





### **SETTING THE STANDARD**

## When it Changes, the World of 20 ton Excavator Changes

From the moment the first DX225 launched, it quickly became one of the most powerful excavators in its class. The latest iteration of steady seller, DX200A-7M has finally reached the level of perfection. Including all the advantages of the previous best-selling model, proven power and performance, the new DX200A-7M now offers additional value to the operator. Introduction of VBO system maximized fuel efficiency. Low fuel cost, upgraded powerful performance, operator comfort and easy maintenance all combined to guarantee the best performance.

Ultimate performance is not only achieved through the engine power. The new DX200A-7M equipped with fortified structure and cutting-edge technology. New level of interior comfort and a range of attachment options to suit your environment. All the craftmanship details and techniques planted to maximize its performance, yet the whole excavator exceed the sum of its exceptional parts. Experience all the values merged into apparatus.

Doosan has always committed to increase the optimum return on your investment and maximizing uptime. Raging the bar once again, we are ready to show you all the progress we made.

# - All NEW DX200A-7M

#### 1. HIGH PERFORMANCE

DX200A-7M, as an epitome of 22ton excavator, has always gained global recognition for powerful performance. Doosan's engine has finally reached the highest level, going through numerous innovation. Digging force and lifting capacity ever more advanced than its predecessor. Elevating the concept of excavator. Still boasting the best power. Experience the new DX200A-7M and all the progress.

#### 2. LOW FUEL COST

Increased productivity and decreased fuel consumption. We proudly introduce Doosan's cutting-edge technology, VBO (Virtual Bleed Off) system. VBO System combined all the best aspects of existing hydraulic systems. This new system electronically controls the pump, to generate the virtual hydraulic flow. Along with Doosan's unrivalled tuning technique, operator can reduce fuel consumption up to 14% compared to previous model.

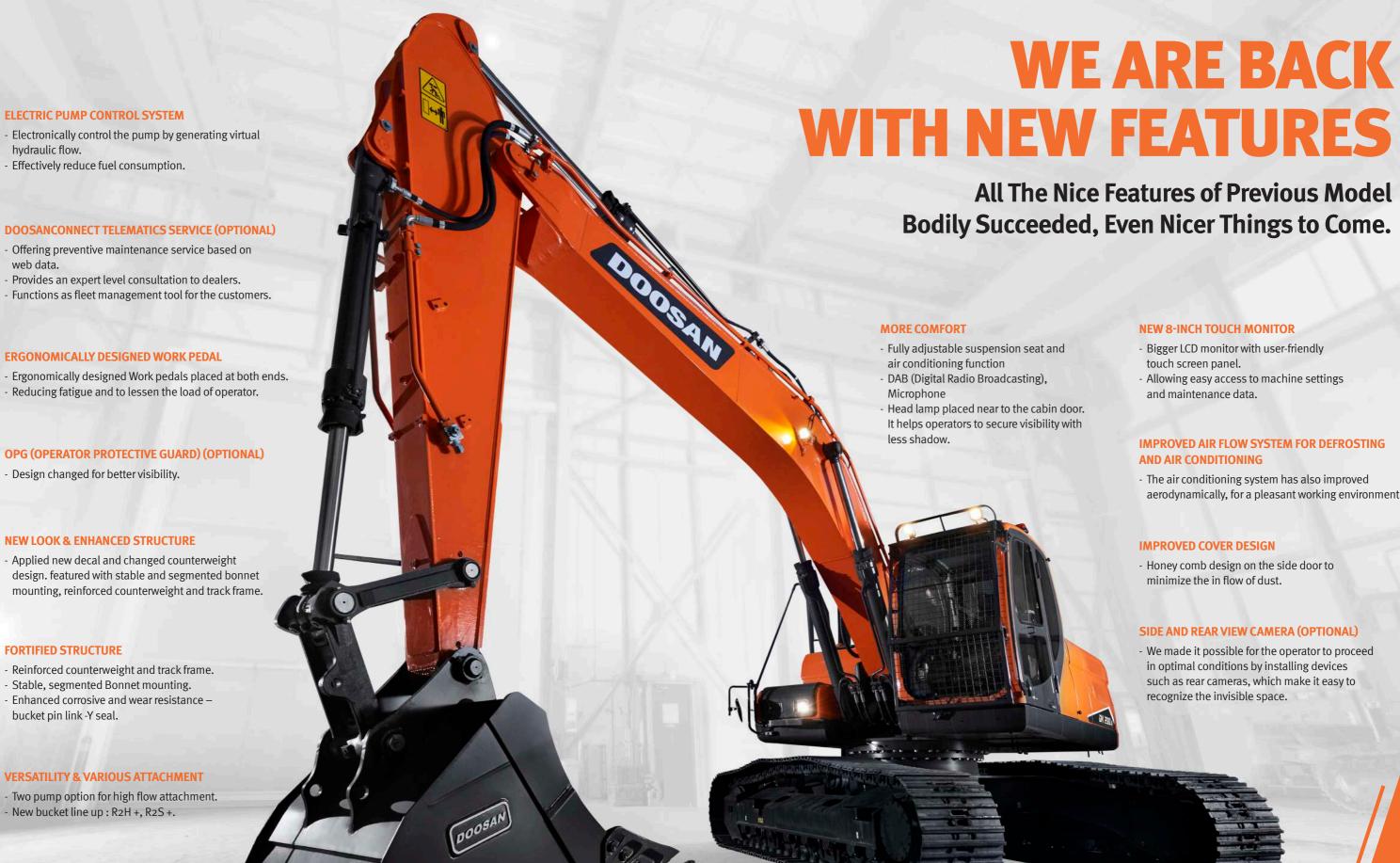
#### 3. HIGH DURABILITY

New DX200A-7M gained customer's credibility by reaching the incredible durability. Every key component fulfills the DI global standard. Hydraulic components and engine tank strengthened by using reinforced material. Frames and structures armed with robust design to stand whatever lies ahead. 20 ton class tail frame applied and counterweight mounting structure also improved.

Every detail applied strict criteria to raise the quality to the next level.

#### 4. LOW MAINTENANCE

Maintain this superior apparatus as the way it was. We lowered the entry barrier of maintenance. The strength of mechanical engine – easy maintenance became easier. Engine part could be reached by ground access. Other features also offer simple and easy access thanks to a wide panel. Via TMS service, you can always be connected to your vehicles. TMS offers information including location, operational condition, engine and hydraulic system. You can be informed of the component's operational data in hourly cycle, without the trouble to open up the panel of your excavator.



#### **NEW 8-INCH TOUCH MONITOR**

- Bigger LCD monitor with user-friendly touch screen panel.
- Allowing easy access to machine settings and maintenance data.

#### **IMPROVED AIR FLOW SYSTEM FOR DEFROSTING AND AIR CONDITIONING**

- The air conditioning system has also improved aerodynamically, for a pleasant working environment.

#### **IMPROVED COVER DESIGN**

- Honey comb design on the side door to minimize the in flow of dust.

#### SIDE AND REAR VIEW CAMERA (OPTIONAL)

We made it possible for the operator to proceed in optimal conditions by installing devices such as rear cameras, which make it easy to recognize the invisible space.



### **DoosanCONNECT® Telematics Service (OPTIONAL)**

#### **TELECOMMUNICATIONS** Data flow from machine to web





Telematics Service terminal is installed to machine / connected to EPOS<sup>™</sup>



**TELECOMMUNICATION** 

GPS, EPOS<sup>™</sup> data is sent to sedignated server by GSM, Satellite telecommunication



DOOSAN TELEMATICS SERVICE WEB

Doosan, Dealer, Customer can easily monitor the GPS, EPOS<sup>™</sup> data from Core Telematics Service web

**TELEMATICS SERVICE BENEFITS** Doosan and dealer support customers to improve work efficiency with timely and responsive services

#### CUSTOMER

Improve work efficiency

- · Timely and preventive service
- · Improve operator's skills by comparing work pattern
- · Manage fleet more effectively

#### DEALER

Better service for customers

- · Provide better quality of service
- · Maintain machine value
- · Better understanding of market needs

#### **DOOSAN**

Responsive to customer's voice

- · Utilize quality-related field data
- · Apply customer's usage profile to deveping new machine

#### FUNCTIONS (WEB/APP) Doosan Telematics Service provides various functions to support your great performance



	FUNCTION	EXCAVATOR	WHEEL LOADER	ADT	
GPS	· Location · Geo-fence	All models	All models	All models	
Operation hours	· Daily, Weekly, Monthly report	All models	All models	All models	
Operation hours  Operation hours  Operation hours  Operation hours by mode		All models Tier 4 only	All models	All models	
Maintenance parts  - Preventive maintenance by item replacement cycle		All models	Tier 4 only	All models	
Fault code / Warning	Fault code     Machine Warnings on Gauge Panel	All models	Tier 4 only	All models	
Fuel information	Fuel level     Fuel consumption	All models Tier 4 only	Tier 4 only	All models	
Dump capacity  - Dump tonnage - Count of Work Cycle		N/A	N/A	All models	

### **GLOBAL PARTS NETWORK**

#### **QUALITY-PROVEN MAIN COMPONENTS**

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 nine other PDCs include one in China (Yantai), Four in USA (Seattle and Atlanta, Suwanee, Miami), two in Europe (Germany and the UK), one in the Middle East (Dubai) and one in Asia (Singapore).



PDC BENEFIT



**Distribution Cost** Reduction



**Maximum Parts** supply rate



time parts delivery

Shortest distance/





Minimum downtime support

### TECHNICAL SPECIFICATION

#### **ENGINE**

#### Model

Doosan DB58TIS

2 valves per cylinder, vertical injectors, water cooled, turbo charged with air to air intercooler. The emission levels are well below the values required for Tier/Stage-II.

#### Number of cylinders

6

#### Nominal flywheel power

GROSS POWER: 113.2 kW (154 PS, 152 HP) @ 1,800 rpm (SAE J1995) NET POWER: 105.3 kW (143.2 PS, 140 HP) @ 1,800 rpm (SAE J1349)

#### Max torque

66 kgf.m @ 1,400 rpm

#### Piston displacement

5,785 cc (353 cu.in)

#### Bore & stroke

102 mm x 118 mm (4.0" x 4.6")

#### Starter

24 V / 4.5 kW

#### **Batteries**

2 X 12 V / 100 Ah

#### Air cleaner

Double element with auto dust evacuation.

#### **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 shockfree operation and extend piston life.

Cylinders	Quantity	Bore x Rod diameter x stroke
Boom	2	120 x 85 x 1,263 mm
Arm	1	135 x 95 x 1,443 mm
Bucket	1	120 x 80 x 1,060 mm

#### **HYDRAULIC SYSTEM**

The heart of the system is the EPOS<sup>™</sup> (Electronic Power Optimizing System). It allows the efficiency of the system to be optimized for all working conditions and minimizes fuel consumption.

- 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

2 variable displacement axial piston pumps

Max flow: 2 x 222.3 l/min

#### Pilot pump

Gear pump -  $\max$  flow : 27 l/ $\min$ 

#### Maximum system pressure

Normal mode: 350 kgf/cm<sup>2</sup> Power mode: 350 kgf/cm<sup>2</sup> Travel: 370 kgf/cm<sup>2</sup> Swing: 270 kgf/cm<sup>2</sup>

#### **SWING MECHANISM**

- An axial piston motor with two-stage planetary reduction gear is used for the swing.
- Increased swing torque reduces swing time.
- Internal induction-hardened gear.
- Internal gear and pinion immersed in lubricant bath.
- The swing brake for parking is activated by spring and released hydraulically.

#### Swing speed: 0 to 10.8 rpm

#### **WEIGHT**

12

Boom 5,700 mm (18'8") Arm 2,900 mm (9'6") Bucket SAE H Class 0.92 m<sup>3</sup> (1.20 yd<sup>3</sup>)

Shoe width		Operating weight	Ground pressure
Triple Grouser	(Std) 600 mm (2')	20,700 kg (45,636 lb)	0.49 kgf/cm <sup>2</sup>
	800 mm (2' 8")	21,300 kg (46,958 lb)	0.38 kgf/cm <sup>2</sup>

#### **UNDERCARRIAGE**

Chassis are of very robust construction, all welded structures are designed to limit stresses. High-quality material used for durability. Lateral chassis welded and rigidly attached to the undercarriage. Track rollers lubricated for life, idlers and sprockets fitted with floating seals.

Tracks shoes made of induction-hardened alloy with double grouser. Heat-treated connecting pins. Hydraulic track adjuster with shock-absorbing tension mechanism.

#### Number of rollers and track shoes per side

Upper rollers: 2 (Standard Shoes)

Lower rollers: 7 Shoes: 45

Total length of track: 4,065 mm (13' 3")

#### DRIVE

Each track is driven by an independent axial piston motor through a planetary reduction gearbox.

Two levers with control pedals guarantee smooth travel with counterrotation on demand.

#### Travel speed (fast / slow)

5.9 / 3.2 km/h (3.7 / 2.0 mph)

#### Maximum traction force

10,300 / 22,500 kgf (22,708 / 49,604 lbf)

#### Maximum grade

35 (70%)

#### **ENVIRONMENT**

Noise levels comply with environmental regulations (dynamic values).

#### Sound level guarantee

106 DB (A) (2000/14/EC)

#### Cab sound level

75 DB (A) (ISO 6396)

#### **REFILL CAPACITIES**

#### Fuel tank

400 L (105.7 US gal)

#### Cooling system (Radiator capacity)

28.4 L (7.5 US gal)

#### Engine oil

28 L (7.4 US gal)

#### Swing drive

5 L (1.32 US gal)

#### Final drive

(each = Travel Device = travel motor + travel reduction gear)

2 X 4 L (2 X 1.06 US gal)

#### Hydraulic tank

196 L (51.8 US gal)

#### **BUCKET**

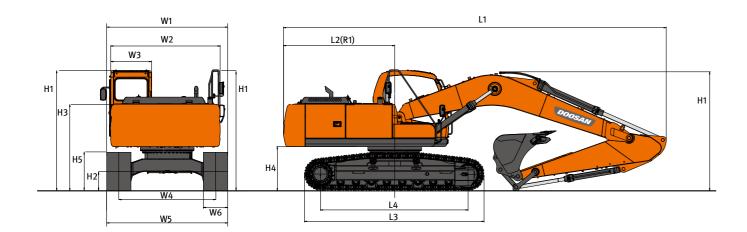
					C/W (ton)	3.8
					SHOE (mm)	600
Bucket Type	Capacity (m³)		Width (mm)		) M/-:	5.7m Boom
	SAE/PCSA	CECE	W/O Cutter	With Cutter	Weight (kg)	2.9m Arm
	0.39	0.35	825	736	345	-
	0.51	0.47	768	722	549	A
GP	0.81	0.72	1,125	1,065	684	A
	0.92	0.81	1,233	1,173	724	В
	1.05	0.92	1,369	1,309	776	С
	0.92	0.80	1,198	1,264	740	В
R1H	1.05	0.90	1,331	1,397	787	C
	1.17	1.03	1,453	1,519	848	D
DC	0.54	0.46	1,800	-	358	-
R1S	1.05	0.92	1,331	1,397	990	D
R2H	0.92	0.83	1,050	1.096	867	В
	1.08	0.97	1,200	1,246	939	D
	1.24	1.11	1,350	1,369	1,011	D
R2H+	1.08	0.97	1,200	1,246	1,033	D
R2S	0.91	0.82	1,050	1,094	1,078	С
	1.07	0.96	1,200	1,244	1,182	D
	Max	ximum load pir	ı-on(payload+bu	icket)		2533

Based on ISO 10567 and SAE J296, arm length without quick change clamp A: Suitable for materials with density of  $2,100 \, \text{kg/m} (3,500 \, \text{lb/yd})$  or less B: Suitable for materials with density of  $1,800 \, \text{kg/m} (3,000 \, \text{lb/yd})$  or less

- C : Suitable for materials with density of 1,500kg/m (2,500lb/yd ) or less
- D : Suitable for materials with density of 1,200kg/m (2,000lb/yd ) or less
- X: Not recommended

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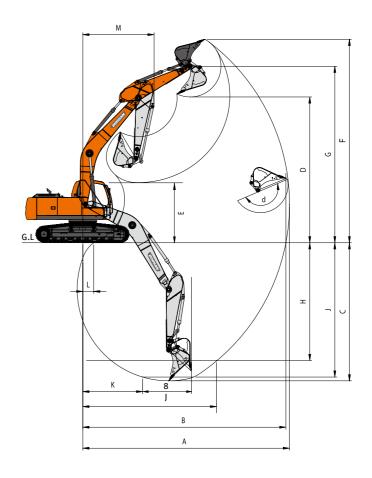
## **DIMENSIONS**



#### **DIMENSIONS**

Model					DX200A-7M
Dimension					STD
	Boom			mm	5,700
	Arm			mm	2,900
	Bucket (PCSA)			m³	0.92
	Undercarriage (Track+Grouser)			mm	STD+TG
	L1	Overall Length		mm	9,570
	L1'	Overall Length w/o Front			4,871
			Boom	mm	2,890
=	H1	Overall Height	Hose	mm	3,005
Overall	"'		Cabin	mm	2,980
0			Hand / Guard Rail	mm	3,190
	W1	Overall Width		mm	2,990
	R1	Rear Swi	ng Radius	mm	2,909
	H2	Ground C	learance*	mm	*450.5
>	W2	House	Width	mm	2,710
Bod	W3	Cabin	Width	mm	1,010
Swing Body	Н3	Height O	ver Cover	mm	2,140
S	H4	Counterweig	ht Clearance*	mm	*1,066
Undercarriage	Н5	Track I	leight*	mm	*883
	L3	Track	Length	mm	4,065
	L4	Tumbler Distance		mm	3,270
		Track Gauge		mm	2,200
	W5	Undercarriage Width	STD / LC	mm	2,800
_	W6	Shoe Width		mm	600
		Grouse	r Height	mm	26

## **WORKING RANGES**



#### **WORKING RANGE**

BOOM LENGTH		mm	5,700
ARM TYPE		mm	(Std.)2,900
BUC	CKET TYPE (SAE / PCSA)	m³	0.92
A MAX.	DIGGING REACH	mm	9,865
B MAX.	DIGGING REACH (GROUND)	mm	9,695
C MAX.	DIGGING DEPTH	mm	6,590
D MAX.	DUMPING HEIGHT	mm	6,830
E MIN. I	DUMPING HEIGHT	mm	2,500
F MAX.	DIGGING HEIGHT	mm	9,620
G MAX.	BUCKET PIN HEIGHT	mm	8,270
H MAX.	VERTICAL WALL DEPTH	mm	5,525
I MAX.	RADIUS VERTICAL	mm	6,415
J MAX.	DIGGING DEPTH (8'LEVEL)	mm	6,395
K MIN. I	RADIUS 8' LINE	mm	2,820
L MIN.	DIGGING REACH	mm	575
M MIN.	SWING RADIUS	mm	3,560
D. BUCK	ET ANGLE (DEG)	0	177

### **STANDARD & OPTION**

#### STANDARD EQUIPMENT

#### Boom & Arm

- 5.7 m Boom
- 2.9 m Arm

#### Hydraulic System

- Boom and arm flow regeneration
- Boom and arm holding valves (MCV)
- Swing anti-rebound valves
- Spare ports (Control valve)
- One-touch power boost

#### Cabin & Interior

- All weather sound suppressed type cab
- Air conditioner & Heater
- Adjustable suspension seat with head rest and adjustable arm rest
- Pull-up type front window and removable lower front window
- Room light
- Intermittent windshield wiper
- Cup holder
- Hot & Cool box
- LCD color monitor panel
- E/G RPM control dialAM/FM radio + MP3 (USB)
- Remote radio ON / OFF switch
- 12 V, 24 V power socket
- Serial communication port for laptop PC interface
- Joystick lever with 3 switches

#### Safety

- Large handrails and step
- Convex metal anti-slip plates
- Seat belt
- Hydraulic safety lock lever
- Safety glass
- Hammer for emergency escape
- Right and left rearview mirrors
- Travel alarm
- Battery protector cover (Optional)

#### Others

- Double element air cleaner
- Additional water separator
- Dry type pre cleaner
- Fuel filter
- Dust screen for radiator / oil cooler
- Engine overheat prevention system
- Engine restart prevention system
- Self-diagnostic system
- 60 A Alternator (24 V, 50 amps)
- Electric horn
- Halogen working lights (frame mounted 1, boom mounted S)
- Hydraulic track adjuster
- Track guards
- Greased and sealed track link
- Hydraulic oil tank air breather filter
- Long & Fixed track

#### **OPTIONAL EQUIPMENT**

Some of optional equipments may be standard in some markets. Some of this optional equipment are not available in some markets. You must check with the local DOOSAN dealer to know about the availability or to release the adaptation following the needs of the applications

#### Safety

- Boom and arm hose rupture protection valve
- Overload warning device
- FOGS (ISO 10262, FOGS standard)
- Cabin Front Upper / Lower Guard
- Travel & swing alarm
- Rotating
- Rear lamp
- Side & Rear view camera
- LED lights

#### Cabin & Interior

- Air suspension seat
- Rain Shield
- High seat Mount
- Breaker pedal
- ROPS / FOGS Cabin
- Cabin front guard (Upper and lower guard)
- Steel roof cover
- Additional mirror
- DAB Audio

#### Others

- Piping option
- Piping for Crusher
- Piping for Breaker
- Fibring for breaker
- Piping for Quick clamp • 600mm / 800mm shoe
- Lower wiper
- 60A / 80A alternator
- Fuel filler pump
- Working Lights
- 4-front / 2-rear on cabin
- 2-front on cabin
- 1 on counterweightHydraulic Oil
- Cold weather (VG32)
- Normal (VG46)
- Tropical weather (VG68)
- Breaker filter
- Dreaker fille
- Water separator with heater
- Short & Fixed track

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