

> We are DEVELON

We trace our roots to 1937 as one of Korea's first large scale machine plant. Throughout time we have consistently delivered exceptional products and solutions.

DEVELON is a bold name that reflects our core ambition to continue developing onwards and leaving behind a positive footprint in our world. Moving forward, we seek to be part of our customers and partners' endeavor to build a better world.

Powered by **Innovation**



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Certain specification(s) are based on engineering calculations and are not actual measurements. Specification(s) are provided for comparison purposes only and are subject to change without notice. Specification(s) for your individual Develon equipment will vary based on normal variations in design, manufacturing, operating conditions, and other factors. Pictures of Develon units may show other than standard equipment.

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DEVELON

BACKHOE LOADERS

DB100AC DB100AS



Maximum power	90hp(67.1kW) - 100hp(74.6 kW)
Operating weight	7,780 kgf - 8,870 kgf
Bucket capacity	Bankhoe 0.22m ³ / Loader 1.26m ³

PRIDE AT WORK

Develon is committed to building state-of-the-art earthmoving equipment that delivers maximum performance, greater precision, versatile capabilities, and proven durability. own your work. own it with DEVELON.



POWERFUL AND RELIABLE ENGINE

- PERKINS 1104D-44TA engine with EU NRMM 97/68/EC, EURO III A
 - 1104D-44TA : DB100AS-3PM/A, DB100AC-3PM/A, DB100AS-3PW
- KIRLOSKAR 4R1040T with EU STAGE II regulation built for power, reliability and efficiency
 - 4R1040T : DB100AS-2KM, DB100AC-2KM
 - 4R1040TA1 : DB100AC-3KM

SERVICEABILITY

- Tilt-up hood provides easy access to engine compartment.
- All greasing points are accessible from ground level for safety and reduced maintenance time.
- Single layer cooling compartment-Easy to clean

ADVANCED PERFORMANCE SYSTEM

- Adjustable Flow Control System (AFCS) optimizes the travel power of the machine when traveling on the highway
- Smooth Road Control (SRC) system reduced cycle times, higher productivity and better fuel efficiency
- 4-wheel steering system offers Maneuverability, Stability, Turning radius, Versatility and Efficiency

EXCELLENT VISIBILITY

- One piece rounded windshield for wide span of view.
- Well designed loader frame offers excellent visibility.

COMFORTABLE OPERATION

- Cabin with ROPS / FOPS certified design for safe operation
- Tilting, adjustable steering column
- Hinged-type windows for excellent ventilation
- Ergonomic design and location of gauges, switches and levers for quick and easy use
- Suspension seat with full adjustment for improved operator comfort

BEST IN SEGMENT PRODUCTIVITY

- Higher breakout force
- Larger bucket capacity
- More traction
- Highest bucket reach with various loader and backhoe attachments
- Optimized engineering with global key components allows more power, less fuel and higher efficiency

* Photo may include optional equipment.

OUTSTANDING PERFORMANCE

DB100AC, DB100AS series provides the operator with best performance and productivity.



POWERFUL AND RELIABLE ENGINE

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AXLE AND BRAKES

Front & rear axles are designed for heavy duty to withstand the challenging Jobsite conditions. Outboard, planetary gears improve serviceability while multi wet disc type brakes eliminate possible external contamination. The parking brake can be easily activated from within the cab by the push of an electric switch.



EXCELLENT BACKHOE PERFORMANCE

The backhoe is inherently strong design, perfect for heavy duty applications. The boom allows good visibility into the trench when the operator is digging around buried obstructions such as water mains, sewer pipes, utility lines, etc. Pilot controls(option) improve operator control and precision when excavating. And an extendable dipper as an option significantly increases the machine's versatility.



WORK LIGHTS

4x4 LED Working lamp as standard provides excellent view in any operating environment

* Photo may include optional equipment.

1. FOUR WHEEL DRIVE

Four wheel drive system improves mobility and loader performance in ground conditions underfoot and can be activated on-the-go.

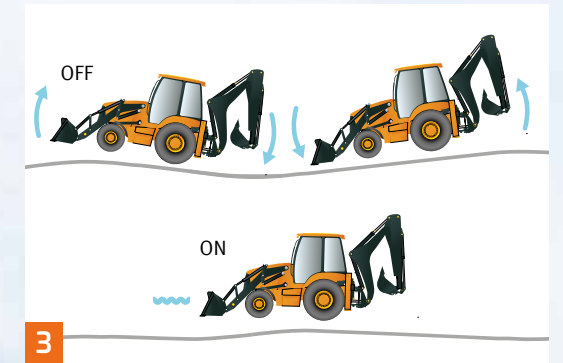
2. FOUR WHEEL STEERING SYSTEM

Designed to offer greater vehicle maneuverability while parking at low speeds and on tight off-road trails. The system increases low-speed agility and allows the driver to achieve a tighter turn circle or narrow spaces. Also designed to help improve vehicle stability when towing a trailer.



3. SMOOTH RIDE CONTROL SYSTEM (OPTIONAL)

Ride control system is available for improved operator comfort. Ride control reduces bounce and shock when traveling on the job site. The system is designed to minimize loader lift bounce when traveling over rough terrain to reduce material spillage and improve travel with a full bucket. The operator can engage ride control by flipping the switch on the side console. Ride control improves job site productivity, operator comfort and overall safety. Smooth Ride Control (SRC) system reduced cycle times, higher productivity and better fuel efficiency.



ENHANCED HYDRAULIC MECHANISM

Innovative hydraulic technologies make the DB100AC, DB100AS series fast, smooth and easy to control.

1. CARLISLE BRAKE U.S.A



2. HYDRO CONTROL / WALVOIL (ITALY) VALVE



3. WORLD FAMOUS CARRARO (ITALY) AXLE



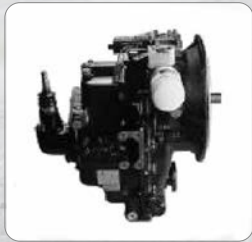
4. WORLD FAMOUS CASAPPA(ITALY) PUMP



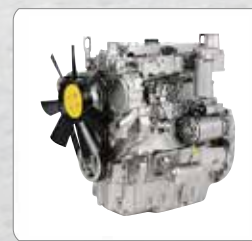
5. SINGLE LAYER RADIATOR COOLER (GERMANY) SBS - SIDE BY SIDE



6. WORLD FAMOUS CARRARO(ITALY) TRANSMISSION



ENGINE



FEATURE

96HP Proven Kirloskar engine 4R1040T(A1), Euro II(DB100AS-2KM, DB100AC-2KM, DB100AC-3KM),
100HP Perkins Engine 1104D-44TA EU III A(DB100AS-3PM/A, DB100AC-3PM/A, DB100AS-3PW)

ADVANTAGE

Most reliable, powerful.

BENEFIT

Fuel efficient engine in off highway application.



FEATURE

Engine has wet liners in Cylinders.

ADVANTAGE

Easy & cheaper to repair

COMFORTABLE OPERATION

You are at the Center of Comfort and Control

Develon's DB100AC, DB100AS deluxe design cabin maximizes operator comfort. World class cabin with great visibility, comfort, convenient and safety features.





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

ERGONOMIC DESIGN FOR OPERATORS

- Great vision with curved windshield.
- Plenty of legroom minimizes fatigue and allows the operator to work un-interrupted for long hours.
- A fully adjustable seat (Air-suspension) combined with ergonomically positioned controls.

SIDE CONSOLE WITH FULL INSTRUMENTATION

In the DB100AC, DB100AS series cab, all gauges switches and levers are conveniently located for easy access. Whether in the loader position or the backhoe position, the operator can easily reach all controls

EXCELLENT VISIBILITY

One-piece rounded front glass and large windows around the cab provide the operator with a full 360 degree range of visibility. Wide upper front window good visibility to cutting edge of bucket for loader. Sloped and narrow bonnet is designed for easy and safe work with the front loader.

CLIMATE CONTROL SYSTEM (OPTION)

A full heating, defrosting system keeps the operator comfortable with 15 air vents placed throughout the cab. Air conditioning system as an option well placed air vents within front, back and sides of seat provides operator with optimum temperature.

POWER SHIFT TRANSMISSION

Standard power shift transmission provides fast, easy and efficient operation. A convenient gear/shift selector allows for gear selection and forward, neutral or reverse direction.

BRAKES

Oil immersed wet disc brakes are individually actuated by two separated brake pedals. Brakes are self adjusting for improved service life.

OPERATOR COMFORT

DB100AC, DB100AS series are designed for the operator's comfort. The steering column and backhoe control tower can be tilted and adjusted for convenient operation. Deluxe, joystick levers, conveniently located switches and an AM/FM radio with mp3 input provide the pleasant operation. Hinge-type side windows can be opened for improved ventilation. Additionally, front and rear windshield wipers are equipped for excellent visibility during bad weather conditions.



SERVICEABILITY



QUICK AND EASY MAINTENANCE

Tilt-up hood provides easy access to the engine compartment. The one-piece hood tilts away for easy ground access to all critical services and grease points for maintenance and operator safety.

INTEGRATED SAFETY BAR

An integrated safety bar and locking pin are an integral part of the bucket cylinder, and help ensure operator safety.



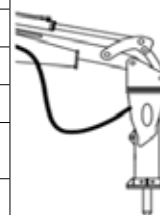
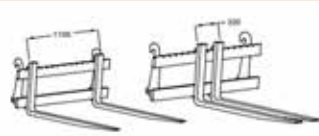
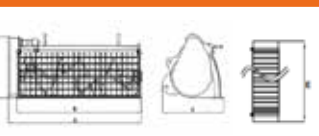
VISIBLE HYDRAULIC OIL LEVEL GAUGE

The hydraulic oil sight guage is installed on the side of the hydraulic tank for the convenient inspection from on ground level.



ATTACHMENTS



Backhoe Description	Specification			Application	Reference Picture No .	
	Volume	Length (L)				Other spec
Standard bucket	0.22 m3 (STD)	620 mm		4		
Trench bucket	0.1 m³	390 mm		3		
Light duty bucket	0.26 m³	758 mm		5		
Rock breaker (Atlascopco BL-85)	Description			Units	Capacities	
	Oil flow			L/min (gpm)	60-90 (15.85-23.80)	
	Impact rate			bpm	530-1,000	
	Operating pressure			bar (psi)	120-150 (1,450-2,175)	
	Back pressure acceptance			bar (psi)	30 (435)	
	Maximum hydraulic input power			kW	23	
	Piston accumulator gas pressure(min, at operating temperature 60-70°C and maximum hydraulic input power)			bar (psi)	12 (174)	
	Piston accumulator gas pressure(max(optimum), at operating temperature 60-70°C)			bar (psi)	16.5 (239)	
	Pressure relief valve on carrier			bar (psi)	180 (2,610)	
Loader Description	Specification				Application	Reference Picture No.
	Volume	Length (L)		Other spec		
General purpose bucket	1.26 m³	2,350 mm		N/A	To handle soil, sand, crush stone	No 1.
General purpose bucket with fork	1.1 m³	2,350 mm		Fork load carrng capacity : 1,000 kg Fork spread : 455-1,420 mm		No 2.
Multi purpose bucket	1.1 m³	L1 : 2,450 mm	L2 : 950 mm	N/A	For digging & loading, spreading material, grading, grabbing & dozing	No 3.
Multi purpose bucket with fork	1.1 m³	L1 : 2,450 mm	L2 : 950 mm	Fork load carrng capacity : 1,000 kg Fork spread : 455-1,420 mm		No 4.
Fork lift	Load Carrying capacity	Maximum opening		Minimum opening	To handle bricks, cement bags, length wooden piece, materials in pallet, etc.	No 5.
	1,200 kg	1,105 mm		320 mm		
Grabbing fork bucket	1.3 m³	2,350 mm		Fork max opening : 1,130 mm	Loose materials (coconut, waste)	No 6.
Log fork bucket	N/A	2,290 mm		Fork max opening : 1,120 mm	Long materials (logs,wooden etc)	No 7.
Sugarcane grabber	Load Carrying capacity	Maximum opening		Minimum closing	Sugercane & Bamboo sticks, logs etc. (at the height of 4,620 mm)	No 8.
	900 kg	1,400 mm		200 mm		
HDHV coir biomass bucket	2.7 m³	2,350 mm		Fork max opening : 1,390 mm	Loose materials (coconut, waste)	No 9.
Concrete mixer	Overall length (A)	Bucket length (B)		Overall height (C)	Overall width (D)	No 10.
	1,956 mm	1,818 mm		890 mm	898 mm	
	Flexible discharge hose (E)	Bucket capacity		Type of transmission	Aggregate recommended size	
	2,000 mm	600 ℓ		Chain drive	30 mm	
No 1.	No 2.	No 3.		No 4.	No 5.	
						
No 6.	No 7.	No 8.		No 9.	No 10.	
						

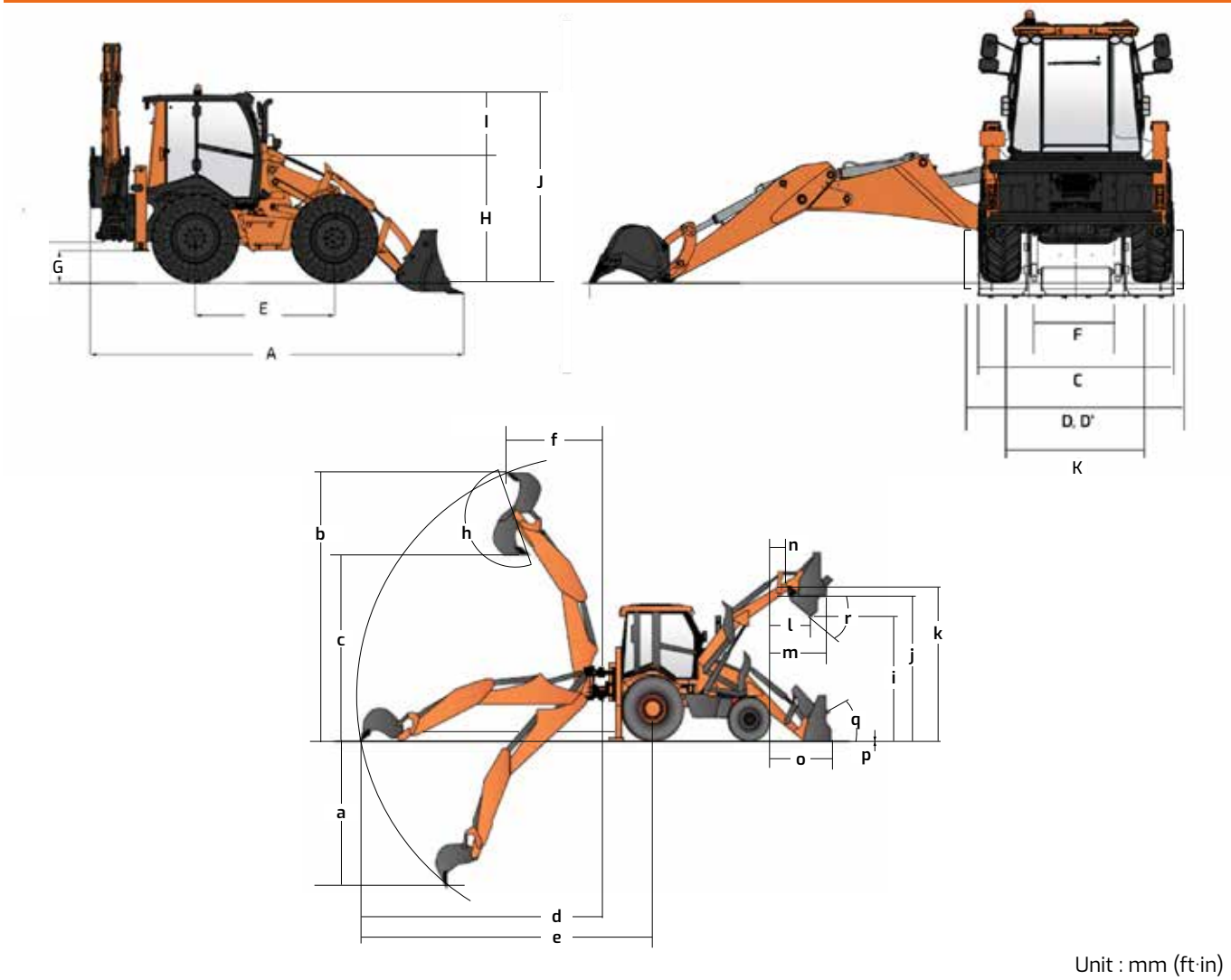
TECHNICAL SPECIFICATION

		DB100AS-2KM DB100AC-2KM	DB100AC-3KM	DB100AS-3PM/A DB100AC-3PM/A	DB100AS-3PW
ENGINE					
Maker / Model		Kilroskar / 4R1040T	Kilroskar / 4R1040TA1	Perkins / 1104D-44TA	
Horse power	Gross	96hp (71.6kW) @ 2,200 rpm	90hp (67.1kW) @ 2,200 rpm	100 hp (74.6 kW) @ 2,200 rpm	
	Net	86hp (64.1kW) @ 2,200 rpm	80hp (59.7kW) @ 2,200 rpm	86. 5 hp (64.5 kW) @ 2,200 rpm	
Type	No. of cylinder	4-cylinder			
	Aspiration	Turbocharged	Turbocharged + Intercooled		
Emission standards		EU stage II	EU stage III A		
Max torque (Gross)		375 Nm (38.2 kg-m) @ 1,400 rpm	350 Nm (35.7 kg-m) @ 1,400 rpm	410 Nm (41.8 kg-m) @ 1,400 rpm	
Piston displacement		4.16 ℓ		4.4 ℓ	
HYDRAULIC SYSTEM					
System type		Open Center			
Pump type		Gear pump			
Pump flow		145 LPM (L/min) @ 2,200rpm			
Main releif pressure		234.5 kg/cm^2 (230bar)			
ELECTRICAL					
Voltage		12 volts			
Alternator		90 amp		120 amp	
Battery		12 V x 1,050 CCA			
OPERATING WEIGHTS					
STD configuration	Side shift	8,500 kgf			8,870 kgf
	Center pivot	7,780 kgf			N/A
TIRES					
Front	STD	12.5/80x18-12PR		12.5/80x18-12PR	16.9x28-12PR
	OPT	400x70_20-16PR			N/A
Rear	STD	16.9x28-12PR		16.9x28-12PR	16.9x28-12PR
	OPT	19.5LX24-12PR			N/A

			DB100AS-2KM DB100AC-2KM	DB100AC-3KM	DB100AS-3PM/A DB100AC-3PM/A	DB100AS-3PW
SERVICE REFILL CAPACITIES						
Fuel tank			145 ℓ			
Engine	Coolant water		15 ℓ			
	Oil with filter		12 ℓ		10-12 ℓ	
Hydraulic	Tank with filter		100 ℓ(Refill capacity)			
	System total		120 ℓ			
4WD Total System	Manual T/M		12-13 ℓ			N/A
	Automatic T/M		N/A		16 ℓ	
Front axle (4WD)			6.5 ℓ			8.5 ℓ
Rear axle			14 ℓ			
POWERTRAIN						
Transmission	Gear shift type		Manual synchro shift option			N/A
			N/A		Automatic with manual power shift option	
	Travel speed	Forward (1/2/3/4)	5.8/9.2/20.3/40 km/h		Manual : 5.8/9.2/20.3/41 km/h (Automatic : 5.7/9.2/20.3/38.8)	5.2/8.4/18/36 km/h
		Reverse (1/2/3)	5.8/9.2/20.3 km/h		Manual : 5.8/9.2/20.3 km/h (Automatic : 5.7/9.2/20.3)	5.2/8.4/18 km/h
Axle	Steer type		Two wheel power steering			Four wheel power steering with 3 modes (Circular/crab/ Two wheel steer mode)
	Differ-ential lock	Front (4WD)	Normal			
		Front oscillation angle	±7 Deg			
		Rear	Hydraulically actuated controlled by foot operated switch -Optional			Hydraulically actuated controlled by foot operated switch -standard
Brake	Service		Wet discs			
	Parking		Wet discs - Hand oprated			

DIMENSIONS & WORKING RANGE

DIMENSIONS



Description	DB100A 2WS	DB100A 4WS
A Overall length (Transport width)	6,040 (19' 9")	
B Overall height (Transport width)	3,710 (12' 2")	
C Overall width (Transport width) without BKT	2,240 (7' 4")	2,370 (7' 9")
D Width over bucket (Transport width) * GP BKT	2,350 (7' 9")	
D' Width over bucket (Transport width) * MP BKT	2,450 (8' 1")	
E Wheel base	2,220 (7' 3")	
F King post travel	1,180 (3' 11")	
G Minimum ground clearance	480 (1' 7")	
H Slew ground clearance	650 (2' 1")	
I Height to top of bonnet	1,990 (6' 6")	
J Track width-Front / Rear	1,930/1,690	1,930/1,800
K Track width-Front / Rear	1,930/1,690	1,930/1,800
L Side reach to centre line of machine	6,040 (19' 9")	
M Tire outer to outer	2,240 (7' 4")	2,370 (7' 9")

BACKHOE WORKING RANGE

Description (Side shift)	Standard Arm	Telescopic (OPT)
a Max digging depth	4,770	5,830
b Max digging height	5,980	6,890
c Max dumping height	4,190	5,190
d Max digging reach	5,470	6,500
e Reach ground level to rear wheel center	6,770	7,800
f Reach at full height to slew center	2,820	3,610
g Height of stabilizer/outrigger	480 mm	
h Bucket rotation - power	188°	
Bucket tear out force	6,320 kgf	
Dipper tear out force	3,580 kgf	
Lift capacity to bucket pivot at full reach (without bucket fitted)	1,642 kgs	
Description (Center pivot)	Standard Arm	Telescopic (OPT)
a Max digging depth	4,820	5,930
b Max digging height	6,170	7,040
c Max dumping height	4,480	5,360
d Max digging reach	5,470	6,500
e Height of outrigger	6,770	7,800
f Max digging height	2,820	3,610
g Max digging reach	360 mm	
h Max dumping height	188°	
Bucket tear out force	6,320 kgf	
Dipper tear out force	3,580 kgf	
Lift capacity to bucket pivot at full reach (without bucket fitted)	1,642 kgs	

LOADER WORKING RANGE

Description	MP Bucket (1.26 m³)	GP Bucket (1.1 m³)
i Dump height	2,960 (9' 7")	
j Load over height	3,390 (11' 1")	
k Hinge pin height	3,610 (11' 1")	
l Dump reach (Reach at height bkt dumping)	890 (2' 1")	1,170 (3' 10")
m Reach at full height	1,280 (4' 2.3")	1,440 (4' 9")
n Pin forward reach	420 (1' 4.5")	540 (1' 9")
o Reach at ground	1,470 (4' 9")	1,750 (5' 9")
p Depth of bucket down (Ground Dig depth)	100 (3.9")	160 (6")
q Roll back at ground	49°	
r Dump angle	45°	
Bucket break-out force	8,793 kgf	
Loader Arm break-out force	5,642 kgf	
Pay load	2,000 kgf	

STANDARD & OPTIONAL

● : Standard ○ : Optional

	DB100AS-2KM DB100AC-2KM	DB100AC-3KM	DB100AS-3PM/A DB100AC-3PM/A	DB100AS-3PW
Engine				
Kirloskar - EU stage II (96HP)	●			
Kirloskar - EU stage III A (90HP)		●		
Perkins - EU stage III A (100HP)			●	●
Drive line				
4WD	●	●	●	●
Wheel steering				
Grab drive (4wheel steering)				●
Transmission				
Manual synchro shift	●	●	○	
Automatic with manual power shift			○	●
Axle				
Differential lock (foot s/w)	○	○	○	●
Cab & Interior				
Air conditioner	○	○	○	○
Air Seat Suspension	○	○	○	●
Pilot control joystics (Backhoe)	○	○	○	○
Mechanic control joystics (Loader)	●	●	●	●
SAE + Type pilot control valve	○	○	○	○
SAE x Type pilot control valve	○	○	○	○
*SAE type is only available when the backhoe pilot control joystick is selected as an option, while the ISO type is provided for the mechanical control joystick.				
Safety				
ROPS/FOPS cabin	●	●	●	●
Wind shield canopy cabin	○	○	○	○
Beacon lamp	●	●	●	●
Tire				
F12.5/80X18, R16.9X28	○	○	SS/CP	
F12.5/80X18, R19.5LX24		○	CP	
F16.9X28, R16.9X28				●
F16.0/70X20, R16.9X28	○		SS	

*SS : Side shift option, CP : Center pivot option

● : Standard ○ : Optional

	DB100AS-2KM DB100AC-2KM	DB100AC-3KM	DB100AS-3PM/ DB100AC-3PM/A	DB100AS-3PW
Other				
Pre cleaner (Dry type_E-Ject)	○	○	○	○
Heating system	○	○	○	○
Auto greasing system	○	○	○	○
Load isolation system	○	○	○	○
Mud guard - front fender only	○	○	○	○
Perforated engine side cover	○	○	○	○
Closed engine side cover-with insulation				
Oil VG32 (for cold area - russia, cis)	○	○	○	○
Attachment				
Telescopic dipper (backhoe)	○	○	○	○
Backhoe bucket and quick coupler				
Std (4 teeth) (0.22m3)	○	○	○	○
Trench (3 teeth) (0.1m3)	○	○	○	○
Ligth duty (5 teeth) (0.26m3)	○	○	○	○
Rock braker (atlascoopco)	○	○	○	○
Mechanical quick hitch	○	○	○	○
Break piping-lway piping	○	○	○	○
Loader bucket and quick coupler				
Gp (1.26m3)	○	○	○	○
Gp with fork (1.1m3)	○	○	○	○
Mp-lbot (1.1m3)	○	○	○	○
Mp-lbot with fork (1.1m3)	○	○	○	○
Fork (1,105mm)	○	○	○	○
Grabbing fork (1.3m3)	○	○	○	○
Log fork (2,290mm)	○	○	○	○
Sugarcane grabber	○	○	○	○
Hdhv coir biomass (2.7m3)	○	○	○	○
Concrete mixer	○	○	○	○
Mechanical quick hitch	○	○	○	○