







#### Doosan Infracore Korea Office (HQ)

27/F, Doosan Tower 18-12, Euljiro-6Ga, Jung-Gu Seoul 100-730 Korea Tel: 82 2 3398 8114

www.doosaninfracore.com/ce/



## **Compact Equipment**

Mini Excavators DX27Z • DX30Z





















Maximizing the merits of the previous series, the DX27Z and DX30Z are focused on the fundamentals of zero tail equipment.

The cabin structure is designed to provide the operator with excellent comfort and all round visibility, whilst maintaining the minimum working radius.

Based on the fundamentals of such zero tail swing excavators;

- Comfort
- A wide comfortable cabin is provided allowing the operator to work with all round visibility in a safe working environment.
- **Performance** Excellent working performances and the highest work efficiency are achieved as a result of the new generation engine and an advanced hydraulic system.
- Reliability
- Enhanced structural reliability has been achieved through stress test analysis, helping to extend the life of the equipment and reduce maintenance costs.
- **Maintenance** Large opening covers ensure easy access for daily checks and conveniently located service parts help to reduce servicing times.

## Comfort DX27Z/DX30Z

As powerful, elaborate and small excavator, DX27Z and DX30Z provides greater space to ensure the optimal work environment for the operator. The ergonomically designed seat and arm rest as well as the wide space minimizes the fatigue of operator. The position of the control stand and joystick together with the monitor by which all information can be checked at a glance, further provides for a more convenient work environment. It's your turn to operate this compact excavator designed by DOOSAN specifically with the operator in mind.





#### **Comfortable Operating Cabin**

A roomy, minimal shock and low noise operator's cab with safety glass windows on all four all-round visibility. The front screen slides up in to the roof and the right hand side window can be opened for ventilation.









#### **Control Stand**

The left and right control stands are ergonomically placed for convenient operation. The control stand surfaces have ample room to install several option switches. The uni-body plastic design provides the operator with a spacious and comfortable cabin environment.







The centralized display panel provides comprehensive information about the status of the machine in an easy to read format. The high quality display panel is waterproof and all information can be seen at a glance.





#### **Joystick**

The hydraulic joystick levers have very comfortable grips that allow the operator to perform precise operations very easily.

#### Switch

The ergonomically placed switches maximizes convenience for the

#### Q Cup Holder

The conveniently located cup holders add to the comfort of the cabin.

The arm rests provide operator comfort during long working days. These have been relocated to the control stand giving more comfort as opposed to arm rests on the seat.

#### • Floor Plate (Rubber mat)

The breaker pedal(left) and boom swing pedal(right) are installed in a very spacious and convenient location. In addition, the rubber floor mats contribute to a very comfortable environment.

The door opening has been increased by removing the lower lip which allows easy cleaning of the interior.

#### Defroster

The high capacity defroster is installed on the right windows and provides excellent performance in cold conditions. Eliminating both frost and moisture very efficiently, to provide a safer working condition for the operator. (Cabin Type Only)







Comfortable Sliding Seat

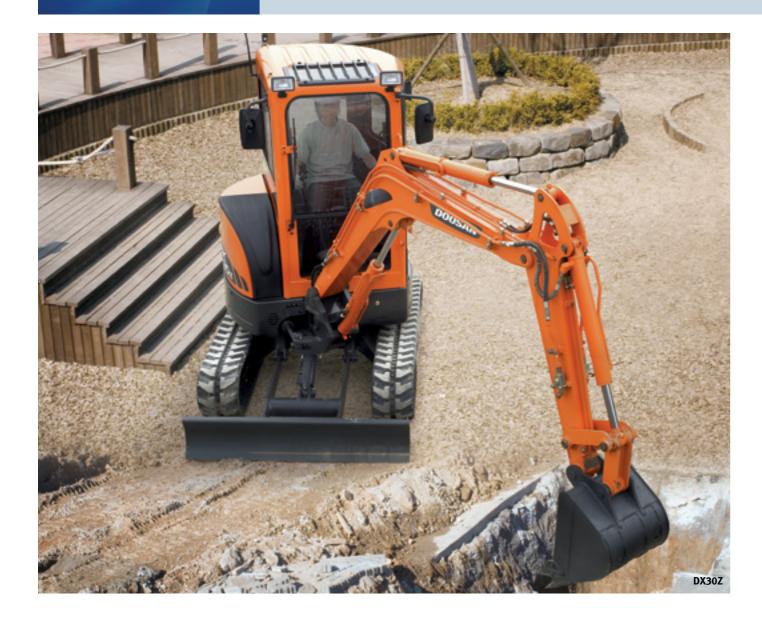
Rear Camera



# Performance DX27Z/DX30Z

The highest performance is guaranteed in any working condition. The advanced hydraulic system combined with a powerful engine provides for powerful excavation and work efficiency as well as the biggest break out and tractive forces.

As a result the DX27Z, DX30Z provides outstanding performance, work efficiency and the ability to adapt to any work environment.





#### Boom swing

The convenient boom swing function gives the capability to work in very narrow areas. The newly designed swing bracket and the increased boom swing cylinder size ensures powerful and stable boom swing performance.







#### 3TNV82A Engine

The DX27Z, DX30Z have a powerful and eco-friendly engine, that always provides high operating efficiency and please working conditions.



#### E/G Control Lever

The engine control lever is placed in a very convenient location easily accessible by the operator to easily control the engine speed.



#### **Dozer Blade**

Welded, unitized blade provides durability even under harsh working conditions.

DX27Z: 1,520mm x 277mm(5' x 11")

1,570mm x 277mm(5'2" x 11")

DX30Z: 1,550mm x 310mm(5'1" x 1)



#### Powerful Digging Force (Bucket)

Powerful, efficient digging with increased digging force. Bucket Digging force : (ISO/SAE) DX272: 2,220 kgf / 2,020 kgf DX30Z: 2,800 kgf / 2,480 kgf

# Maintenance & Reliability

DX27Z/DX30Z

Since DX27Z and DX30Z are designed so that all parts can be checked at a glance, the radiator, battery and diverse filters can be easily inspected, ensuring easier service and check-up.

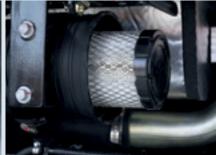
Furthermore, the X chassis and D-type frame ensure exceptional durability and minimize deformation caused by impact. DX27Z and DX30Z will guarantee productivity due to exceptional durability and convenient maintenance.



The engine compartment is designed for easier service and the sturdy sound proofing inside the engine cover reduces the noise to provide a more friendly environment for the operator and those around it.



Access to the various radiators is very simple, making cleaning more convenient. The battery and washer fuild level can also be easily checked.

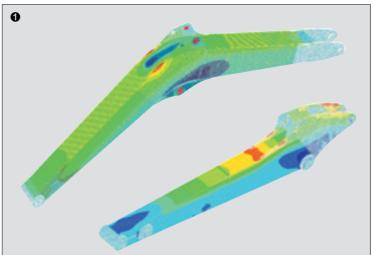


The large capacity forced air cleaner removes The hydraulic system was designed to prevent over 99% of airborne particles, reducing the the pump from cavitation. risk of engine contamination, and increasing the cleaning and cartridge change intervals



#### Air Breather



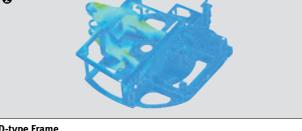


#### Strengthened Boom

The shape of the boom has been optimally designed using finite elements and 3-dimensional computer simulation, allowing the loads to be better distributed throughout the structure. This combined with increased material thickness means improved durability and reliability by limiting element fatigue.

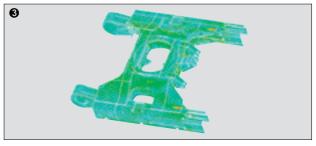
#### Arm Assembly

In the arm assembly greater strength is gained by using cast elements and reinforcement around the bosses to increase the overall life of the component.



#### 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.



The rubber shoes not only offers greater nonslip and grip capabilities but are less harmful to pathways and road surfaces in urban environments than conventional steel shoes.



#### Bucket

Hardened bucket teeth provide durability and can be easily unbolted for removal, straightening or replacing.



#### Oil Gauge

side of the hydraulic tank.



#### **Grease Piping**

Hydraulic oil level can be easily Integrated grease piping is designed checked through the gauge on the for easy maintenance of the swing bearing and swing cylinder.

## DX27Z/DX30Z Technical specifications

#### **ENGINE**

Model	DX27Z	YANMAR, 3TNV82A-SDB	
	DX30Z	YANMAR, 3TNV82A-PDB	
Number of cylinders		3	
Nominal flywheel	DX27Z	15.8 kW(21.2HP) @ 2,200 rpm (SAE J 1349, net)	
power	DX30Z	18.1 kW(24.3HP) @ 2,400 rpm (SAE J 1349, net)	
	DX27Z	8.97 kgf.m / 1,000 rpm	
Max torque	DX30Z	8.97 kgf.m / 1,200 rpm	
Piston displacement		1,331 cc (81.217 cu.in)	
Bore & stroke		Ф82 mm x 84 mm (3.2" X 3.3")	
Starter		12 V x 1.7 kW	
Batteries		1 x 12 V / 8o Ah	
Altenator		12 V / 40 A	

## 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.

#### **DX27Z**

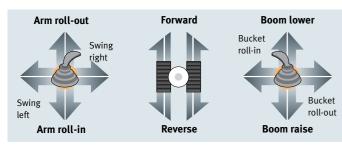
Cylinders	Quantity	Bore X Rod diameter X stroke	
Boom	1	70 X 40 X 567mm(2.8 " X 1.6 " X 1'10 ")	
Arm	1	70 X 40 X 500mm(2.8 " X 1.6 " X 1'8 ")	
Bucket	1	65 X 35 X 435mm(2.6 " X 1.4 " X 1'5 ")	

#### **DX30Z**

Cylinders	Quantity	Bore X Rod diameter X stroke	
Boom	1	80 X 45 X 573mm(3.1 " X 1.8 " X 1'11 ")	
Arm	1	75 X 45 X 598mm(3 " X 1.8 " X 2')	
Bucket	1	70 X 45 X 515mm(2.8 " X 1.8 " X 1'8 ")	

#### CONTROL.2 IMPLEMENT LEVERS

Pilot pressure control type. Right lever is boom and bucket control, left lever for swing and arm control.



#### **HYDRAULIC SYSTEM**

- 2 Variable displacement axial piston tandem type pumps.
- 2 Gear pumps and control valve (9-spool) of section block construction. This original design enables both independent and combined operations of all function, joystick control type levers.

#### **DX27Z**

Main pumps	2 variable displacement axial piston pumps max flow: 2 x 26.4 $\ell$ /min + 18.9 $\ell$ /min ( 2 X 6.97 US gpm + 5US gpm, 2 X 5.81 lmp gpm + 4.2 lmp gpm)
Pilot pump	Gear pump - max flow: 11.2 $\ell$ /min (3 US gpm, 2.5 lmp gpm)
Maximum system pressure	Boom/Arm/Bucket: 220 kgf/cm²(215bar) Travel: 220 kgf/cm²(215bar) Swing: 220 kgf/cm²(215bar)

#### **DX30Z**

Main pumps	2 variable displacement axial piston pumps max flow: 2 x 37.2 l/min + 20.4 l/min (2 X 9.83 US gpm + 5.4 US gpm, 2 X 8.18 lmp gpm + 4.5 lmp gpm)
Pilot pump	Gear pump - max flow: 10.8 $\ell$ /min (2.9 US gpm, 2.4 lmp gpm)
Maximum system pressure	Boom/Arm/Bucket: 210 kgf/cm²(205 bar) Travel: 210 kgf/cm²(205 bar) Swing: 200 kgf/cm²(196 bar)

#### **SWING MECHANISM**

High-torque, axial piston motor with planetary reduction gear bathed in oil. Swing bearing is single-row, shear type ball bearing with inductionhardened internal gear. Internal gear and pinion gear immersed in lubricant. A swing lock secures the upper structure for transportation.

#### **DX27Z**

Swing speed	9.63 rpm
Rear swing radius	76omm(2'6") 835mm(2'9") - with Additional Weight

#### **DX30Z**

Swing speed	9.7 rpm
Rear swing radius	775mm(2'7") 850mm(2'9") - with Additional Weight

#### UNDERCARRIAGE

Tractor type undercarriage. Heavy duty track frame, all welded stressrelieved structure. Top grade materials are used for toughness. Side frames are welded, securely and rigidly to the track frame. Lifetime-lubricated track rollers, idlers and sprockets with floating seals. Hydraulic track adjusters with shock-absorbing recoil springs.

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

	DX27Z	DX30Z	
Lower rollers	3	4	
Track shoes	Rubber shoe	Rubber shoe	
Overall track length	1,970 mm (6′6″)	2,100 mm (6′11″)	
Shoe width	300mm(1')	300mm(1')	

#### ENVIRONMENT

A roomy, shock independent and low noise operator's cab, four-side safety glass windows gives excellent all-round visibility. the front window slides up and stores in the roof and the right side window can be opened for ventilation. Fully adjustable suspension seat. ISO standard cab.

LwA External noise	
Guaranteed Sound Power Level	93dB(A)(2000/14/EC)
LpA Operator noise	79dB (A) (ISO 6396)

#### WEIGHT

#### **DX27Z**

Boom 2,000 mm (6'7")/ Bucket SAE 0.08 m3 (0.11 yd3)/ Shoe 300m (1')

Arm Length Operating Weight Ground		Ground Pressure
1,100 mm(3 '7 ")	2,790 kg (6,150 lb)	0.27kgf/cm² (25 kpa, 3.7 psi)
1,300 mm(4'3")	*2898.5 kg (6,390 lb)	*0.28kgf/cm² (27 kpa, 3.9 psi)

<sup>\*</sup> with Additional Weight

Boom 2,280 mm (7'6")/ Bucket SAE 0.091  $m^3$  (0.12  $yd^3$ )/ Shoe 300m (1')

Arm Length Operating Weight Ground		Ground Pressure	
	1,190 mm(3′11″)	3,180 kg (7,011 lb)	0.294kgf/cm² (29 kpa, 4.2 psi)
	1,300 mm(4'3")	*3,284 kg (7,240 lb)	*0.305kgf/cm² (30 kpa, 4.3psi)

<sup>\*</sup> with Additional Weight

### BUCKET

#### **DX27Z**

Capacity Widt				Recommendation		
Capacity	ucity	Width		Weight	2,000mm (6	'7") Boom
PCSA, heaped	CECE heaped	Without side cutters	With side cutters		1,100mm (3'7")Arm	1,300mm (4'3")Arm
o.o8m³ (o.11yd³)	o.o7m³ (o.o9yd³)	448mm (1'6")	474mm (1'7")	58 kg (127.8 lb)	В	С

#### **DX30Z**

Capacity		h		Recommendation			
Capacity	Wide		Weight	2,28omm (7'6") Boom			
PCSA, heaped CECE hea	ed Without side cutters	With side cutters		1,190mm (3'11")Arm	1,300mm (4'3")Arm		
0.091m³ (0.12yd³) 0.078m³ (0.	yd³) 480mm (1'7")	506mm (1'8")	71.8 kg (158.3 lb)	В	С		

- A. Suitable for materials with density of 2,000 kg/m³ (3,370 lb/CU·yd) or less
- B. Suitable for materials with density of 1,600 kg/m $^3$  (2,700 lb/CU  $\cdot$  yd) or less
- C. Suitable for materials with density of 1,100 kg/m $^3$  (1,850 lb/CU  $\cdot$  yd) or less

#### DRIVE

Each track is driven by an independent, high-torque, axial piston motor through planetary reduction gears. Two levers control provide smooth travel or counter-rotation upon demand.

#### **DX27Z**

Travel speed (fast/slow)	4.3/2.4 km/h (2.8 /1.5 mph)
Maximum traction force	2,400 kgf ( 5,291 lbf)
Maximum grade	30° / 58%

#### **DX30Z**

Travel speed (fast/slow)	4.6/2.6 km/h (2.9 /1.6 mph)
Maximum traction force	2,700 kgf (5,940 lbf)
Maximum grade	30° / 58%

### **REFILL CAPACITIES**

#### **DX27Z**

Fuel tank	30 ℓ (7.93 US gal, 6.60 lmp gal)
Cooling system (Radiator capacity)	3.5 ℓ (0.93 US gal, 0.77 lmp gal)
Engine oil	5.5 ℓ (1.45 US gal, 1.21 lmp gal)
Final drive (each)	0.5 $\ell$ (0.13 US gal, 0.1 lmp gal)
Hydraulic system	45 $\ell$ (11.8 US gal, 9.9 lmp gal)
Hydraulic tank	30 ℓ (7.9 US gal, 6.6 lmp gal)

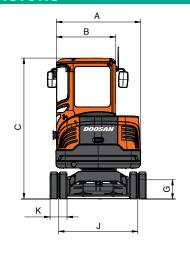
#### **DX30Z**

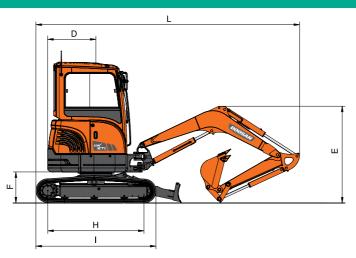
Fuel tank	$35 \ell$ ( $9.2$ US gal, $7.70$ lmp gal)
Cooling system (Radiator capacity)	3.5 ℓ (0.93 US gal, 0.77 lmp gal)
Engine oil	5.5 $\ell$ (1.45 US gal, 1.21 lmp gal)
Final drive (each)	0.5 $\ell$ (0.13 US gal, 0.11 lmp gal)
Hydraulic system	50 $\ell$ (13.21 US gal, 10.99 lmp gal)
Hydraulic tank	35 $\ell$ (9.25 US gal, 7.70 lmp gal)

## Dimensions & Working ranges

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### DIMENSIONS

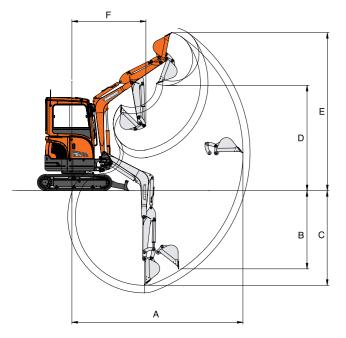




	Boom type	2,000mm(6'7")				
	Arm type	1,100mm(3 '7 ")	1,300mm(4'3")			
A	Overall width of upper structure	1,440mm(4′9″)				
В	Overall width of cab	1,030mm(3′5″)	←			
C	Overall height of cab	2,445mm(8'00")	←			
D	Tail swing radius	76omm(2'6")	*835mm(2'9")			
Ε	Overall height	1,490mm(4′10″)	←			
F	Clearance under counterweight	520mm(1′8″)	←			
G	Ground Clearance	285mm(11.3 ")	←			
Н	Tumbler distance	1,550mm(5 '1 ")	←			
ı	Track length	1,970mm(6'6")	←			
J	Track gauge	1,270mm(4'2")	←			
K	Track shoe width	300mm(1')	←			
L	Overall length	4,060mm(13'4")	←			

DIGGING FORCE (ISO)					
Bucket (PCSA) 0.08m <sup>3</sup>					
Digging force	2,200	kgf			
	19.8 kN				
	4,453 lbf				
Arm	1,100mm 1,300mm				
	1,455 kgf	1,305 kgf			
Digging force	14.3 kN	12.8 kN			
	3,208 lbf	2,877 lbf			

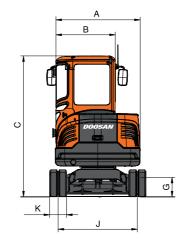
### **WORKING RANGE**

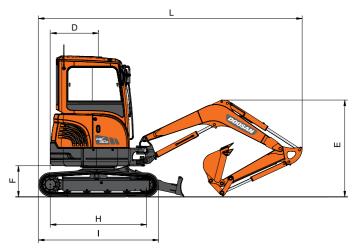


Boom type	2,000mm(6'7")			
Arm type	1,100mm (3 '7 ")	1,300mm (4'3")		
Bucket type (SAE)	o.o8m³ (o.11yd³)	0.08m³ (0.11yd³)		
A Max. Digging Reach	4,505mm (14 <i>'</i> 9 <i>"</i> )	4,690mm (15 '5 ")		
B Max. Vertical Wall Depth	2,295mm (7'6")	2,500mm (8 '2 ")		
C Max. Digging Depth	2,490mm (8 '2 ")	2,690mm (8′10″)		
D Max. Loading Height	2,775mm (9'1")	2,935mm (9′8″)		
E Max. Digging Height	4,165mm (13 <i>'</i> 8 <i>"</i> )	4,280mm (14 <i>'</i> 1 <i>"</i> )		
F Min. Swing Radius	1,950mm (6′5″)	1,985mm (6'6")		

### DIMENSIONS

**DX30Z** 

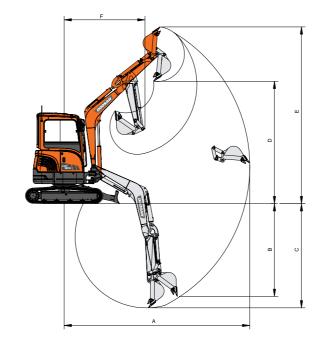




	Boom type	2,280mm(7'6")			
	Arm type	1,190mm(3 '11 ")	1,300mm(4'3")		
Α	Overall width of upper structure	1,440mm(4 <i>'</i> 9 <i>"</i> )			
В	Overall width of cab	1,030mm(3 '5 ")	←		
C	Overall height of cab	2,480mm(8'2")	←		
D	Tail swing radius	775mm(2 <i>'</i> 7 <i>"</i> )	* 850mm(2'9")		
E	Overall height	1,590mm(5 '3 ")	←		
F	Clearance under counterweight	535mm(1'9")	←		
G	Ground Clearance	300mm(1')	←		
Н	Tumbler distance	1,650mm(5 '5 ")	←		
1	Track length	2,100mm(6'11")	←		
J	Track gauge	1,250mm(4 '1 ")	←		
K	Track shoe width	300mm(1')	←		
L	Overall length	4,507mm(14'9")	←		

DIGGING FORCE (ISO)					
Bucket (PCSA) 0.091m <sup>3</sup>					
	2,800	kgf			
Digging force	27.5 kN				
	6,173 lbf				
Arm	1,190mm 1,300mm				
	1,800 kgf	1,700 kgf			
Digging force	17.7 kN	16.7 kN			
	3,968 lbf	3,748 lbf			

### **WORKING RANGE**

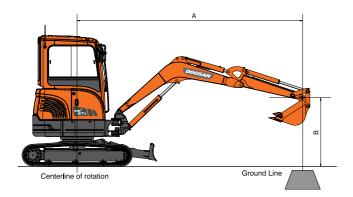


Boom type	2,28omm(7'6")			
Arm type	1,190mm (3'11")	1,300mm (4'3")		
Bucket type (SAE)	0.09m³ (0.12yd³)	0.09m³ (0.12yd³)		
A Max. Digging Reach	4,882mm (16'2")	4,984mm (16′4″)		
B Max. Vertical Wall Depth	2,278mm (7'6")	2,383mm (7'10")		
C Max. Digging Depth	2,838mm (9'4")	2,948mm (9′8″)		
D Max. Loading Height	3 <b>,</b> 122mm (10 <i>'</i> 3 <i>"</i> )	3 <b>,</b> 185mm (10 <i>'</i> 5 <i>"</i> )		
E Max. Digging Height	4,555mm (14'11")	4 <b>,</b> 618mm (15 '2 ")		
F Min. Swing Radius	2,015mm (6'7")	2,034mm (6'8")		

<sup>\*</sup> with Additional Weight

<sup>\*</sup> with Additional Weight

## **Lifting Capacity**



#### [ Dozer up ]

Metric	Boom :	2,000mm(6'7"	) Arm : 1,1	oomm(3'7")	Bucket : SAE	0.08m³(0.11y	d³) CECE o.o7r	n³ (o.o9yd³)	Shoe: 300mr	n(1')	Unit: 1,000kg
A(m)		2	2	.5		3	3.	5		Max. Reach	
B(m)	<u> </u>	<del>(</del>	4	( <del>]</del>	<u>-</u>	C#	<u> </u>	<del>(</del>	4	<del>(</del>	A(m)
3					0.54	0.45			0.53	0.44	3.03
2.5					0.54	0.45			0.44	0.36	3.39
2			*0.68	0.60	0.54	0.45	0.41	0.34	0.39	0.32	3.63
1.5	1.03	0.83	0.71	0.58	0.53	0.44	0.41	0.34	0.37	0.30	3.76
1			0.69	0.57	0.52	0.43	0.41	0.34	0.36	0.30	3.80
0.5	0.97	0.77	0.68	0.55	0.51	0.42	0.40	0.33	0.36	0.30	3.76
O (Ground)	0.96	0.77	0.67	0.55	0.51	0.42	0.40	0.33	0.38	0.31	3.63
-0.5	0.96	0.77	0.67	0.55	0.51	0.42			0.42	0.35	3.40
-1	0.97	0.78	0.67	0.55	0.51	0.42			0.50	0.41	3.04
-1.5	0.99	0.79							0.70	0.58	2.46

Feet											Unit: 1,000lb
A(ft)		6	8	3	1	0	1:	2		Max. Reach	
B(ft)	4	<del>C</del>	<del>U</del>	( <del> </del>	<del>U</del>	<del>(</del>	4		<u>U</u>	<del>(</del>	A(ft)
10									1.19	0.99	9.79
8					1.16	0.96			0.95	0.79	11.25
6			1.65	1.36	1.15	0.95	0.85	0.70	0.84	0.70	12.08
4			1.60	1.31	1.13	0.93	0.84	0.70	0.79	0.66	12.44
2			1.56	1.27	1.11	0.91	0.83	0.69	0.79	0.66	12.39
O (Ground)	2.48	1.96	1.54	1.25	1.09	0.90			0.84	0.69	11.91
-2	2.49	1.97	1.54	1.25	1.09	0.90			0.95	0.79	10.94
-4	2.52	2.00	1.55	1.27					1.24	1.02	9.25

#### [ Dozer Down ]

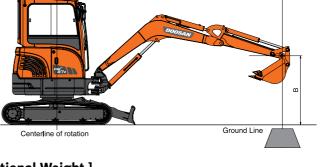
Metric	Boom :	2,000mm(6'7"	) Arm : 1,1	oomm(3'7")	Bucket : SAE		d³) CECE o.o7r	m³ (o.o9yd³)	Shoe : 300mi	m(1')	Unit : 1,000kg
A(m)		2	2	.5		3	3	.5		Max. Reach	
B(m)	4	<del>[</del>	4	<del>[]</del>	<u> </u>	<del>(</del> F	<u> </u>	<b>(</b>	4	<del>[]</del>	A(m)
3					*0.60	0.44			*0.60	0.44	3.03
2.5					*0.58	0.45			*0.61	0.36	3.39
2			*0.68	0.60	*0.63	0.44	*0.61	0.34	*0.62	0.32	3.63
1.5	*1.20	0.83	*0.87	0.58	*0.73	0.44	*0.65	0.34	*0.63	0.30	3.76
1			*1.06	0.57	*0.83	0.43	*0.70	0.34	*0.66	0.30	3.80
0.5	*1.27	0.77	*1.19	0.55	*0.91	0.42	*0.74	0.33	*0.68	0.30	3.76
O (Ground)	*1.70	0.77	*1.25	0.55	*0.94	0.42	*0.75	0.33	*0.71	0.31	3.63
-0.5	*1.69	0.77	*1.22	0.55	*0.92	0.42			*0.74	0.35	3.40
-1	*1.50	0.78	*1.09	0.55	*0.79	0.42			*0.77	0.41	3.04
-1.5	*1.12	0.79							*0.78	0.57	2.46

Feet											Unit : 1,000lb
A(ft)		6		8	1	10	1	2		Max. Reach	
B(ft)	4	( <del>]</del>	4	( <del>]</del>	4	<b>(</b>	4	<del>(</del>	4	( <del> </del>	A(ft)
10									*1.33	0.99	9.79
8					*1.29	0.96			*1.34	0.78	11.25
6			*1.67	1.36	*1.45	0.95	*1.37	0.70	*1.37	0.69	12.08
4			*2.24	1.31	*1.70	0.93	*1.45	0.70	*1.42	0.66	12.44
2			*2.69	1.27	*1.92	0.91	*1.54	0.69	*1.49	0.65	12.39
O (Ground)	*2.79	1.95	*2.86	1.25	*2.03	0.90			*1.56	0.69	11.91
-2	*4.17	1.97	*2.74	1.25	*1.95	0.90			*1.64	0.79	10.94
-4	*3.39	1.99	*2.26	1.26					*1.71	1.02	9.25

: Rating Over Front

: Rating Over Side or 360 degree

- The load point is a hook located on the back of the bucket.
   \* Rated loads are based on hydraulic capacity.
   Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.



#### [Dozer up - Option Arm & Additional Weight]

Metric	Boom:	2,000mm(6'7"	) Arm : 1,30	omm(4'3")	Bucket : SAE	0.08m³(0.11y	d³) CECE 0.071	m³ (o.o9yd³)	Shoe : 300mi	n(1')	Unit : 1,000kg
A(m)		2	2	.5		3	3	-5		Max. Reach	
B(m)	4	<b>(</b>	<u> </u>	( <del>]</del>	<del>U</del>	( <del> </del>	<u> </u>	( <del> </del>	<u> </u>	<b>(</b>	A(m)
3.5									*0.55	0.55	2.76
3					*0.50	0.49			0.51	0.42	3.27
2.5					*0.50	0.49	0.46	0.38	0.43	0.36	3.61
2					*0.57	0.49	0.45	0.38	0.39	0.33	3.82
1.5	*1.00	0.91	*0.77	0.64	0.58	0.48	0.45	0.38	0.37	0.31	3.95
1	1.08	0.87	0.75	0.62	0.57	0.45	0.45	0.37	0.36	0.30	3.99
0.5	1.05	0.85	0.74	0.61	0.56	0.47	0.44	0.37	0.36	0.30	3.95
O (Ground)	1.04	0.84	0.73	0.60	0.55	0.46	0.44	0.36	0.38	0.32	3.83
-0.5	1.04	0.84	0.73	0.59	0.55	0.46	0.44	0.36	0.42	0.35	3.61
-1	1.05	0.84	0.73	0.60	0.55	0.45			0.48	0.40	3.28
-1.5	1.06	0.85	0.73	0.60					0.63	0.52	2.78

Feet											Unit : 1,000lb
A(ft)		6	:	8	10		1	2		Max. Reach	
B(ft)	6	( <del> </del>	<b>-</b>	( <del>C</del>	<u> </u>	<b>(</b>	4	<del>(</del>	<u> </u>	<del>[</del>	A(ft)
10					*1.13	1.05			1.14	0.95	10.61
8					*1.13	1.06			0.94	0.78	11.94
6			*1.43	*1.43	1.25	1.05	0.93	0.78	0.84	0.70	12.71
4			1.75	1.44	1.23	1.02	0.92	0.77	0.80	0.67	13.05
2			1.70	1.39	1.20	1.00	0.91	0.76	0.80	0.67	13.00
O (Ground)	2.68	2.13	1.67	1.37	1.19	0.98	0.90	0.75	0.84	0.70	12.56
-2	2.69	2.13	1.66	1.36	1.18	0.98			0.94	0.78	11.65
-4	2.71	2.15	1.67	1.37	1.19	0.99			1.17	0.97	10.13
-4	*2.39	2.20							*1.65	1.57	7.43

### [Dozer down - Option Arm & Additional Weight]

Metric	Boom:	2,000mm(6'7")	) Arm : 1,30	oomm(4'3")	Bucket : SAE		d³) CECE o.o7r	m³ (o.o9yd³)	Shoe: 300mr	n(1')	Unit : 1,000kg
A(m)		2	2	-5		3	3	.5		Max. Reach	
B(m)	4	( <del>L</del> a	8	<b>(</b>	<u> </u>	( <del>]</del>	<u> </u>	( <del> </del>	<u> </u>	( <del>]</del>	A(m)
3.5									*0.55	*0.55	2.76
3					*0.50	0.49			*0.54	0.42	3.27
2.5					*0.50	0.49	*0.54	0.38	*0.55	0.36	3.61
2					*0.57	0.49	*0.56	0.38	*0.56	0.33	3.82
1.5	*1.00	0.91	*0.77	0.64	*0.66	0.48	*0.61	0.38	*0.58	0.31	3.95
1	*1.45	0.87	*0.98	0.62	*0.77	0.47	*0.66	0.37	*0.60	0.30	3.99
0.5	*1.51	0.85	*1.14	0.61	*0.87	0.46	*0.72	0.37	*0.63	0.30	3.95
O (Ground)	*1.68	0.84	*1.23	0.60	*0.93	0.46	*0.75	0.36	*0.65	0.32	3.83
-0.5	*1.74	0.84	*1.23	0.59	*0.93	0.45	*0.73	0.36	*0.68	0.35	3.61
-1	*1.59	0.84	*1.15	0.60	*0.86	0.45			*0.72	0.40	3.28
-1.5	*1.30	0.85	*0.93	0.60					*0.75	0.52	2.78

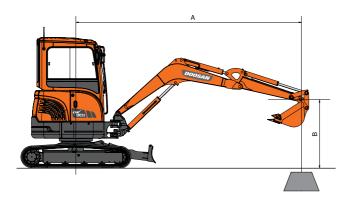
Feet											Unit : 1,000lb
A(ft)		6		8	1	10	1	2		Max. Reach	
B(ft)	<u> </u>	<del>[</del>	<u> </u>	<del>G</del>	<u> </u>	<del>(</del>	<u> </u>	<del>(</del>	<u> </u>	<del>(</del>	A(ft)
10					*1.13	1.05			*1.20	0.95	10.61
8					*1.13	1.06			*1.22	0.78	11.94
6			*1.43	*1.43	*1.31	1.05	*1.25	0.78	*1.26	0.70	12.71
4			*2.03	1.44	*1.58	1.02	*1.37	0.77	*1.31	0.67	13.05
2			*2.55	1.39	*1.84	1.00	*1.49	0.76	*1.37	0.67	13.00
O (Ground)	*2.75	2.13	*2.81	1.37	*1.99	0.98	*1.54	0.75	*1.44	0.70	12.56
-2	*4.24	2.13	*2.79	1.36	*1.99	0.98			*1.52	0.78	11.65
-4	*3.73	2.15	*2.46	1.37	*1.66	0.99			*1.61	0.97	10.13
-4	*2.39	2.20							*1.65	1.57	7.43

- The load point is a hook located on the back of the bucket.
   \* Rated loads are based on hydraulic capacity.
   Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

: Rating Over Front

: Rating Over Side or 360 degree

## **Lifting Capacity**



#### [ Dozer up ]

Metric	Boom :	2,280mm(7'6"	Arm : 1,1	90mm(3'11") Bucket: SAE 0.09m³(0.12yd³) CECE 0.078m³(0.			78m³ (o.1oyd³)	Shoe : 300	mm(1')	Unit: 1,000kg	
A(m)		2	2	-5	:	3	3-	.5		Max. Reach	
B(m)	4	<del>[</del>	<del>U</del>	<del>(</del>	<u> </u>	C#	<u> </u>	CFP	4	<b>(</b>	A(m)
3					*0.50	0.50			0.55	0.38	3.50
2.5					*0.55	0.50	0.56	0.38	0.48	0.33	3.81
2	*0.90	*0.90	*0.73	0.66	*0.65	0.49	0.55	0.38	0.44	0.30	4.01
1.5			0.95	0.63	0.70	0.48	0.55	0.37	0.42	0.28	4.12
1			0.92	0.61	0.69	0.47	0.54	0.37	0.41	0.27	4.16
0.5			0.90	0.60	0.68	0.46	0.53	0.36	0.41	0.28	4.12
O (Ground)	*1.27	0.83	0.90	0.59	0.67	0.45	0.53	0.36	0.43	0.29	4.00
-0.5	1.31	0.83	0.90	0.59	0.67	0.45	0.53	0.35	0.47	0.31	3.80
-1	1.32	0.84	0.90	0.59	0.67	0.45			0.54	0.36	3.49
-1.5	1.34	0.86	0.91	0.60	0.68	0.46			0.67	0.45	3.02

reet											Unit : 1,000lb
A(ft)		6	8	3	:	10	:	12		Max. Reach	
B(ft)	4	<del>(</del>	4	<del>C</del>	4	<b>G</b>	4	<del>(</del>	4	<del>(</del>	A(ft)
10					*1.12	1.07			1.24	0.85	11.4
8					*1.23	1.06	1.14	0.78	1.05	0.71	12.7
6			*1.83	1.49	*1.51	1.04	1.13	0.77	0.95	0.64	13.4
4			2.14	1.42	1.49	1.01	1.12	0.76	0.91	0.61	13.7
2			2.08	1.37	1.47	0.98	1.10	0.74	0.91	0.61	13.7
O (Ground)	*2.10	*2.10	2.06	1.35	1.45	0.97	1.09	0.73	0.95	0.64	13.1
-2	3.43	2.14	2.06	1.35	1.44	0.96	1.09	0.73	1.06	0.71	12.3
-4	3.47	2.17	2.08	1.37	1.45	0.97			1.29	0.87	10.10

#### [ Dozer Down ]

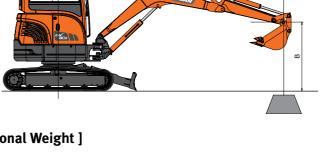
Metric	Boom :	2,280mm(7'6'	) Arm : 1,19	90mm(3'11")	") Bucket : SAE 0.09m³(0.12yd³) CECE 0.078m³ (0.10yd				Shoe : 300	mm(1')	Unit : 1,000kg
A(m)		2	2	5	3	3	3	-5		Max. Reach	
B(m)	4	<del>(</del>	4	( <del> </del>	<u> </u>	( <del> </del>	4	( <del> </del>	<u> </u>	<del>(</del>	A(m)
3					*0.50	0.50			*0.57	0.38	3.50
2.5					*0.55	0.49	*0.56	0.38	*0.59	0.33	3.81
2	*0.90	*0.90	*0.73	0.65	*0.65	0.49	*0.61	0.38	*0.61	0.30	4.01
1.5			*0.98	0.63	*0.78	0.48	*0.68	0.37	*0.63	0.28	4.12
1			*1.22	0.61	*0.92	0.46	*0.76	0.36	*0.66	0.27	4.16
0.5			*1.38	0.59	*1.02	0.45	*0.83	0.36	*0.69	0.28	4.12
O (Ground)	*1.27	0.83	*1.45	0.59	*1.09	0.45	*0.87	0.36	*0.72	0.29	4.00
-0.5	*2.00	0.83	*1.44	0.59	*1.10	0.45	*0.87	0.35	*0.76	0.31	3.80
-1	*1.88	0.84	*1.37	0.59	*1.05	0.45			*0.81	0.36	3.49
-1.5	*1.63	0.85	*1.20	0.60	*0.88	0.46			*0.87	0.45	3.02

Feet											Unit : 1,000lb
A(ft)		6		8	1	10		12		Max. Reach	
B(ft)	4	<del>(</del>	4	<del>(</del>	4	( <del>C</del>	4	<del>(</del>	4	( <del>c</del>	A(ft)
10					*1.12	1.07			*1.25	0.85	11.4
8					*1.23	1.06	*1.27	0.77	*1.30	0.71	12.7
6			*1.83	1.48	*1.51	1.04	*1.37	0.77	*1.35	0.64	13.4
4			*2.58	1.42	*1.86	1.01	*1.54	0.75	*1.42	0.61	13.7
2			*3.12	1.37	*2.16	0.98	*1.70	0.74	*1.50	0.60	13.7
O (Ground)	*2.10	*2.10	*3.32	1.35	*2.34	0.97	*1.80	0.73	*1.59	0.63	13.1
-2	*4.05	2.13	*3.28	1.35	*2.35	0.96	*1.77	0.73	*1.70	0.71	12.3
-4	*4.46	2.16	*2.99	1.36	*2.14	0.97			*1.83	0.86	10.10

: Rating Over Front

🔁 : Rating Over Side or 360 degree

- The load point is a hook located on the back of the bucket.
   \* Rated loads are based on hydraulic capacity.
   Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.



#### [Dozer up - Option Arm & Additional Weight]

Metric					Bucket: 5	SAE o.o9m³(o.:	12yd³) CECE o	.078m³ (0.10yd³)	Shoe: 30	oomm(1')	Unit: 1,000kg
A(m)		2	2	5		3	3	3-5		Max. Reach	
B(m)	6	<b>(</b>	4	( <del>]</del>	4	( <del>C</del>	<b>-</b>	( <del>]</del>	<u> </u>	<del>(</del>	A(m)
3					*0.46	*0.46	*0.52	0.41	*0.54	0.39	3.63
2.5					*0.51	*0.51	*0.53	0.42	*0.56	0.34	3.92
2			*0.66	*0.66	*0.61	0.53	*0.58	0.41	*0.58	0.31	4.11
1.5			*0.92	0.69	*0.74	0.52	*0.65	0.41	*0.60	0.29	4.22
1			*1.17	0.66	*0.88	0.51	*0.74	0.40	*0.63	0.29	4.26
0.5			*1.34	0.65	*1.00	0.50	*0.81	0.39	*0.66	0.29	4.22
O (Ground)	*1.29	0.90	*1.43	0.64	*1.07	0.49	*0.86	0.39	*0.69	0.30	4.11
-0.5	*1.90	0.90	*1.44	0.64	*1.09	0.49	*0.87	0.39	*0.73	0.33	3.91
-1	*1.92	0.91	*1.39	0.64	*1.06	0.49	*0.83	0.39	*0.78	0.37	3.61
-1.5	*1.70	0.92	*1.24	0.65	*0.93	0.49			*0.83	0.45	3.18

Feet Unit: 1,000lb												
A(ft)			8		10		12		Max. Reach			
B(ft)	<u> </u>	宁	<u> </u>	( <del>C</del> P	4	<del>(</del>	<u> </u>	( <del> </del>	4	( <del> </del>	A(ft)	
10					*1.02	*1.02			*1.19	0.87	11.9	
8					*1.14	1.14	*1.19	0.85	*1.24	0.74	12.11	
6			*1.68	1.61	*1.42	1.13	*1.31	0.84	*1.29	0.67	13.8	
4			*2.44	1.54	*1.78	1.10	*1.49	0.83	*1.36	0.64	13.11	
2			*3.03	1.49	*2.10	1.07	*1.66	0.81	*1.44	0.64	13.11	
O (Ground)	*2.15	*2.15	*3.29	1.46	*2.31	1.05	*1.78	0.80	*1.53	0.67	13.6	
-2	*3.82	2.30	*3.29	1.46	*2.35	1.05	*1.79	0.80	*1.63	0.74	12.8	
-4	*4.62	2.33	*3.06	1.47	*2.20	1.05			*1.76	0.88	11.3	

#### [Dozer down - Option Arm & Additional Weight]

Metric	Metric Boom: 2,280mm(7		7'6") Arm :	") Arm : 1,300mm(4'3")		Bucket: SAE o.o9m³(o.12yd³) CECE o.			Shoe: 3	oomm(1')	Unit: 1,000kg
A(m)		2		2.5		3		3.5		Max. Reach	1
B(m)	4	( <del> </del>	<b>-</b>	( <del> </del>	4	<del>(</del>	6	( <del> </del>	<u> </u>	( <del> </del>	A(m)
3					*0.46	*0.46	*0.52	0.41	*0.54	0.39	3.63
2.5					*0.51	*0.51	*0.53	0.42	*0.56	0.34	3.92
2			*0.66	*0.66	*0.61	0.53	*0.58	0.41	*0.58	0.31	4.11
1.5			*0.92	0.69	*0.74	0.52	*0.65	0.41	*0.60	0.29	4.22
1			*1.17	0.66	*0.88	0.51	*0.74	0.40	*0.63	0.29	4.26
0.5			*1.34	0.65	*1.00	0.50	*0.81	0.39	*0.66	0.29	4.22
O (Ground)	*1.29	0.90	*1.43	0.64	*1.07	0.49	*0.86	0.39	*0.69	0.30	4.11
-0.5	*1.90	0.90	*1.44	0.64	*1.09	0.49	*0.87	0.39	*0.73	0.33	3.91
-1	*1.92	0.91	*1.39	0.64	*1.06	0.49	*0.83	0.39	*0.78	0.37	3.61
-1.5	*1.70	0.92	*1.24	0.65	*0.93	0.49			*0.83	0.45	3.18

Feet Unit: 1,000lb											
A(ft)	6		8		10		12		Max. Reach		
B(ft)	4	<del>(</del>	4	<del>(F</del>	4	<del>(</del>	<u> </u>	( <del> </del>	4	<del>(</del> F	A(ft)
10					*1.02	*1.02			*1.19	0.87	11.9
8					*1.14	1.14	*1.19	0.85	*1.24	0.74	12.11
6			*1.68	1.61	*1.42	1.13	*1.31	0.84	*1.29	0.67	13.8
4			*2.44	1.54	*1.78	1.10	*1.49	0.83	*1.36	0.64	13.11
2			*3.03	1.49	*2.10	1.07	*1.66	0.81	*1.44	0.64	13.11
O (Ground)	*2.15	*2.15	*3.29	1.46	*2.31	1.05	*1.78	0.80	*1.53	0.67	13.6
-2	*3.82	2.30	*3.29	1.46	*2.35	1.05	*1.79	0.80	*1.63	0.74	12.8
-4	*4.62	2.33	*3.06	1.47	*2.20	1.05			*1.76	0.88	11.3

- The load point is a hook located on the back of the bucket.
   \* Rated loads are based on hydraulic capacity.
   Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

: Rating Over Front

🔁 : Rating Over Side or 360 degree

## DX27Z/DX30Z Standard & Optional equipment

### **STANDARD EQUIPMENT**

#### Cabin & Interior

- All weather sound suppressed type cab
- Adjustable suspension seat
- Pull-up type front window and removable lower front window
- Room light
- · Cigarette lighter
- Cup holder
- · Heater and defroster
- Fresh air filter
- Storage box

#### Safety

- ROPS & TOPS Cabin
- Hydraulic safety lock lever
- Safety glass
- Hammer for emergency escape

- Double element air cleaner
- Water separator
- Alternator (12V, 40 amps)
- Electric horn
- Halogen working lights (Boom mounted 1)
- Piping for hammer (One way) and for rotation (Two way)
- Rubber shoe
- Maintenance free battery

### **OPTIONAL EQUIPMENT**

#### Safety

- ROPS & TOPS Canopy (4-Pillar)
- Rotating beacon
- Accumulator
- Travel alarm
- Side mirror

#### Others

- Track guards(Front)
- Halogen working light
- Boom mounted 2
- Cabin/Canopy mounted 2

• Lever pattern changing valve

- Piping for quick clamp



