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**DOOSAN**

Equipos para Construcción

RETROEXCAVADORA HDI

**DB100**



**DOOSAN**

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DIPBE-00-2112

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# ¡SIENTE ORGULLO AL TRABAJAR CON ELLA!

Doosan trabaja para construir equipos de movimiento de tierra de última generación, para entregar a cada operador el máximo rendimiento, mayor precisión, máquinas versátiles y calidad comprobada. ¡Lleva tu negocio al siguiente nivel y siente orgullo de trabajar con máquinas Doosan!

## POTENTE Y CONFIABLE MOTOR

- Motor Perkins con EPA, TIER II y E.U. regulación de emisiones de etapa II

## EXCELENTE VISIBILIDAD

- Amplio parabrisas de una sola pieza
- Diseño sencillo ofreciendo excelente visibilidad.

## UNA MÁQUINA ÚTIL

- Fácil acceso desde el suelo para que las mantenciones sean más fáciles
- Puntos de engrase accesibles desde el suelo para mayor seguridad y rapidez en la mantención
- La barra de seguridad integrada y el sistema de bloqueo garantizan la seguridad del operador

## EXCELENTE RENDIMIENTO

- Controles piloto que brindan al operador mayor precisión y control (Opcional)
- Brazo extensible que aumenta la versatilidad del equipo (Opcional)
- El diseño exclusivo de la pluma, proporciona excelente visibilidad, incidiendo en el rendimiento de la máquina al trabajar.

## OPERACIÓN CONFORTABLE

- Cabina de seis pilares con diseño certificado ROPS/FOPS para una operación segura.
- Dirección ajustable e inclinable.
- Ventanas laterales tipo visagra para una excelente ventilación.
- Mandos ergonómicos para un uso rápido y fácil.
- Asiento con suspensión y ajuste.

## UNA MÁQUINA POTENTE Y RENDIDORA

- Sistema de tracción en las cuatro ruedas está diseñado para activarse sobre la marcha, mejorando el rendimiento del equipo en terrenos difíciles (Opcional)
- Estructura de calidad diseñada para mayor durabilidad y mayor capacidad de elevación
- La función automática de retorno a la excavación, reduce los tiempos del ciclo de carga

## MECANISMO HIDRÁULICO MEJORADO

- El sistema de control de flujo ajustable (AFCS) optimiza la potencia de desplazamiento del equipo al desplazarse por carretera.
- El sistema de seguridad estabilizador protege tanto en subidas como bajadas

# ESPECIFICACIONES TÉCNICAS

## MOTOR

Model
Perkins / 1104C-44T
Horsepower
GROSS POWER : 100 HP (74.t.kW) @ 2,200rpm NET POWER : 9t HP (71 kW) @ 2,200 rpm
Type
4-stroke, water cooled turbocharged.
Non-road emission standards
Certified to EPA Tier II / EU stage II
Max torque
42 kg·m @ 1,3t0 rpm
Piston displacement
4.4 l
Fuel
Diesel

## SISTEMA HIDRÁULICO

System type
Open center
Pump type
Tandem gear pump
Pump flow
138.4 L/min (Steering + Attachment)
System Pressure
2t0 kg/cm <sup>2</sup>
Loader valve
- Mechanical control (Standard) : 1 Lever - Pilot control (Option) : 1 Joystick, Boom float, Bucket return to dig
Backhoe valve
- Mechanical control (Standard) : 2 Levers - Pilot control (Optional) : 2 Joysticks Pilot control (Excavator ISO control pattern is standard) Optional pattern change valve for excavator (ISO) control pattern, Backhoe (SAE) control pattern
Stabilizer Control
- Mechanical Control (Standard) : 2 Levers - Pilot Control (Option) : 2 small levers - Stabilizer Safety lock valve (Standard)

## ELÉCTRICO

Voltage
12 volts
Alternator
100 amp
Battery
8t0 CCA (Standard) = 1 EA

## PESOS OPERATIVOS

Standard configuration
7,440 kg 2 WD, GP bucket (0.8 m <sup>3</sup> ), counter weight (3t0 kg), ROPS/FOPS canopy, mono dipper
Optional configuration
8,230 kg 4 WD, MP bucket (1.0 m <sup>3</sup> ), counter weight (1t0 kg), ROPS/FOPS cabin, ext. dipper
Add-on weight
Counter weight tt0 kg Drive shaft & T/M under guard tt kg Fork 170 kg

## NEUMÁTICOS

Front
STD : 11L-16 SL, 12 PR (2 WD) OPT : 12.t / 80-18, 12 PR (4 WD)
Rear
STD : 19.t-24, 12PR OPT : 16.9-28, 12PR

## CAPACIDADES CARGA EQUIPO

Fuel tank
127 l
Engine coolant water
19 l
Engine oil with filter
8 l
Hyd. tank with filter
t0 l
Hyd. system total
93 l
Transmission and torque converter
18 l
Front axle (4 WD)
8 l
Rear axle
16 l

## ADITAMENTOS

Buckets
0.2 m <sup>3</sup> (STD) 0.17 m <sup>3</sup> 0.26 m <sup>3</sup>
Boom
2.63 m (STD) 2.81 m
Arm
2.0 m (STD) 2.0 m ~ 3.12 m

## BALDES

Capacity	Remark	Capacity	Remark
0.8 m <sup>3</sup>	GP BOCE (STD)	0.9 m <sup>3</sup>	GP TOOTH
1.0 m <sup>3</sup>	GP BOCE	1.0 m <sup>3</sup>	MP
0.7 m <sup>3</sup>	GP TOOTH	1.0 m <sup>3</sup>	MP WITH FORK

\* GP : General Purpose, MP : Multi Purpose  
\* BOCE : Bolt on Cutting Edge

## CONTRAPESO

Description
Weight
None, Guard Front
10 kg
Casting, Additional
1t0 kg
Casting (STD)
3t0 kg
Casting Additional for Telescopic Arm
tt0 kg

## TREN DE POTENCIA

Transmission
4-speed helical-cut gears, full powershift standard; electric clutch cutoff on loader lever
Maximum travel speed with standard tire

DB100	Gear 1	Gear 2	Gear 3	Gear 4
Forward (km/hr)	t.2	9.6	19.4	34.0
Reverse (km/hr) (Optional)	6.6	12.0	(19.0)	N/A

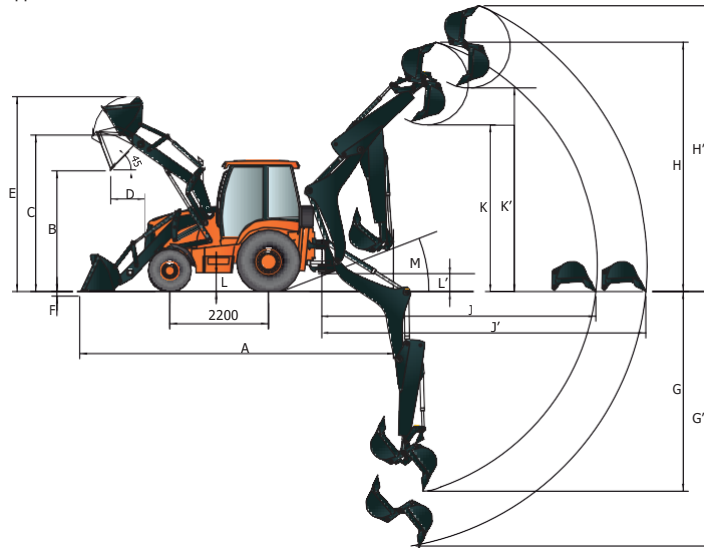
Torque converter
Single stage, dual phase
Differential
Hydraulic locking rear Push-button activation
Steering (Optional)
Hydrostatic power (emergency steering)
Brake
Service
- Power assisted, hydraulic wet disc, mounted inboard, self-adjusting and self-equalizing

Parking
- Spring-applied, hydraulically releases, wet, multi disc independent of service brakes with electric switch control

# DIMENSIONES Y RANGO DE TRABAJO

## DIMENSIONS

All dimensions are approximate.



## DESCRIPCIÓN

Dimension	Value
A Overall length	7,080 (23' 3")
B Dump clearance	2,710 (8' 11")
C Hinge pin height	3,4t0 (11' 4")
D Dump reach	80t (2' 8")
E Max loading height	4,230 (13' 11")
F Depth of bucket down	96 (0' 4")
G Max digging depth (STD)	4,34t (14' 3")
G' Max digging depth (EXT)	t,460 (17' 11")

## DESCRIPCIÓN

Unit : mm (C'in)

Dimension	Value
H Max digging height (STD)	t,t00 (18' 1")
H' Max digging height (EXT)	6,1t0 (20' 2")
J Max digging reach (STD)	t,830 (19' 2")
J' Max digging reach (EXT)	6,860 (22' 6")
K Max dumping height (STD)	3,t8t (11' 9")
K' Max dumping height (EXT)	4,230 (13' 11")
L Minimum ground clearance	3tt (1' 2")
L' Height of outrigger	3tt (1' 2")
M Departure angle	19°

## BALDES

	GP Bucket	MP Bucket
Transport length	7,080 (23' 3")	7,210 (23' 8")
Transport height	3,680 (12' 1")	3,680 (12' t")
Transport width	2,2t0 (7' t")	2,300 (7' 7")

# STANDARD/OPCIONAL

## MOTOR

STD OPT

Perkins 1104C-44T	•	
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## SISTEMA HIDRÁULICO

STD OPT

Backhoe controls, 2-lever mechanical	•	
Loader controls, 1-lever mechanical	•	
Stabilizer controls, 2-lever mechanical	•	
Fan, suction	•	
Hydraulic hose face seals, o-ring	•	
Hydraulic oil cooler, T/M cooler	•	
Hydraulic valves, loader 3rd Function		•
Hydraulic valves, backhoe 7th Function		•
Hydraulic lines		•
One-way, backhoe breaker line		•
Pilot control (Backhoe, Loader, Stabilizers all together)		•

## CAB & INTERIOR

STD OPT

Air cleaner	•	
Alarm, back-up	•	
Radio		•
Coolant/Antifreeze	•	
Floor mat	•	
Gauges : coolant temperature, fuel level, tachometer, hour meter	•	
Indicators: Engine oil pressure, T/M oil temp, diff. lock, coolant temp, fuel level, battery charge, air cleaner, high beam, parking	•	
Instrument panel lights	•	
Seat belt, retractable (11 mm / 2 in)	•	
Seat, suspension with armrest	•	
Storage compartment, internal	•	
Throttles, hand and foot	•	
Transmission neutralizer button switch	•	
Air conditioner & Heater		•
Air conditioner only		•
Fuel warmer		•
Speed meter		•
Climate control system		•
Cabin ROPS / FOPS		•
Canopy ROPS / FOPS	•	
Canopy ROPS / FOPS with front shield		•

## SEGURIDAD

STD OPT

Differential lock	•	
Brakes, oil disc, dual pedals, interlocking	•	
Flashing hazard/signal lights	•	
Working lights (2 front, 2 rear)	•	
Machine security system	•	
Mirror, rear view	•	
Parking brake	•	
Stop and tail lights	•	
Swing transport lock	•	
Warning horn, electric	•	
Grill guard bumper		•
Front drive shaft, guards		•
Work lights (4 front, 4 rear)		•
Rotating beacon		•
Power boosted brake		•
Pilot control safety system		•
Clam safety system		•

## ADITAMENTOS

STD OPT

Stabilizers (Pad for street)			•
Backhoe			
Buckets	0.2 m <sup>3</sup> (0.26 yd <sup>3</sup> )		•
	0.17 m <sup>3</sup> (0.22 yd <sup>3</sup> )		•
	0.26 m <sup>3</sup> (0.34 yd <sup>3</sup> )		•
Boom	2.63 m for Heavy duty		•
	2.63 m		•
	2.81 m		•
Dipper	2.00 m ~3.12 m (Telescopic)		•
	2.00 m		•
Front loader			
General purpose buckets	0.8 m <sup>3</sup> (1.04 yd <sup>3</sup> ) - Bolt-on cutting edge		•
	0.7 m <sup>3</sup> (0.92 yd <sup>3</sup> ) - Bolt-on teeth		•
	0.9 m <sup>3</sup> (1.18 yd <sup>3</sup> ) - Bolt-on teeth		•
	1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) - Bolt-on cutting edge		•
Multi purpose buckets	1.0 m <sup>3</sup> (1.3 yd <sup>3</sup> )		•
	1.0 m <sup>3</sup> (1.3 yd <sup>3</sup> ) w/ forks		•

## OTROS

STD OPT

Battery, maintenance-free, 8t0 CCA x 1			•
Battery, maintenance-free, 630 CCA x 2			•
Battery disconnect switch			•
Filters, spin-on			•
Fuel prefilter with water separator			•
Glow plug (cold starting aid)			•
Ground level fuel fill			•
Power receptacle, 12V			•
Power steering, hydrostatic			•
Emergency steering			•
Toolbox, external, lockable			•
Torque converter			•
Transmission : Power shiC, 4 forward, 2 reverse, 2 wheel drive			•
Transmission : Power shiC, 4 forward, 3 reverse, 4 wheel drive			•
Boom transport lock - Backhoe (Cylinder)			•
Boom locking bar - Loader			•
Mechanical quick coupler			•
Swing damper			•
Counter weights	Guard front, 10 kg (22 lb)		•
	Casting, 1t0 kg (331 lb)		•
	Casting, 3t0 kg (772 lb)		•
	Casting additional for telescopic arm, tt0 kg (1,213 lb)		•
Return-to-dig, loader			•
Ride control, loader			•
Control pattern selector			•

## TREN INFERIOR

STD OPT

Fenders, rear			•
Tilt steering wheel			•
Tire(Front) : 11L-16SL, 12PR(2WD, ATG)			•
Tire(Rear) : 19 t-24, 12PR(ATG)			•
Fenders, 4WD, front			•
Tire(Front) : 12.t/80-18, 12PR(4WD, ATG)			•
Tire(Rear) : 16.9-28, 12PR(ATG)			•

\* Standard and optional equipment may vary. Contact your Doosan dealer for more information. The machine may vary according to International standards.  
 \* The photos may include attachments and optional equipment that are not available in your area.  
 \* Materials and specifications are subject to change without advance notice.  
 \* All imperial measurements rounded off to the nearest pound or inch.