DOOSAN

Construction Equipment

DX200A

Engine Power	172HP@ 2,000rpm
Operational Weight	21,100 kg
Bucket (SAE/PCSA)	0.92~1.17m^3 (1.06 ~ 1.2yd^3)

DOOSAN DX200A HYDRAULIC EXCAVATOR :

EFFICIENT PERFORMANCE

DX200A

WHEN COST-EFFECTIVENESS IS CRITICAL ON YOUR JOBSITE, DX200A IS THE RIGHT ANSWER.

DX200A guarantees you unrivalled fuel efficiency.
See how much you can save with reduced fuel consumption and minimized cycle time.

NEWLY ADDED FEATURE

DX200A

The new DX200A hydraulic excavator has all the advantages of the previous model and now offers additional added value to the operator.

7 INCH MONITOR

- New, user-friendly LCD color monitor with full access to machine settings and maintenance data.
- Operator can see rear view through new monitor (If customer selects rear view camera option)

ADVANCED HD CABIN (OPTIONAL)

- ROPS, FOPS optional
- The latest interior (MP3, Joystick, Air suspension seat, etc.)

TROPICAL HYDRAULIC OIL (ISO VG 68)

- Maintain best performance of your machine by keeping optimum viscosity in tropical area.

ADVANCED FRONT BUSH

- EM bushing (Enhanced Macro-surface)
- Pocket & Dimple surface pattern : Optimized greasing & Trap foreign object
- Wear resistant solid lubricant coating : Noise free & enhanced anti-seizure property
- 30% longer life time than competitors

ADVANCED H-CLASS BUCKET

- Doosan new H-class bucket has the best strength of steel & the optimized design
- Add side cutter / add chamfer and inner plate at member part
- Increase bucket solidity and change casting type

LINE PIPING FOR BREAKER

best performance of your machine

COMPACT & FAST

Doosan's DX200A is 380 mm shorter than the DX225LCA in track length, which makes the DX200A suitable for the small space where LC equipment is too wide to enter.

Undercarriage width :
DX225LCA 2,990mm
DX200A 2,800mm

190mm shorter

Track length :
DX225LCA 4,445mm
DX200A 4,065mm

380mm shorter

ECONOMICS

The Doosan excavator, a combination of four advanced technologies, guarantees a significant reduction of maintenance costs thanks to its exceptionally low rate of fuel consumption.

FUEL EFFICIENCY
↑17% BETTER

FUEL CONSUMPTION
↓15% SAVING

PRE CLEANER

- Install rotor type pre-cleaner (Donaldson Top Spin 5"). So filtering efficiency 20% increased

WATER SEPARATOR

- Fuel water separator filters water in fuel and enhance engine's durability and reduce quality problem caused by water in fuel (Extra Filter + Pre Filter + Main Filter)

ADVANCED UNDERCARRIAGE

Strengthen Sprocket structure and tooth
- Structure to prevent debris

* Option spec info is included to the images contained in this material and may not be the same with the actual specs.

PERFORMANCE & PRODUCTIVITY

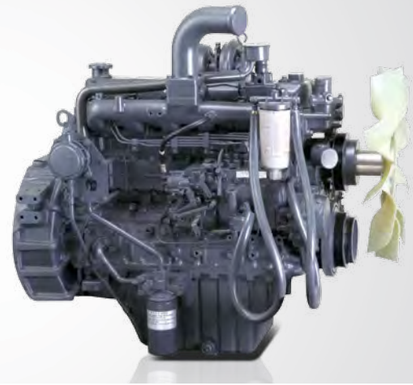
DX200A

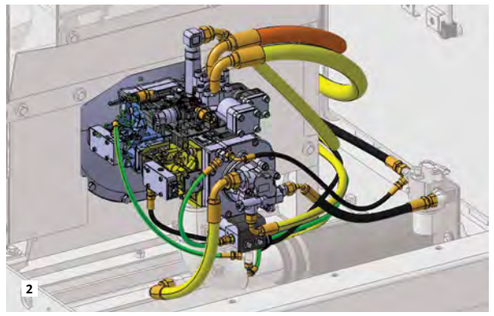
The performance of the DX200A has a direct effect on its productivity. Its new improved engine and new EPOS™ controlled hydraulic system have combined to create an unbeatable hydraulic excavator, with a cost/performance ratio that makes the DX200A even more appealing.

DOOSAN ENGINE(DB58TIS)

Doosan product gives high performance through in-house engine

Doosan engine(In-house) perfectly harmonized with the hydraulic system and provides strong power. Mechanical engine provides high resistance to moisture, dust, and bad fuel quality.
The best engine power in the industry(172HP@2000rpm) provides stable working speed even in the heavy workload situation.





1 SWING DRIVE

Shocks during rotation are minimized, while increased torque is available to ensure rapid cycles.

2 HYDRAULIC PUMP

The Main pump has a capacity of 2 x 222.3 l/min reducing cycle time while a high capacity gear pump improves pilot line efficiency.

3 TRAVEL DEVICE

New design travel device gets more performance by improving efficiency and simplication of the internal structure.

4 NEW OPTION BUCKET FOR MASS PRODUCTION

Newly provide short arm (2.4m) & bucket (0.92m³)

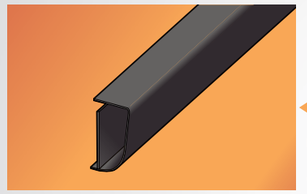
DURABILITY & RELIABILITY

DX200A

DOOSAN uses computer-assisted design techniques, highly durable materials and structures then test these under extreme conditions. Durability of materials and longevity of structures are our first priorities.

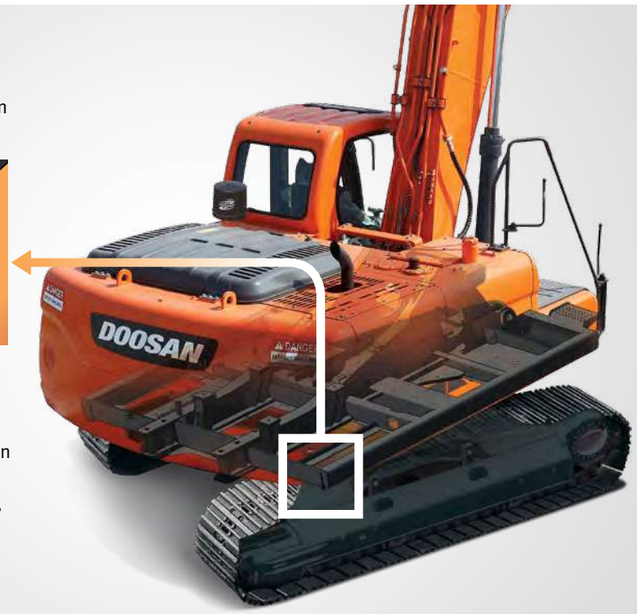
D-TYPE FRAME

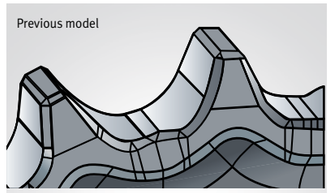
The D-type frame and chassis frame add strength and minimize distortion due to shocks.

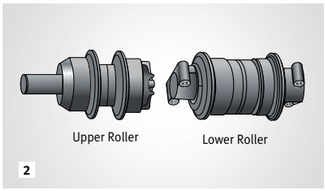


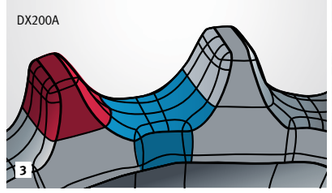
X-CHASSIS

The X-chassis frame section has been designed using finite element and 3-dimensional computer simulation, to ensure greater durability and optimum structural integrity. The swing gear is solid and stable.









1 ADVANCED BUSHING

A highly metal sintered bushing and EM bushing are used for all front pivot points in order to increase the lifetime and durability. Extend the greasing intervals to 250 hours. (except bucket parts)

2 ROLLER

The rollers used in the undercarriage of Doosan equipments feature unparalleled durability. The gaps between the rollers are minimized to prevent foreign materials from entering, and the impact dispersion design further improves the durability.

2 SPROCKET

Doosan equipment is designed with optimal sprocket to move from one jobsite to another. Teeth are thick to prevent breaking and designed in low profile to minimize wear caused by body pitching during traveling.

DOOSAN'S EQUIPMENT IS COATED WITH SUPER DOOSAN ORANGE PAINT

A specially developed paint for enhanced visibility at long distances, the paint provides excellent physical coating properties providing protection in extreme environments. It does not fade in sunlight or UV either. The paint is non-toxic, eco-friendly, and does not have a high metal content. Doosan's management philosophy is committed to environmental protection.

FUEL EFFICIENCY

DX200A

RELIEF CUTOFF

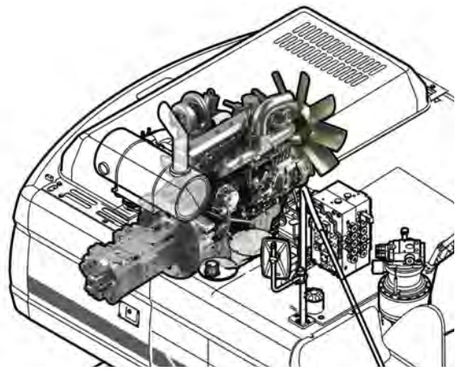
The pump continues to supply flow even when the maximum pressure on the system is reached due to severe working environments and large workloads. Relief cutoff technology of DX200A prevents transfer of unnecessary flow to maintain powerful working level at the maximum value while reducing consumption of fuel.

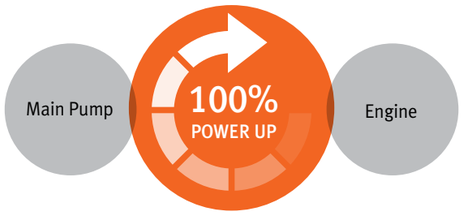
OPTIMIZED LEVER CONTROL & AUTO IDLE

When operator takes a break and leaves the control joystick fixed, both of the engine and the pump are kept in standby mode and prevents unnecessary fuel consumption.

PUMP MATCHING TECHNOLOGY

Engine & pump matching, the new technology of Doosan, fully resolves problems; low respones time of the system, unnecessary fuel consumption. Matching response time between pump and engine efficiently reduces unnecessary fuel consumption as well as exhaust fumes.





OPERATOR COMFORT

DX200A

More space, better visibility, air conditioning with climate control, very comfortable seat. These are the elements that ensure the operator can work in the beest possible conditions. Furthermore, a new, user-friendly colour 7" TFT LCD monitor panel gives full access to machine settings and maintenance data allowing you to work safely and confidently with an accurate overview of all conditions.

MONITOR

3 power modes for maximum efficiency
- Power mode
- Standand mode
- Economy mode

3 work modes to suit your application
- 1-way mode
- 2-way mode
- Digging mode

1 Control panel

2 Navigation modes
- Rearview camera, Display selector

3 Working modes
- Auto-idle & Flow rate control

CONTROL PANEL

A Standard screen

B Anti-theft protection

C Filter/oil information

D Operation history

E Flow rate control

F Contrast control

1 CONTROL LEVER

Levelling operations and the movement of lifted loads in particular are made easier and safer. The control levers have additional electrical buttons for controlling other additional equipment (for example, grabs, crushers, breakers, etc.)

2 SLIDING SEAT

- Comfortable 2-stage sliding seat
- Control stand (Telescopic Function)

AIR CONDITIONING

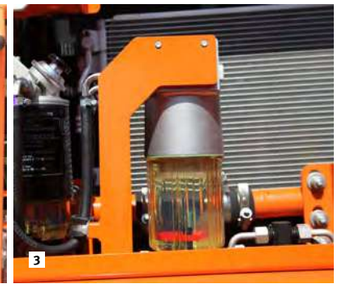
The high performance air conditioning provides an air flow which is adjusted and electronically controlled for the conditions. Five operating modes enable even the most demanding operator to be satisfied.

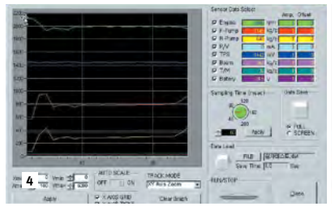
EASY MAINTENANCE

Short maintenance operations at long intervals increase the availability of the equipment on site. DOOSAN has developed the DX200A with a view to high profitability for the user.

EASY MAINTENANCE

Access to the various radiators is very easy, making cleaning easier. Access to the various parts of the engine is from the top and via side panels.





1 ENGINE OIL FILTER

The engine oil filter offers a high level of filtration allowing the oil change interval to be increased to 500 hours. It is easy to access and is positioned to avoid contaminating the surrounding environment.

2 AIR CLEANER

The large capacity forced air cleaner removes over 99% of airborne particles, reducing the risk of engine contamination and making the cleaning and cartridge change intervals greater.

3 WATER SEPARATOR

High efficiency and large capacity water separator protect the engine by removing most moisture from the fuel (additional water separator as strandard)

4 PC MONITORING (DMS)

A PC monitoring function enables connection to the EPOS™ system, allowing various parameters to be checked during maintenance, such as pump pressures, engine rotation speed, etc. and these can be stored and printed for subsequent analysis.

5 PRE CLEANER

Install rotor type pre-cleaner (Donaldson Top Spin 5”).
So filtering efficiency 20% increased

6 CENTRALIZED GREASE INLETS FOR EASY MAINTENANCE

The arm grease inlets are grouped for easy access.

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TELEMATICS SERVICE (OPTIONAL)

TELECOMMUNICATIONS

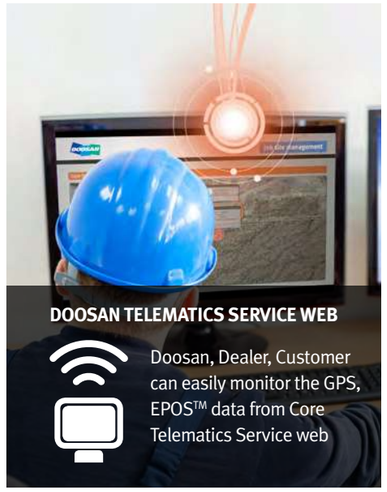
Data flow from machine to web

TELEMATICS SERVICE TERMINAL

Telematics Service terminal is installed to machine / connected to EPOS™

TELECOMMUNICATION

GPS, EPOS™ data is sent to designated server by GSM, Satellite telecommunication

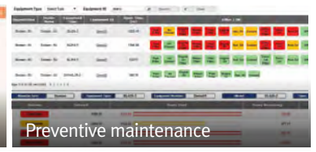


DOOSAN TELEMATICS SERVICE WEB

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

FUNCTIONS

Doosan Telematics Service provides various functions to support your great performance



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

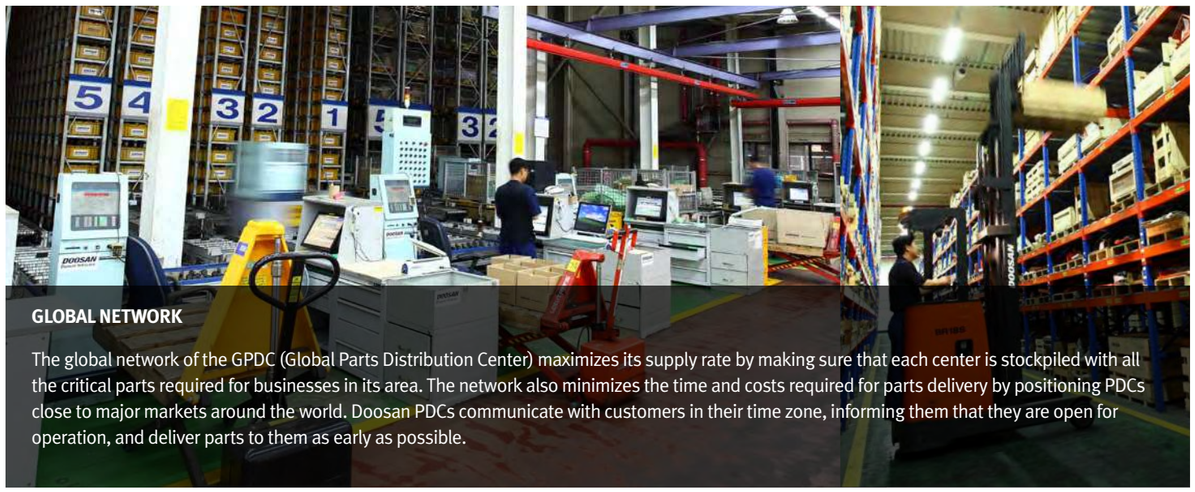
- Utilize quality-related field data
- Apply customer's usage profile to deveping new machine

	FUNCTION	EXCAVATOR	WHEEL LOADER	ADT
GPS	· Location · Geo-fence	All models	All models	All models
E-mail reports	· Daily, Weekly, Monthly report	All models	All models	All models
Operation hours	· Total operation hours · Operation hours by mode	All models Tier 4 only	All models Tier 4 only	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

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

- **Distribution Cost Reduction**
- **Maximum Parts supply rate**
- **Shortest distance/time parts delivery**
- **Real-time service support**
- **Minimum downtime**

ATTACHMENTS

DX200A

Heavy Construction Bucket, which is also called Heavy Duty bucket, is the most commonly used bucket in the construction equipment market and is designed mainly for use in heavy construction but also used in low density mining and quarry application.

General Purpose bucket

which is also called General Purpose bucket, is designed for digging and re-handling soft to medium materials e.g. materials with low wear characteristics such as top-soil, loam, coal.

Heavy Duty bucket

which is also called Heavy Duty bucket, is the most commonly used bucket in the construction equipment market and is designed mainly for use in heavy construction but also used in low density mining and quarry application.

Severe Duty bucket

which is also called Severe Duty bucket. The bucket is designed for use in high density mining and quarry application using high strength and high abrasion resistance materials.
It can be used in the toughest of applications.

Extra Severe Duty Bucket

which is also called X class bucket. The bucket is designed for use in high density mining and quarry application using high strength and high abrasion resistance materials.
It can be used in the toughest of applications.

TOOTH

GD (General Duty) Tooth

Optimized design for Doosan's GP and the new General Construction bucket.
Suitable for machines ranging from 14 to 70 tons. Recommended for general construction and utility loading applications.

HD (Heavy Duty) Tooth

Optimized design for the Heavy Construction bucket. Suitable for machines ranging from 14 to 70 tons.
Recommended for most applications including excavating, trenching, loading and medium density quarries and mining.

SD (Severe Duty) Tooth

Optimized design for the Severe Mining bucket and the Xtreme Mining bucket. Suitable for machines ranging 22 to 70 tons. Recommended for extremely tough quarries and mining application.

BUCKET

General Purpose Bucket

Heavy Duty Bucket

	Capacity (SAE/PCSA)
GENERAL PURPOSE BUCKET	0.81 / 0.92 m^3
HEAVY DUTY BUCKET	0.92 m^3

DEMOLITION

Hydraulic Breaker

Fixed Pulverizer

Rotating Crusher

Multi-Processor

		Model	Weight	Tool diameter	Frequency
HYDRAULIC BREAKER		DXB180H	1,720 kg	140 mm	320~580 BPM
		Model	**Weight**	**Max. Jaw opening**	**Force at Tip**
FIXED PULVERIZER		FP22	1,375 kg	732 mm	54 t
ROTATING CRUSHER		RC22	1,780 kg	732 mm	56 t
MULTI-PROCESSOR	C / D / P / S	MP22	2,040 / 2,050 / 2,210 / 1,880 kg	903 / 797 / 893 / 503 mm	68 / 70 / 64 / 80 t

C : Crushing jaw
D : Demolition jaw
P : Pulverizing jaw
S : Shearing jaw

MATERIAL HANDLING

Stone Grapple

Wood Grapple

Log Grapple

Orange Grapple

		Model	Weight	Max Jaw opening	Max. Closing Force	Capacity
STONE GRAPPLE		SG22	1,235 kg	2,000 mm	-	0.45 m^2
WOOD GRAPPLE	L / P	WG22	1,132 / 1,010 kg	2,000 mm	-	0.62 m^2
LOG GRAPPLE	L / P	LG22	1,280 / 1,250 kg	2,000 mm	-	0.67 m^2
ORANGE GRAPPLE		OG22	1,300 kg	2,150 mm	-	0.5 m^3

L : Link type
P : Pendulum type

EARTH MOVING

Plate Compactor

Ripper

	Model	Weight	Base plate (WxL)	Impulse force
PLATE COMPACTOR	PC22	1,325 kg	860 x 1,200 mm	11.2 t
	Model	**Weight**	**Length**	
RIPPER	RP22	450 kg	1,278 mm	

CONNECTING

Quick Coupler

	Model	Weight	Bucket Pin dia.	Working rage (Pin to Pin)
Quick Coupler	QC22	319 kg	80 mm	445 ~ 514 mm

TECHNICAL SPECIFICATIONS

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 II.

Type

WATER-COOLED, 4-CYCLE DIRECT

Number of cylinders

6

Nominal flywheel power

172HP@2000rpm

Max torque

61.5 kgf.m (603 Nm) @ 1,400 rpm

Piston displacement

5,785 cc (353 cu.in)

Bore & stroke

102 mm x 118 mm

Starter

24 V / 4.5 kW

Batteries

2 x 12 V / 100 Ah

Air cleaner

Double element with auto dust evacuation.

HYDRAURIC SYSTEM

The heart of the system is the EPOS™ (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 Liter/min
Displacement : 2 x 117.0 cc/rev
Weight : 117 kg

Pilot pump

Gear Pump - Max Flow Rate : 28.5 Liter/min
Displacement : 15 cc/rev
Relief valve Pressure : 40 kgf/cm²

Maximum system pressure

Boom/arm/Bucket: 350 kgf/cm²(343 bar)
Travel : 350 kg/cm²
Swing : 270 kgf/cm²(264 bar)

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	120 x 85 x 1,260 mm
Arm	1	135 x 95 x 1,450 mm
Bucket	1	120 x 80 x 1,060 mm

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 ea
Lower rollers : 7 ea
Track shoes : 45 ea
Track length : 4,065 mm

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 counter-rotation on demand.

Travel speed (fast/slow)

3.2 / 5.8 km/hr

Maximum traction force

23.1 / 12.2 ton

Maximum grade

70 %

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.

TYPE : AXIAL PISTON
Swing speed : 11.3 rpm
MAX SWING TORQUE : 6,460 kgf.m

ENVIRONMENT

Noise levels comply with environmental regulations (dynamic values).

Sound level guarantee

103 dB(A) (2000/14/EC)

Cab sound level

73 dB(A) (ISO 6396)

REFILL CAPACITIES

Fuel tank

400 l (105.7 US gal)

Cooling system (Radiator capacity)

24 l (6.3 US gal)

Engine oil

28 l (7.1 US gal)

Swing drive

5 l (1.32 US gal)

Travel device

3.3 l (0.87 US gal)

Oil tank

195 l (63.4 US gal)

WEIGHT

SHOE WIDTH (mm)	GROUND PRESSURE (kgf/cm²)	MACHINE WEIGHT (ton)
STD. 600G	0.48	20,600 kg (45,415 lb)
OPT. 800G	0.37	21,120 kg (46,561 lb)

DIGGING FORCE (ISO)

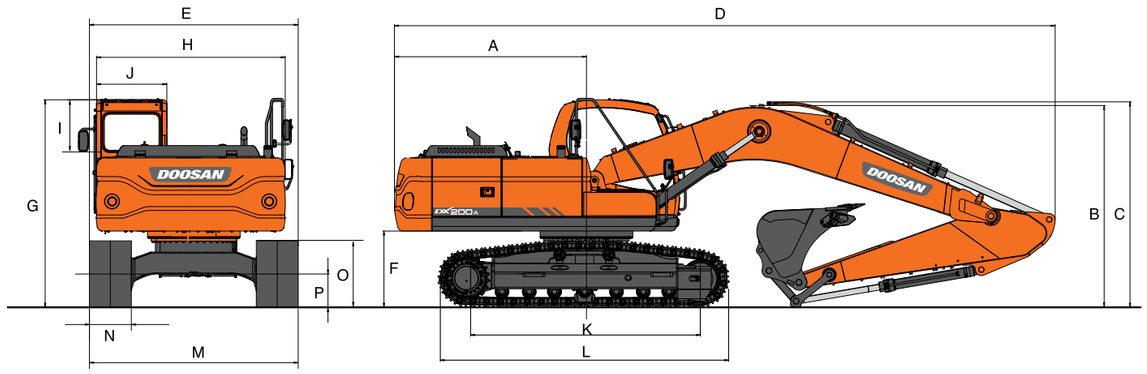
		Boom : 5,700 mm Arm : 2,900 mm Bucket : 0.92 m³ - CW : 3.8 t	Boom : 5,700 mm Arm : 2,400 mm Bucket : 0.92 m³ - CW : 3.8 t	Boom : 5,700 mm Arm : 2,900 mm Bucket : 0.81 m³ - CW : 3.8 t	Boom : 5,700 mm Arm : 2,400 mm Bucket : 0.81 m³ - CW : 3.8 t
Bucket	t	15.2	15.2	15.2	15.2
	kN	151	151	151	151
Arm	t	10.8	12.6	10.8	12.6
	kN	108	125	108	125

BUCKET

					C/W (ton)	3.8	
					SHOE (mm)	600	
Bucket Type	Capacity (m³)		Width (mm)		Weight (kg)	5.7 m Boom	
	SAE/PCSA	CECE	W/O Cutter	With Cutter		2.4 m Arm	2.9 m Arm
General Purpose Bucket	0.81	0.72	1,064	1,126	654	A	A
	0.92	0.81	1,172	1,236	707	A	B

Based on ISO 10567 and SAE J296, arm length without quick change clamp
A : Suitable for materials with density of 2,100kg/m³ (3500lb/yd³) or less
B : Suitable for materials with density of 1,800kg/m³ (3000lb/yd³) or less
C : Suitable for materials with density of 1,500kg/m³ (2500lb/yd³) or less
D : Suitable for materials with density of 1,200kg/m³ (2000lb/yd³) or less
- : Not recommended

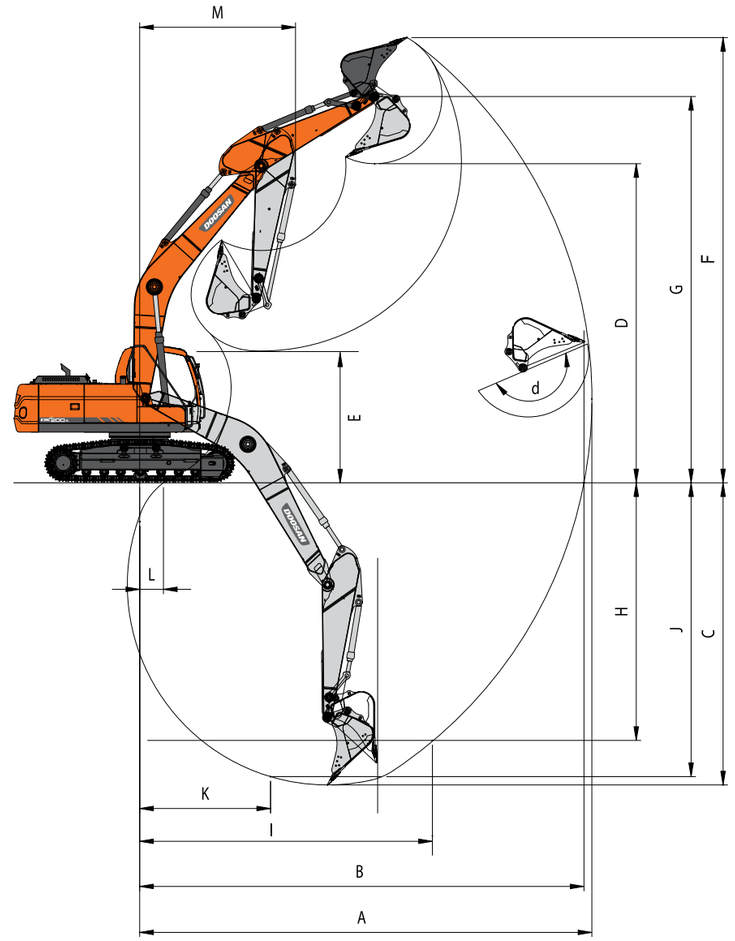
DIMENSIONS



DIMENSIONS

Boom type (One piece)		5,700 mm	
Arm type		2,900 mm	2,400 mm
Bucket type (SAE/PCSA)		0.81 m³	0.92 m³
A	Tail Swing Radius	2,750 mm	←
B	Shipping Height (Boom)	2,940 mm	3,045 mm
C	Shipping Height (Hose)	3,005 mm	3,110 mm
D	Shipping Length	9,485 mm	9,500 mm
E	Shipping Width	2,800 mm	←
F	C/Weight Clearance	1,055 mm	←
G	Height Over CAB.	2,975 mm	←
H	House Width	2,710 mm	←
I	CAB. Height above House	845 mm	←
J	CAB. Width	960 mm	←
K	Tumbler Distance	3,270 mm	←
L	Track Length	4,065 mm	←
M	Undercarriage Width	2,800 mm	←
N	Shoe Width	600 mm	←
O	Track Height	947 mm	←
P	Car Body Clearance	480 mm	←

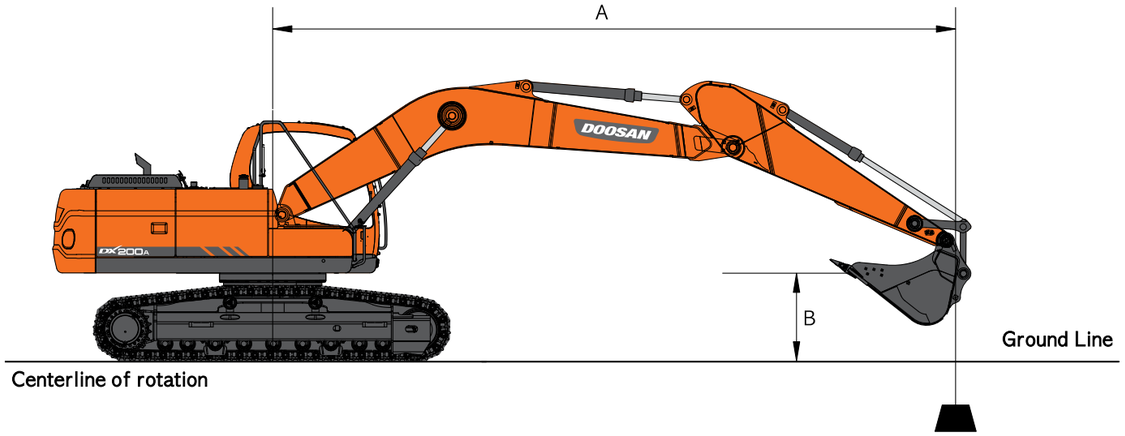
WORKING RANGES

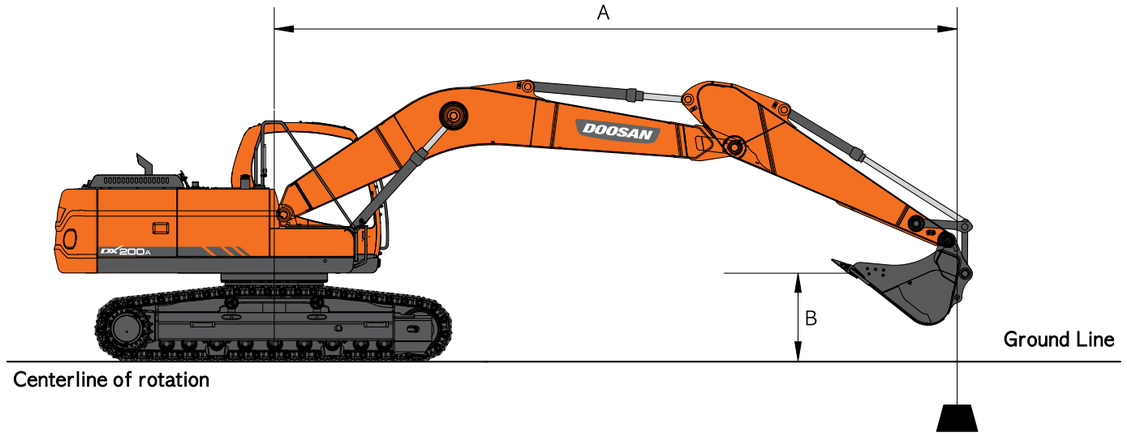


WORKING RANGE

Boom type (One piece)		5,700 mm	
Arm type		2,900 mm	2,400 mm
Bucket type (SAE/PCSA)		0.81 m³	0.92 m³
A	Max. digging reach	9,900 mm	9,480 mm
B	Max. digging reach (ground)	9,730 mm	9,300 mm
C	Max. digging depth	6,620 mm	6,110 mm
D	Max. Loading height	6,990 mm	6,830 mm
E	Min. Loading height	2,555 mm	3,070 mm
F	Max. digging height	9,750 mm	9,630 mm
G	Max. bucket pin height	8,450 mm	8,299 mm
H	Max. vertical wall depth	5,640 mm	5,390 mm
I	Max. radius vertical	6,410 mm	6,050 mm
J	Max. digging to 8' line	6,430 mm	5,910 mm
K	Min. radius 8' line	2,865 mm	2,880 mm
L	Min. digging reach	519 mm	1,698 mm
M	Min. swing radius	3,410 mm	3,410 mm
d	Bucket angle	166 °	166°

LIFTING CAPACITY





STANDARD CONFIGURATION

Boom : 5,700 mm (18'8") Arm : 2,900 mm (9'6") Bucket : SAE/PCSA 0.92 m³ (1.2yd3) CECE 0.8 m³ (1.1yd3) Shoe : 600 mm (2') STD TRACK

Unit : 1,000kg

A(m) / B(m)	1		2		3		4		5		6		7		8		Max. Reach		
																			A(m)
8																	3	3	@5.95
7																	2.82	2.82	@6.86
6											4.02	4.02	3.86	3.18			2.75	2.75	@7.51
5											4.3	4.15	4.11	3.12			2.75	2.39	@7.99
4									5.27	5.27	4.72	3.98	4.35	3.03	3.58	2.34	2.8	2.15	@8.32
3					*10.65	*10.65	*7.60	7.3	6.1	5.11	5.23	3.79	4.43	2.91	3.51	2.27	2.92	2	@8.52
2					*8.55	*8.55	*8.98	6.75	6.93	4.8	5.54	3.6	4.3	2.79	3.43	2.2	3.02	1.91	@8.60
1					*7.27	*7.27	*9.97	6.34	7.18	4.54	5.35	3.43	4.18	2.68	3.36	2.13	3	1.88	@8.56
0 (Ground)			*4.93	*4.93	*8.28	*8.28	10.16	6.12	6.97	4.36	5.21	3.3	4.09	2.59	3.3	2.08	3.05	1.91	@8.40
-1			*7.18	*7.18	*10.09	9.77	10.04	6.02	6.86	4.26	5.13	3.22	4.03	2.54	3.27	2.05	3.2	2.01	@8.11
-2	*8.27	*8.27	*9.39	*9.39	*12.45	9.83	10.03	6.01	6.82	4.23	5.09	3.19	4.01	2.52			3.49	2.19	@7.68
-3	*10.29	*10.29	*11.87	*11.87	*12.31	9.97	*9.56	6.07	6.86	4.26	5.12	3.22	4.05	2.56			3.98	2.51	@7.09
-4			*14.26	*14.26	*10.72	10.19	*8.45	6.21	6.78	4.35	5.22	3.31					4.88	3.1	@6.27
-5					*8.37	*8.37	*6.67	6.43	5.19	4.54							4.96	4.36	@5.14

1. Ratings are based on SAE J1097
2. Load point is the end of arm.
3. * Rated loads are based on hydraulic capacity.
4. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

: Rating Over Front
: Rating Over Side or 360 degree

Option 1

Boom : 5,700 mm (18'8") Arm : 2,400 mm (9'6") Bucket : SAE/PCSA 0.92 m³ (1.2yd3) CECE 0.8 m³ (1.1yd3) Shoe : 600 mm (2') STD TRACK

Unit : 1,000kg

A(m) / B(m)	2		3		4		5		6		7		8		Max. Reach		
																	A(m)
8															*4.18	*4.18	@5.33
7									*4.48	4.23					*3.91	3.84	@6.31
6									*4.50	4.2	*3.89	3.14			*3.80	3.11	@7.03
5							*5.15	*5.15	*4.75	4.1	*4.51	3.1			*3.79	2.68	@7.54
4			*9.25	*9.25	*7.00	*7.00	*5.84	5.34	*5.15	3.94	4.54	3.02			3.67	2.4	@7.89
3					*8.43	7.1	*6.64	5.03	*5.63	3.77	4.43	2.91	3.52	2.29	3.44	2.23	@8.10
2					*9.68	6.61	*7.40	4.75	5.52	3.59	4.31	2.8	3.46	2.23	3.33	2.14	@8.18
1					10.35	6.29	7.15	4.53	5.36	3.45	4.21	2.71	3.4	2.17	3.31	2.11	@8.14
0 (Ground)			*7.25	*7.25	10.18	6.15	7	4.39	5.25	3.35	4.13	2.64			3.38	2.15	@7.97
-1	*7.02	*7.02	*10.03	9.96	10.13	6.11	6.93	4.33	5.19	3.29	4.1	2.61			3.58	2.27	@7.67
-2	*10.04	*10.04	*12.71	10.06	*9.98	6.14	6.93	4.33	5.19	3.29	4.11	2.62			3.94	2.51	@7.21
-3	*13.33	*13.33	*11.43	10.23	*9.12	6.24	7	4.39	5.24	3.34					4.59	2.94	@6.57
-4	*12.02	*12.02	*9.57	*9.57	*7.74	6.41	*6.21	4.52							*5.20	3.76	@5.68
-5					*5.42	*5.42									*4.84	*4.84	@4.39

1. Ratings are based on SAE J1097
2. Load point is the end of arm.
3. * Rated loads are based on hydraulic capacity.
4. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

: Rating Over Front
: Rating Over Side or 360 degree

STANDARD & OPTION

STANDARD EQUIPMENT

Boom & Arm

- 5.7m Boom
- 2.9m Arm

Hydraulic system

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

Cabin & Interior

- Viscous cab mounts
- 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
- Cigarette lighter and ashtray
- Cup holder
- Hot & Cool box
- LCD color monitor panel
- E/G RPM control dial
- AM/FM radio + MP3 (USB)
- Remote radio ON/OFF switch
- 12V spare powers socket
- Serial communication port for laptop PC interface
- Joystick lever with 3 switches
- Sun visor
- Sun roof

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

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
- Alternator (24V, 50 amps)
- Electric horn
- Halogen working lights (frame mounted 1, boom mounted 2)
- Hydraulic track adjuster
- Track guards
- Greased and sealed track link
- Hydraulic oil tank air breather filter
- Short & Fixed track

OPTIONAL EQUIPMENT

Some of optional equipments may be standard in some markets. Some of this optional equipment is 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

Boom & Arm

- 2.4m Arm

Safety

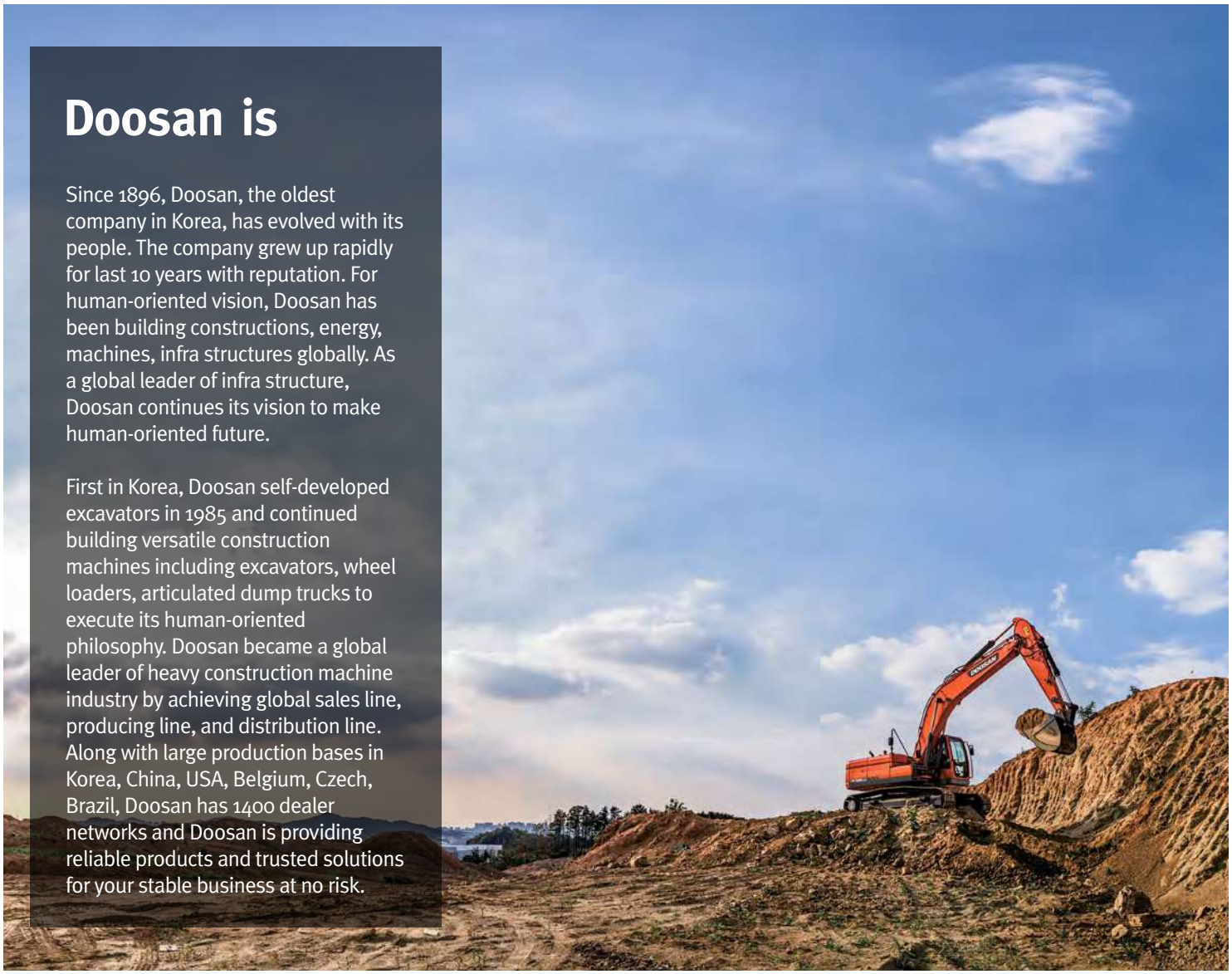
- Overload warning device
- Cabin Top/Front guard (ISO 10262, FOGS standard)
- Travel & swing alarm
- Rotating / Telescopic beacon
- Lock valve
- Rear lamp for number plate

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
- Side mirror

Others

- Piping for crusher Two way
- Piping for quick clamp
- Piping option
  - Breaker with flow control valve - Crusher
  - Crusher with tilting - Rotating
  - Clamshell - Quick Clamp
- 800mm shoe
- Lower wiper
- 60A/80A alternator
- Fuel filler pump
- Working Lights
  - 4-front/2-rear on cabin
  - 2-front on cabin
  - 1 on counterweight
- Noise Kit
- Hydraulic Oil
  - Cold weather (VG32)
  - Normal (VG46)
  - Tropical weather (VG68)
- Breaker filter
- Water separator with heater
- Oil washed pre cleaner
- Heavy duty under cover



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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