DOOSAN

Construction Equipment

DX225LC

Engine Power	SAE J1349, net 110 kW (148 HP) @ 1,900 rpm
	SAE J1349, net 103 kW (138 HP) @ 1,900 rpm, Tropical region
Operational Weight	21,500 kg (47,399 lb)
Bucket Capacity (SAE/PCSA)	0.51 ~ 1.51 m^3 (0.67 ~ 1.98 yd^3)

DOOSAN DX225LC HYDRAULIC EXCAVATOR :

A NEW MODEL WITH NOVEL FEATURES

DX225LC

THE NEW DX225LC HYDRAULIC EXCAVATOR HAS ALL THE ADVANTAGES

The new DX225LC hydraulic excavator has all the advantages of the previous model, and now offers additional added value to the operator. The key phrase used during the development of the DX225LC was “giving optimum value to the end user.

1. HEAVY-DUTY SPECIFICATION TO GUARANTEE MACHINE UPTIME

- Heavy duty boom & arm
- 3 stages fuel filtering system with larger capacity water-separator.
- Dry type pre air cleaner added to Air filtering system has made engine more adaptable to dusty area.

2. ENHANCE EASY ACCESS TO ALL COMPARTMENT

- In-house built engine is easy to fix due to simple structure
- Filter locations are easily accessible at ground level

3. BEST WORK EFFICIENCY

- Provide 3 working mode
- Operator can select proper working mode for best productivity

NEWLY ADDED FEATURE

DX225LC

7 INCH MONITOR

- New, user-friendly LCD color monitor with full access to machine settings and maintenance data.
- Rear camera(optional) and large side mirrors enhance operator's visibility.

TROPICAL HYDRAULIC OIL (ISO VG 68)

- Maintain best performance by keeping optimum viscosity in tropical region.

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 steel bush

ADVANCED H-CLASS BUCKET

- Doosan new H-class bucket designed for higher productivity.
- Newly designed side cutter and abrasion resistant steel increase bucket solidity.

HEAVY-DUTY FRONT

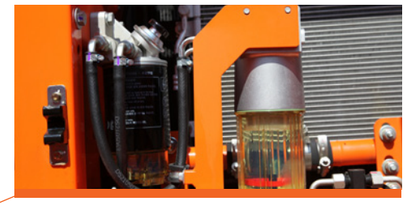
- Reinforced castings and forged steel pivot points and reinforced heavy-duty arm and boom to withstand high-impact materials.
- To better protect the base of the arm, reinforced bars have been added and the arm center and end boss have been strengthened.

ROPS CERTIFIED CABIN (OPTIONAL)

- One of the most spacious cabs in the market, with low noise & vibration levels and excellent all-round visibility.
- Fully adjustable suspension seat, air conditioning with climate control as standard.

PRE CLEANER

- Rotor type dry pre-cleaner an standard (Donaldson Top Spin 5")
- Separate more than 99% of particles of 20 micron and above particles.



WATER SEPARATOR

- Large capacity of additional fuel water separator filters water in fuel and enhance engine's durability.

ADVANCED UNDERCARRIAGE

Strengthen Sprocket structure and tooth
- Structure to minimize incoming 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

DX225LC

Performance is what it's all about; Doosan delivers what you need and then some.
For decades, Doosan machines have proven themselves on thousands of jobsites around the world. Our long carriage (LC) design provides superior stability and optimizes working width for superior performance in heavy digging and lifting operations. Powerful hydraulic, arm and bucket forces – with horsepower to spare – help you get the job done quickly and efficiently.

DOOSAN ENGINE (DL06)

At the heart of the hydraulic excavator is the new "Common Rail" DOOSAN DL06 engine.

It is combined with the new e-EPOS electronic control system, for optimum power and fuel saving.

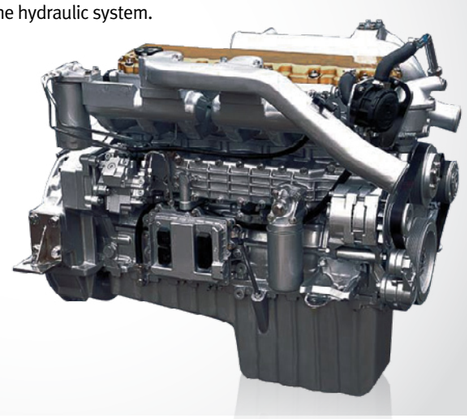
The new engine produces 155 hp(116 kw/157 PS) at only 1,900 rpm, and more torque, due to its careful design combined with the ues of common rail injection and 4 valves per cylinder. These features help optimize combustion and minimize pollution through reduced Nox & particulate emissions.

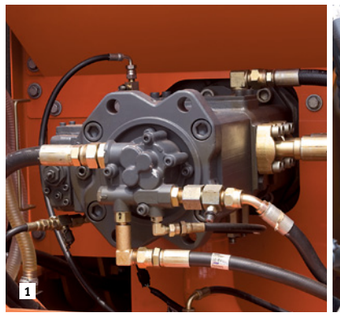
Increased torque allows efficient use of the power of the hydraulic system.

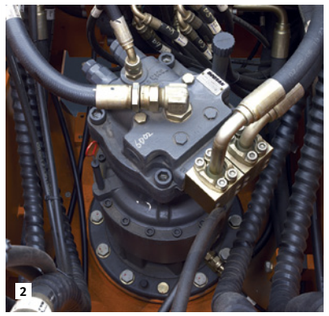
Faster working cycles increase productivity.
Increased torque means the excavator is able to move more easily.

Energy efficiency reduces fuel consumption

- Faster working cycles increase productivity.
- Increased torque means the excavator is able to move more easily.
- Energy efficiency reduces fuel consumption.







1 HYDRAULIC PUMP

The Main pump has a capacity of 2x206.5l/min reducing cycle time while a high capacity gear pump improves pilot line efficiency.

2 SWING DRIVE

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

3 TRAVEL DEVICE

In house travel device provides simple internal structure and increases efficiency of the performance.
Thicker sprocket minimizes incoming debris and provides higher durability.

EXCAVATOR CONTROL

Improved Excavator control by New EPOS™ system
The brains of the hydraulic excavator, the EPOS™ (Electronic Power Optimizing system), have been improved, through a CAN (Controller Area Network) communication link, these units are now perfectly synchronised.

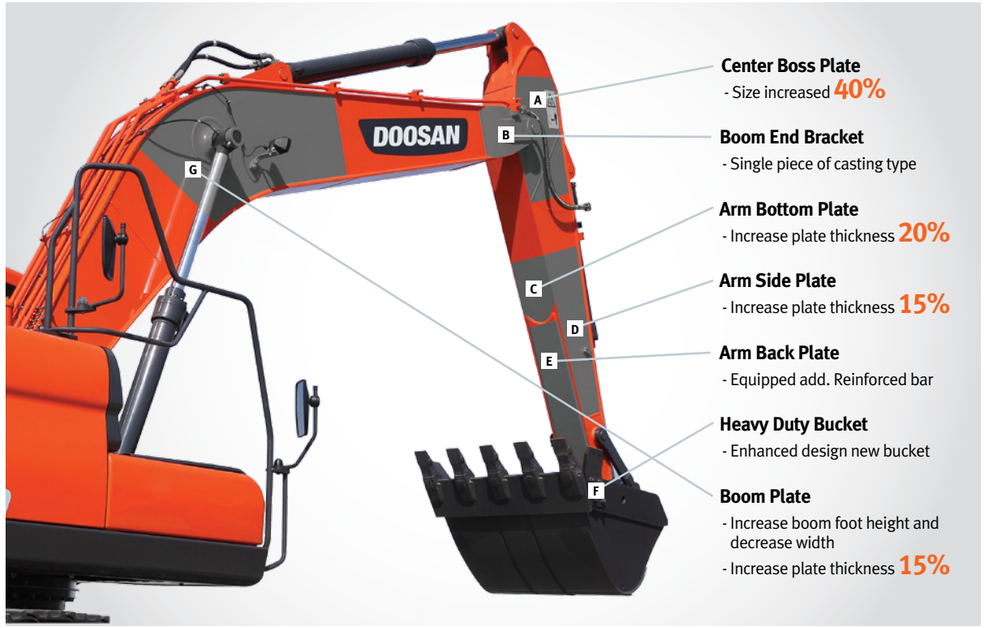
DURABILITY & RELIABILITY

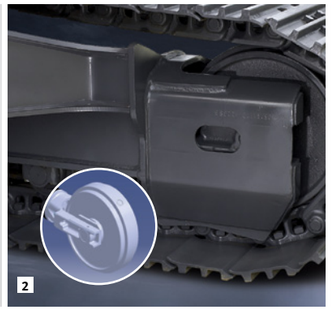
DX225LC

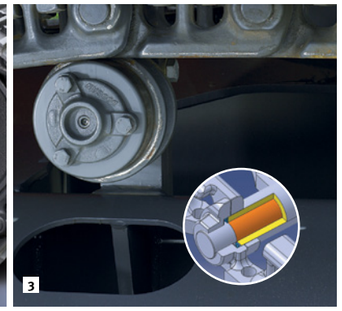
The reliability of an item of plant contributes to its overall lifetime operating costs. DOOSAN uses computer-assisted design techniques, highly durable materials and structures then test these under extreme conditions.

Note: The photos in this brochure show excavators with optional equipment, it may differ according to regional area.

HEAVY DUTY BOOM & ARM BOOM AS STANDARD







1 ADVANCED PIN-BUSH AND DISK / SHIM TECHNOLOGY

Pocket & Dimple surface pattern : Optimized greasing & Trap foreign object
- Wear resistant solid lubricant coating :
  Noise free & enhanced anti-seizureproperty.
- Ultra-hard wear-resistant disc :
  Increase the wear resistance and the service intervals.

2 INTEGRATED TRACK SPRING AND IDLER

The track spring and the idler have been joined directly to achieve high durability and improved maintenance convenience.

3 TRACKS

The chain is composed of self-lubricating sealed links isolated from all external contamination. The tracks are locked by mechanically bolted pins.

HEAVY DUTY & FIXED TRACK (OPTIONAL)

1. Idler Bracket
   - Thick & Wide strip to avoid bracket bending
2. Track Under Cover Plate
   - Reinforced track under cover (3.2T → 4.5T)
   - Reinforced mounting
3. Track Motor Cover
   - (Out) Add bolt head guard
   - (In) Reinforced motor cover mounting bolt using steel rib

FUEL EFFICIENCY

DX225LC

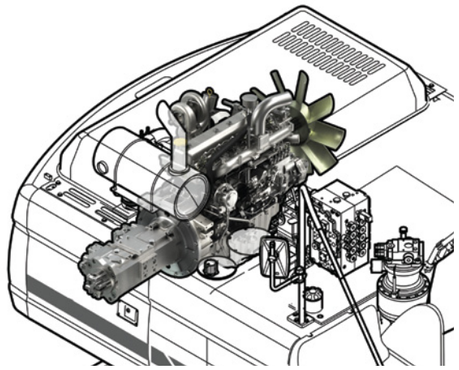
RELIEF CUTOFF

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 DX225LC prevents transfer of unnecessary flow to maintain powerful working level at the maximum value while reducing consumption of fuel.

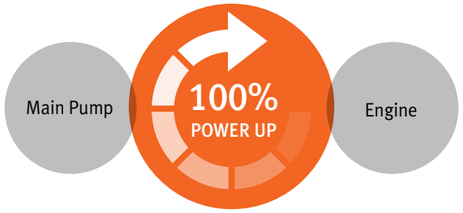
OPTIMIZED LEVER CONTROL & AUTO IDLE

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

DX225LC

The DX225LC is designed to provide you with the best possible working conditions. The pressurised cab and its spacious interior offer a fully adjustable, suspension seat. Comfortably seated, you have easy access to several storage compartments and a clear all-round view of the worksite. Noise and vibration levels have been reduced, while air conditioning and automatic climate control allow you to keep working for hours on end without feeling tired.

MONITOR

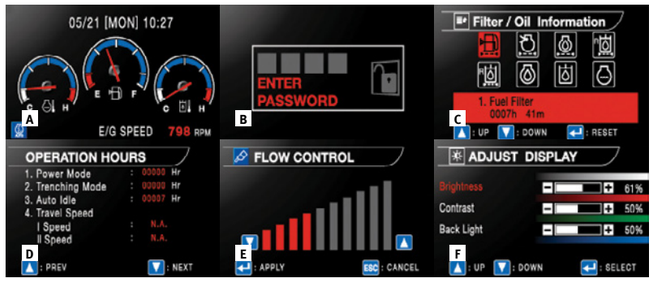
3 power modes for maximum efficiency
- Power mode
- Standand mode
- Economy mode

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

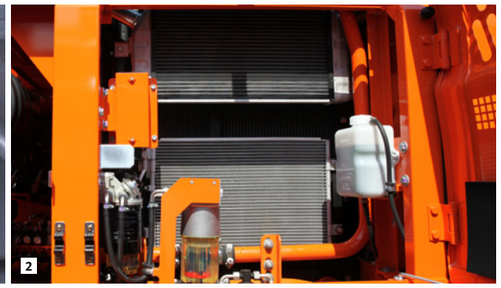
Very precise control of the equipment increases versatility, safety and facilitates tricky operations requiring great precision. Levelling operations and the movement of lifted loads in particular are made easier and safer. DOOSAN designed the DX225LC by putting the operator at the center of the development goals. The result is significant ergonomic value that improves the efficiency and safety of the operator. More space, better visibility, air conditioning, a very comfortable seat. These are all elements that ensure that the operator can work for hours and hours in excellent conditions.

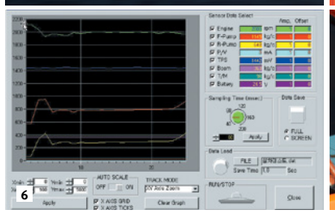
2 AIR SUSPENSION SEAT (OPTIONAL)

Equipped with various functions of adjustment forth and back and, and lumbar support, it reduces the vibration of equipment transmitted during work in an effective way. Also for considering winter working environment, Seat warmer functions equipped.

EASY MAINTENANCE

Short maintenance operations at long intervals increase the availability of the equipment on site. DOOSAN has developed the DX225LC with a view to high profitability for the user.





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 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.

3 HYDRAULIC OIL RETURN FILTER

The protection of the hydraulic system is made more effective by the use of glass fiber filter technology in the main oil return filter. This means that with more than 99.5% of foreign particles filtered out, the oil change interval is increased.

4 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.

5 WATER SEPARATOR

High efficiency fuel filtration is attained by the use of multiple filters, including a fuel pre-filter fitted with a water separator that removes most moisture from the fuel.

6 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.

7 PRE CLEANER

Top-spin pre-cleaner separates 99% of 20 micron and above particles.

8 CENTRALIZED GREASE INLETS FOR EASY MAINTENANCE

The boom & arm grease inlets are grouped for easy access.

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

TELEMATICS SERVICE (OPTIONAL)

TELECOMMUNICATIONS

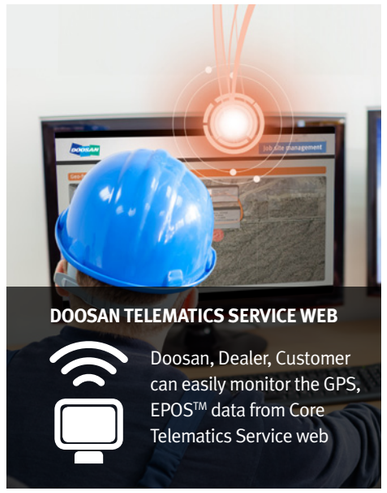
Data flow from machine to web

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

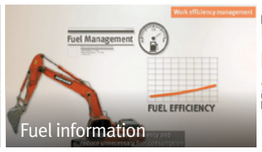


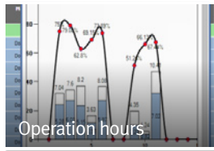
DOOSAN TELEMATICS SERVICE WEB

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

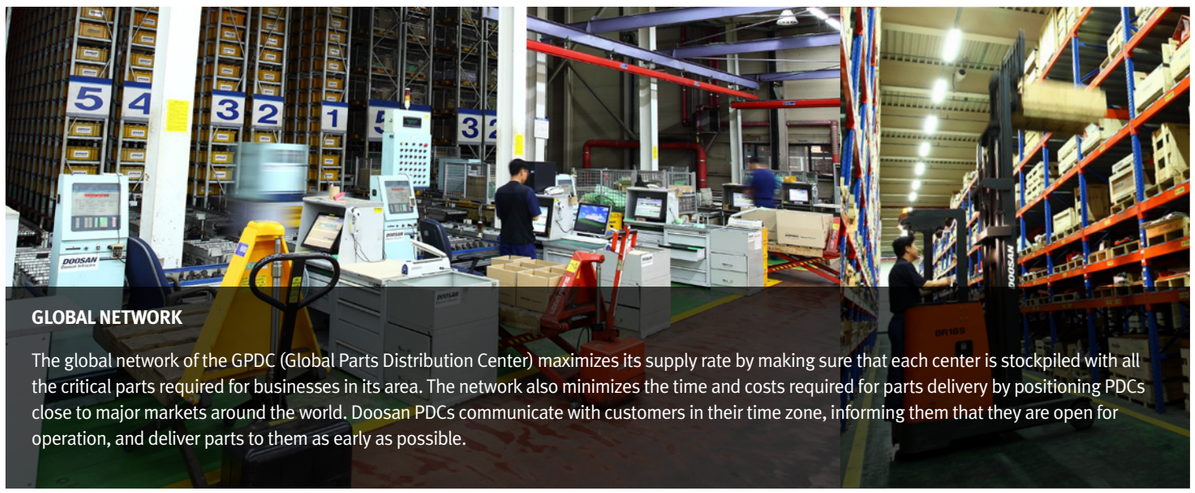
- Utilize quality-related field data
- Apply customer's usage profile to deveping new machine

	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

DX225LC

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.

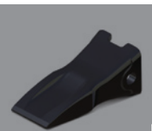
Severe Duty bucket

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

Severe Duty Bucket

	Capacity (SAE/PCSA)
GENERAL PURPOSE BUCKET	0.39 / 0.51 / 0.81 / 0.92 / 1.05 / 1.17 / 1.28 m^3
HEAVY DUTY BUCKET	0.60 / 0.76 / 0.92 / 1.08 / 1.24 / 1.35 / 1.40 / 1.51 m^3
SEVERE DUTY BUCKET	0.91 / 1.07 / 1.23 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

Multi-Grapple

Stone Grapple

Wood Grapple

Log Grapple

Orange Grapple

		Model	Weight	Max Jaw opening	Max. Closing Force	Capacity
MULTI-GRAPPLE		MG22	1,423 kg	2,044 mm	5.7 t	0.75 m^3
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	-	0.50 m^3

L : Link type
P : Pendulum type

EARTH MOVING

Clamshell Bucket

Plate Compactor

Ripper

	Model	Weight	Max. Jaw opening	Capacity
CLAMSHELL BUCKET	CB22	1,440 kg	1,725 mm	0.80 m^3
	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 DL06
4 valves per cylinder, water cooled, 4-Cycle direct injection
Emission level TIER-III

Number of cylinders

6

Nominal flywheel power

116 kW (155 HP) @ 1,900 rpm (SAE J1995, gross)
110 kW (148 HP) @ 1,900 rpm (SAE J1349, net)
103 kW (138 HP) @ 1,900 rpm (SAE J1349, net, Tropical region)

Max torque

68 kgf.m @ 1400 rpm

Piston displacement

5,890 cc (359 cu.in)

Bore & stroke

∅ 100 x 125 mm (3.9” x 4.9”)

Starter

24 V / 4.5 kW

Batteries

2 x 12 V / 100 Ah

Air cleaner

Double element with auto dust evacuation.

HYDRAULIC 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 206.5 l/min (2 x 55 US gpm, 2 x 45 Imp gpm)

Pilot pump

Gear pump - max flow: 28.5 l/min (7.5 US gpm, 6.3 Imp gpm)

Maximum system pressure

Boom/arm/Bucket :
Normal mode : 330 kgf/cm² (324 bar)
Power mode : 350 kgf/cm² (343 bar)
Travel : 330 kgf/cm² (324 bar)
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	125 x 85 x 1,260 mm (4.9” x 3.3” x 4’2”)
Arm	1	140 x 100 x 1,450 mm (5.5” x 3.9” x 4’9”)
Bucket	1	120 x 80 x 1,060 mm (4.7” x 3.1” x 5’4”)

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 11.0 rpm

WEIGHT

Boom 5,700 mm (18’8”) Arm 2,900 mm (9’6”) Bucket SAE/PCSA 0.92 m³ (1.20 yd³)

	Shoe width	Operating weight	Ground pressure (kgf/cm²)
Triple Grouser	(Std) 600 mm (2’)	21,500 kg (47,399 lb)	0.45 kgf/cm² (44 kpa, 6.40 psi)
	700 mm (2’ 4”)	21,800 kg (48,060 lb)	0.40 kgf/cm² (39 kpa, 5.69 psi)
	800 mm (2’ 8”)	22,100 kg (48,721 lb)	0.35 kgf/cm² (34 kpa, 4.78 psi)
	900 mm (2’ 11”)	22,400 kg (49,383 lb)	0.31 kgf/cm² (30 kpa, 4.41 psi)

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: 8
Shoes : 49
Total length of track : 4,445 mm (14’ 7”)

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)

5.5 / 3.0 km/h (3.4 / 1.9 mph)

Maximum traction force

11,500 / 21,800 kgf (25,353 / 48,061 lbf)

Maximum grade

35˚ (70%)

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 (7.4 US gal)

Swing drive

5 l (1.32 US gal)

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

2 x 3.3 l (0.87 US gal)

Hydraulic tank

195 l (51.5 US gal)

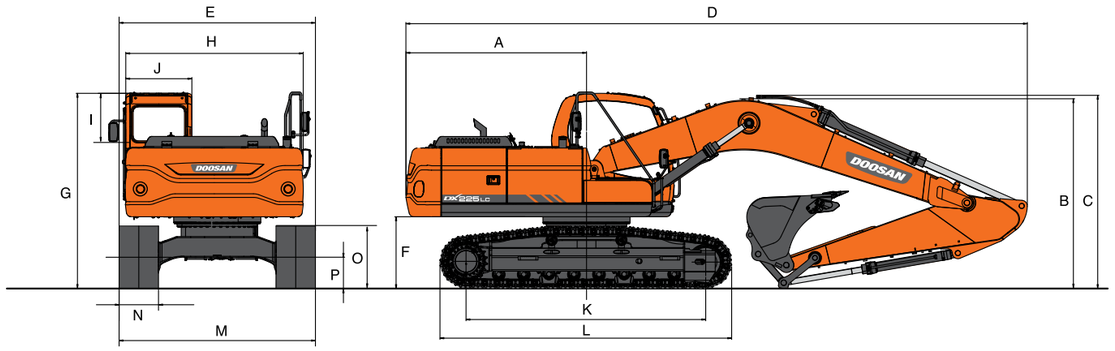
BUCKET

					TRACK	STD Track					
					C/W (ton)	4.1					5.3
					SHOE (mm)	600					
Bucket Type	Capacity (m³)		Width (mm)		Width (kg)	5.7m Boom			5.2m Boom	5.7m Boom HD	SLR (8.5m)
	SAE/ PCSA	CECE	W/O Cutter	With Cutter		2.4m Arm	2.9m Arm	3.5m Arm	2.0m Arm	2.9m HD	SLR (6.2m)
G-Class	0.39	0.35	736	820	330	X	X	X	X	X	A
	0.51	0.47	722	772	529	A	A	A	A	A	X
	0.81	0.72	1,064	1,126	654	A	A	A	A	A	X
	0.92	0.81	1,172	1,236	697	A	A	A	A	A	X
	1.05	0.92	1,308	1,370	751	A	A	B	A	B	X
	1.17	1.0	1,428	1,491	809	A	B	C	A	C	X
	1.28	1.10	1,542	1,605	848	B	C	D	A	C	X
Heavy Duty Bucket	0.60	0.56	750	769	651	A	A	A	A	A	X
	0.76	0.69	900	946	722	A	A	A	A	A	X
	0.92	0.83	1,050	1,096	813	A	A	B	A	A	X
	1.08	0.97	1,200	1,246	884	A	B	C	A	B	X
	1.24	1.11	1,350	1,396	955	B	C	D	A	C	X
	1.35	1.20	1,450	1,796	1,023	C	D	D	A	D	X
	1.40	1.24	1,500	1,546	1,046	C	D	X	B	D	X
	1.51	1.34	1,600	1,646	1,114	C	D	X	B	X	X
Severe Duty Bucket	0.91	0.82	1,050	N/A	1,009	A	A	B	A	B	X
	1.07	0.96	1,200	N/A	1,113	A	C	D	A	C	X
	1.23	1.10	1,350	N/A	1,193	C	D	D	A	D	X
					Maximum load pin-on(payload+bucket)	3,391	2,997	2,687	3,915	2,878	1,272

Based on ISO 10567 and SAE J296, arm length without quick change clamp
A : Suitable for materials with density of 2,100 kg/m³ (3,500lb/yd³) or less
B : Suitable for materials with density of 1,800 kg/m³ (3,000lb/yd³) or less
C : Suitable for materials with density of 1,500 kg/m³ (2,500lb/yd³) or less
D : Suitable for materials with density of 1,200 kg/m³ (2,000lb/yd³) or less
X : Not recommended

This 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.

DIMENSIONS



DIMENSIONS

Boom 5,700 mm (18’8”) Arm 2,900 mm (9’6”) Shoe 600 mm (2’) - Std

Boom type (One piece)		5,700mm (18’8”)			5,200mm (17’1”)		8,500mm (27’8”)
Arm type		2,400mm (7’ 10”)	(Std.) 2,900mm (9’ 6”)	3,500mm (11’ 6”)	2,000mm (6’ 7”)	2,400mm (7’ 10”)	6,200mm (20’ 3”)
Bucket type (SAE/PCSA)		1.05m³	(Std.) 0.92m³	0.81m³	1.28m³	1.17m³	0.39m³ ditch
A	Tail Swing Radius	→	2,750mm (9’)	←	←	←	←
B	Shipping Height (Boom)	3,045mm (10’)	2,940mm (9’ 8”)	3,225mm (10’ 7”)	3,145mm (10’ 4”)	2,985mm (9’ 10”)	3,175mm (10’ 4”)
C	Shipping Height (Hose)	3,110mm (10’ 2”)	3,005mm (9’ 10”)	3,290mm (10’ 10”)	3,210mm (10’ 6”)	3,050mm(10’)	3,254mm (10’ 6”)
D	Shipping Length	9,500mm (31’ 2”)	9,485mm (31’ 1”)	9,500mm (31’ 2”)	9,080mm (29’ 9”)	8,990mm (29’ 6”)	12,317mm (40’ 4”)
E	Shipping Width	→	2,990mm (9’ 10”)	←	←	←	←
F	C/Weight Clearance	→	1,055mm (3’ 6”)	←	←	←	←
G	Height Over CAB.	→	2,975mm (9 ’ 9”)	←	←	←	←
H	House Width	→	2,710mm (8’ 11”)	←	←	←	←
I	CAB. Height above House	→	845mm (2’ 9”)	←	←	←	←
J	CAB. Width	→	960mm (3 ’ 2”)	←	←	←	←
K	Tumbler Distance	→	3,650mm (11’ 12”)	←	←	←	←
L	Track Length	→	4,445mm (14’ 7”)	←	←	←	←
M	Undercarriage Width	→	2,990mm (9’ 10”)	←	←	←	←
N	Shoe Width	→	600mm (2’)	←	←	←	←
O	Track Height	→	947mm (3’ 1”)	←	←	←	←
P	Car Body Clearance	→	480mm (1’ 7”)	←	←	←	←

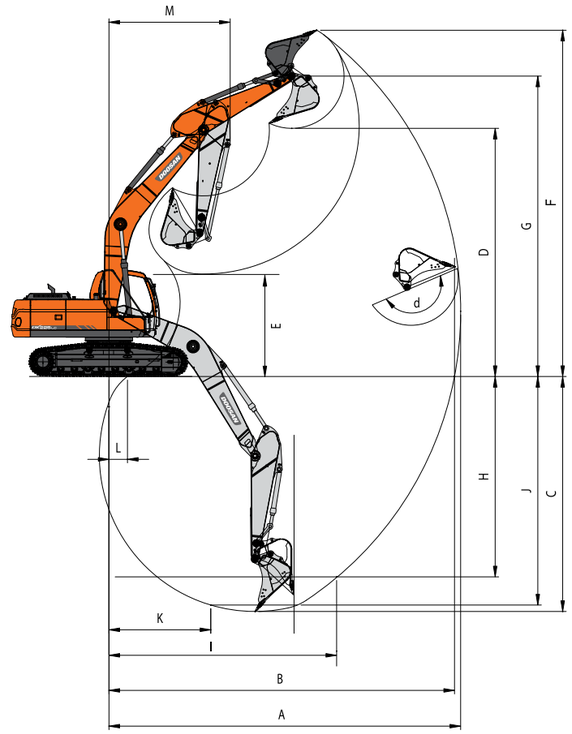
DIGGING FORCE (ISO)

Bucket (SAE/PCSA)	0.51m³	0.81m³	(Std.) 0.92m³	1.05m³	1.17m³	1.28m³	0.54m³ ditch
Digging force	15,200kgf	15,200kgf	15,200kgf	15,200kgf	15,200kgf	15,200kgf	10,000kgf
	149.2kN	149.2kN	149.2kN	149.2kN	149.2kN	149.2kN	98.1kN
	33,510lbf	33,510lbf	33,510 lbf	33,510lbf	33,510lbf	33,510lbf	22,046lbf

Arm	2,000mm	2,400mm	(Std.) 2,900mm	3,500mm	6,200mm
Digging force	15,300kgf	12,600kgf	10,800kgf	9,700kgf	5,980kgf
	150.1kN	123.7kN	106kN	95.2kN	58.6kN
	33,730lbf	27,778lbf	23,810lbf	21,385lbf	13,183lbf

At power boost (ISO)

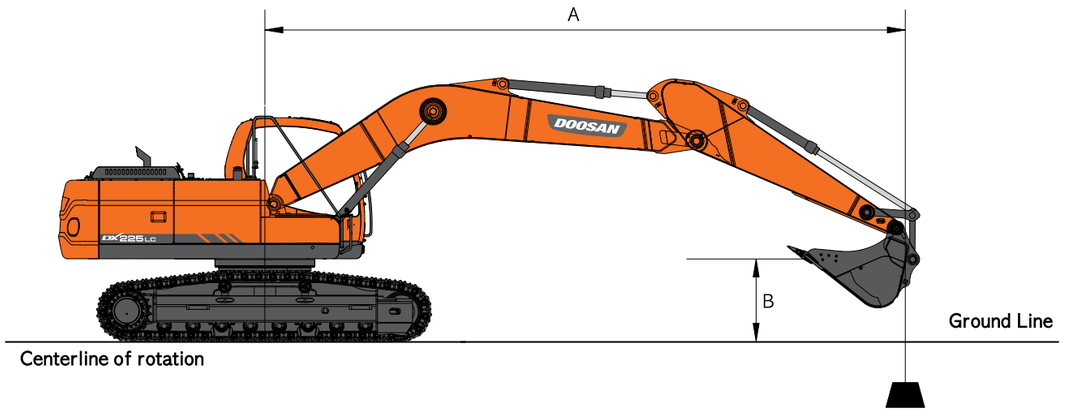
WORKING RANGES



WORKING RANGE

Boom length		5,700mm (18’8”)			5,200mm (17’1”)		8,500mm (27’8”)
Arm type		2,400mm (7’ 10”)	(Std.) 2,900mm (9’ 6”)	3,500mm (11’ 6”)	2,000mm (6’ 7”)	2,400mm (7’ 11”)	6,200mm (20’ 3”)
Bucket type (SAE/PCSA)		1.05m³	(Std.) 0.92m³	0.81m³	1.28m³	1.17m³	0.54m³ ditch
A	Max. digging reach	9,480 (31’ 1”)	9,900 (32’ 6”)	10,340 (33’ 11”)	8,580 (28’ 2”)	8,950 (29’ 4”)	15,379 (50’ 4”)
B	Max. digging reach at ground level	9,300 (30’ 6”)	9,730 (31’ 11”)	10,230 (33’ 7”)	8,380 (27’ 6”)	8,760 (28’ 9”)	15,268 (50’ 1”)
C	Max. digging depth	6,110 (20’1”)	6,620 (21’9”)	7,220 (23’ 8”)	5,355 (17’ 7”)	5,755 (18’ 11”)	11,661 (38’ 2”)
D	Max. dumping height	6,830 (22’5”)	6,990 (22’ 11”)	7,150 (23’ 6”)	6,085 (20’)	6,300 (20’ 8”)	11,148 (36’ 5”)
E	Min. dumping height	3,070 (10’1”)	2,555 (8’ 5”)	1,953 (6’ 5”)	3,370 (11’ 1”)	3,195 (10’ 6”)	2,009 (6’ 6”)
F	Max. digging height	9630 (31’7”)	9,750 (32’)	9,870 (32’ 5”)	8,845 (29’)	9,065 (29’ 9”)	13,403 (43’ 9”)
G	Max. bucket pin height	8,299 (27’3”)	8,450 (27’ 9”)	8,612 (28’ 3”)	7,555 (24’ 9”)	7,770 (25’ 6”)	12,380 (40’ 6”)
H	Max. vertical wall depth	5,390 (17’8”)	5,640 (18’ 6”)	6,010 (19’ 9”)	4,435 (14’ 7”)	4,880 (16’)	9,729 (31’ 9”)
I	Max. radius vertical	6,050 (19’ 10”)	6,410 (21’)	6,750 (22’ 2”)	5,790 (19’)	5,842 (19’ 2”)	10,064 (33’)
J	Max. digging depth(8’level)	5,910 (19’ 5”)	6,430 (21’ 1”)	7,050 (23’ 2”)	5,115 (16’ 9”)	5,545 (18’ 2”)	11,561 (37’ 9”)
K	Min. radius 8’ line	2,880 (9’ 5”)	2,865 (9’ 5”)	2,830 (9’ 3”)	2,495 (8’ 2”)	2,510 (8’ 3”)	4,854 (15’ 9”)
L	Min. digging reach	1,698 (5’ 7”)	519 (1’ 8”)	-224 (-9’)	1,819 (6’)	640 (2’ 1”)	196 (6’)
M	Min. swing radius	3,410 (11’ 2”)	3,410 (11’ 2”)	3,440 (11’ 3”)	3,370 (11’ 1”)	3,190 (10’ 6”)	4,714 (15’ 4”)
d.	Bucket angle (deg)	166	166	166	166	166	166

LIFTING CAPACITY



STANDARD CONFIGURATION

Metric

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

Unit : 1,000kg

A(m) / B(m)	2		3		4		5		6		7		8		Max. Reach		A(m)
8															*3.42	*3.42	5.94
7															*3.31	*3.31	6.85
6									*4.53	*4.53	*4.39	3.84			*3.30	*3.30	7.51
5									*4.87	*4.87	*4.69	3.79			*3.36	2.99	7.99
4							*5.95	*5.95	*5.37	4.79	*4.99	3.72	*4.50	2.95	*3.48	2.75	8.32
3			*11.94	*11.94	*8.57	*8.57	*6.92	6.19	*5.97	4.64	*5.36	3.62	4.67	2.90	*3.65	2.59	8.52
2			*7.08	*7.08	*10.19	8.36	*7.89	5.93	*6.58	4.49	5.71	3.53	4.61	2.84	*3.89	2.51	8.60
1			*5.62	*5.62	*11.36	8.03	*8.69	5.73	*7.11	4.36	5.61	3.44	4.55	2.79	4.09	2.50	8.56
0 (Ground)	*3.08	*3.08	*6.66	*6.66	*11.94	7.85	*9.21	5.59	7.05	4.26	5.54	3.37	4.51	2.75	4.18	2.54	8.40
-1	*5.53	*5.53	*8.59	*8.59	*12.03	7.77	9.40	5.51	6.98	4.19	5.49	3.33	4.48	2.73	4.39	2.67	8.11
-2	*7.92	*7.92	*11.11	*11.11	*11.71	7.77	*9.28	5.48	6.96	4.17	5.48	3.32			4.76	2.90	7.69
-3	*10.58	*10.58	*14.12	*12.89	*10.99	7.82	*8.81	5.51	6.98	4.19	5.51	3.35			5.41	3.29	7.09
-4	*13.78	*13.78	*12.36	*12.36	*9.77	7.94	*7.86	5.59	*6.29	4.26					*5.86	4.00	6.28
-5			*9.77	*9.77	*7.80	*7.80	*6.10	5.75							*5.85	5.50	5.15

Feet

Unit : 1,000lb

A(ft) / B(ft)	10'		15'		20'		25'		Max. Reach		A(ft)
25					*8.41	*8.41			*7.41	*7.41	20.73
20					*9.94	*9.94			*7.28	*7.28	24.45
15					*11.10	10.46	*10.37	7.16	*7.50	6.34	26.73
10	*25.44	*25.44	*16.42	15.73	*12.94	10.00	11.16	6.95	*8.03	5.73	27.93
5	*13.83	*13.83	*20.28	14.71	*14.86	9.52	10.91	6.72	*8.91	5.51	28.20
0 (Ground)	*15.25	*15.25	*22.52	14.09	15.16	9.16	10.71	6.53	9.21	5.61	27.56
-5	*22.18	*22.18	*22.80	13.87	14.97	9.00	10.63	6.46	10.05	6.12	25.95
-10	*30.58	27.61	*21.20	13.95	15.02	9.03			12.02	7.31	23.15
-15	*23.99	*23.99	*17.02	14.32					*12.97	10.35	18.64
-20					*8.41	*8.41			*7.41	*7.41	20.73

1. Ratings are based on SAE J1097
2. The load point is a hook located on the back of the bucket.
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

Metric

Boom : 5,700mm (18'8") Arm : 2,400mm (7'7") Bucket : SAE/PCSA 1.05m³ (1.4yd³) CECE 0.9m³ (1.2yd³) Shoe : 600mm(2')

Unit : 1,000kg

A(m) / B(m)	2		3		4		5		6		7		8		Max. Reach		A(m)
7									*5.03	4.98					*4.47	*4.47	6.29
6									*5.06	4.96	*4.46	3.80			*4.44	3.79	7.00
5							*5.77	*5.77	*5.37	4.88	*5.13	3.77			*4.51	3.32	7.52
4			*10.28	*10.28	*7.83	*7.83	*6.58	6.36	*5.84	4.76	*5.37	3.70			*4.66	3.03	7.87
3					*9.51	8.64	*7.52	6.12	*6.40	4.62	*5.70	3.62	4.67	2.91	4.59	2.86	8.08
2					*10.98	8.24	*8.41	5.89	*6.95	4.48	5.71	3.54	4.62	2.86	4.47	2.77	8.17
1					*11.86	7.99	*9.07	5.72	7.17	4.37	5.63	3.46	4.58	2.82	4.47	2.75	8.12
0 (Ground)			*5.72	*5.72	*12.14	7.87	*9.43	5.61	7.08	4.29	5.57	3.41			4.59	2.82	7.96
-1	*5.52	*5.52	*8.70	*8.70	*11.96	7.84	9.45	5.56	7.03	4.24	5.54	3.39			4.85	2.98	7.65
-2	*8.80	*8.80	*12.21	*12.21	*11.41	7.87	*9.16	5.56	7.03	4.24	5.56	3.40			5.33	3.27	7.20
-3	*12.33	*12.33	*13.09	*13.09	*10.45	7.95	*8.47	5.61	*6.88	4.29					*6.05	3.78	6.56
-4	*13.90	*13.90	*11.03	*11.03	*8.93	8.10	*7.19	5.72							*6.08	4.77	5.67
-5					*6.36	*6.36									*5.73	*5.73	4.38

Feet

Unit : 1,000lb

A(ft) / B(ft)	10'		15'		20'		25'		Max. Reach		A(ft)
25									*10.05	*10.05	18.74
20					*11.11	10.66			*9.78	8.49	22.79
15			*14.13	*14.13	*12.15	10.38	*10.73	7.13	*10.06	7.02	25.22
10	*21.27	*21.27	*17.99	15.51	*13.87	9.95	11.16	6.96	10.15	6.31	26.49
5			*21.44	14.60	15.55	9.52	10.95	6.76	9.83	6.06	26.78
0 (Ground)	*13.18	*13.18	*23.02	14.13	15.22	9.23	10.80	6.62	10.11	6.21	26.10
-5	*23.57	*23.57	*22.63	14.03	15.11	9.13			11.18	6.85	24.39
-10	*28.35	28.06	*20.29	14.20	*14.76	9.24			*13.35	8.41	21.39
-15	*20.56	*20.56	*14.76	14.69					*13.15	12.87	16.39

Option 2

Metric

Boom : 5,700mm (18'8") Arm : 3,500mm (11'6") Bucket : SAE/PCSA 0.81m³ (1.1yd³) CECE 0.7m³ (0.9yd³) Shoe : 600mm (2')

Unit : 1,000kg

A(m) / B(m)	2		3		4		5		6		7		8		9		Max. Reach		A(m)
8																	*2.97	*2.97	6.61
7											*3.54	*3.54					*2.89	*2.89	7.43
6											*4.04	3.92	*2.98	*2.98			*2.89	*2.89	8.04
5											*4.24	3.86	*3.87	3.05			*2.94	2.72	8.49
4									*4.83	*4.83	*4.57	3.77	*4.39	2.99			*3.03	2.51	8.81
3			*9.80	*9.80	*7.45	*7.45	*6.21	*6.21	*5.46	4.71	*4.97	3.67	*4.64	2.93			*3.18	2.38	9.00
2			*13.13	*13.13	*9.20	8.53	*7.26	6.02	*6.13	4.54	*5.41	3.56	4.63	2.86	*3.62	2.33	*3.38	2.30	9.07
1			*8.04	*8.04	*10.63	8.12	*8.19	5.77	*6.74	4.38	5.63	3.45	4.55	2.79	3.77	2.29	*3.65	2.28	9.03
0 (Ground)	*3.76	*3.76	*7.64	*7.64	*11.54	7.85	*8.87	5.59	7.05	4.25	5.53	3.36	4.49	2.73			3.82	2.31	8.88
-1	*5.45	*5.45	*8.73	*8.73	*11.93	7.71	*9.25	5.47	6.95	4.16	5.46	3.30	4.45	2.69			3.98	2.41	8.61
-2	*7.33	*7.33	*10.55	*10.55	*11.87	7.66	9.30	5.41	6.90	4.12	5.43	3.27	4.44	2.68			4.27	2.58	8.21
-3	*9.47	*9.47	*13.01	12.64	*11.41	7.68	*9.06	5.41	6.90	4.11	5.43	3.28					4.75	2.88	7.66
-4	*12.02	*12.02	*13.59	12.79	*10.51	7.76	*8.40	5.46	*6.83	4.15							5.59	3.39	6.91
-5	*15.24	*15.24	*11.49	*11.49	*9.01	7.91	*7.19	5.57									*5.77	4.36	5.91
-6			*8.30	*8.30	*6.51	*6.51											*5.75	*5.75	4.46

Feet

Unit : 1,000lb

A(ft) / B(ft)	10'		15'		20'		25'		Max. Reach		A(ft)
25									*6.45	*6.45	22.80
20							*7.80	7.43	*6.36	*6.36	26.22
15					*9.93	*9.93	*9.48	7.28	*6.55	5.78	28.35
10			*14.55	*14.55	*11.86	10.14	*10.48	7.02	*6.99	5.25	29.49
5	*23.19	*23.19	*18.77	14.90	*13.97	9.59	10.94	6.74	*7.71	5.03	29.75
0 (Ground)	*17.48	*17.48	*21.70	14.10	15.16	9.15	10.68	6.50	8.42	5.09	29.14
-5	*21.68	*21.68	*22.73	13.73	14.88	8.90	10.54	6.37	9.07	5.48	27.62
-10	*29.55	27.07	*21.90	13.70	14.83	8.86	10.56	6.39	10.55	6.38	25.02
-15	*27.18	*27.18	*18.87	13.96	*13.48	9.06			*12.58	8.49	20.92
-20									*12.60	*12.60	14.05

LIFTING CAPACITY

Option 3

Metric

Boom : 5,200mm (17'1") Arm : 2,000mm (6'7") Bucket : SAE/PCSA 1.28m³ (1.7yd³) CECE : 1.1m³ (1.4yd³) Shoe : 600mm (2')

Unit : 1,000kg

A(m) / B(m)	2		3		4		5		6		7		Max. Reach		A(m)
7													*5.89	*5.89	4.99
6							*5.82	*5.82					*5.80	5.04	5.87
5							*6.21	*6.21	*5.89	4.82			*5.83	4.23	6.48
4			*10.34	*10.34	*8.08	*8.08	*6.92	6.35	*6.25	4.73			*5.91	3.77	6.88
3					*9.68	8.71	*7.79	6.14	*6.73	4.62	5.79	3.61	5.62	3.50	7.12
2					*11.12	8.35	*8.63	5.94	*7.23	4.51	5.72	3.55	5.45	3.38	7.22
1					*12.00	8.12	*9.26	5.79	7.22	4.41	5.66	3.49	5.45	3.37	7.17
0 (Ground)			*9.19	*9.19	*12.26	8.01	*9.57	5.70	7.15	4.35			5.65	3.48	6.98
-1	*8.39	*8.39	*13.56	13.10	*12.00	7.99	*9.50	5.66	7.12	4.33			6.10	3.74	6.63
-2	*13.15	*13.15	*14.30	13.21	*11.25	8.04	*8.99	5.69	7.15	4.35			6.98	4.25	6.10
-3	*15.73	*15.73	*12.39	*12.39	*9.88	8.16	*7.83	5.78					*7.19	5.27	5.33
-4			*9.39	*9.39	*7.41	*7.41							*7.06	*7.06	4.17

Feet

Unit : 1,000lb

A(ft) / B(ft)	10'		15'		20'		Max. Reach		A(ft)
20							*12.80	11.35	19.03
15			*14.93	*14.93	*13.21	10.28	*12.92	8.82	21.89
10			*18.52	15.60	*14.62	9.95	12.43	7.75	23.35
5			*21.85	14.79	15.63	9.59	11.96	7.40	23.67
0 (Ground)	*21.17	*21.17	*23.31	14.37	15.37	9.36	12.46	7.66	22.90
-5	*32.59	28.15	*22.52	14.32	15.34	9.34	14.31	8.75	20.93
-10	*26.76	*26.76	*18.94	14.59			*15.86	11.77	17.32
-15	*22.52	*22.52					*15.76	14.73	13.68
-20	*26.50	*26.50	*19.23	*19.23					

Option 4

Metric

Boom :5,200mm (17'1") Arm : 2,400mm(7'10") Bucket : SAE/PCSA 1.28m³ (1.7yd³) CECE : 1.1m³ (1.4yd³) Shoe : 600mm (2')

Unit : 1,000kg

A(m) / B(m)	2		3		4		5		6		7		Max. Reach		A(m)
7													*4.38	*4.38	5.56
6									*5.31	4.93			*4.31	*4.31	6.36
5							*5.72	*5.72	*5.49	4.88			*4.37	3.82	6.92
4					*7.37	*7.37	*6.46	6.44	*5.90	4.79	*5.57	3.71	*4.53	3.44	7.30
3			*12.40	*12.40	*9.02	8.89	*7.38	6.23	*6.43	4.67	5.83	3.64	*4.78	3.22	7.53
2			*9.97	*9.97	*10.61	8.51	*8.31	6.03	*6.99	4.55	5.75	3.58	5.01	3.11	7.62
1			*7.93	*7.93	*11.73	8.24	*9.06	5.86	7.26	4.45	5.68	3.51	5.02	3.10	7.58
0 (Ground)	*4.31	*4.31	*9.47	*9.47	*12.25	8.09	*9.50	5.74	7.17	4.37	5.63	3.47	5.17	3.19	7.40
-1	*7.70	*7.70	*12.35	*12.35	*12.22	8.03	*9.59	5.69	7.13	4.33	5.62	3.45	5.53	3.40	7.07
-2	*11.15	*11.15	*15.20	13.21	*11.69	8.05	*9.27	5.69	7.13	4.34			6.20	3.80	6.57
-3	*15.22	*15.22	*13.54	13.36	*10.59	8.13	*8.42	5.74					*6.83	4.55	5.86
-4	*14.19	*14.19	*10.97	*10.97	*8.64	8.29							*6.90	6.16	4.84

Feet

Unit : 1,000lb

A(ft) / B(ft)	10'		15'		20'		Max. Reach		A(ft)
20					*10.85	10.57	*9.51	*9.51	20.66
15			*13.70	*13.70	*12.39	10.41	*9.75	8.01	23.31
10	*26.46	*26.46	*17.42	15.85	*13.98	10.06	*10.50	7.12	24.69
5	*19.51	*19.51	*21.15	15.00	*15.72	9.68	11.02	6.83	24.99
0 (Ground)	*21.71	*21.71	*23.19	14.50	15.42	9.41	11.41	7.04	24.27
-5	*32.31	28.18	*23.02	14.36	15.32	9.32	12.86	7.90	22.42
-10	*29.26	28.61	*20.32	14.52			*15.06	10.13	19.10
-15	*19.26	*19.26					*14.84	*14.84	13.24
-20	*26.50	*26.50	*19.23	*19.23					

Option 5

Metric

Boom : 5,700mm (18'8") Arm : 2,900mm (9'6") Bucket : SAE/PCSA 0.93m³ (1.2yd³) CECE : 0.8m³ (1.0yd³) Shoe : 800mm (2'8")

Unit : 1,000kg

A(m) / B(m)	2		3		4		5		6		7		8		9		Max. Reach		A(m)
8																	*3.42	*3.42	5.94
7																	*3.31	*3.31	6.85
6									*4.53	*4.53	*4.39	3.94			*4.53		*3.30	*3.30	7.51
5									*4.87	*4.87	*4.69	3.89			*4.87		*3.36	3.08	7.99
4							*5.95	*5.95	*5.37	4.92	*4.99	3.82	*4.50	30.4	*5.37		*3.48	2.83	8.32
3			*11.94	*11.94	*8.57	*8.57	*6.92	6.34	*5.97	4.76	*5.36	3.72	4.81	2.98	*5.97		*3.65	2.67	8.52
2			*7.08	*7.08	*10.19	8.57	*7.89	6.09	*6.58	4.61	*5.75	3.63	4.75	2.93	*6.58		*3.89	2.59	8.60
1			*5.62	*5.62	*11.36	8.24	*8.69	5.88	*7.11	4.48	5.78	3.54	4.69	2.87	*7.11		4.22	2.58	8.56
0 (Ground)	*3.08	*3.08	*6.66	*6.66	*11.94	8.06	*9.21	5.74	7.26	4.38	5.70	3.47	4.64	2.83	7.26		4.31	2.63	8.40
-1	*5.53	*5.53	*8.59	*8.59	*12.03	7.98	*9.41	5.66	7.19	4.32	5.66	3.43	4.62	2.81	7.19		4.53	2.75	8.11
-2	*7.92	*7.92	*11.11	*11.11	*11.71	7.98	*9.28	5.64	7.16	4.29	5.65	3.42			7.16		4.91	2.99	7.69
-3	*10.58	*10.58	*14.12	13.22	*10.99	8.04	*8.81	5.66	7.19	4.31	5.68	3.45			7.19		5.57	3.39	7.09
-4	*13.78	*13.78	*12.36	*12.36	*9.77	8.15	*7.86	5.74	*6.29	4.39					*6.29		*5.86	4.11	6.28
-5			*9.77	*9.77	*7.80	*7.80	*6.10	5.90									*5.85	5.65	5.15

Feet

Unit : 1,000lb

A(ft) / B(ft)	10'		15'		20'		25'		Max. Reach		A(ft)
25					*8.41	*8.41			*7.41	*7.41	20.73
20					*9.94	*9.94			*7.28	*7.28	24.45
15					*11.10	10.72	*10.37	7.36	*7.50	6.52	26.73
10	*25.44	*25.44	*16.42	16.11	*12.94	10.26	*11.19	7.15	*8.03	5.91	27.93
5	*13.83	*13.83	*20.28	15.10	*14.86	9.78	11.23	6.91	*8.91	5.68	28.20
0 (Ground)	*15.25	*15.25	*22.52	14.47	15.61	9.43	11.03	6.73	9.50	5.79	27.56
-5	*22.18	*22.18	*22.80	14.26	15.42	9.26	10.95	6.66	10.37	6.31	25.95
-10	*30.58	28.32	*21.20	14.34	15.46	9.29			12.38	7.53	23.15
-15	*23.99	*23.99	*17.02	14.70					*12.97	10.63	18.64

Option 6

Metric

Boom : 5,700mm (18'8") Arm : 2,400mm (7'11") Bucket : SAE/PCSA 1.05m³ (1.4yd³) CECE : 0.9m³ (1.2yd³) Shoe : 800mm (2'8")

Unit : 1,000kg

A(m) / B(m)	2		3		4		5		6		7		8		Max. Reach		A(m)
7									*5.03	*5.03					*4.47	*4.47	6.29
6									*5.06	*5.06	*4.46	3.90			*4.44	3.89	7.00
5							*5.77	*5.77	*5.37	5.00	*5.13	3.87			*4.51	3.42	7.52
4			*10.28	*10.28	*7.83	*7.83	*6.58	6.51	*5.84	4.88	*5.37	3.80			*4.66	3.12	7.87
3					*9.51	8.85	*7.52	6.27	*6.40	4.74	*5.70	3.72	4.81	2.99	4.73	2.94	8.08
2					*10.98	8.45	*8.41	6.04	*6.95	4.60	5.88	3.64	4.76	2.95	4.61	2.85	8.17
1					*11.86	8.20	*9.07	5.87	7.37	4.49	5.80	3.56	4.72	2.90	4.61	2.84	8.12
0 (Ground)			*5.72	*5.72	*12.14	8.08	*9.43	5.76	7.28	4.41	5.74	3.51			4.73	2.90	7.96
-1	*5.52	*5.52	*8.70	*8.70	*11.96	8.05	*9.46	5.71	7.24	4.36	5.71	3.49			5.00	3.07	7.65
-2	*8.80	*8.80	*12.21	*12.21	*11.41	8.08	*9.16	5.71	7.24	4.36	5.72	3.50			5.49	3.36	7.20
-3	*12.33	*12.33	*13.09	*13.09	*10.45	8.16	*8.47	5.77	*6.88	4.41					*6.05	3.89	6.56
-4	*13.90	*13.90	*11.03	*11.03	*8.93	8.31	*7.19	5.88							*6.08	4.90	5.67
-5					*6.36	*6.36									*5.73	*5.73	4.38

Feet

Unit : 1,000lb

A(ft) / B(ft)	10'		15'		20'		25'		Max. Reach		A(ft)
25									*10.05	*10.05	18.74
20					*11.11	10.92			*9.78	8.72	22.79
15			*14.13	*14.13	*12.15	10.64	*10.73	7.33	*10.06	7.21	25.22
10	*21.27	*21.27	*17.99	15.89	*13.87	10.21	11.49	7.16	10.45	6.50	26.49
5			*21.44	14.98	*15.59	9.78	11.27	6.96	10.13	6.25	26.78
0 (Ground)	*13.18	*13.18	*23.02	14.51	15.66	9.49	11.12	6.82	10.42	6.40	26.10
-5	*23.57	*23.57	*22.63	14.41	15.55	9.39			11.52	7.06	24.39
-10	*28.35	*28.35	*20.29	14.58	*14.76	9.51			*13.35	8.65	21.39
-15	*20.56	*20.56	*14.76	*14.76					*13.15	*13.15	16.39

LIFTING CAPACITY

Option 7

Metric

Boom : 5,700mm(18'8") Arm : 3,500mm(11'6") Bucket : SAE/PCSA 1.05m³ (1.4yd³) CECE : 0.9m³ (1.2yd3) Shoe : 800mm (2'8")

Unit : 1,000kg

A(m) / B(m)	2		3		4		5		6		7		8		9		Max. Reach		A(m)
8																	*2.97	*2.97	6.61
7											*3.54	*3.54					*2.89	*2.89	7.43
6											*4.04	4.02	*2.98	*2.98			*2.89	*2.89	8.04
5											*4.24	3.96	*3.87	3.13			*2.94	2.80	8.49
4									*4.83	*4.83	*4.57	3.87	*4.39	3.08			*3.03	2.59	8.81
3			*9.80	*9.80	*7.45	*7.45	*6.21	*6.21	*5.46	4.83	*4.97	3.77	*4.64	3.01			*3.18	2.45	9.00
2			*13.13	*13.13	*9.20	8.74	*7.26	6.17	*6.13	4.66	*5.41	3.66	4.77	2.94	*3.62	2.41	*3.38	2.37	9.07
1			*8.04	*8.04	*10.63	8.33	*8.19	5.93	*6.74	4.50	5.79	3.55	4.69	2.87	*3.78	2.37	*3.65	2.35	9.03
0 (Ground)	*3.76	*3.76	*7.64	*7.64	*11.54	8.06	*8.87	5.74	*7.23	4.37	5.70	3.46	4.63	2.82			3.94	2.39	8.88
-1	*5.45	*5.45	*8.73	*8.73	*11.93	7.92	*9.25	5.62	7.16	4.28	5.63	3.40	4.59	2.78			4.11	2.48	8.61
-2	*7.33	*7.33	*10.55	*10.55	*11.87	7.87	*9.32	5.57	7.11	4.24	5.60	3.37	4.58	2.77			4.40	2.66	8.21
-3	*9.47	*9.47	*13.01	12.97	*11.41	7.89	*9.06	5.57	7.10	4.23	5.60	3.38					4.90	2.97	7.66
-4	*12.02	*12.02	*13.59	13.12	*10.51	7.97	*8.40	5.62	*6.83	4.28							*5.60	3.49	6.91
-5	*15.24	*15.24	*11.49	*11.49	*9.01	8.12	*7.19	5.73									*5.77	4.48	5.91
-6			*8.30	*8.30	*6.51	*6.51											*5.75	*5.75	4.46

Feet

Unit : 1,000lb

A(ft) / B(ft)	10'		15'		20'		25'		Max. Reach		A(ft)
25									*6.45	*6.45	22.80
20							*7.80	7.63	*6.36	6.36	26.22
15					*9.93	*9.93	*9.48	7.48	*6.55	5.95	28.35
10			*14.55	*14.55	*11.86	10.40	*10.43	7.22	*6.99	5.41	29.49
5	*23.19	*23.19	*18.77	15.29	*13.97	9.85	11.27	6.94	*7.71	5.20	29.75
0 (Ground)	*17.48	*17.48	*21.70	14.48	15.60	9.41	11.01	6.70	8.69	5.26	29.14
-5	*21.68	*21.68	*22.73	14.11	15.32	9.16	10.86	6.57	9.36	5.66	27.62
-10	*29.55	27.78	*21.90	14.08	15.27	9.12	10.89	6.59	10.88	6.58	25.02
-15	*27.18	*27.18	*18.87	14.34	*13.48	9.32			*12.58	8.74	20.92
-20									*12.60	*12.60	14.05

Option 8

Metric

Boom : 8,500mm (27'8") Arm : 6,200mm (20'3") Bucket : SAE/PCSA : 0.39m³ (0.51yd³) CECE : 0.35m³ (0.46yd³) Shoe : 600mm (2')

Unit : 1,000kg

A(m) / B(m)	2		3		4		5		6		7		8		9		10		11		12		13		14		Max. Reach		
12																											*1.02	*1.02	@9.70
11																	*1.66	*1.66									*0.98	*0.98	@10.66
10																	*2.10	*2.10	*1.50	*1.50							*0.95	*0.95	@11.46
9																	*2.28	*2.28	*2.00	*2.00	*1.12	*1.12					*0.94	*0.94	@12.11
8																	*2.33	*2.33	*2.31	2.24	*1.74	*1.74					*0.94	*0.94	@12.66
7																	*2.42	*2.42	*2.39	2.21	*2.13	1.85	*1.12	*1.12			*0.94	*0.94	@13.10
6															*2.63	*2.63	*2.55	*2.55	*2.48	2.18	*2.44	1.83	*1.64	1.53			*0.96	*0.96	@13.46
5													*3.02	*3.02	*2.85	*2.85	*2.71	2.54	*2.60	2.13	*2.51	1.8	*2.01	1.52			*0.98	*0.98	@13.73
4											*3.69	*3.69	*3.35	*3.35	*3.09	2.96	*2.89	2.47	*2.73	2.08	*2.61	1.76	*2.30	1.5			*1.00	*1.00	@13.92
3					*7.66	*7.66	*5.88	*5.88	*4.84	*4.84	*4.16	*4.16	*3.69	3.44	*3.35	2.85	*3.08	2.4	*2.88	2.03	*2.72	1.72	2.43	1.47	*1.13	*1.13	*1.04	*1.04	@14.04
2					*5.32	*5.32	*6.86	6.52	*5.50	5.03	*4.64	4.03	*4.04	3.3	*3.60	2.75	*3.28	2.32	*3.02	1.97	2.75	1.68	2.4	1.44	*1.29	1.23	*1.08	*1.08	@14.09
1					*3.48	*3.48	*7.66	6.15	*6.08	4.78	*5.06	3.85	*4.36	3.17	*3.85	2.65	*3.46	2.25	3.11	1.91	2.7	1.64	2.37	1.41	*1.29	1.21	*1.13	*1.13	@14.07
0(Ground)					*3.21	*3.21	*6.46	5.89	*6.54	4.58	*5.42	3.7	*4.63	3.06	*4.06	2.57	3.54	2.18	3.06	1.86	2.67	1.6	2.34	1.39			*1.20	*1.20	@13.97
1			*2.08	*2.08	*3.48	*3.48	*6.02	5.73	*6.85	4.44	*5.69	3.58	4.83	2.97	4.07	2.49	3.48	2.12	3.01	1.82	2.63	1.57	2.32	1.36			*1.27	1.22	@13.80
2	*2.14	*2.14	*2.77	*2.77	*4.00	*4.00	*6.20	5.64	*7.03	4.35	5.79	3.5	4.76	2.9	4.01	2.44	3.43	2.08	2.98	1.79	2.61	1.55	2.31	1.35			*1.36	1.26	@13.56
3	*2.88	*2.88	*3.51	*3.51	*4.69	*4.69	*6.74	5.6	*7.09	4.3	5.73	3.45	4.71	2.85	3.96	2.4	3.4	2.05	2.95	1.77	2.59	1.54	*2.14	1.35			*1.48	1.31	@13.23
4	*3.65	*3.65	*4.32	*4.32	*5.51	*5.51	*7.54	5.6	*7.03	4.28	5.7	3.43	4.68	2.82	3.94	2.38	3.38	2.03	2.94	1.76	2.59	1.53					*1.62	1.39	@12.82
5	*4.46	*4.46	*5.20	*5.20	*6.46	*6.46	*8.25	5.63	*6.86	4.29	5.7	3.43	4.68	2.82	3.94	2.37	3.38	2.03	2.95	1.76	2.61	1.55					*1.80	1.49	@12.31
6	*5.34	*5.34	*6.18	*6.18	*7.58	*7.58	*7.85	5.69	*6.58	4.32	*5.61	3.45	4.69	2.84	3.95	2.39	3.4	2.05	2.97	1.78							*2.04	1.64	@11.69
7	*6.31	*6.31	*7.30	*7.30	*8.84	8.21	*7.30	5.77	*6.16	4.38	*5.27	3.49	*4.55	2.87	*3.93	2.42	*3.37	2.09									*2.38	1.85	@10.95
8	*7.40	*7.40	*8.61	*8.61	*7.88	*7.88	*6.57	5.89	*5.57	4.47	*4.77	3.56	*4.09	2.94	*3.46	2.49	*2.80	2.16									*2.76	2.15	@10.05
9			*8.11	*8.11	*6.64	*6.64	*5.59	*5.59	*4.75	4.59	*4.04	3.67	*3.37	3.04													*2.67	2.62	@8.95
10							*4.24	*4.24	*3.56	*3.56	*2.87	*2.87															*2.46	*2.46	@7.53

Feet

Unit : 1,000lb

A(ft) / B(ft)	10		15		20		25		30		35		40		45		Max. Reach		
40																	*2.27	*2.27	@31.16
35											*2.91	*2.91					*2.13	*2.13	@35.91
30											*4.65	*4.65					*2.07	*2.07	@39.46
25											*5.19	*5.19	*3.86	*3.86			*2.07	*2.07	@42.12
20									*5.73	*5.73	*5.49	5.1	*5.08	3.91			*2.10	*2.10	@44.05
15							*7.16	*7.16	*6.44	*6.44	*5.94	4.93	*5.59	3.81	*2.63	*2.63	*2.18	*2.18	@45.34
10			*14.23	*14.23	*10.43	*10.43	*8.45	8.2	*7.26	6.14	*6.46	4.73	*5.92	3.69	*3.63	2.88	*2.28	*2.28	@46.06
5			*16.00	15.8	*12.53	10.58	*9.73	7.67	*8.08	5.81	*7.00	4.52	5.86	3.56	*4.09	2.82	*2.43	*2.43	@46.22
0(Ground)			*10.57	*10.57	*14.13	9.89	*10.81	7.23	*8.80	5.52	7.07	4.33	5.73	3.44	*3.94	2.75	*2.64	*2.64	@45.84
-5	*5.47	*5.47	*10.78	*10.78	*15.06	9.46	11.34	6.92	8.69	5.3	6.91	4.18	5.63	3.35			*2.90	2.73	@44.89
-10	*7.92	*7.92	*12.68	*12.68	*15.35	9.26	11.14	6.73	8.54	5.16	6.81	4.08	5.58	3.3			*3.27	2.9	@43.35
-15	*10.71	*10.71	*15.62	14.19	*15.06	9.22	11.08	6.67	8.48	5.11	6.78	4.06	5.6	3.31			*3.78	3.18	@41.14
-20	*13.97	*13.97	*18.66	14.42	*14.20	9.32	11.13	6.72	8.52	5.15	6.84	4.11					*4.55	3.66	@38.14
-25	*17.98	*17.98	*16.35	14.79	*12.63	9.55	*10.00	6.88	*7.90	5.3							*5.87	4.45	@34.16
-30	*17.09	*17.09	*12.84	*12.84	*10.01	9.93	*7.68	7.21									*5.83	*5.83	@28.77

STANDARD & OPTION

STANDARD EQUIPMENT

Boom & Arm

- 5.7m Boom (Heavy duty)
- 2.9m Arm (Heavy duty)

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
- 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, 60A)
- 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
- Long & 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

- 5.2m Boom
- 5.7m Boom
- 8.5m Boom
- 2.0m Arm
- 2.4m Arm
- 2.4m Arm (Heavy duty)
- 2.9m Arm
- 2.9m Arm (Forestry)
- 3.5m Arm
- 6.2m 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
- 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
- Piping for quick clamp
- Piping option
  - Breaker with flow control valve - Crusher
  - Crusher with tilting - Rotating
  - Clamshell - Quick Clamp
- 700mm / 800mm / 900mm shoe
- Lower wiper
- 80A alternator
- Fuel filler pump
- Working Lights
  - 4-front / 2-rear on cabin
  - 2-front on cabin
  - 1 on counterweight
- Counterweight (3.8 Ton / 5.3 Ton)
- 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
- Short & Fixed track
- Forestry & Fixed track
- Heavy duty & Fixed track

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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Doosan Infracore Korea Office (HQ)
27F, Doosan Tower, 275, Jangchungdan-ro,
Jung-gu, Seoul, Korea(04563)
Tel : 82 2 3398 8114

www.doosaninfracore.com/ce/