

DX 420LCA

Construction Equipment

DX420LCA-K

AS T

Engine Power	(SAE J1349, Net) 203.0 kW @ 2,000 rpm
Operational Weight	42,330 ~ 42,900 kg
Bucket Capacity (SAE/PCS	5A) 1.51 ~ 2.47 m ³

DOOSAN

OPTIMAL DURABILITY AND TOTAL RELIABILITY WITH NEW ENGINE



DOOSAN

The brand new DX420LCA-K is equipped with Doosan's newly developed DX12 engine, which is even more durable than before and will allow you to operate the machine with perfect stability even with the heaviest workloads. The high swing speed and EPOS-driven hydraulic system will also play a crucial part in further boosting your productivity. The use of high-performance materials combined with new methods of structural stress analysis have increased component lifespan and greatly enhanced reliability. With various new options designed for your comfort and safety, including a 7-inch monitor and centralized fuel filtration, this renewed machine will be your most trusted business partner always.

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DX 420LCA

NEWER AND BETTER



1 ADVANCED HD CABIN (OPTIONAL)

ROPS, FOPS cabins are available as optional features. The DX420LCA-K's high-class interior is fitted with a range of innovative new features including MP3, joystick, air suspension seat, etc.



2 7-INCH MONITOR The new, user-friendly LCD color monitor provides a clearer rear view and allows full access to machine settings and maintenance data. (Rear view camera is optional.)



3 ADVANCED H-CLASS BUCKET

The H-class bucket, optimally designed and made of high-strength steel, is offered as a standard feature. A side cutter & chamfer have been added, and an inner plate has been attached.



PRE-CLEANER

The adoption of a rotor type pre-cleaner has increased filtering efficiency.



5 ADVANCED UNDERCARRIAGE

The sprocket structure and tooth have been strengthened to prevent debris and increase durability.



The adoption of pump switch enables easy refueling of the machine after inspection or repair.







Equipped with an all-new engine with greater durability, the DX420LCA-K enables the operator to operate the machine with heavy workloads with optimal stability.



CENTRALIZED FUEL FILTRATIONS

The water separator, pre-fuel filter and main filter are located in one place to provide greater convenience and ease of maintenance, guaranteeing longer engine life as well.





1 WATER SEPARATOR

The fuel water separator filters out water from fuel, enhances the engine's durability, and reduces quality problems caused by the presence of water in fuel (Extra Filter + Pre Filter + Main Filter).

INDUSTRY-LEADING PERFORMANCE AND PRODUCTIVITY

Best-in-Class Productivity with Unparalleled Lifting Capacity and Machine Stability

How the DX420LCA-K performs has a direct impact on productivity. The combination of a newly improved engine and a redesigned EPOS-driven hydraulic system with an attractive cost-performance ratio is unrivalled by any other hydraulic excavators in its class.



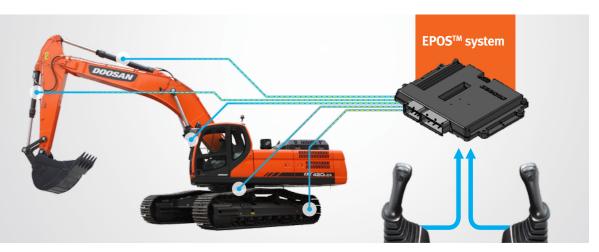
DOOSAN ENGINE-DX12

The DX12 is a whole new mechanical engine built on Doosan's continuously evolving engine technology.

Its quality and durability have been significantly improved against the previous engine, delivering greater maximum engine output through various system improvements, and thereby reducing the engine's workload during machine operation.

Doosan has also improved the engine's components to eliminate any possibility of failure in the field. The improved design and materials of key components such as the engine block, cylinder head and piston has extended the engine's lifespan to a significant extent.

The new engine represents a breakthrough to even greater operational comfort, safety and productivity.



EXCAVATOR CONTROL

Excavator control improved by the New EPOS[™] system As the brain of the hydraulic excavator, the EPOSTM (Electronic Power Optimizing system) has been improved and perfectly synchronized with the newly adopted CAN (Controller Area Network) communication link.







LIFTING CAPACITY

Incomparable Lifting Capacity The counterweight and undercarriage are built on the solid structure of this huge and powerful machine to create the best lifting capacity in its class.

DURABILITY & STABILITY

Manufactured with surprisingly strong materials and structures, the DX420LCA-K is unrivalled in durability and safety, allowing it to pass rigorous performance tests under extreme conditions. Whenever you work in a tough environment, you can count on Doosan's DX420LCA-K.

A -

DX 420LCA

DOOSAN

HEAVY DUTY BOOM & ARM

With its state-of-the-art computer-aided design technology, Doosan's machines are manufactured from highly durable materials and adopted structural design, enabling the machines to pass rigorous performance testing under the harshest conditions.

Center Boss Plate - Size increased

I Arm Back Plate - Reinforced bar

Boom End Bracket - Single piece of casting type

G Arm Bottom Plate - Increase plate thickness

Arm Side Plate - Increased plate thickness 6 Boom Plate decreased width



EM BUSHING

The boom pivot is made with a highly lubricated metal to increase the lifespan and extend greasing intervals to 250 hours.

STABILITY











ABRASION-RESISTANT ARM END DISK

New disks have been adopted to increase wear resistance and service intervals.



INTEGRATED TRACK SPRING AND IDLER

The track spring and idler have been joined directly for even greater durability and improved maintenance convenience.





RELIEF CUTOFF

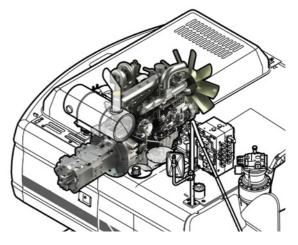


AUTO IDLE



PUMP MATCHING TECHNOLOGY

DX 420LC



DOOSAN's efficient dynamics feature a

"NEW CONTROL LOGIC" FOR GREATER FUEL EFFICIENCY!



DX420LCA-K is equipped with a relief cutoff system that automatically detects excess hydraulic pressure in the cylinder and controls it by redirecting a portion of the hydraulic flow running into the cylinder back to the main pump, thereby eliminating the risk of cylinder damage due to excess pressure.

The Relief Cutoff function ensures that the DX420LCA-K is permanently maintained in the optimal state.

DX420LCA-K is equipped with the Auto Idle function which automatically puts the engine and pump into the Standby mode when it detects a pause during operation. This function helps reduce fuel consumption by lowering idling RPM.





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

Main Pump

100% POWER UP

Engine

OPERATOR COMFORT

More space, wider visibility, better air conditioning, and a very comfortable seat - all these elements allow the operator to work safely and comfortably for long hours in the best possible conditions.

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Levelling operations, the movement of lifted loads and tricky maneuvers are all controlled easily and precisely with the control levers. The buttons integrated into the levers can also be used to operate additional equipment such as grabs, crushers and grapples and to activate the power boost function.

2 SLIDING SEAT

1 REAR VIEW CAMERA (OPTIONAL)



- 3 work modes to suit all your work
- 3 power modes for maximum efficiency

Gauges

- 2 Navigation modes, rear view camera, **Display selector**
- Over the second seco rate control
- Filter/Oil I

CONTROL PANEL

- Standard screen
- Anti-theft protection
- G Flow rate control
- Operation history
- Contrast control
- Filter/oil information



4 AIR CONDITIONING WITH CLIMATE CONTROL

The high-performance air conditioning adjusts and electronically controls the flow of air according to the work conditions. The choice of five operating modes will keep even the most demanding operator happy and satisfied.





Short maintenance operations at long intervals increase the machine's availability onsite at all times. DOOSAN has developed the DX420LCA-K to deliver even higher profitability to the customer.



PRE CLEANER The installation of a rotor type pre-cleaner has increased filtering efficiency by 5~10%.



FUEL PRE-FILTER WITH WATER SEPARATOR

High-efficiency fuel filtration is attained by the use of multiple filters. These include a fuel pre-filter fitted with a water separator that removes moisture, dirt and debris from the fuel. A fuel drain valve has been installed to facilitate maintenance.



AIR FILTER WITH PRE-FILTERED DUST SEPARATOR

The large-capacity forced air cleaner removes over 99% of airborne particles, thereby reducing the risk of engine contamination and further increasing the intervals between cleaning and cartridge replacement.

The pre-cleaning system uses centrifugal force to eliminate dust.



Access to the various radiators is very easy, making cleaning quicker and simpler. The engine parts can be reached easily from the top and side panels.

HYDRAULIC OIL RETURN FILTER

Protection of the hydraulic system has been made more effective by applying glass fiber filter technology to the main oil return filter. More than 99.5% of foreign particles are filtered out, significantly increasing the interval between changes of oil.





NEW BATTERY BOX

DOOSAN

The DX420LCA-K's battery box is designed with a larger anti-slip surface, guaranteeing safe operation even on slippery ground under wet and rainy conditions. In addition, the cutoff switch and spring are situated within easy reach to enable safer and more convenient control of maintenance.









CONVENIENT FUSE BOX

The fuse box is conveniently located in a section of the storage compartment behind the operator's seat to provide a clean environment and easy access.



CAT WALK ADOPTED AS STANDARD FEATURE ON DX420LCA-K

The upper structure features a larger antislip surface for greater safety.



NEW HANDRAIL & GUARDRAIL

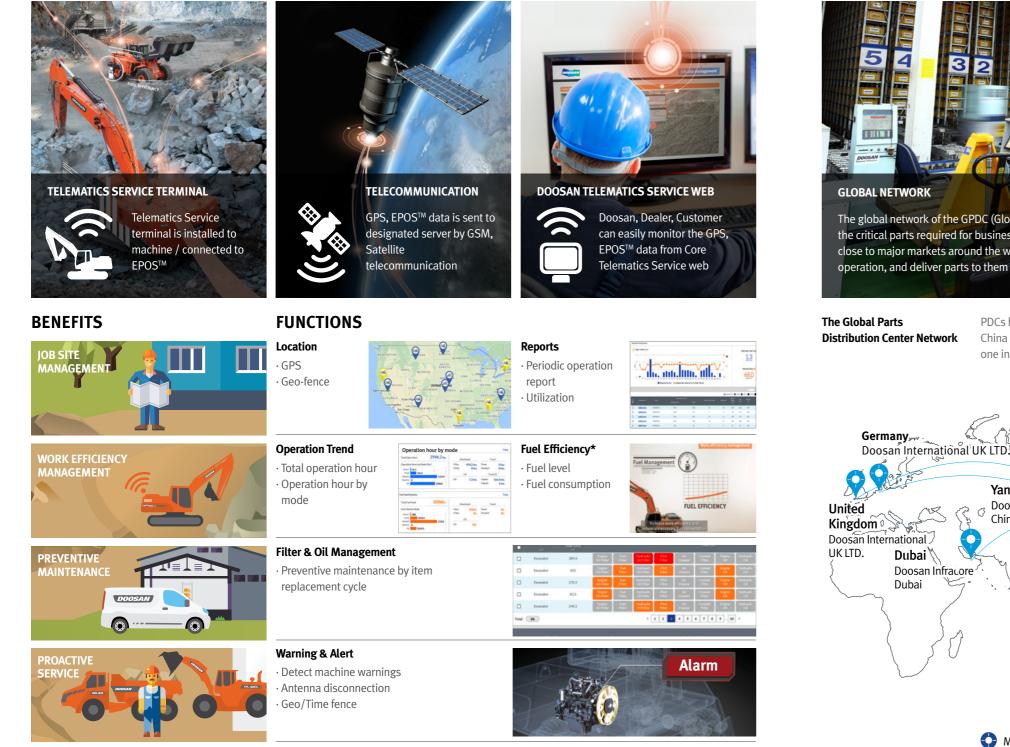
Every guard now has its own handrail, ensuring greater safety during maintenance.



GLOBAL PARTS NETWORK

TELECOMMUNICATIONS

Data flow from machine to web



* Functions may not be applied to all models. Please contact your sales representative to get more information of the service.

TELEMATICS SERVICE BENEFITS

Customer

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

Dealer

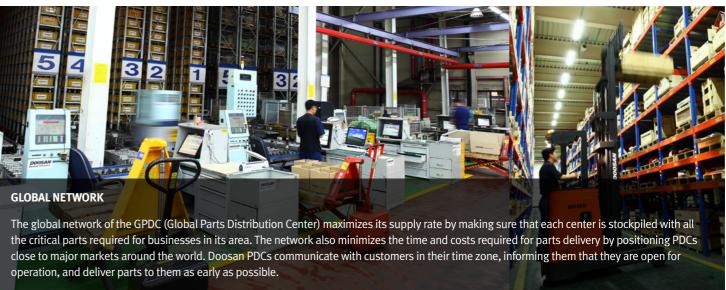
Better service for customers · Provide better quality of service Maintain machine value • Better understanding of market needs

Doosan

Responsive to customer's voice · Utilize guality-related field data · Apply customer's usage profile to developing new machine

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.



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

distance/time parts delivery

downtime

support





supply rate



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 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 re-handling soft to medium materials e.g. construction equipment market and is designed mainly for use in heavy

mining and quarry application.

construction but also used in low density



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.



GD (General Duty) Tooth

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

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 pplication.



		-	
BUCKET	General purpose (G	GP) Rock bucket ((ROCK)
	Model	Suitable excavator	Capacity
General purpose bucket	GP	DX420	1.44 (1,2
ROCK Bucket	ROCK	DX420	1.51 (1,4
Heavy duty bucket	H class	DX420	1.64 (1,2
Severe duty bucket	S class	DX420	1.77 (1,3
Extra severe duty bucket	X class	DX420	1.77 (1,3



DEMOLITION

	Model	Suitable excavator	Weight [kg]	Tool dia. [mm]	Operating pressure [kg/cm ²]	Oil flow [l/min]	Frequency [bpm]
Hydraulic breaker	DXB420	DX420	3,356	165	165~185	200~280	330~600
	Model	Suitable excavator	Weight	[kg]	Crushing Force [t]	Jaw openii	ng width [mm]
Steel shear	SS48	DX420	4,586		626	706	





MATERIAL HANDLING

Orange	orann

	Model	Suitable excavator	Weight [kg]	Capacity [m ³]	Jaw opening width [mm]
Stone grapple	SG42	DX420	2,400	0.78 (m ²)	2,500
Orange grapple	0G42	DX420	2,080	0.8	2,260
Clamshell bucket	CB42	DX420	2,220	1.55	2,385











Heavy duty (H class)

Severe duty (S class) Extra severe duty (X class)

ty (Width) [m³ (mm)] ,273)/1.68 (1,429)/1.90 (1,546.5)/2.16 (1,745) ,497) ,290)/1.92 (1,464)/2.14 (1,600)/2.47 (1,804) ,364)/2.02 (1,518) ,384)



Clamshell bucket

Weight [kg] 820	Pin dia. [mm] 110
Weight [kg]	Shank thickness [mm]
1,150	130

TECHNICAL SPECIFICATIONS

ENGINE

Model

Doosan DX12TI Water-cooled, Turco-charged, Mechanical governor

Number of cylinders

Rated horse power

218.0 kW @ 2,000 rpm (SAE J1995, Gross) 203.0 kW @ 2,000 rpm (SAE J1349, Net)

Max torque

127 kgf.m @ 1,300 rpm

Idle (low - high)

1,000[+/-25] - 2,050[+ 50] rpm

Piston displacement

11.1 l

Bore x stroke

Ø 123 mm x 155 mm

Starter

24 V / 7.0 kW

Batteries 2 x 12 V / 150 Ah

Air filter

Double element

HYDRAULIC CYLINDERS

Piston rods and cylinder bodies of high-strength steel. Shock-absorbing mechanism fitted in all cylinders for shock-free operation and extended piston life.

Cylinders	Quantity	Bore x Rod diameter x stroke
Boom	2	165 x 115 x 1,460
Arm	1	180 x 120 x 1,820
Bucket	1	160 x 110 x 1,320

ARM DIGGING FORCES

Model	Arm	Length (mm)	Weight (kg)	Digging Force (ton)
	HD Arm	3,250	1,593	[SAE] 19.5/21.3 [ISO] 18.4/20.2
	Short Arm 1	2,600	1,362	[SAE] 24.2/16.5 [ISO] 22.8/25.0
DX420LCA-K	Short Arm 2	2,950	1,486	[SAE] 21.6/23.7 [ISO] 20.5/22.4
	Long Arm	3,950	1,765	[SAE] 16.8/18.4 [ISO] 16.0/17.5

BUCKET DIGGING FORCES

Dushet Ture		y (m³)	Width	(mm)	Digging Force	
Bucket Type	SAE/PCSA	CECE	With Cutter	W/O Cutter	(NOM./Press.up, ton)	
	1.29	1.44	1,273	1,192		
GP	1.5	1.68	1,429	1,348	[SAE] 22.5/24.6	
GP	1.7	1.9	1,547	1,466	[ISO] 25.2/27.6	
	1.92	2.16	1,745	1,664		
ROCK	4.24				[SAE] 21.1/23.9	
	1.31	1.51	-	1,498	[ISO] 25.2/27.6	
	1.48	1.64	1,290	1,256		
H Class	1.72	1.92	1,464	1,430	[SAE] 23.3/25.5	
n class	1.91	2.14	1,600	1,566	[ISO] 26.0/28.5	
	2.21	2.47	1,804	1,770		
S Class	1.6 1.77		1,364	1,364	[SAE] 22.9/24.3	
5 Class	1.81	2.02	1,518	1,518		
X Class	1.6	1.77	1,384	1,384	[ISO] 25.8/27.3	

HYDRAULIC SYSTEM

The brain of the excavator is the EPOSTM (Electronic Power Optimizing System). It allows the efficiency of the hydraulic system to be optimised for all working conditions and minimises fuel consumption. The EPOSTM is connected to the engine's electronic control unit (ECU) via a data transfer link to harmonise 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
- Cross-sensing pump system for fuel savings
- Auto deceleration system
- Three operating modes, three power modes
- Button control of flow in auxiliary hydraulic circuits
- Computer-aided pump flow control

Main pumps

Parallel, Bentaxis, Piston Max. flow : 2 x 315 l/min

Pilot pump

Gear Max. flow : 27.4 l/min

Relief valve pressure : 40 kgf/cm²

Maximum system pressure Main Relief Valve Pressure : 320/350 kgf/cm² Travel Crossover Relief Valve Pressure : 350 kgf/cm² Swing Crossover Relief Valve Pressure : 280 kgf/cm²

SWING MECHANISM

- · High-torque, axial piston motor with planetary reduction gear bathed in oil
- Swing circle is a single-row, shear type ball bearing with induction-hardened
- orqu 13,510 Kg

UNDERCARRIAGE

Very robust construction of all chassis elements. All welded structures designed to limit stresses. High-quality, durable materials. Lateral chassis welded and rigidly attached to undercarriage. Track rollers lubricated for life. Idlers and sprockets fitted with floating seals. Track shoes made of induction-hardened alloy with triple grouser. Heat-treated connecting pins. Hydraulic track adjuster with shock-absorbing tension mechanism.

Number of rollers and track shoes per side

Upper rollers (standard shoe) : 2 Lower rollers:9 Track shoes : 50

DRIVE

Each track is driven by an independent, high-torque axial piston motor through a planetary reduction gearbox. Two levers or foot pedals guarantee smooth travel with counter-rotation on demand.

Travel speed (High / low)

5.5/3.3 km/h Maximum traction force

33.7/18.0 ton

Gradeability

70%

					Track STD track							
BUCKET					C/W (ton)		8	.0			10.0	
DUCKLI					Shoe (mm)		60	00			600	
Bucket	Capacit	ty (m³)	Width	(mm)	Waint		6.7m H	D Boom		6	.7m HD Booi	m
type	SAE/PCSA	CECE	With cutter	W/O cutter	Weight (kg)	2.6m Arm	2.95m Arm	3.25m HD	3.95m Arm	2.6m Arm	2.95m Arm	3.25m HD
GP	1.51	1.31	1,497	N/A	1,,623	А	A	A	A	А	A	A
ROCK	1.68	1.50	1,310	N/A	1,019	Х	Х	Х	Х	Х	Х	Х
	1.64	1.48	1,256	1,290	1,575	А	A	A	A	А	A	A
H Class	1.92	1.72	1,430	1,464	1,701	А	A	В	C	А	A	A
II CLASS	2.14	1.91	1,566	1,600	1,829	В	В	C	D	Α	A	В
	2.47	2.20	1,770	1,804	1,976	С	C	D	D	В	В	С
S Class	1.77	1.59	1,364	1,364	2,150	А	A	В	C	А	A	A
5 CldSS	2.02	2.64	1,518	1,518	2,284	В	C	C	D	Α	В	В
X Class	1.77	1.59	1,364	1,384	2,349	Α	В	С	C	A	A	В
	Ν	Maximum lo	ad pin-on (p	ayload + bu	cket) (mm)	6,219	5,918	5,512	5,039	7,206	6,864	6,426

his bucket recommendation is based on machine stability considering the tipping load with certain density of handling material, and should be strictly followed. It's more recommendable to use a smaller size of bucket than recommendation under the severe working condition and application to avoid the durability risks.

Based on ISO 10567 and SAE J296, arm length without quick change clamp

A : Suitable for materials with density of 2,100 kg/m³ (3,500 lb/yd³) or less

B : Suitable for materials with density of 1,800 kg/m³ (3,000 lb/yd³) or less

C : Suitable for materials with density of 1,500 kg/m3 (2,500 lb/yd3) or less D : Suitable for materials with density of 1,200 kg/m³ (2,000 lb/yd³) or less

-: Not recommended

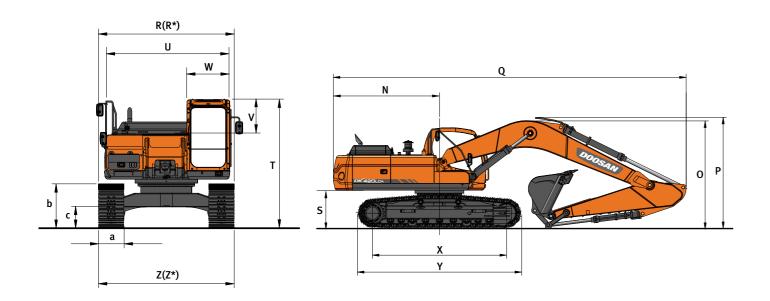
internal gear
 Internal gear and pinion immersed in lubricant
 Max. Swing speed - 9.1 rpm
Max. Swing Torque - 13,510 kgf.m

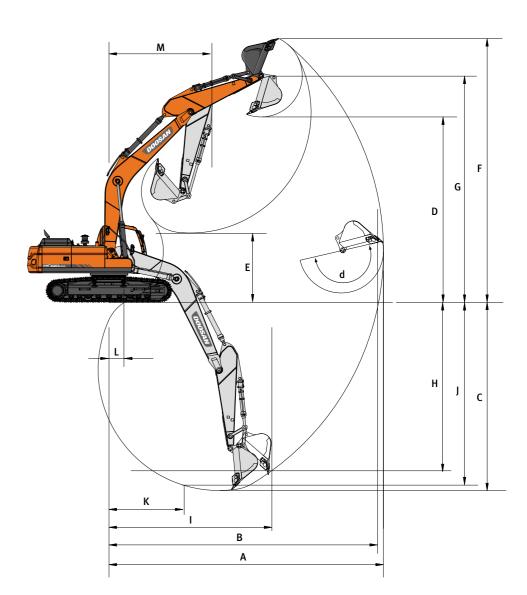
REFILL CAPACITIES

Fuel tank	
6201	
Cooling system (radiator capacity	y)
44.7 l	
Engine oil	
311	
Swing drive	
2x4l	
Final drive	
2 x 10 l	
Hydraulic tank	
550 l	

DIMENSIONS

WORKING RANGES





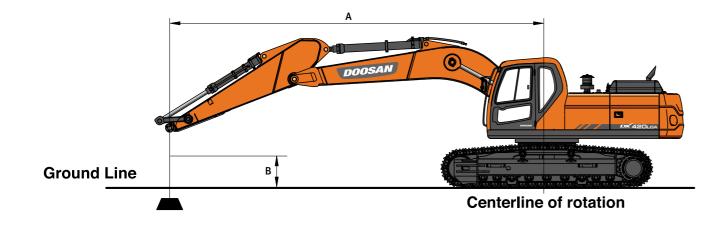
DIMENSIONS

Boom type	(mm)			6,7	700						
Arm type	(mm)		3,250	2,950	2,600	3,950					
Bucket type (SAE/PCSA)	(m³)		1.92H	1.92H	2.14H	1.64H					
Shoe type	(mm)			600 TG							
Tail swing radius	(mm)	N	3,660	←	←	←					
Shipping height (Boom)	(mm)	0	3,350	3,570	3,580	3,390					
Shipping height (Hose)	(mm)	Р	3,450	3,660	3,680	3,495					
Shipping length	(mm)	Q	11,660	11,740	11,770	11,660					
Shipping width (Std.)	(mm)	R	3,350	←	<i>←</i>	+					
C/Weight clearance	(mm)	S	1,230	←	←	+					
Height over cab.	(mm)	Т	3,170	←	←	+					
House width	(mm)	U	2,990	←	<i>←</i>	+					
Cab. Height above house	(mm)	V	853	←	<i>←</i>	+					
Cab. Width	(mm)	w	1,010	←	<i>←</i>	←					
Tumbler distance	(mm)	Х	4,250	←	<i>←</i>	+					
Track length	(mm)	Y	5,200	←	←	←					
Undercarriage width (Std.)	(mm)	Z	3,350	←	<i>←</i>	←					
Shoe width	(mm)	a	600	←	<i>←</i>	←					
Track height	(mm)	b	1,070	←	<i>←</i>	←					
Car body clearance	(mm)	с	510	←	←	←					

WORKING RANGES

Boom type (One piece)	(mm)			700		
Arm type	(mm)		3,250	2,950	2,600	3,950
Bucket type (PCSA)	(m³)		1.92H	1.92H	2.14H	1.64H
Max. Digging reach	(mm)	A	11,495	11,200	10,880	12,170
Max. Digging reach (Ground)	(mm)	В	11,290	10,985	10,660	11,980
Max. Digging depth	(mm)	С	7,730	7,430	7,080	8,430
Max. Loading height	(mm)	D	7,795	7,615	7,460	8,200
Min. Loading height	(mm)	E	3,050	3,330	3,700	2,340
Max. Digging height	(mm)	F	10,920	10,725	10,560	11,350
Max. Bucket pin height	(mm)	G	9,520	9,340	9,190	9,930
Max. Vertical wall depth	(mm)	н	4,350	7,430	3,650	5,140
Max. Radius vertical	(mm)	1	9,440	9,315	9,170	9,700
Max. Depth to 8' line	(mm)	J	7,570	7,245	6,880	8,290
Min. Radius 8' line	(mm)	К	3,490	3,465	3,460	3,530
Min. Digging reach	(mm)	L	820	1,790	2,390	-200
Min. Swing radius	(mm)	м	4,380	4,405	4,380	4,440
Bucket angle	(deg)	d	177	←	←	~

LIFTING CAPACITY



STANDARD

Metric

🔪 A(m)		3	4	.5	6		7.5			9	Max. Reach		
(m)	ł	(F a	Ъ	(Ha	Ъ	(6	(F a	4	H	4	H	A(m)
9											11.50 *	11.50 *	5.98
7.5					11.11 *	11.11 *					10.81 *	8.57	7.39
6					12.02 *	11.88	10.85 *	8.26			10.60 *	6.93	8.29
4.5			18.08 *	17.33	13.64 *	11.21	11.54 *	7.96			9.68	6.08	8.84
3					15.40 *	10.49	12.28	7.6	9.24	5.75	9.06	5.64	9.11
1.5					16.65 *	9.95	11.94	7.29	9.08	5.61	8.89	5.5	9.13
0			18.08 *	14.8	16.51	9.67	11.72	7.1			9.16	5.63	8.89
-1.5			21.28 *	14.88	16.44 *	9.62	11.67	7.06			9.98	6.11	8.37
-3	23.27 *	23.27 *	18.86 *	15.15	14.79 *	9.77	11.19 *	7.22			11.12 *	7.2	7.52
-4.5	17.93 *	17.93 *	14.72 *	14.72 *	11.10 *	10.2					10.49 *	9.79	6.19

1. Load point is the end of the arm.

2. Capacities marked with an asterisk (*) are limited by hydraulic capacities.

3. Lift capacities shown do not exceed 75 % of minimum tipping loads or 87 % of hydraulic capacities.

4. The least stable position is over the side.

The total state position is over iterated.
 Lift capacities apply only to the machine as originally manufactured and normally equipped by the manufacturer.
 The total mass of Machine is 40,331 kg included in this mass boom 6.7 m, arm 2.6 m, 8,000 kg coutnerweight, 2 kg bucket,

all operating fluids and a 75 kg operator.

7. Lift capacities are in compliance with iso 10567.

OPTION 1

Metric

Boom : 6,700 mm (21' 11") Arm : 2,950 mm (9' 8") Bucket : Without bucket shoe : 600 mm (24")

A(m)	3		4.5		6		7.5		9		Max. Reach		
B(m)	ľ	H	Ъ	H	ч	H	Ъ	H	Ъ	H	4	H	A(m)
9											10.66 *	10.66 *	6.46
7.5							10.12 *	8.43			10.16 *	7.88	7.78
6					11.39 *	11.39 *	10.35 *	8.3			10.01 *	6.47	8.63
4.5			16.98 *	16.98 *	13.05 *	11.3	11.11 *	7.98	9.4	5.9	9.11	5.7	9.17
3					14.90 *	10.56	12.05 *	7.6	9.22	5.73	8.55	5.3	9.43
1.5					16.32 *	9.96	11.92	7.27	9.03	5.56	8.39	5.16	9.45
0			19.88 *	14.7	16.47	9.62	11.66	7.04	8.91	5.45	8.61	5.27	9.22
-1.5	14.62 *	14.62 *	21.79 *	14.72	16.35	9.52	11.57	6.96			9.32	5.69	8.72
-3	24.95 *	24.95 *	19.62 *	14.95	15.20 *	9.62	11.68	7.05			10.75 *	6.6	7.91
-4.5	20.11 *	20.11 *	15.91 *	15.41	12.20 *	9.96					10.42 *	8.65	6.66

1. Load point is the end of the arm.

2. Capacities marked with an asterisk (*) are limited by hydraulic capacities.

3. Lift capacities shown do not exceed 75 % of minimum tipping loads or 87 % of hydraulic capacities.

4. The least stable position is over the side.

5. Lift capacities apply only to the machine as originally manufactured and normally equipped by the manufacturer.

6. The total mass of Machine is 40,455 kg included in this mass boom 6.7 m, arm 2.95 m, 8,000 kg coutnerweight, 2 kg bucket,

all operating fluids and a 75 kg operator. 7. Lift capacities are in compliance with iso 10567.

Ground Line

OPTION 2

Metric

Boom : 6,700 mm (21' 11") Arm : 2,600 mm (8' 6") Bucket : Without bucket shoe : 600 mm (24")

A(m)	3		4.5			6		7.5		9		Max. Reach			
B(m)	Ъ	(F a	ľ	(F a	5	(Ъ	(]	-	(F a	Ъ	(F a	A(m)		
9											11.50 *	11.50 *	5.98		
7.5					11.11 *	11.11 *					10.81 *	8.57	7.39		
6					12.02 *	11.88	10.85 *	8.26			10.60 *	6.93	8.29		
4.5			18.08 *	17.33	13.64 *	11.21	11.54 *	7.96			9.68	6.08	8.84		
3					15.40 *	10.49	12.28	7.6	9.24	5.75	9.06	5.64	9.11		
1.5					16.65 *	9.95	11.94	7.29	9.08	5.61	8.89	5.5	9.13		
0			18.08 *	14.8	16.51	9.67	11.72	7.1			9.16	5.63	8.89		
-1.5			21.28 *	14.88	16.44 *	9.62	11.67	7.06			9.98	6.11	8.37		
-3	23.27 *	23.27 *	18.86 *	15.15	14.79 *	9.77	11.19 *	7.22			11.12 *	7.2	7.52		
-4.5	17.93 *	17.93 *	14.72 *	14.72 *	11.10 *	10.2					10.49 *	9.79	6.19		

1. Load point is the end of the arm.

2. Capacities marked with an asterisk (*) are limited by hydraulic capacities.

3. Lift capacities shown do not exceed 75 % of minimum tipping loads or 87 % of hydraulic capacities. 4. The least stable position is over the side.

The total state position is over the state.
 Lift capacities apply only to the machine as originally manufactured and normally equipped by the manufacturer.
 The total mass of Machine is 40,331 kg included in this mass boom 6.7 m, arm 2.6 m, 8,000 kg coutnerweight, 2 kg bucket,

all operating fluids and a 75 kg operator.

7. Lift capacities are in compliance with iso 10567.

OPTION 3

Metric

Boom : 6,700 mm (21' 11") Arm : 3,950 mm (12' 11") Bucket : Without bucket shoe : 600 mm (24")

A(m)	1.5		3		4.5			6	7.	.5	9			Max. Reach	ı
B(m)	Ъ	(He	4	(Ъ	(He	Ъ	(He	4	(F P	Ъ	(He	Ъ	(†	A(m)
9									8.41 *	8.41 *			7.19 *	7.19 *	7.81
7.5									8.54 *	8.54 *			6.76 *	6.32	8.92
6									9.01 *	8.53	8.67 *	6.18	6.60 *	5.36	9.68
4.5							11.33 *	11.33 *	9.91 *	8.16	9.07 *	6	6.65 *	4.8	10.15
3					18.09 *	16.81	13.37 *	10.86	11.01 *	7.72	9.28	5.76	6.88 *	4.49	10.39
1.5					21.34 *	15.34	15.19 *	10.1	11.97	7.29	9.01	5.52	7.18	4.37	10.40
0			8.98 *	8.98 *	22.51 *	14.6	16.33 *	9.58	11.6	6.96	8.8	5.33	7.31	4.42	10.19
-1.5	10.25 *	10.25 *	14.06 *	14.06 *	22.55 *	14.36	16.15	9.32	11.39	6.78	8.7	5.23	7.76	4.69	9.75
-3	15.52 *	15.52 *	20.22 *	20.22 *	21.21 *	14.43	15.98 *	9.29	11.36	6.75	8.74	5.28	8.7	5.25	9.03
-4.5	21.70 *	21.70 *	25.40 *	25.40 *	18.59 *	14.74	14.19 *	9.46	10.77 *	6.92			9.65 *	6.41	7.97
-6			18.42 *	18.42 *	13.95 *	13.95 *	10.22 *	9.95					9.16 *	9.15	6.38

1. Load point is the end of the arm.

2. Capacities marked with an asterisk (*) are limited by hydraulic capacities.

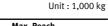
3. Lift capacities shown do not exceed 75 % of minimum tipping loads or 87 % of hydraulic capacities.

4. The least stable position is over the side.

5. Lift capacities apply only to the machine as originally manufactured and normally equipped by the manufacturer.

6. The total mass of Machine is 40,734 kg included in this mass boom 6.7 m, arm 3.95 m, 8,000 kg coutnerweight, 2 kg bucket,

all operating fluids and a 75 kg operator. 7. Lift capacities are in compliance with iso 10567.

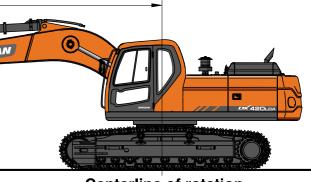


: Rating Over Front

: Rating Over Front

🚰 : Rating Over Side or 360 Degree

🚰 : Rating Over Side or 360 Degree



Centerline of rotation

Unit : 1,000 kg

: Rating Over Front

🚰 : Rating Over Side or 360 Degree

Unit : 1,000 kg



🚰 : Rating Over Side or 360 Degree

STANDARD & OPTION

STANDARD EQUIPMENT

Boom & Arm

- 6.7 m Boom (Heavy duty)
- 3.25 m Arm (Heavy duty)

Hydraulic system

- Boom and arm flow regeneration
- Boom and arm holding circuit
- 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
- \bullet Adjustable suspension seat with head rest and adjustable arm rest
- \bullet Pull-up type front window and removable lower front window
- Room light
- Intermittent windshield wiper
- Cigarette lighter and ashtray
- Cup holder
- Hot & Cool box
- 7 inch LCD color monitor panel
- E/G RPM control dial
- AM/FM radio + MP3 (USB)
- Remote radio ON/OFF switch
- 12 V 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
- Battery protector cover

Others

- Double element air cleaner
- 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 (24 V, 60 amps)
- Electric horn
- Halogen working lights (frame mounted 1, boom mounted 2)
- Hydraulic track adjuster
- Track guards
- Greased and sealed track link
- Air breather filter of hydraulic oil tank

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

- 2.6 m Arm
- 2.95 m Arm
- 3.95 m Arm

Safety

- Boom and arm hose rupture protection valve
- Overload warning device
- Cabin Top/Front guard (ISO 10262, FOGS standard)
- Travel & swing alarm
- Rotating/Telescopic beacon
- Rear view camera
- Rear lamp for number plate

Cabin & Interior

- Air suspension seat with heater
- Rain Shield
- High seat Mount
- Breaker pedal
- ROPS/FOGS Cabin
- Cabin front guard (Upper and lower guard)
- Steel roof cover
- Side mirror
- EMI Filter

Others

- Piping for crusher
- Piping for quick clamp
- Piping option
- Breaker with flow control valve Crusher
- Crusher with tilting Rotating
- Clamshell Quick clamp
- Two pumps flow for attachment line
- 600 mm/750 mm/800 mm/900 mm shoe
- Lower wiper
- Fuel heater
- 80A alternato
- Fuel filler pump
- Electric fuel transfer pump
- Working lights
- 4-front/2-rear on cabin
- 2-front on cabin
- 1 on counterweight
- Counterweight (6.6 Ton)
- Hydraulic oil
- Cold weather (VG32)
- Normal (VG46)
- Tropical weather (VG68)
- Full length track guard
- Breaker filter
- Water separator with heater
- Oil washed pre cleaner
- Heavy duty under cover
- Cold weather starting kit
- 110/220 V Plug heater
- Diesel-Powered engine block heater
- Lever pattern change (ISO/BHL)
- Telematics system

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, Czech, Brazil, Doosan has 1400 dealer networks and Doosan is providing reliable products and trusted solutions for your stable business at no risk.





Doosan Infracore Korea Office (HQ) 27F, Doosan Tower, 275, Jangchungdan-ro, Jung-gu, Seoul, Korea(04563) www.doosaninfracore.com/ce/

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