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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HDIPBE-01-2305

HD HYUNDAI INFRACORE

DEVELON

DEVELON

Construction Equipment

DX220A-2

Photos may include optional equipment

SIMPLE AND ESSENTIAL, JUST RIGHT FOR YOUR DAILY WORK

DX220A-2 delivers high productivity with outstanding fuel efficiency at a much more reasonable TCO (Total Cost of Ownership) than others of the same class.

Above all, its fuel consumption per hour has been dramatically improved by up to 12%* or more against others of the same class by using quality-proven key components along with the engine, MCV and hydraulic system, which are newly developed and enhanced. It also comes with a breaker package optimized for breaker operation only and operator's seat simply designed for greater operational focus, thereby further increasing work efficiency.

Photos may include optional equipment

* Above result is based on internal test, against the same operation weight machine.

INTRODUCING A WHOLE NEW DX220A-2

All the nice features of previous model bodily succeeded, even nicer things to come.

DEVELON DB58TIS ENGINE

- DX220A-2 runs on DEVELON DB58TIS engine, one of the most widely-used engines.
- DB58TIS engine has already gained recognition in the market for reliability, low fuel consumption and easy maintenance with quality that has been validated.

ENHANCEMENTS TO MAIN PUMP

This main pump developed for DX220A-2 helps improve fuel economy with optimized cylinders and higher system pressures.

Photos may include optional equipment

QUALITY-PROVEN, RELIABLE FRAMES AND HYDRAULIC SYSTEMS

DX220A-2 is built with the frames and hydraulic systems that are proven to be high quality over a long period of time.

Count on us for all of your works. Main/bottom frames, undercarriage, swing bearing, sprocket roller, boom and arm are designed for a high degree of durability that you can rely on.

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.

Travel device, swing device and center joint are also verified for their high quality.


Travel Device


Swing Device

INTRODUCING A WHOLE NEW DX220A-2

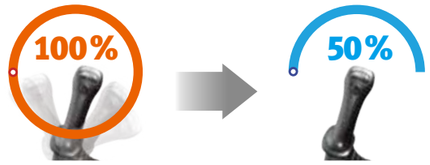
SATISFACTORY FUEL EFFICIENCY

The enhancements to the hydraulic systems of DX220A-2 enable you to use engine power in a more effective manner. DX220A-2 is capable of performing the same intensity of operations at much lower fuel consumption than others of the same class, significantly increasing your work efficiency.

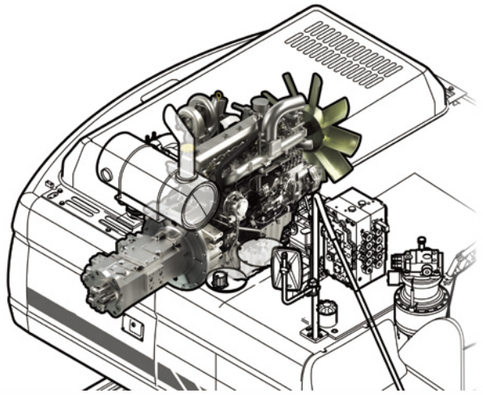
* Above result is based on internal test, against the same operating weight machine.

OPTIMIZED LEVER CONTROL & AUTO IDLE

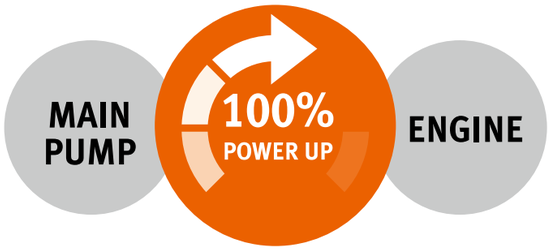
When operator takes a break and leaves the control joystick fixed, both of the engine and the pump are kept in standby mode and prevents unnecessary fuel consumption.



PUMP MATCHING TECHNOLOGY



Engine & pump matching, the new technology of Develon, fully resolves problems; low response time of the system, unnecessary fuel consumption. Matching response time between pump and engine efficiently reduces unnecessary fuel consumption as well as exhaust fumes.



BREAKER SYSTEM CUSTOMIZED TO YOUR BUSINESS

DIFFERENT TYPES OF PERFORMANCE TESTINGS, ENSURING BEST BREAKER PERFORMANCE

- Performance testings of breaker carried out at actual job sites currently being operated in Korea and overseas regions
- Throughout these testings, DX220A-2 comes with a breaker that is more solid and powerful than before.
- The customers who took part in these testings were "very satisfied" with the performances of all equipment.

BREAKER PACKAGE (OPTIONAL)

All you need to do is to just select this breaker option.

- DX220A-2 is installed with a pedal tailored for breaker and a joystick with breaker-only button.

- On top of this, the breaker return line uses its own filter that will extend the life of hydraulic components during breaker operations.
- All of these features are available to you to conduct a crushing operation as effectively as you would hope.

A SPACIOUS CABIN WITH ENHANCED COMFORT

DX220A-2 comes with a neatly designed cabin with no redundancy in it. You never find anything that gets in the way of running your machine. Experience the comfort of working in a more spacious cabin.

1 MONITOR

It is not confusing and complex anymore,
You can get exactly the kind of information you need to know through this new monitor at ease.

2 COMFORTABLE JOYSTICK

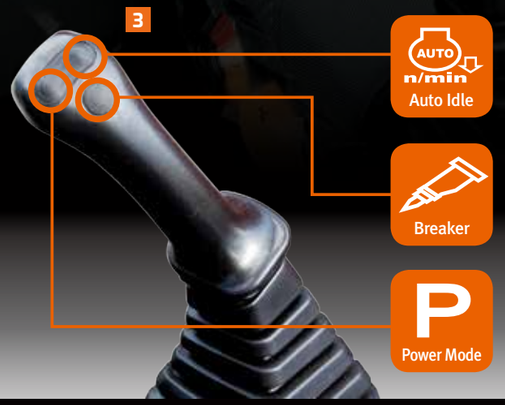
With the completely redesigned joystick buttons, you can now use the most frequently used features at the tip of your fingers with this new joystick.

WORK MODE SELECTOR BUTTON

Breaker mode activated when this button is pushed, a indicator light in monitor turns "On"

HORN BUTTON

This button is for blowing a horn



AUTO IDLE SELECTOR BUTTON

Auto idle system is activated when the auto idle selector button is pushed, an indicator light turns on

BREAKER OPERATING BUTTON

When this button is pushed, hydraulic flow supplied to auxiliary hydraulic line

POWER MODE SELECTOR BUTTON

This power mode is suitable for heavy duty work that requires a high operating speed. Push this button to turn power mode "ON" or "Off"

* Above image may differ from actual product.

PRIDE OF DEVELON, MAINTENANCE

DEVELON's maintenance service program is at your service and this whole new DX220A-2 is also part of it. Trust DEVELON.

1. PRE-CLEANER

A rotor type of pre-cleaner in DX220A-2 filters out particles larger than 20 microns with over 99% accuracy.

2. WATER SEPARATOR

A greater capacity of water separator helps improve engine durability.

3. ENHANCED RESERVE TANK

This new reserve tank, that is bigger in size and more effective in UV protection, has reduced failure risks.

4. GREATER COOLING CAPACITY

A larger cooling module and a longer life for your machine.

NEW VERTICAL FUEL LEVEL SENSOR

You can get more accurate information about the remaining fuel level regardless of the product positions.

HARNESS

Fixing connectors onto a certain location with excellent quality of harnesses further enhanced thermal resistance performance of the harnesses

NEW GREASE VALVE FOR IDLER CYLINDER

Separate design of injection and discharge of grease reduced a failure risk in valves.

DEVELON FLEET MANAGEMENT
Telemactics Service (OPTIONAL)

TELECOMMUNICATIONS Data flow from machine to web

TELEMATICS TERMINAL

Terminal device is installed and connected to a machine to get machine data.

TELECOMMUNICATION

DEVELON provides Dual mode (Cellular, Satellite) communication to maximize communication coverage

DEVELON FM WEB

User can monitor machine status from DEVELON FM Web

TELEMATICS SERVICE BENEFITS DEVELON 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

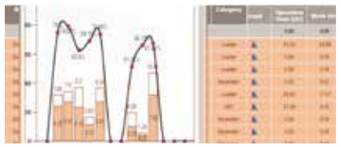
DEVELON
- Responsive to customer's voice
- Utilize quality-related field data
- Apply customer's usage profile to deveping new machine

FUNCTIONS(WEB/APP) DEVELON Telematics Service provides various functions to support your great performance

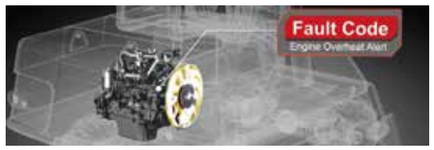
· GPS

· Fuel information

· Preventive maintanance



· Operation hours



· Fault code/warning

· ADT Productivity

· Reports

FUNCTION		EXCAVATOR	WHEEL LOADER	ADT
GPS	Location Geo-fence	All models	All models	All models
Operation hours	Daily, Weekly, Monthly report	All models	All models	All models
Operation hours	Total operation hours Operation hours by mode	All models	All models	All models
Maintenance parts	Preventive maintenance by item replacement cycle	All models	All models	All models
Fault code/ Warning	Fault code Machine Warnings on Gauge Panel	All models	All models	All models
Fuel information	Fuel level Fuel consumption	All models	All models	All models
Dump capacity	Dump tonnage Count of Work Cycle	N/A	N/A	All models

GLOBAL PARTS NETWORK

QUALITY-PROVEN MAIN COMPONENTS

DEVELON provides fast and precise worldwide delivery of genuine DEVELON parts through its global PDC (parts distribution center) network.

GLOBAL NETWORK

The global network of the GPDC (Global Parts Distribution Center) maximizes its fill 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. DEVELON 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 nine other PDCs include one in China (Yantai), three in USA (Atlanta, Seattle and Miami), two in Europe (Germany and the UK), one in the Middle East (Duba)i and two in Asia (Singapore and Indonesia).

MPDC : Mother Parts Distribution Center

PDC : Parts Distribution Center

PDC BENEFIT

- Distribution Cost Reduction
- Maximum Parts Fill rate
- Shortest Distance/ Time Parts Delivery
- Real-time Service Support
- Minimum Downtime

TECHNICAL SPECIFICATIONS

ENGINE

Model

DEVELON DB58TIS

Type

2 valves per cylinder, vertical injectors, water cooled, turbo charged with air to air intercooler. The emission levels are well below the values required for TIER II

Number of cylinders

6

Rated horse power

172 HP @ 2,000 rpm

Max torque

66 kgf.m @ 1,400 rpm

Piston displacement

5,785cc

Bore x stroke

Ø 102 mm x 118 mm

STARTING MOTOR

24 V x 4.5 kW

Batteries

24 V (12 V x 2 / 100 AH)

Air cleaner

Double element

HYDRAULIC SYSTEM

Main pumps

Swash Plate, Axial Piston
Max. Flow : 2 x 207 l/min
Displacement : 115 X 2 cc/rev

Pilot pump

Gear pump - max flow : 27 l/min
Pilot pump : 15 cc/rev

Main relief Pressure

Maximum system pressure : 350 kgf/cm^2
Main system pressure : 350kgf/cm^2
Travel system pressure : 350kgf/cm^2
Swing system pressure : 270kgf/cm^2

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	120 X 85 X 1,263 mm
Arm	1	135 X 95 X 1,450 mm
Bucket	1	135 X 95 X 1,450 mm

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 triple grousers. Heat-treated connecting pins.Hydraulic track adjuster with shock-absorbing tension mechanism.

Upper rollers - 2
Lower rollers - 8 for LC track, 7 for STD track
Track shoes - 49 for LC track, 45 for STD track
Overall track length - 4,445 mm for LC track, 4,065 mm for STD track

SWING MECHANISM

High-torque, axial piston motor with planetary reduction gear bathed in oil. Swing circle is singlerow, shear type ball bearing with induction-hardened internal gear. Internal gear and pinion gear immersed in lubricant.

Swing speed - 10.9 rpm
Swing Torque - 6.46 ton.m

DRIVE

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

Travel speed (High / low) - 3.01 / 5.56 km/h
Maximum traction force - 22.50 / 10.28 ton
Gradeability - 70%

REFILL CAPACITIES

Fuel tank - 400 l
Cooling system (radiator capacity) - 44.7 l
Engine oil - 31 l
Swing drive - 2 x 4 l
Final drive - 2 x 10 ℓ
Hydraulic tank - 140 l

WEIGHT

5.7 m Heavy Duty Boom, 2.9 m Heavy Duty Arm, 0.92 m3 Bucket, 3.8 Ton Counterweight

Shoe width (mm)	Ground pressure		Machine Weight	
	LC Track (kgf/cm^2)	STD Track (kgf/cm^2)	Track (Ton)	STD Track (Ton)
600	0.45	0.49	21.3	20.8
800	0.35	0.38	22.0	21.4

BUCKET

LC Track, 3.8 Ton Counterweight, 600 mm Shoe

Bucket type	Capacity	Width		Weight (kg)	6.7 HD	
	SAE/PCSA	W/O cutter	With cutter		2.4m Arm	2.9m Arm (HD)
GP	0.92	1,316	1,379	871	A	A
	1.05	1,458	1,509	930	A	A
H Class	0.92	1,050	1,096	867	A	B
	1.08	1,200	1,246	939	B	C
	1.40	1,500	1,546	1,101	D	-
Maximum load pin-on (payload + bucket)					3,017	2,755

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

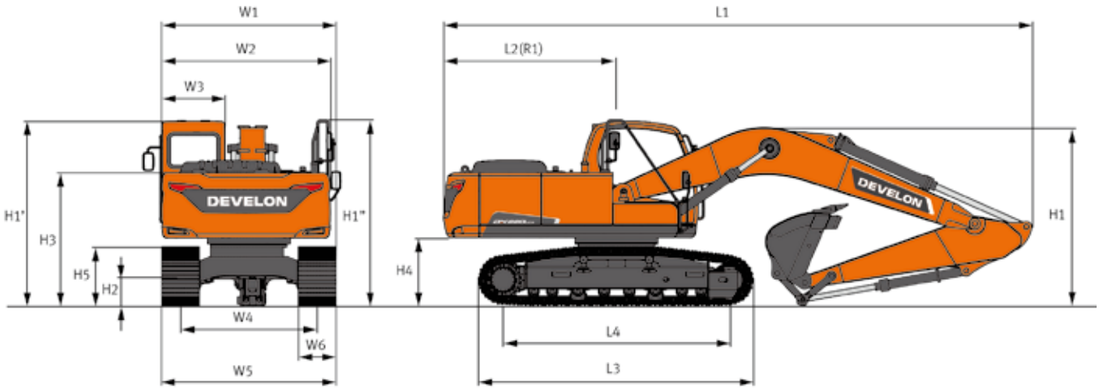
BUCKET DIGGING FORCES

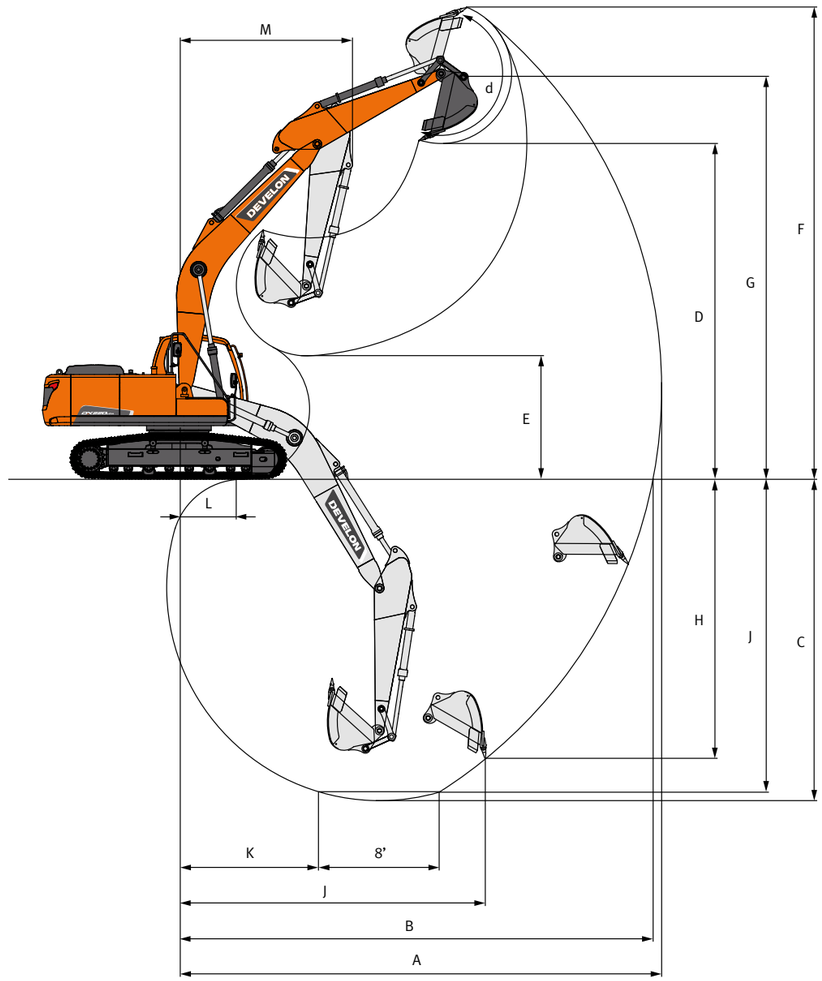
Bucket Type	Capacity (m^3)	Width (mm)		Digging force (Ton)
	SAE/PCSA	With Cutter	W/O Cutter	
GP	0.92	1,316	1,367	(SAE) 12.6, (ISO) 14.0
	1.05	1,458	1,509	
H - Class	0.92	1,050	1,096	(SAE) 12.6, (ISO) 14.
	1.08	1,200	1,246	
	1.40	1,500	1,546	

ARM DIGGING FORCES

Arm	Length (mm)	Weight (kg)	Digging Force (ton)
HD Arm	2,900	751	(SAE) 9.5, (ISO) 9.9
SHORT Arm	2,400	669	(SAE) 11.0, (ISO) 11.5

DIMENSIONS





STANDARD

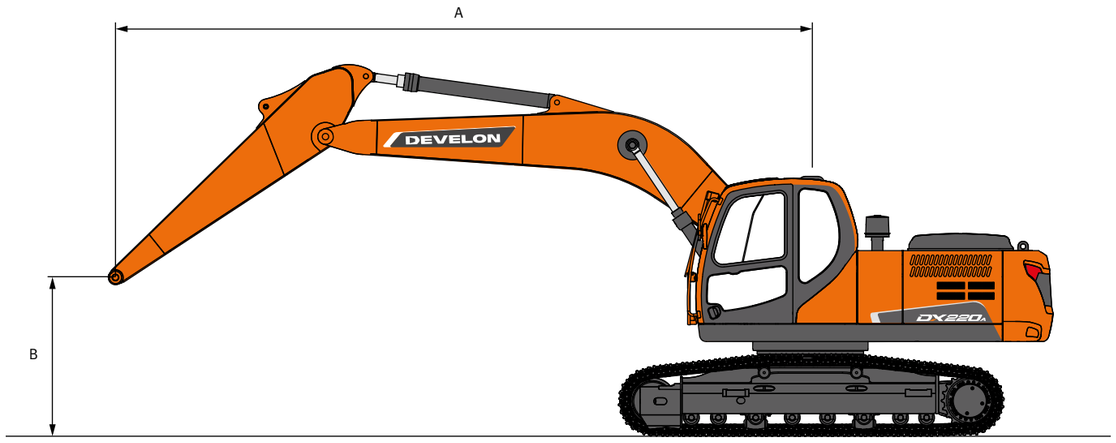
Boom type		(mm)		5,700	
Arm type		(mm)		2,900	2,400
Bucket type (SAE/PCSA)		(m^3)		0.92	1.05
Overall Length		(mm)	L1	9,505	9,545
Overall Height	Boom	(mm)	H1	2,860	2,960
	Hose	(mm)		3,005	3,125
	Cabin	(mm)		2,955	←
	Hand/Guard Rail	(mm)		2,990	←
Overall Width		(mm)	W1	2,990	←
Rear Swing Radius		(mm)	R1	2,840	←
Ground Clearance *		(mm)	H2	* 450.5	←
Rear End Distance		(mm)	L2	2,792	←
House Width		(mm)	W2	2,710	←
Cabin Width		(mm)	W3	1,010	←
Height Over Cover		(mm)	H3	2,113	←
Counterweight Clearance *		(mm)	H4	* 1,066	←
Track Height *		(mm)	H5	* 883	←
Track Length (LC Track)		(mm)	L3	4,445	←
Track Length (STD Track)		(mm)	L3	4,065	
Tumbler Distance (LC Track)		(mm)	L4	3,650	←
Track Gauge		(mm)	W4	2,390	
Undercarriage Width		(mm)	W5	2,990	
Shoe Width		(mm)	W6	600	
Grouser Height		(mm)		26	←

(NOTE) * : Without Track Shoe Grouser

WORKING RANGES

Boom Type (One Piece)	(mm)		**5,700**	
Arm Type	(mm)		**2,900**	**2,400**
Bucket Type (SAE/PCSA)	(m^3)		**0.92**	**1.05**
Max. Digging Reach	(mm)	A	9,875	9,390
Max. Digging Reach (Ground)	(mm)	B	9,700	9,210
Max. Digging Depth	(mm)	C	6,595	6,095
Max. Loading Height	(mm)	D	6,840	6,690
Min. Loading Height	(mm)	E	2,500	2,995
Max. Digging Height	(mm)	F	9,625	9,495
Max. Bucket Pin Height	(mm)	G	8,280	8,130
Max. Vertical Wall Depth	(mm)	H	5,735	5,410
Max. Radius Vertical	(mm)	I	6,180	5,910
Max. Depth To 2,500mm Line	(mm)	J	6,410	5,860
Min. Radius 2,500mm Line	(mm)	K	2,860	2,790
Min. Digging Reach	(mm)	L	117	975
Min. Swing Radius	(mm)	M	3,555	3,575
Bucket Angle	(deg)	d	177	177

LIFTING CAPACITY



STANDARD

Metric

Boom : 5,700 mm (18' 7") Arm : 2,900 mm (9' 5") Shoe : 600 mm (2' 0") Counter Weight : 3,840 kg (8,466 lb) STD track Unit : 1,000kg

A(m) / B(m)	1.5		3		4.5		6		7.5		Max. Reach		A(m)
7.5							4.66 *	4.61			4.05 *	4.05 *	6.20
6							4.81 *	4.61			3.76 *	3.25	7.31
4.5							5.27 *	4.43	4.53	3.06	3.70 *	2.73	7.99
3					7.72 *	6.38	5.99 *	4.17	4.41	2.95	3.71	2.46	8.35
1.5					9.15 *	5.85	5.97	3.91	4.28	2.83	3.59	2.36	8.42
0			5.70 *	5.70 *	8.95	5.56	5.78	3.73	4.18	2.73	3.67	2.4	8.23
-1.5	6.22 *	6.22 *	9.82 *	9.82 *	8.86	5.49	5.7	3.66	4.16	2.71	3.99	2.61	7.74
-3	10.59 *	10.59 *	12.38 *	10.69	8.88 *	5.56	5.75	3.71			4.76	3.11	6.88
-4.5			9.38 *	9.38 *	6.84 *	5.81					5.20 *	4.4	5.51

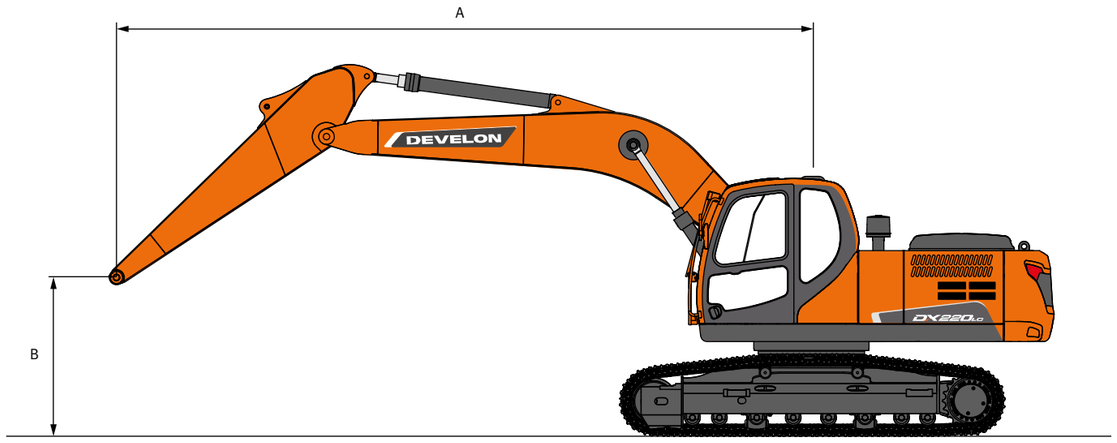
Feet

Unit : 1,000 lb

A(ft) / B(ft)	5		10		15		20		25		Max. Reach		A(m)
25							10.26 *	10.16			8.92 *	8.92 *	20.33
20							10.61 *	10.16			8.29 *	7.16	23.97
15							11.61 *	9.77	10	6.75	8.16 *	6.01	26.21
10					17.02 *	14.07	13.20 *	9.19	9.73	6.51	8.18	5.43	27.39
5					20.17 *	12.89	13.17	8.62	9.44	6.23	7.92	5.21	27.64
0			12.56 *	12.56 *	19.73	12.26	12.73	8.23	9.22	6.03	8.09	5.3	26.99
-5	13.71 *	13.71 *	21.66 *	21.66 *	19.54	12.1	12.56	8.07	9.17	5.98	8.8	5.75	25.38
-10	23.34 *	23.34 *	27.29 *	23.57	19.58 *	12.26	12.67	8.17			10.49	6.86	22.59
-15			20.68 *	20.68 *	15.09 *	12.81					11.46 *	9.71	18.07

1. Load point is the end of the arm.
2. Capacities marked with an asterisk (*) are limited by hydraulic capacities.
3. Lift capacities shown do not exceed 75 % of minimum tipping loads or 87 % of hydraulic capacities.
4. The least stable position is over the side.
5. Lift capacities apply only to the machine as originally manufactured and normally equipped by the manufacturer.
6. Lift capacities are in compliance with iso 10567.

: Rating Over Front
: Rating Over Side or 360 Degree



OPTION

Metric

Boom : 5,700 mm (18' 7") Arm : 2,900 mm (9' 5") Shoe : 800 mm (2' 6") Counter Weight : 3,840 kg (8,466 lb) LC track Unit : 1,000kg

A(m) / B(m)	1.5		3		4.5		6		7.5		Max. Reach		A(m)
7.5							4.66 *	4.66 *			4.05 *	4.05 *	6.20
6							4.81 *	4.81 *			3.76 *	3.53	7.31
4.5							5.27 *	4.81	4.85 *	3.33	3.70 *	2.97	7.99
3					7.72 *	7	5.99 *	4.54	4.98	3.22	3.80 *	2.69	8.35
1.5					9.15 *	6.45	6.71 *	4.28	4.85	3.09	4.05 *	2.59	8.42
0			5.70 *	5.70 *	9.83 *	6.15	6.61	4.1	4.74	3	4.15	2.63	8.23
-1.5	6.22 *	6.22 *	9.82 *	9.82 *	9.74 *	6.08	6.53	4.03	4.72	2.98	4.52	2.86	7.74
-3	10.59 *	10.59 *	12.38 *	12.09	8.88 *	6.16	6.58 *	4.07			5.38 *	3.41	6.88
-4.5			9.38 *	9.38 *	6.84 *	6.41					5.20 *	4.83	5.51

Feet

Unit : 1,000 lb

A(ft) / B(ft)	5		10		15		20		25		Max. Reach		A(m)
25							10.26 *	10.26 *			8.92 *	8.92 *	20.33
20							10.61 *	10.61 *			8.29 *	7.78	23.97
15							11.61 *	10.61	10.70 *	7.34	8.16 *	6.55	26.21
10					17.02 *	15.43	13.20 *	10.02	10.99	7.09	8.37 *	5.94	27.39
5					20.17 *	14.22	14.79 *	9.44	10.68	6.82	8.92 *	5.71	27.64
0			12.56 *	12.56 *	21.68 *	13.57	12.73	9.04	10.46	6.61	9.15	5.81	26.99
-5	13.71 *	13.71 *	21.66 *	21.66 *	21.47 *	13.4	14.57	8.88	10.4	6.56	9.97	6.31	25.38
-10	23.34 *	23.34 *	27.29 *	26.64	19.58 *	13.57	14.51 *	8.98			11.85 *	7.52	22.59
-15			20.68 *	20.68 *	15.09 *	14.13					11.46 *	10.64	18.07

1. Load point is the end of the arm.
2. Capacities marked with an asterisk (*) are limited by hydraulic capacities.
3. Lift capacities shown do not exceed 75 % of minimum tipping loads or 87 % of hydraulic capacities.
4. The least stable position is over the side.
5. Lift capacities apply only to the machine as originally manufactured and normally equipped by the manufacturer.
6. Lift capacities are in compliance with iso 10567.

: Rating Over Front
: Rating Over Side or 360 Degree

STANDARD & OPTION

STANDARD EQUIPMENT

Fronts
- 5.7 m Heavy Duty Boom
- 2.9 m Heavy Duty Arm

Hydraulic system
- Boom and Arm flow regeneration
- Boom and Arm holding valves
- Swing anti-rebound valves

Cabin & Interior
- Viscous cab mounts
- E/G RPM control dial
- Serial communication port for laptop PC interface
- Cup holder
- Seat belt
- 12V spare power socket
- Room light
- All weather sound suppressed type CAB.
- Viscous cab mounts

Safety
- Handrail and step
- Safety glass
- Hammer for emergency escape
- Battery protector cover

Others
- Double element air cleaner with two stage filtration
- Dry type Pre Air Cleaner
- Two stage water separator
- Fuel filter
- Engine overheat prevention system
- Engine restart prevention system
- Self-diagnostic system
- Alternator (24 V, 60 A)
- Electric horn
- Working lights (1 boom mounted, 1 storage box mounted)
- Hydraulic track adjuster
- Track guards
- Greased and sealed track link
- Hydraulic oil tank air breather filter

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 DEVELON dealer to know about the availability or to release the adaptation following the needs of the applications

Arm
- 2.4m Mass Excavation Arm

Bucket
- 0.92 m^3 General Duty Bucket
- 1.05 m^3 General Duty Bucket
- 0.92 m^3 H Class Bucket
- 1.08 m^3 H Class Bucket
- 1.4 m^3 H Class Bucket
- 0.92 m^3 H Class Bucket_Flat
- 1.17 m^3 H Class Bucket_Flat

Auxiliary Hydraulic
- One-way for Hammer
- Hydraulic Filter for One-way return line

Undercarriage
- Long & Fixed Track
- Standard & Fixed Track
- Undercover for Track Frame
- 600 mm / 700 mm / 800 mm Triple Grouser Shoe

Cabin Sub Group
- Mechanical type Suspension Seat
- Upper and Lower Guard
- Side Mirror
- 2 Working lamp
- Wiper
- MP3 Radio
- Air Conditioner and Heater
- DEVELON Fleet Management

DEVELON HB Breaker

HB series Breaker is designed for mainly focusing on breaking job. DEVELON's focus is to optimize impact power, enhance durability, satisfy customer convenience and maintain easily in order to be faithful to the original function of hydraulic breaker.

* Housing / Top / Side type bracket are available

Technical Specification

Model	Weight (kg)	Tool dia. (mm)	Oil Flow (l/min)	Operating Pressure (kg/cm2)	Frequency (bpm)
HB20	기계	135	130 ~ 150	160 ~ 200	400 ~ 800