



Doosan Infracore  
Construction Equipment

# SOLAR500LCV

Engine Power : DIN 6271,net      232kw(316ps)@2,000 rpm  
SAE J 1349,net      232kw(312HP)@2,000 rpm

Operational Weight : 49,900kg (110,000 lb)

Bucket capacity(PCSA) : 2.01 ~ 3.6m<sup>3</sup>(2.63 ~ 4.71 cu.yd)

Width for 3.2m<sup>3</sup>(PCSA) With Cutter : 2,101mm (6'11")

Without Cutter : 2,024mm (6'8")

Width for 3.2m<sup>3</sup>(PCSA) With Cutter : 2,306mm (7'7")

Without Cutter : 2,229mm (7'4")



# Technical Data

## Engine

Model .....	DOOSAN DE12TIS
Displacement (Total dis. volume) .....	11,051cc (2.9gallon)
Rated Power/R.P.M .....	316 PS/232KW (2,000rpm)

## Hydraulic system

e-EPOS (Electronic Power Optimizing System) allows the operator to maximize work efficiency over a full range of operating conditions and to minimize fuel consumption.

- Hydraulic system assures fully independent and combined operations.
- Automatic 2 speed travel system for high traction force and travel speed.
- Cross-sensing and fuel saving pump system.
- Auto idle system.
- 2-Working / 2-power mode selection system.
- Computer aided engine-pump control.

**Pumps type** ..... variable displacement axial piston

**Max. flow rate** ..... 2 × 359 ℓ/min (2 × 94.8 gallon)

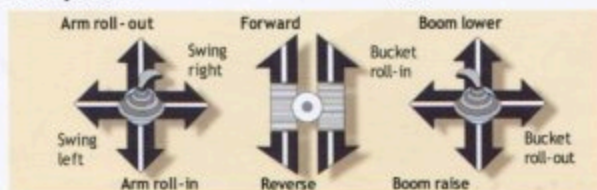
### Main relief set pressure

Boom/Arm/ Bucket .....	Normal : 320 kgf/cm <sup>2</sup> (4,550 psi)
	Power Boost : 350 kgf/cm <sup>2</sup> (4,970 psi)
Travel circuit .....	320 kgf/cm <sup>2</sup> (4,550 psi)

## Controls. 2 implement levers

**Lever control type** ..... Hydraulic pilot

**Lever pattern** ..... ISO



## Front

Arm and boom have been much more strengthened than S450LC-V GIANT.

## Buckets

Capacity		Width		Weight	Recommendation	
PCSA, heaped	CECE, heaped	Without side cutters	With side cutters		6.3m (20'8") Boom	
					2.4m (7'10") Arm	2.9m (9'6") Arm
2.01m <sup>3</sup> (2.63yd <sup>3</sup> )	1.8m <sup>3</sup>	1,374mm (54")	1,451mm (57")	1,970kg (4,343lb)	A	A
2.85m <sup>3</sup> (3.73yd <sup>3</sup> )	2.55m <sup>3</sup>	1,824mm (72")	1,901mm (75")	2,420kg (5,335lb)	A	A
3.2m <sup>3</sup> (4.19yd <sup>3</sup> )	2.87m <sup>3</sup>	2,024mm (80")	2,101mm (83")	2,675kg (5,897lb)	A	A
3.6m <sup>3</sup> (4.71yd <sup>3</sup> )	3.2m <sup>3</sup>	2,229mm (88")	2,306mm (91")	2,860kg (6,305lb)	A	B

A. Suitable for materials with density of 2,000 kg/m<sup>3</sup> (3,370 lb / cu.yd) or less  
 B. Suitable for materials with density of 1,600 kg/m<sup>3</sup> (2,700 lb / cu.yd) or less

## Undercarriage

Tractor type undercarriage. Heavy-duty track frame, all welded stress-relieved structure. Top grade materials are used for toughness. Side frames are welded, securely and rigidly, to the track frame. Lifetime-lubricated track rollers, idlers with floating seals and sprockets. Track shoes of induction-hardened rolled alloy with triple grousers. Specially heat-treated connecting pins. Hydraulic track adjusters with shock-absorbing recoil springs.

Using retract chasis ≥ 50 tons class to achieve high stability and productivity.

<b>Shoe width</b> .....	600mm (1'12")
<b>Tumbler distance</b> .....	4,470mm (14'8")

## Weight

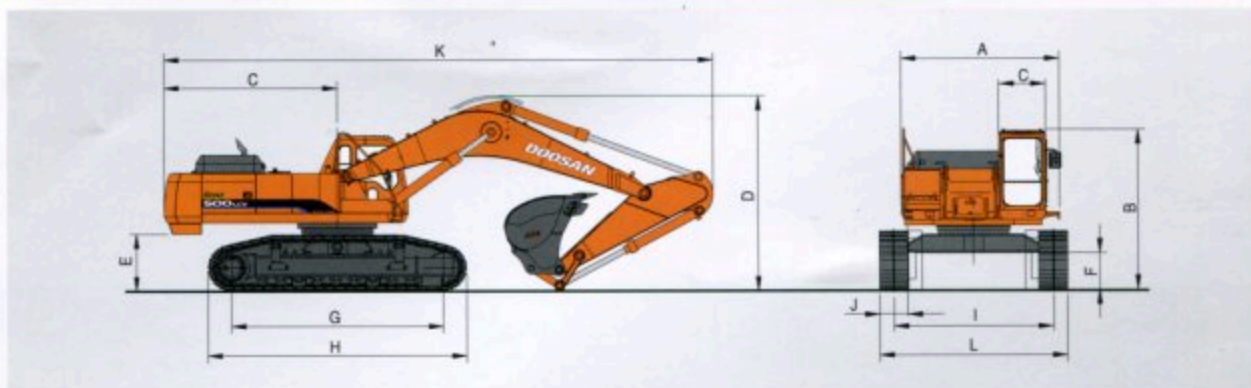
Equipped with 6.3m(20'8")boom, 2.4m(7'10")arm, and 3.2m<sup>3</sup>(4.19yd<sup>3</sup>; PCSA heaped) bucket and 600mm(24") shoes.

Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser	600mm (24")	49,900kg (110,000lb)	0.86kg/cm <sup>2</sup> (84kpa, 12.2psi)
	750mm (30")	50,600kg (111,500lb)	0.70kg/cm <sup>2</sup> (68kpa, 9.9psi)
	800mm (32")	50,900kg (112,200lb)	0.66kg/cm <sup>2</sup> (64kpa, 9.4psi)
	900mm (35")	51,400 kg (113,300lb)	0.59kg/cm <sup>2</sup> (58kpa, 8.4psi)

## Service refill capacities

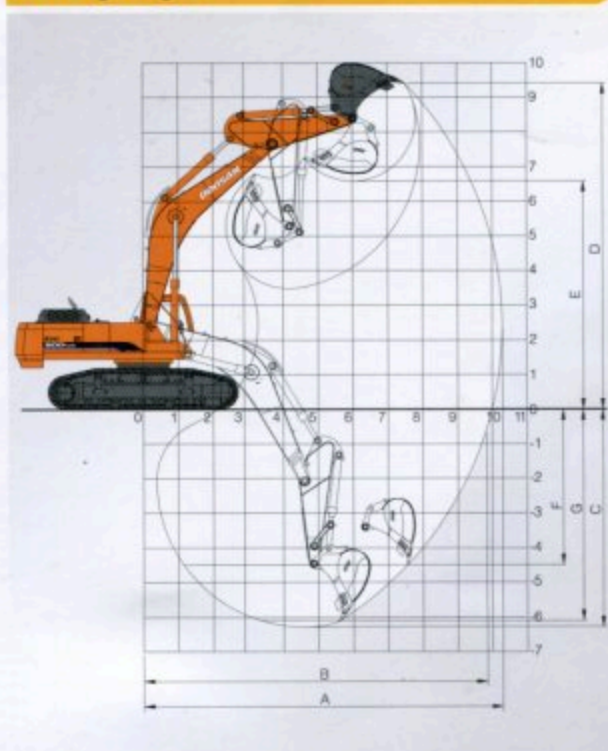
	Liters	US gal	Imp gal
Fuel tank .....	620	164	136.4
Cooling system .....	58	15.3	12.8
<b>Lubrication</b>	<b>Liters</b>	<b>US gal</b>	<b>Imp gal</b>
Engine oil .....	28	7.4	6.2
Swing drive (each) .....	4.0	1.1	0.9
Final drive (each) .....	6.0	1.6	1.3
Hydraulic tank .....	265	70	58.3

**Dimensions (6.3m(20' 8'') Boom, 2.4m(7' 10'') Arm, 600mm(24') Shoe)**



	5500LC-V Giant
A Overall width of upper structure/with cat walk	2,990mm(9'10'')/3,278mm(10'9'')
B Overall height of cab	3,350mm(11')
C Tail swing radius	3,665mm(12')
D Overall height(2.4m arm/2.9m arm)	4,140mm(13'7'')/4,250mm(13'11'')
E Clearance under counterweight	1,220mm(4')
F Ground clearance	760mm(2'6'')
G Tumbler distance	4,470mm(14'8'')
H Track length	5,465mm(17'11'')
I Track gauge (Extend/Retract)	3,300mm(10'10'')/2,740mm(8'12'')
J Track shoe width	600mm(24'')
K Overall length(2.4m arm/2.9m arm)	11,590mm(38'')/11,390mm(37'4'')
L Overall track width with 600 mm (24'') shoe	3,900mm(12'9'')/3,340mm(10'11'')

**Working ranges**





**Digging forces (Maximum radial tooth forces)**

	2.4m (7'10'')Arm	2.9m (9'6'')Arm
Bucket digging force *	27,300 kgf	27,500 kgf
	268 KN	270 KN
	60,200 lbf	60,600 lbf
Arm digging force *	29,400 kgf	25,400 kgf
	288 KN	249 KN
	64,800 lbf	56,000 lbf


\*At power boost

Boom length	6.3m (20'8'')	
	2.4m (7'10'')	2.9m (9'6'')
A. Max. digging reach	10,290mm (33' 9'')	10,720mm (35' 2'')
B. Max. digging reach at ground level	9,990mm (32' 9'')	10,430mm (34' 3'')
C. Max. digging depth	6,280mm (26' 7'')	6,780mm (22' 3'')
D. Max. digging height	9,410mm (30' 10'')	9,540mm (31' 4'')
E. Max. dumping height	6,590mm (21' 7'')	6,680mm (21' 11'')
F. Max. vertical wall digging depth	521mm (1' 9'')	1,090mm (3' 7'')
G. Max. digging depth (8' level)	6,050mm (21' 7'')	6,570mm (21' 7'')

 **TEREX NHL**   
Rigid Hauler

  
**DOOSAN**

Construction Equipment  
Diesel Forklift

 **Mercedes-Benz**  
Heavy Duty Truck

  
**KOBEXINDO**



## PT. KOBEXINDO TRACTORS

### Marketing Office :

Jl. Garuda No. 19, Kemayoran - Jakarta 10620

Phone : (021) 4220808 (hunting), Fax : (021) 4214959, 4242116

Email : [info@kobexindo.com](mailto:info@kobexindo.com)

### Head Office & After Sales Service Centre :

Gedung Kobexindo, Jl. Raya Bekasi - Karawang Km. 58, Cikarang Timur - Bekasi 17823

Phone : (021) 8914-0888, Fax : (021) 8914-0055

Website : <http://www.kobexindo.com>

### Branch Office :

Balikpapan : Jl. Kol. Syarifudin Yoes No. 91 Rt. 3, Sepinggan, Balikpapan, Kalimantan Timur  
Telp : (62-542) 761377, 760989 Fax : (62-542) 761728  
e-mail : [balikpapan@kobexindo.com](mailto:balikpapan@kobexindo.com)

Surabaya : Jl. Raya Bardera Juanda Km. 3 Sedati Agung, Sidoarjo, Surabaya, Jawa Timur  
Telp : (62-31) 8688809 Fax : (62-31) 8661888  
e-mail : [surabaya@kobexindo.com](mailto:surabaya@kobexindo.com)

Banjarmasin : Jl. Jend. A. Yani KM 20.3 Lektabat, Banjarmasin, Banjarmasin 70712, Kalimantan Selatan  
Telp : (62-511) 4777218 Fax : (62-511) 4777318  
e-mail : [banjarmasin@kobexindo.com](mailto:banjarmasin@kobexindo.com)

Pekanbaru : Jl. Soekarno Hatta No. 1A, Pekanbaru, Riau  
Telp : (62-761) 37808 Fax : (62-761) 34050  
e-mail : [pekanbaru@kobexindo.com](mailto:pekanbaru@kobexindo.com)



The illustrations do not necessary show the product in standard version.  
All products and equipments are not available in all markets.  
Materials and specifications are subjects to change without prior notice.