

Construction Equipment



Engine Power	115 kW (154 HP) / 1,900 rpm
Operational Weight	20,600 kg
Bucket Capacity (SAE)	0.86 m ²

DOOSAN

Competitive & Durable 20-ton-class Equipment

D/2-5-58

Highly durable components have been produced with elaborate structure and production technology, offering strong merit and providing high profit to all construction clients.

APPLICATION

General engineering, urban infrastructure, roads construction

OPTIMIZED STRUCTURAL CHASSIS With the optimization of the chassis structure design, overall task stability and durability have been improved.

MAINTENANCE

The distribution of maintenance areas and design are rational. This is able to be operated simply on a surface through regular checks.

DELUXE CABIN

A deluxe, adjustable seat and comfort features ensure that operators stay productivity and push performance to the limit in DX215-5B.

The connecting part uses an assembled cast, reinforcing the panel thickness of the core part. By developing the structure, durability has been largely increased.

DURABILITY & RELIABILITY

HIGH-EFFICIENCY HYDRAULIC SYSTEM

Minimum loss of energy through the perfect harmonization of overall hydraulic system performance and engine output rate.



Manufacturer Doosan Rated Power No. of Cylinders 6 Displacement 5,890 cc

115 kW (154HP) / 1,900 rpm

Option Equipment

Boom Lock Valve

1 Fuel Saving Improvement over preceding products









The data presented hereinabove are measured in the test environment of the manufacturer and subject to change according to the test conditions. The applicability of the data shall be limited to reference purpose only.

SPC MODE

In a real work environment, work load of the equipment is Smart-sensed, automatically controlling engine RPM and main pump torque. By doing this, oil consumption is reduced, while also satisfying task efficiency.

EPOS SYSTEM

Based in a real work environment, Power Mode (P), Standard Mode (S), and Economic Mode (E), can be chosen from freely. Furthermore, by Smart-controlling the idle speed, main pump flow rate, and hydraulic system pressure, loss of output has been reduced, and low oil consumption has been made a reality.





With the design ideology "The true heart of the driver", interior sounds and vibrations inside the driver's cabin have been reduced to the bare minimum. An LCD measuring instrument is also available, improving both ease of use and comfort on the job.



The cutting-edge color LCD display system easily grasps equipment operative information and increases the convenience of the task.

- New dashboard : The newly designed dashboard displays more information, making it easier to understand the equipment status.
- Warning Info Confirmation: Equipment warning information can be checked on the measuring instrument.
- Oil Filter System Information: Maintenance product usage time, replacement cycle, time, etc can be checked on the measuring instrument. The usage time can be reset, and the maintenance product replacement cycle can be changed.





360 CHALLENGE BEARING DRIVING VIEW The glass area in the driver's cabin has expanded to the maximum,

bringing to life a 360 degree area of sight.

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(1112 III)

DOOSAN



CONCENTRATED SWITCH DESIGN

With the switch concentration design, the ease of equipment operation has been sharply raised, and the efficiency of work in the driver's cabin has been improved.



ENGINE EMERGENCY BRAKE BUTTON ADDITION



CONVENIENT STORAGE SPACE AND POWER SUPPLY

Containing small object storage as well as a 12V rechargeable power supply, cellphones and electrical equipment can be charged and stored safely. A quickly operational air conditioner switch has been installed, enabling quicker and easier operation.



Sounds inside the driver's cabin have been largely reduced, and comfort has been improved.





Reliability has been improved through more advanced design procedures and repeating, strict simulation tests.

JY215

STRUCTURAL

OPTIMIZATION

The expected work life of DX215-5B has been extended to the maximum through further advanced computer 3D designs and multiple-time reliability tests, creating far higher added value for the customer.





MULTIPLEX OIL FILTER SYSTEM

The 3-floor oil filter system strengthens the filtering performance of combustion oil and increases reliability, thus increasing the engine's ability to adapt to low-grade oil, reducing failure rate, and allowing big savings on expenses and cost ratios.



6 BOOM & ARM WITH **REINFORCED DESIGN**

With boom bottom bard unification design, welding spot s of the boom and arm has been reduced. The structure has been developed as well, leading to the prevention of stress concentration. The thickness of the core region panel has been reinforced, raising the durability and structural stability of the boom and arm and allowing even easier adaptation to poor work environments.



The area that receives strength from the front connective region has been expanded, and the board has been thickened. The manufacturing process has been developed as well, remodeled with an all-in-one cast, largely extending the window of use.

Convenient, Fast, and Economic Maintenance

Convenient and quick maintainability design,





UPPER SLIPPERINESS-PREVENTION COVER

The new black slipperiness-prevention panel uses a shock-pulse-style design. The slipperiness-prevention surface area has been expanded, increasing maintenance convenience and working to allow the optimum slipperiness-prevention effect.



The present integral cover has been remodeled with a separating sieve design,

creating easier and more convenient equipment maintenance protection work.



IMPROVED ENGINE COVER



HYDRAULIC OIL & COOLANT FLUID EXCHANGE PERIOD MAGNIFIED

Hydraulic Oil: 4000 Hours Coolant Fluid: 4000 Hours Combustion Oil Tank Volume Increase

GLOBAL PARTS NETWORK

GLOBAL PDC (PARTS DISTRIBUTION CENTER) NETWORK

Doosan provides fast and precise worldwide delivery of genuine Doosan parts through its global PDC (parts distribution center) network.



GLOBAL NETWORK

The global network of the GPDC (Global Parts Distribution Center) maximizes its supply rate by making sure that each center is stockpiled with all the critical parts required for businesses in its area. The network also minimizes the time and costs required for parts delivery by positioning PDCs close to major markets around the world. Doosan PDCs communicate with customers in their time zone, informing them that they are open for operation, and deliver parts to them as early as possible.

The Global Parts **Distribution Center Network**

PDCs had been set up as shown below, including Mother PDC in Ansan, Korea. The seven other PDCs include one in China (Yantai), one in the USA (Chicago), one in Brazil (Campinas), two in Europe (Germany and the UK), one in the Middle East (Dubai), and one in Asia (Singapore).



PDC BENEFIT











TECHNICAL SPECIFICATIONS

Main Specification

Engine	Hydraulic	Motor			
Model DL06	Travel Mot	Travel Motor		Axial Piston Type X 2	
Type Serial	Swing Bra	Swing Brake		Wet, multi-disc brake	
Intake Turbine Presser					
No. of Cylinders 6	Main Pum	IP			
Cylinder Dia. 100 mm	Туре	Туре		Variable piston pump	
Piston Stroke 125 mm	Max. flow	Max. flowrate		2 X 191 Q /min	
Rated Power 115 kW (154 HP) / 1,9	00 rpm				
Swing System	Safety Val	ve Setting	hmont	250 kgf/cm ²	
Drive Type Hydraulic drive	Hyuraulic	Circuit for Trave	linnent	$250 \text{ kg}/\text{cm}^2$	
Reducer Planetary gear reduce	Hydraulic	Hydraulic Circuit for Travel		$330 \text{ kg}/\text{cm}^2$	
Swing Brake Wet, multi-disc brake			5	270 Kgi/cili	
Swing Speed 9.8 rpm	Tank Capa	icity			
	Oil tank			400 l	
Drive and Brake	Hydraulic	Hydraulic oil tank (full) 195 ℓ		195ℓ	
Feed-forward Control Pedal & joystick integr	al				
Drive Type Hydraulic drive	Cooling W	ater/Lubricant	Refill Capa	icity	
Travel Motor Axial piston hydraulic	notor Radiator	Radiator Engine Travel I		Reduce Gear Oil	Swing Reducer
Travel Speed (High/Low) 5.3/2.9 km/h	26 Q	27 Q	2 X 3.3	Q	5 Q
Brake Operation Hydraulic Brake					
Parking Brake Wet, multi-disc brake					
Travel Mechanism					
Center Frame X-shaped					
Track Frame Box-type section					
Sealed Track Auto-greased track					
Track Adjustment (Height) Grease adjustment					
No. of Track Shoes 45 each side					
Carrier Roller 2 each side					
Track Roller 7 each side					

Operational Weight

(With operator, lubricant, coo	lant, full tanks, and standard specification)	Max. Digging Force (ISO)		
Boom	5,700 mm	Bucket	13.9 ton	
Dipper Stick	2,900 mm	Dipper Stick	10 ton	
Bucket	SAE 0.86 m ³			
Track Link	600 mm			
Operational Weight	20.6 ton			
Ground Contact Pressure	45.8 kpa			
Oil Cylinder				
Boom	oom 2-120 mm X 85 mm X 1,263 mm			
Dipper Stick	1-135 mm X 95 mm X 1,450 mm			
Bucket 1-115 mm X 80 mm X 1,060 mm				

Distribution Cost Reduction

Maximum Parts supply rate

Shortest distance/time parts delivery Real-time service support

Minimum

downtime



Hydraulic System

DIMENSIONS

WORKING RANGES



DIMENSIONS

N	Tail swing radius	(mm)	2,794
0	Shipping height (to top of swing arm)	(mm)	2,891
Ρ	Shipping height (to top of rubber tube)	(mm)	3,005
Q	Shipping length	(mm)	9,506
R	Shipping width	(mm)	2,800
S	C/weight clearance	(mm)	1,096
т	Height over cabin	(mm)	2,985
U	House width	(mm)	2,709
v	Cabin height above house	(mm)	832
w	Cabin width	(mm)	1,008
X	Tumbler distance	(mm)	3,270
Y	Track length	(mm)	4,060
Z	Undercarriage width	(mm)	2,800
а	Track width	(mm)	600
b	Track height	(mm)	950
С	Car body clearance	(mm)	475



WORKING RANGE

A	Max. digging reach	(mm)	9,873
В	Max. digging reach (ground)	(mm)	9,699
с	Max. digging depth	(mm)	6,592
D	Max. loading height	(mm)	6,830
E	Max. loading height	(mm)	2,501
F	Max. digging height	(mm)	9,616
G	Max. height of bucket pin shaft	(mm)	8,274
н	Max. vertical wall depth	(mm)	3,929
I	Max. radius vertical	(mm)	7,988
J	Max. depth to 8' line	(mm)	6,411
к	Max. radius 8' line	(mm)	2,858
L	Min. digging reach	(mm)	562
м	Min. swing radius	(mm)	3,560
d	Bucket angle	(°)	177

Doosan is

Since 1896, Doosan, the oldest company in Korea, has evolved with its people. The company grew up rapidly for last 10 years with reputation. For human-oriented vision, Doosan has been building constructions, energy, machines, infra structures globally. As a global leader of infra structure, Doosan continues its vision to make human-oriented future.

First in Korea, Doosan self-developed excavators in 1985 and continued building versatile construction machines including excavators, wheel loaders, articulated dump trucks to execute its human-oriented philosophy. Doosan became a global leader of heavy construction machine industry by achieving global sales line, producing line, and distribution line. Along with large production bases in Korea, China, USA, Belgium, Czech, Brazil, Doosan has 1400 dealer networks and Doosan is providing reliable products and trusted solutions for your stable business at no risk.





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Materials and Specifications in the catalogue are subject to change without notice.