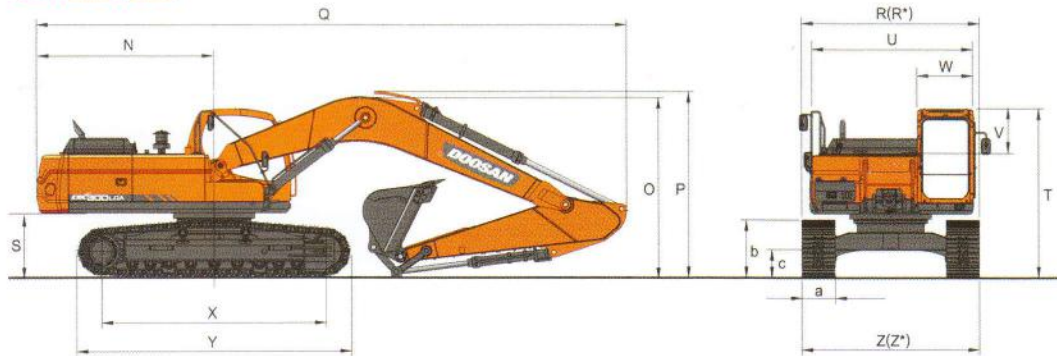
Boom/Arm/Bucket
 - Working, Travel - 330 kg/cm²
 - Pressure up - 350 kg/cm²

Hydraulic Cylinders

The piston rods and cylinder bodies are made of high-strength steel. A shock absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extend piston life.

Cylinders	Quantity	Bore x Rod diameter x stroke
Boom	2	140 X 95 X 1,440mm
Arm	1	150 X 105 X 1,755mm
Bucket	1	140 X 90 X 1,150mm
SLR	1	95 X 65 X 885mm

Dimensions



Standard

Dimensions (6,245mm(20'6")HD-Boom; 2,850mm(9'4")HD-Arm; 600mm(24")Shoe)

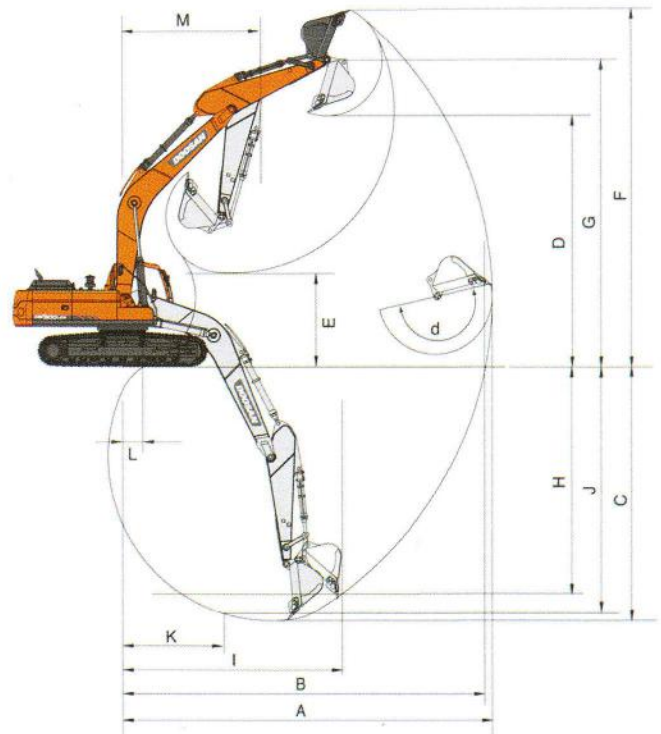
Boom Type (One Piece)	(mm)	6,245(Heavy Duty)-STD
Arm Type	(mm)	2,850(Heavy Duty)-STD
Bucket Type (pcsa)	(m ³)	1.72(H-Class)-STD
Tail Swing Radius	(mm) N	3,200
Shipping Height (Boom)	(mm) O	3,495
Shipping Height (Hose)	(mm) P	3,615
Shipping Length	(mm) Q	10,700
Shipping Width (Std.)	(mm) R	3,200
C/Weight Clearance	(mm) S	1,150
Height Over Cab.	(mm) T	3,065
House Width	(mm) U	2,960
Cab. Height Above House	(mm) V	845
Cab. Width	(mm) W	1,010
Tumbler Distance	(mm) X	4,040
Track Length	(mm) Y	4,940
Undercarriage Width (Std.)	(mm) Z	3,200
Shoe Width	(mm) a	600
Track Height	(mm) b	1,048
Car Body Clearance	(mm) c	500

Weight

Triple grouser

Shoe width	Operating weight	Ground pressure (kgf/cm ²)
(STD)600G mm	29.3 ton	0.56 kgf/cm ²
(OPT)700G mm	29.9 ton	0.49 kgf/cm ²
(OPT)800G mm	30.2 ton	0.43 kgf/cm ²
(OPT)850G mm	30.4 ton	0.41 kgf/cm ²
(OPT)600DG mm	29.9 ton	0.57 kgf/cm ²

Working Ranges



Boom Type (One Piece)	(mm)	6,245(Heavy Duty)-STD
Arm Type	(mm)	2,850(Heavy Duty)-STD
Bucket Type (pcsa)	(m ³)	1.72(H-Class)-STD
MAX. digging reach	(mm) A	10,415
Max. digging reach (ground)	(mm) B	10,215
MAX. digging depth	(mm) C	7,055
Max. loading height	(mm) D	6,995
Min. loading height	(mm) E	3,010
Max. digging height	(mm) F	9,980
Max. bucket pin height	(mm) G	8,695
Max. vertical wall depth	(mm) H	5,450
Max. radius vertical	(mm) I	7,175
Max. digging depth 8' line	(mm) J	6,815
Min. radius 8' line	(mm) K	2,905
Min. digging reach	(mm) L	1,670