DEVELON

Wheel Excavator

DX190W

A NEW MODEL WITH NOVEL FEATURES

DEVELON DX190W HYDRAULIC EXCAVATOR :

INCREASED PRODUCTION AND IMPROVED FUEL ECONOMY

are attributed to the electronic optimization of the hydraulic system and the new generation DEVELON engine (Tier III/ Stage III).

IMPROVED ERGONOMICS

increases comfort and excellent all round visibility ensuring a safe and pleasant working environment.

IMPROVED RELIABILITY

is achieved through the use of high performance materials combined with new methods of structural stress analysis, and leads to increased component life expectancy, thus reducing running costs.

NEWLY ADDED FEATURE

ADVANCED HD CABIN (OPTIONAL)

- RO PS, FOPS optional
- The latest interior
  (MP3, Joystick, Air suspension seat, etc.)

NEW 8-INCH MONITOR

Bigger LCD monitor with user-friendly touch screen panel, allowing easy access to machine settings and maintenance data.

ADVANCED FRONT BUSH

- EM bushing (Enhanced Macro-surface)
- Pocket & Dimple surface pattern :
  Optimized greasing & Trap foreign object
- Wear resistant solid lubricant coating :
  Noise free & enhanced anti-seizure property
- 30% longer life time than competitors

ADVANCED H-CLASS BUCKET

- DEVELON new H-class bucket has the best strength of steel & the optimized design
- Add side cutter / add chamfer and inner plate at member part
- Increase bucket solidity and change casting type

TROPICAL / COLD WEATHER HYDRAULIC OIL (ISO VG 68 / VG 32)

- Maintain best performance of your machine by keeping optimum viscosity in tropical and cold area.

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

PERFORMANCE & PRODUCTIVITY

The performance of the DX190W has a direct effect on its productivity.
Its new "Common Rail" engine and new EPOS™ controlled hydraulic system have combined to create an unbeatable hydraulic excavator.
It makes the DX190W even more appealing.

HYDRAULIC PUMP

Considering the property of wheel excavator that intensively performs traveling operation, bent axis piston pump is adopted for its high efficiency and excellent response in high pressure. The Main pump has a capacity of 2x200l/min(@ 1,900rpm) reducing cycle time while a high capacity gear pump improves pilot line efficiency.

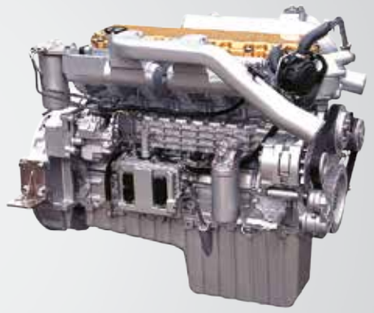
SWING DRIVE

Shocks during rotation are minimized, while increased torque is available to ensure rapid cycles.

*Photos may include optional equipment.

DEVELON ENGINE (DL06)

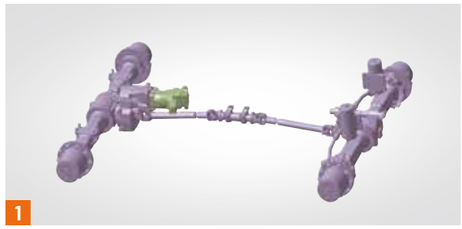
At the heart of the hydraulic excavator is the new "Common Rail" DEVELON DL06 engine. It is combined with the new EPOS™ electronic control system, for optimum power and fuel saving.



The new engine produces 156 hp(116 kw/158 PS) at only 1,900 rpm, and more torque, due to its careful design combined with the use of common rail injection and 4 valves per cylinder. These features help optimize combustion and minimize pollution through reduced Nox & particulate emissions.

Increased torque allows efficient use of the power of the hydraulic system.

- Faster working cycles increase productivity.
- Increased torque means the excavator is able to move more easily.
- Energy efficiency reduces fuel consumption.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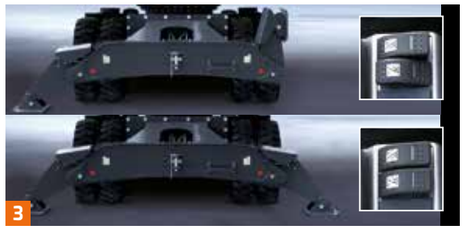
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1 NEW DRIVE LINE CONCEPT

The new travel motor and transmission control in the drive line provide comfortable travel due to increased smoothness, improved hydraulic retarding and improved gear shifting.

HEAVY DUTY AXLES

The front axle offers wide oscillating and steering angles. The transmission is mounted directly on the rear axle for protection and optimum ground clea rance.

ADVANCED DISC BRAKE SYSTEM

The new disc brake system works directly on the hub instead of the drive shaft to avoid planetary gear backlash. This eliminates the rocking effect associated with working free on wheels. The new axle is designed for low maintenance and the oil change intervals have been increased from 1,000 to 2,000 hours further reducing owning and operating costs.

2 NEW DRIVE LINE CONCEPT

A rigid, welded frame provides excellent durability. Efficient hydraulic lines routing, transmission protection and heavy duty axles make the undercarriage perfect for wheel excavator applications. Both outriggers and dozer blade are pin type for maximum flexibility.
An optional work tool restraint bar is available.

3 OUTRIGGERS

The pin type design allows the outriggers to be mounted on the front and/or rear for maximum operating stability when digging or lifting and are individually controlled for leveling on slopes.

4 DOZER BLADE

The pin type design allows also the dozer blade to be mounted on the front and/or rear and is used for leveling, clean-up work and for stabilizing the machine during digging applications.
The large dozer bottom and parallel design provide minimized ground pressure.

HEAVY DUTY AXLES

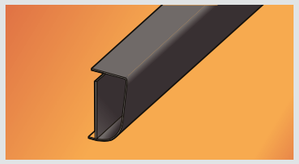
The brains of the hydraulic excavator, the EPOS™ (Electronic Power Optimizing system), have been improved through a CAN (Controller Area Network) communication link and these units are now perfectly synchronised.

DURABILITY & RELIABILITY

The reliability of an item of plant contributes to its overall lifetime operating costs. DEVELON uses computer-assisted design techniques, highly durable materials and structures then test these under extreme conditions. Durability of materials and longevity of structures are our first priorities.

D-TYPE FRAME

The D-type frame and chassis frame add strength and minimize distortion due to shocks



STRESS ANALYSIS DESIGN(FEM) AND INNOVATIVE MANUFACTURING TECHNIQUE PROVIDE A STRONG AND STABLE UNDERCARRIAGE

As Chassis Frame, Outrigger Frame and Dozer Blade are designed by interpretative technique and reliability test using 3 dimension CAD tool, durability and reliability are improved.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1 ADVANCED BUSHING

A highly lubricated metal is used for the boom pivot in order to increase the lifetime and extend the greasing intervals to 250 hours. A rolled bushing, with very fine grooves, has been added to the arm, bucket, dozer, and outrigger pivot; so greasing is only required every 50 hours.

2 POLYMER SHIM

A polymer shim is added to the bucket, dozer, and outrigger pivot to promote extended pin and bushing life.

3 DOZER & OUTRIGGER CYLINDERS PROTECTION COVERS

Large reinforced protective covers have been adopted to completely protect the Dozer & Outrigger cylinders from falling stones etc, while the machine is operating.

4 CAST COUNTERWE IGHT

A Cast Counterweight has been adopted to minimize deformation by external impact. In addition, operating stability has been increased by use of a low center of gravity design.

5 LED (LUMINESCENT DIODE) TYPE STOP LAMPS

The use of LED type Stop Lamps ensures considerably improved average service life compared to the existing standard filament bulbs. Furthermore, the faster lighting speed helps contribute to accident prevention.

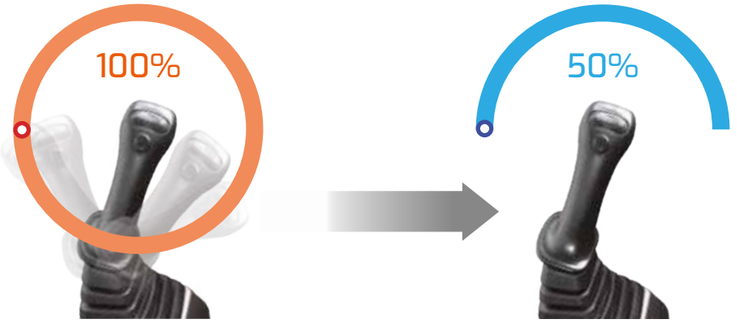
FUEL EFFICIENCY

RELIEF CUTOFF

The pump continues to supply flow even when the maximum pressure on the system is reached due to severe working environments and large workloads. Relief cutoff technology of DX190W prevents transfer of unnecessary flow to maintain powerful working level at the maximum value while reducing consumption of fuel.

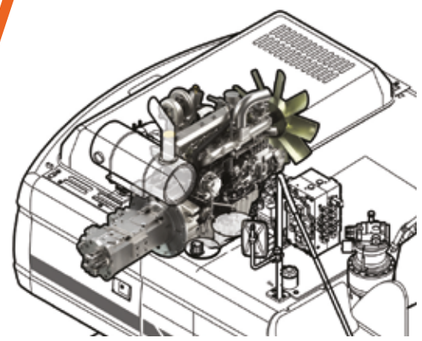
OPTIMIZED LEVER CONTROL & AUTO IDLE

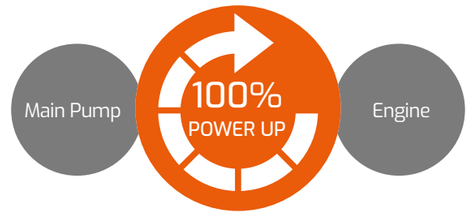
When operator takes a break and leaves the control joystick fixed, both of the engine and the pump are kept in standby mode and prevents unnecessary fuel consumption.



PUMP MATCHING TECHNOLOGY

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





OPERATOR COMFORT

The work rate of the hydraulic excavator is directly linked to the performace of its operator.
DEVELON designed the DX190W by putting the operator at the center of the development goals.
The result is significant ergonomic value that improves the efficiency and safety of the operator.

CONTROL LEVER

Very precise control of the equipment increases versatility, safety and facilitates tricky operations requiring great precision. Leveling operations and particularly the movement of suspended loads are made easier and safer. The control levers have additional electrical buttons for controlling other additional equipment
(for example, grabs, crushers, grippers, etc.).

AIR SUSPENSION SEAAT (OPTIONAL)

Equipped with various functions of adjustment forth and back and, and lumbar support, it reduces the vibration of equipment transmitted during work in an effective way.
Also for considering winter working environment,
Seat warmer functions equipped.

*Photos may include optional equipment.

NEW 8 INCH MONITOR

Number	Name
1	Fuel Gauge
2	Engine Coolant Temperature Gauge
3	Hydraulic Oil Temperature Gauge
4	Tachometer
5	Audio Display
6	Digital Clock
7	Favorites Button
8	Power Mode Selector Button

Number	Name
9	Power Mode Indicator
10	Operating Mode/Flow Setting Selector Button
11	Auto Idle Selector Button
12	Home / Menu Button
13	Back Button
14	Mode Symbol Display
15	Indicator Display
16	Display Warning Symbols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1 STEERING COLUMN

The forward/neutral/reverse & gear selection switch is mounted on the steering column to minimize operator movements while traveling so that safety and operator comfort are ensured. The lower part of steering column can be tilted for improved operator comfort.

2 DOZER/OUTRIGGER CONTROL

The dozer/outrigger control lever, combined with the associated switches, allows for the operator to select between any combination of independent or simultaneous operation of the dozer/ Outriggers.

3 FOOT PEDALS

The position of the option, brake and accelerator pedal have been set by ergonomic analysis to maximise operating efficiency while minimizing foot movement. The required pedal operating forces have also been decreased to reduce fatigue.

4 COMFORTABLE 2-STAGE SLIDING SEAT

5 CONTROL STAND (TELESCOPIC & TILTING FUNCTION)

AIR CONDITIONING

The high performance air conditioning provides an air flow which is adjusted and electronically controlled for the conditions.
Five operating modes enable even the most demanding operator to be satisfied.

EASY MAINTENANCE

Short maintenance operations at long intervals increase the availability of the equipment on site.
DEVELON has developed the DX190W with a view to high profitability for the user.

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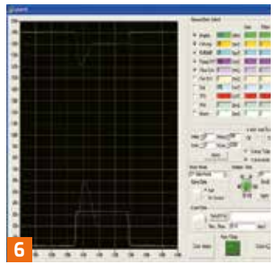


1 ENGINE OIL FILTER

The engine oil filter offers a high level of filtration allowing the oil change interval to be increased to 500 hours.
It is easy to access and is positioned to avoid contaminating the surrounding environment.

2 EASY MAINTENANCE

Access to the various radiators is very easy, making cleaning easier. Access to the various parts of the engine is from the top and via side panels.

3 HYDRAULIC OIL RETURN FILTER

The protection of the hydraulic system is made more effective by the use of glass fiber filter technology in the main oil return filter. This means that with more than 99.5% of foreign particles filtered out, the oil change interval is increased.

4 AIR CLEANER

The large capacity forced air cleaner removes over 99% of airborne particles, reducing the risk of engine contamination and making the cleaning and cartridge change intervals greater

5 TOOL BOX AND STORAGE PLACES

A large sized and lockable tool box is mounted on the left side of undercarriage and the storage places for grease can are provided in the right side of undercarriage.

6 PC MONITORING (DMS)

A PC monitoring function enables connection to the EPOS™ system, allowing various parameters to be checked during maintenance, such as pump pressures, engine rotation speed, etc. and these can be stored and printed for subsequent analysis.

7 CONVENIENT FUSE BOX

The fuse box is conveniently located in a section of the storage compartment behind the operator's seat providing a clean environment and easy access.

8 FUEL PRE-FILTER

High efficiency fuel filtration is attained by the use of multiple filters, including a fuel pre-filter fitted with a water separator that removes most moisture from the fuel.

9 CENTRALIZED FRONT AXLE PIN GREASE INLETS FOR EASY MAINTENANCE

The grease lubricating position of front axle pin is located in front of equipment for easy accessibility.

MY DEVELON

Telematics Service (OPTIONAL)

TELECOMMUNICATIONS Data flow from machine to web

TELEMATICS TERMINAL

The 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

MY DEVELON

Users can monitor the machine status from DEVELON Website & Moblie App

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

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

OPERATION

You can easily access and manage equipment information and maintenance costs on the platform anytime, anywhere. Retrieve details such as location, uptime, utilization, and fuel costs based on field data, enabling efficient work planning by considering the progress at the job site.

HEALTH

Based on reliable manufacturer information, you can have checklists for each usage cycle and receive replacement cycle reminders for consumable parts. In the event of equipment defects, you will receive notifications and can request service immediately. This ensures swift service support from certified DEVELON dealers and minimizes machine idle time.

E-COMMERCE

You can purchase a variety of digital products and certified genuine parts for your equipment online. Elevate your experience by subscribing to our exclusive digital services.

LIBRARY

Saving your time to find all the documents about your equipment. We provide monthly operation reports, manuals, parts books and more. This helps you to access to a wide range of information and knowledge of your equipment.

*This service can be accessed in certain countries, and the scope of service may differ depending on your country and region.

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 ten 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 (Dubai), two in Asia (Singapore and Indonesia) and one in Brazil (São Paulo).

PDC BENEFIT

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

ATTACHMENTS

Heavy Construction Bucket, which is also called Heavy Duty bucket, is the most commonly used bucket in the construction equipment market and is designed mainly for use in heavy construction but also used in low density mining and quarry application.

GENERAL PURPOSE BUCKET

which is also called General Purpose bucket, is designed for digging and re-handling soft to medium materials e.g. materials with low wear characteristics such as top-soil, loam, coal.

HEAVY DUTY BUCKET

which is also called Heavy Duty bucket, is the most commonly used bucket in the construction equipment market and is designed mainly for use in heavy construction but also used in low density mining and quarry application.

EXTRA SEVERE DUTY BUCKET

which is also called X class bucket. The bucket is designed for use in high density mining and quarry application using high strength and high abrasion resistance materials. It can be used in the toughest of applications.

TOOTH

GD (GENERAL DUTY) TOOTH

Optimized design for DEVELON's GP and the new General Construction bucket. Suitable for machines ranging from 14 to 70 tons. Recommended for general construction and utility loading applications.

HD (HEAVY DUTY) TOOTH

Optimized design for the Heavy Construction bucket. Suitable for machines ranging from 14 to 70 tons. Recommended for most applications including excavating, trenching, loading and medium density quarries and mining.

SD (SEVERE DUTY) TOOTH

Optimized design for the Severe Mining bucket and the Xtreme Mining bucket. Suitable for machines ranging 22 to 70 tons. Recommended for extremely tough quarries and mining application.

General Purpose Bucket

Heavy Duty Bucket

BUCKET

	Capacity (SAE/PCSA)
GENERAL PURPOSE BUCKET	0.38 / 0.45 / 0.57 / 0.70 / 0.76 / 0.80 / 0.93 m^3
HEAVY DUTY BUCKET	0.51 / 0.65 / 0.78 / 0.82 / 0.91 m^3

Hydraulic Breaker

Fixed Pulverizer

Rotating Crusher

DEMOLITION

	Model	Weight	Tool diameter	Operating Pressure	Oil Flow	Frequency
HYDRAULIC BREAKER	HB20	1,847 kg	135 mm	160~180 mm	130~150 l/min	400~600 BPM
	XB22	1,671.7 kg	136 mm	140~180 mm	200~280 l/min	450~600 BPM

	Model	Weight	Max. Jaw opening	Force at Tip
PULVERIZER	FP22	1,615 kg	732 mm	59 t
ROTATING CRUSHER	RC22	1,780 kg	732 mm	56 t

C : Crushing jaw
D : Demolition jaw
P : Pulverizing jaw
S : Shearing jaw

Multi-Grapple

Stone Grapple

Wood Grapple

Log Grapple

Orange Grapple

MATERIAL HANDLING

		Model	Weight	Max. Jaw opening	Max. Closing Force	Capacity
MULTI-GRAPPLE		MG22	1,734 kg	2,055 mm	5.7 t	0.62 m^3
STONE GRAPPLE		SG22	1,235 kg	2,000 mm	-	0.45 m^2
WOOD GRAPPLE	L / P	WG22	1,132 / 1,010 kg	2,000 mm	-	0.62 m^2
LOG GRAPPLE	L / P	LG22	1,235 / 1,010 kg	2,000 mm	-	0.67 m^2
ORANGE GRAPPLE		OG22	1,300 kg	1,880 mm	-	0.50 m^3

L : Link type
P : Pendulum type

Clamshell Bucke

Plate Compactor

Ripper

EARTH MOVING

	Model	Weight	Max. Jaw opening	Capacity
CLAMSHELL BUCKET	CB22	1,440 kg	1,725 mm	0.80 m^3

	Model	Weight	Base plate (WxL)	Copaction Area
PLATE COMPACTOR	PC22	1,094 kg	320 x 745 mm	1.03 m^2

	Model	Weight	Length
RIPPER	RP22	410 kg	1,300 mm

Quick Coupler

CONNECTING

	Model	Weight	Bucket Pin dia.	Working rage (Pin to Pin)
QUICK COUPLER	QC22	319 kg	80 mm	445 ~ 514 mm

TECHNICAL SPECIFICATIONS

ENGINE

Model
DEVELON DL06
"Common Rail" engine with direct fuel injection and electronic control, 4 valves per cylinder, vertical injectors, water cooled, turbo charged with air to air intercooler. The emission levels are well below the values required for stage III.

No. of cylinders
6

Nominal flywheel power
116 kW(156HP) @ 1,900 rpm (SAE J1349, net)

Max torque
70 kgf.m(686 Nm) at 1,400 rpm

Piston displacement
5,890 cc (359 cu.in)

Bore & stroke
ø 100 mm x 125 mm (3.9" X 4.8")

Starter
24 V / 4.5 kW

Batteries
2 x 12 V / 100 Ah

Air filter
Double element air cleaner

DRIVE

Fully hydrostatic driven, 3 speed power shift transmission, variable displacement, high torque, axial piston motor, foot pedal controls provide smooth travel, hub reduction type front steering axle and rear rigid axle.

Travel speed (High)
36 km/h (22.4 mph)

Maximum traction force
11,075 kgf (24,416 lbf)

Maximum grade
35°/ 70%

HYDRAULIC SYSTEM

The heart of the system is the e-EPOS (Electronic Power Optimizing System). It allows the efficiency of the system to be optimized for all working conditions and minimizes fuel consumption. The new e-EPOS is connected to the engine electronic control via a data transfer link to harmonize the operation of the engine and hydraulics.

- The hydraulic system enables independent or combined operations.
- Cross-sensing pump system for fuel savings.
- Auto deceleration system.
- Two operating modes, two power modes.
- Button control of flow in auxiliary equipment circuits.
- Computer-aided pump power control.

Main pump
2 variable displacement axial piston pumps
max flow: 2 x 200 ℓ/min (2 X 52.8US gpm, 2 X 44 Imp gpm)

Pilot pump
Gear pump - max flow: 26.1 ℓ/min (6.9US gpm, 5.7 Imp gpm)

Maximum system pressure
Boom / arm / Bucket :
Normal mode : 330 kgf/cm² (324 bar)
Power mode : 350 kgf/cm² (343 bar)
Travel : 350 kgf/cm² (343 bar)
Swing : 270 kgf/cm² (265 bar)

SWING MECHANISM

- An axial piston motor with two-stage planetary reduction gear is used for the swing.
- Increased swing torque reduces swing time.
- Internal induction-hardened gear.
- Internal gear and pinion immersed in lubricant bath.
- The swing brake for parking is activated by spring and released hydraulically.

Swing speed: 0 to 10.9 rpm

WEIGHT

Operating weight, including 5,200 mm (17'1") one-piece boom and 2,600 mm (8'6") one-piece boom, or 1,940+3,820 mm (6'4" + 12'6") two-piece boom, 2,300mm (7'7")arm, operator, lubricant, coolant, full fuel tank and the standard equipment. Weights are with 616kg (1,358 lb) bucket.

Undercarriage type		Operating weight (One-piece Boom)	Operating weight (Two-piece Boom)
Front attach	Rear attach		
Cradle	Dozer	17,770 kg (39,176 lb)	18,270 kg (40,278 lb)
Cradle	Outrigger	17,920 kg (39,507 lb)	18,410 kg (40,587 lb)
Dozer	Outrigger	18,850 kg (41,557 lb)	19,330 kg (42,615 lb)
Outrigger	Dozer	18,910 kg (41,689 lb)	19,390 kg (42,748 lb)
Outrigger	Outrigger	19,050 kg (41,998 lb)	19,530 kg (43,056 lb)

UNDERCARRIAGE

Heavy-duty frame, all-welded stress-relieve structure. Top grade materials used for toughness. Specially heat-treated connecting pins. 10.0-20-14PR double tires with tire spacer. Front axle oscillating hydraulically.

Dozer and outrigger can be installed in front and rear interchangeably. 18.0-19.5-20PR tubeless single and 10.0-20-16PR double tires as an option.

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 shockfree operation and extend piston life.

[One-piece Boom]

Cylinders	Quantity	Bore × rod diameter × stroke (mm)
Boom	2	120 X 85 X 1,195mm(4.7" X 3.3" X 3'11")
Arm	1	125 X 90 X 1,470mm(4.9" X 3.5" X 4'10")
Bucket	1	115 X 80 X 1,025mm(4.5" X 3.1" X 3'4")

[Two-piece Boom]

Cylinders	Quantity	Bore × rod diameter × stroke (mm)
Boom	2	120 X 85 X 1,030mm(4.7" X 3.3" X 3'5")
Two-piece Boom	1	160 X 95 X 760mm(6.3" X 3.7" X 2'6")
Arm	1	125 X 90 X 1,470mm(4.9" X 3.5" X 4'10")
Bucket	1	115 X 80 X 1,025mm(4.5" X 3.1" X 3'4")

ENVIRONMENT

Noise levels comply with environmental regulations (dynamic values).

LwA External sound level
101 dB(A) (2000/14/EC)

LPA Operator sound level
74 dB(A) (ISO 6396)

REFILL CAPACITI ES

Fuel tank
310 ℓ (81.9 US gal, 68.2 Imp gal)

Cooling system (Radiator capacity)
24 ℓ (6.3 US gal, 5.3 Imp gal)

Engine oil
25 ℓ (6.6 US gal, 5.5 Imp gal)

Swing drive
3.8 ℓ (10 US gal, 0.8 Imp gal)

Power train(each)
Front Axle 2.5 ℓ (0.66 US gal, 0.55 Imp gal)
Rear Axle 2.5 ℓ (0.66 US gal, 0.55 Imp gal)
Transmission 2.5 ℓ (0.66 US gal, 0.55 Imp gal)

Hydraulic system
205 ℓ (54.2 US gal, 45.1 Imp gal)

Hydraulic tank
116 ℓ (51.7 US gal, 43.1 Imp gal)

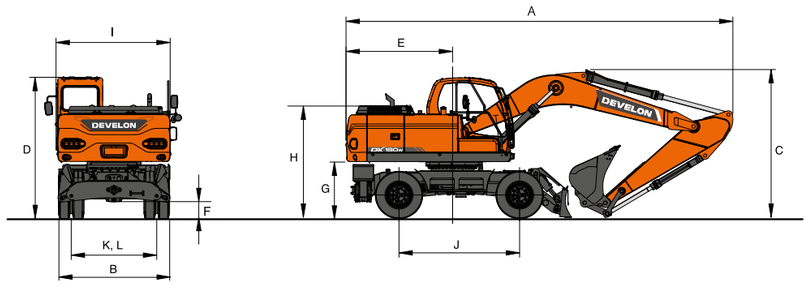
COMPONENT WEIGHTS

Capacity		Width		Weight	Recommendation				
					5,200mm (17'1") One-piece Boom			5,360mm (17'7") Two-piece Boom	
PCSA , heaped	CECE heaped	Without side cutters	With side cutters		2,200mm (7'3")Arm	2,600mm (8'6")Arm	3,100mm (10'2")Arm	2,300mm (7'7")Arm	2,600mm (8'6")Arm
0.38m³ (0.5yd³)	0.35m³	604mm (2')	640mm (2'1")	441 kg (972 lb)	A	A	A	A	A
0.45m³ (0.59yd³)	0.41m³	727mm (2'5")	775mm (2'7")	465 kg (1,025 lb)	A	A	A	A	A
0.57m³ (0.75yd³)	0.51m³	865.2mm (2'10")	913.2mm (3')	520 kg (1,146 lb)	A	A	B	A	A
0.70m³ (0.92yd³)	0.62m³	1,015mm (3'4")	1,063mm (3'6")	567 kg (1,250 lb)	A	B	C	A	A
0.76m³ (1yd³)	0.67m³	1,079mm (3'6")	1,127mm (3'8")	602 kg (1,327 lb)	B	B	C	A	B
0.8m³ (1.05yd³)	0.7m³	1,123mm (3'8")	1,171mm (3'10")	616 kg (1,358 lb)	B	C	-	B	C
0.93m³ (1.22yd³)	0.81m³	1,267mm (4'2")	1,315mm (4'4")	664 kg (1,332 lb)	C	-	-	C	-

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/m3 (2,700 lb/cu·yd) or less
C. Suitable for materials with density of 1,100 kg/m3 (1,850 lb/cu·yd) or less

DIMENSIONS

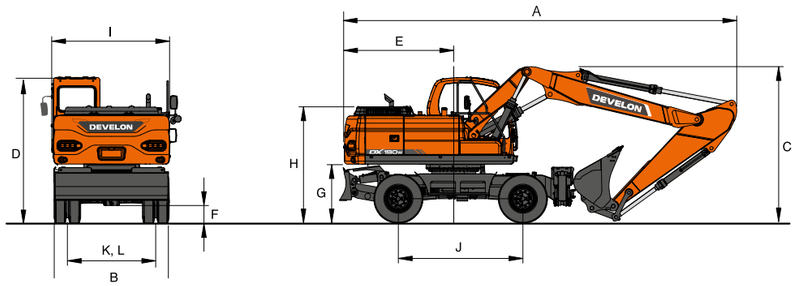
[One-piece Boom]



DIMENSIONS

Boom type (One-piece)		5,200mm (17'1")		
Arm type		**2,400mm (8'6")**	**2,600mm (8'6")**	**3,100mm (10'2")**
A	Shipping Length	8,715mm (28'7")	8,659mm (28'5")	8,507mm (24'6")
B	Shipping Width	→	2,496mm (8'2")	←
C	Shipping Height (Boom)	3,212mm (10'6")	3,310mm (10'10")	3,772mm (12'5")
D	Height Over Cab.	→	3,135mm (10'3")	←
E	Counter Weight Swing Clearance	→	2,450mm (8')	←
F	Ground Clearance	→	350mm (1'2")	←
G	Counter Weight Clearance	→	1,249mm (4'1")	←
H	Engine Cover Height	→	2,530mm (8'4")	←
I	Upper Housing Width	→	2,494mm (8'2")	←
J	Wheel Base	→	2,700mm (8'10")	←
K, L	Tread Width	→	1,944mm (6'5")	←

[Two-piece Boom]

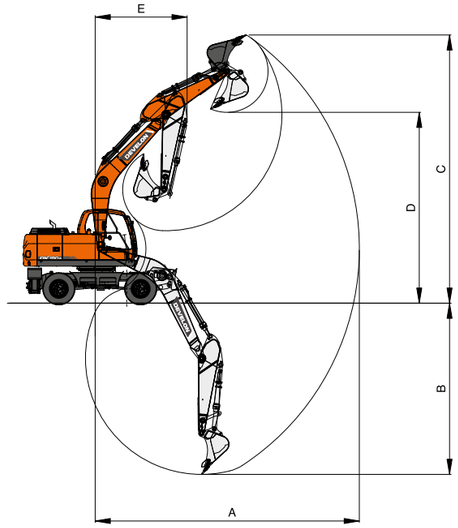


DIMENSIONS

Boom type (One-piece)		5,200 mm (17'1")	
Arm type		**2,300mm (7'7")**	**2,600mm (8'6")**
A	Shipping Length	8,860mm (29'1")	8,610mm (28'3")
B	Shipping Width	2,496mm (8'2")	←
C	Shipping Height (Boom)	3,140mm (10'4")	3,360mm (11')
D	Height Over Cab.	3,135mm (10'3")	←
E	Counter Weight Swing Clearance	2,450mm (8')	←
F	Ground Clearance	350mm (1'2")	←
G	Counter Weight Clearance	1,249mm (4'1")	←
H	Engine Cover Height	2,530mm (8'4")	←
I	Upper Housing Width	2,494mm (8'2")	←
J	Wheel Base	2,700mm (8'10")	←
K, L	Tread Width	1,944mm (6'5")	←

WORKING RANGE

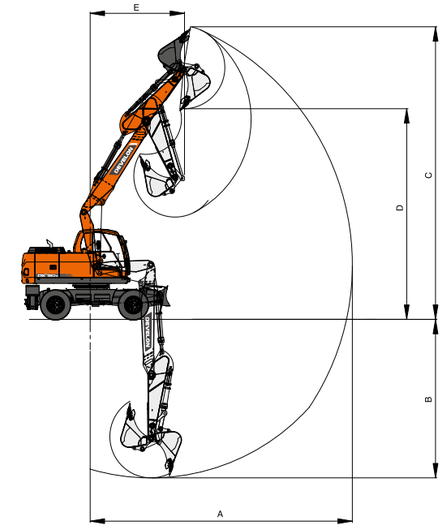
[One-piece Boom]



WORKING RANGE

Boom type (One-piece)		5,200mm (17'1")		
Arm type		**2,200mm (7'3")**	**2,600mm (8'6")**	**3,100mm (10'2")**
A	Max. Digging Reach	8,830mm (29')	9,200mm (30'2")	9,560mm (31'4")
B	Max. Digging Depth	5,565mm (18'3")	5,965mm (19'7")	6,465mm (21'3")
C	Max. Digging Height	9,115mm (29'11")	9,340mm (30'8")	9,270mm (30'5")
D	Max. Dump Height	6,420m (21'1")	6,650mm (21'10")	6,645mm (21'10")
E	Min. Swing Radius	3,195 mm (10'6")	3,200mm (10'6")	3,185mm (10'5")

[Two-piece Boom]



WORKING RANGE

Boom type (One-piece)		5,360mm (17'7")	
Arm type		**2,300mm (7'7")**	**2,600m (8'6")**
A	Max. Digging Reach	9,235mm (30'3")	9,530mm (31'3")
B	Max. Digging Depth	5,600mm (18'4")	5,900mm (19'4")
C	Max. Digging Height	10,260mm (33'8")	10,510mm (34'6")
D	Max. Dump Height	7,415mm (24'4")	7,660mm (25'2")
E	Min. Swing Radius	2,965mm (9'9")	3,160mm (10'4")

DIGGING FORCES (ISO)

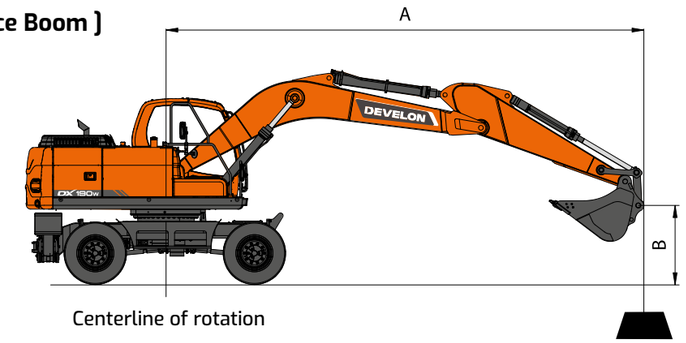
Bucket (PCSA)	**0.38m³**	**0.45m³**	**0.57m³**	**0.70m³**	**0.76m³**	**0.80m³**	**0.93m³**
Digging force	14,200 kgf	14,200 kgf	14,200 kgf	14,200 kgf	14,200 kgf	14,200 kgf	14,200 kgf
	139.25 kN	139.25 kN	139.25 kN	139.25 kN	139.25 kN	139.25 kN	139.25 kN
	31,305 lbf	31,305 lbf	31,305 lbf	31,305 lbf	31,305 lbf	31,305 lbf	31,305 lbf

Arm	**2,200mm**	**2,300mm**	**2,600mm**	**3,100mm**
Digging force	10,800 kgf	9,900 kgf	9,300 kgf	8,500 kgf
	105.91 kN	97.08 kN	91.20 kN	83.36 kN
	23,810 lbf	21,816 lbf	20,503 lbf	18,739 lbf

At power boost (ISO)

LIFTING CAPACITIES

[One-piece Boom]



Boom : 5,200mm(17'1")
Arm : 2,600mm(8'6")
Bucket : without bucket
Counter weight : 3,200 kg(7,055 lb)

METRIC

Unit : 1,000kg

A(m) / B(m)	Chassis Frame Attachment	2		3		4		5		6		7		Max. Reach		A(m)
8	R-Rear Dozer Only Up													*3.84	*3.84	4.72
	R-Rear Dozer Only Down													*3.84	*3.84	
	R-Outrigger Only Down													*3.84	*3.84	
	F-Dozer + R-Outrigger Down													*3.84	*3.84	
7	R-Rear Dozer Only Up													*3.51	3.29	5.83
	R-Rear Dozer Only Down													*3.51	*3.51	
	R-Outrigger Only Down													*3.51	*3.51	
	F-Dozer + R-Outrigger Down													*3.51	*3.51	
6	R-Rear Dozer Only Up									*5.09	3.17			*3.37	2.72	6.59
	R-Rear Dozer Only Down									*5.09	4.09			*3.37	*3.37	
	R-Outrigger Only Down									5.00	*5.09			*3.37	*3.37	
	F-Dozer + R-Outrigger Down									*5.09	*5.09			*3.37	*3.37	
5	R-Rear Dozer Only Up							*5.84	4.12	5.23	3.14	*4.03	2.47	*3.33	2.39	7.13
	R-Rear Dozer Only Down							*5.84	5.36	5.12	4.06	*4.03	3.20	*3.33	3.10	
	R-Outrigger Only Down							*5.84	*5.84	4.97	*5.57	3.90	*4.03	*3.33	*3.33	
	F-Dozer + R-Outrigger Down							*5.84	*5.84	*5.57	*5.57	*4.03	*4.03	*3.33	*3.33	
4	R-Rear Dozer Only Up			*9.56	8.52	*7.57	5.53	*6.54	4.01	5.17	3.08	4.10	2.45	*3.36	2.20	7.50
	R-Rear Dozer Only Down			*9.56	*9.56	*7.57	7.37	*6.54	5.24	5.06	4.00	4.01	3.18	*3.36	2.86	
	R-Outrigger Only Down			*9.56	*9.56	*7.57	*7.57	6.49	*6.54	4.90	5.79	3.88	4.56	*3.36	*3.36	
	F-Dozer + R-Outrigger Down			*9.56	*9.56	*7.57	*7.57	*6.54	*6.54	*5.94	5.79	*5.45	4.56	*3.36	*3.36	
3	R-Rear Dozer Only Up					*9.11	5.28	6.68	3.88	5.09	3.00	4.06	2.41	*3.44	2.08	7.71
	R-Rear Dozer Only Down					*9.11	7.09	6.54	5.10	4.97	3.92	3.96	3.14	3.43	2.72	
	R-Outrigger Only Down					9.03	*9.11	6.34	*7.39	4.82	5.70	3.83	4.51	3.32	*3.44	
	F-Dozer + R-Outrigger Down					*9.11	*9.11	*7.39	*7.39	*6.42	5.70	*5.83	4.51	*3.44	*3.44	
2	R-Rear Dozer Only Up					9.24	5.06	6.54	3.75	5.00	2.93	4.01	2.37	3.44	2.03	7.79
	R-Rear Dozer Only Down					9.04	6.85	6.39	4.96	4.89	3.84	3.92	3.09	3.35	2.65	
	R-Outrigger Only Down					8.75	*10.50	6.19	7.43	4.73	5.61	3.79	4.46	3.24	*3.59	
	F-Dozer + R-Outrigger Down					*10.50	*10.50	*8.20	7.43	*6.90	5.61	*6.09	4.46	*3.59	*3.59	
1	R-Rear Dozer Only Up					9.06	4.91	6.42	3.65	4.93	2.86	3.97	2.33	3.45	2.03	7.74
	R-Rear Dozer Only Down					8.86	6.68	6.82	4.86	4.82	3.77	3.87	3.05	3.37	2.66	
	R-Outrigger Only Down					8.57	10.56	6.07	7.30	4.66	5.54	3.74	4.42	3.25	*3.80	
	F-Dozer + R-Outrigger Down					*11.35	10.56	*8.81	7.30	*7.29	5.54	*6.30	4.42	*3.80	*3.80	
0 (Ground)	R-Rear Dozer Only Up			*5.74	*5.74	8.97	4.84	6.35	3.58	4.88	2.82	3.94	2.30	3.55	2.08	7.55
	R-Rear Dozer Only Down			*5.74	*5.74	8.77	6.60	6.20	4.79	4.77	3.72	3.85	3.02	3.47	2.73	
	R-Outrigger Only Down			*5.74	*5.74	8.48	10.47	6.00	7.23	4.61	5.48	3.72	4.39	3.35	3.95	
	F-Dozer + R-Outrigger Down			*5.74	*5.74	*11.61	10.47	*9.11	7.23	*7.50	5.48	*6.36	4.39	*4.12	3.95	
-1	R-Rear Dozer Only Up	*5.29	*5.29	*8.62	7.35	8.94	4.82	6.32	3.56	4.86	2.80	3.93	2.30	3.78	2.21	7.22
	R-Rear Dozer Only Down	*5.29	*5.29	*8.62	*8.62	8.74	6.58	6.17	4.76	4.74	3.70	3.84	3.02	3.69	2.90	
	R-Outrigger Only Down	*5.29	*5.29	*8.62	*8.62	8.46	10.44	5.97	7.19	4.59	5.46	3.71	4.38	3.56	4.21	
	F-Dozer + R-Outrigger Down	*5.29	*5.29	*8.62	*8.62	*11.40	10.44	*9.07	7.19	*7.45	5.46	*6.17	4.38	*4.60	4.21	
-2	R-Rear Dozer Only Up	*8.48	*8.48	*12.39	7.40	8.97	4.83	6.32	3.56	4.87	2.81			4.18	2.44	6.72
	R-Rear Dozer Only Down	*8.48	*8.48	*12.39	10.59	8.77	6.60	6.18	4.76	4.75	3.71			4.08	3.21	
	R-Outrigger Only Down	*8.48	*8.48	*12.39	*12.39	8.40	10.46	5.98	7.20	4.60	5.47			3.95	4.67	
	F-Dozer + R-Outrigger Down	*8.48	*8.48	*12.39	*12.39	*10.74	10.46	*8.63	7.20	*7.03	5.47			*5.36	4.67	
-3	R-Rear Dozer Only Up	*12.31	*12.31	*11.96	7.50	9.04	4.89	6.37	3.61	4.93	2.86			4.93	2.86	6.00
	R-Rear Dozer Only Down	*12.31	*12.31	*11.96	10.69	8.83	6.66	6.23	4.81	4.81	3.77			4.81	3.77	
	R-Outrigger Only Down	*12.31	*12.31	*11.96	*11.96	8.55	*9.54	6.03	7.25	4.66	5.53			4.66	5.53	
	F-Dozer + R-Outrigger Down	*12.31	*12.31	*11.96	*11.96	*9.54	*9.54	*7.66	7.25	*5.85	5.53			*5.85	5.53	
-4	R-Rear Dozer Only Up			*9.33	7.65	*7.46	5.00							*5.50	3.73	4.98
	R-Rear Dozer Only Down			*9.33	*9.33	*7.46	6.78							*5.50	4.96	
	R-Outrigger Only Down			*9.33	*9.33	*7.46	*7.46							*5.50	*5.50	
	F-Dozer + R-Outrigger Down			*9.33	*9.33	*7.46	*7.46							*5.50	*5.50	

FEET

Unit : 1,000kg

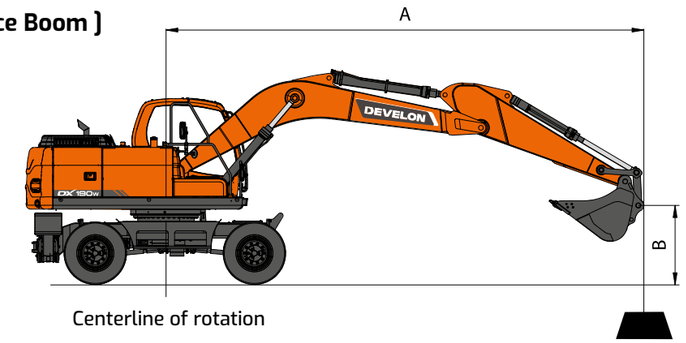
A(ft) / B(ft)	Chassis Frame Attachment	10		15		20		25		Max. Reach		A(m)
25	R-Rear Dozer Only Up									*8.12	*8.12	17.04
	R-Rear Dozer Only Down									*8.12	*8.12	
	R-Outrigger Only Down									*8.12	*8.12	
	F-Dozer + R-Outrigger Down									*8.12	*8.12	
20	R-Rear Dozer Only Up					*10.62	6.81			*7.45	6.08	21.42
	R-Rear Dozer Only Down					*10.62	8.80			*7.45	*7.45	
	R-Outrigger Only Down					*10.62	*10.62			*7.45	*7.45	
	F-Dozer + R-Outrigger Down					*10.62	*10.62			*7.45	*7.45	
15	R-Rear Dozer Only Up			*14.02	10.23	11.21	6.71			*7.35	5.06	23.97
	R-Rear Dozer Only Down			*14.02	13.42	10.97	8.69			*7.35	6.58	
	R-Outrigger Only Down			*14.02	*14.02	10.63	*12.51			*7.35	*7.35	
	F-Dozer + R-Outrigger Down			*14.02	*14.02	*12.51	*12.51			*7.35	*7.35	
10	R-Rear Dozer Only Up	*27.19	17.16	16.94	9.69	10.96	6.48	7.89	4.68	*7.57	4.60	25.28
	R-Rear Dozer Only Down	*27.19	24.12	16.58	12.83	10.72	8.46	7.70	6.10	*7.57	6.00	
	R-Outrigger Only Down	*27.19	*27.19	16.07	*17.51	10.38	12.27	7.45	8.75	7.32	*7.57	
	F-Dozer + R-Outrigger Down	*27.19	*27.19	*17.51	*17.51	*13.95	12.27	*8.89	8.75	*7.57	*7.57	
5	R-Rear Dozer Only Up			16.34	9.18	10.70	6.25	7.79	4.59	7.56	4.46	25.53
	R-Rear Dozer Only Down			15.98	12.28	10.46	8.21	7.61	6.01	7.38	5.83	
	R-Outrigger Only Down			15.47	18.74	10.12	12.00	7.36	8.66	7.14	*8.11	
	F-Dozer + R-Outrigger Down			*20.72	18.74	*15.44	12.00	*10.90	8.66	*8.11	*8.11	
0 (Ground)	R-Rear Dozer Only Up	*13.23	*13.23	16.01	8.90	10.52	6.09			7.83	4.60	24.77
	R-Rear Dozer Only Down	*13.23	*13.23	15.65	11.98	10.28	8.04			7.65	6.03	
	R-Outrigger Only Down	*13.23	*13.23	15.14	18.38	9.94	11.81			7.39	8.71	
	F-Dozer + R-Outrigger Down	*13.23	*13.23	*22.14	18.38	*16.25	11.81			*9.09	8.71	
-5	R-Rear Dozer Only Up	*23.63	15.86	15.94	8.84	10.47	6.05			8.73	5.10	22.89
	R-Rear Dozer Only Down	*23.63	22.62	15.58	11.91	10.23	7.99			8.52	6.71	
	R-Outrigger Only Down	*23.63	*23.63	15.07	18.31	9.89	11.76			8.24	9.74	
	F-Dozer + R-Outrigger Down	*23.63	*23.63	*21.49	18.31	*15.76	11.76			*10.91	9.74	
-10	R-Rear Dozer Only Up	*25.85	16.13	16.09	8.97					10.97	6.37	19.55
	R-Rear Dozer Only Down	*25.85	22.94	15.73	12.05					10.72	8.39	
	R-Outrigger Only Down	*25.85	*25.85	15.22	*18.42					10.37	12.32	
	F-Dozer + R-Outrigger Down	*25.85	*25.85	*18.42	*18.42					*12.88	12.32	

1. Ratings are based on SAE J1097
2. Load point is the end of arm.
3. * Rated loads are based on hydraulic capacity.
4. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

: Rating Over Front
: Rating Over Side or 360 Degree

LIFTING CAPACITIES

[One-piece Boom]



Boom : 5,200mm(17'1")
Arm : 2,200mm(7'3")
Bucket : without bucket
Counter weight : 3,200 kg(7,055 lb)

METRIC

Unit : 1,000kg

A(m) / B(m)	Chassis Frame Attachment	2		3		4		5		6		7		Max. Reach		A(m)
7	R-Rear Dozer Only Up							*6.00	4.14					*5.02	3.76	5.31
	R-Rear Dozer Only Down							*6.00	5.39					*5.02	4.88	
	R-Outrigger Only Down							*6.00	*6.00					*5.02	*5.02	
	F-Dozer + R-Outrigger Down							*6.00	*6.00					*5.02	*5.02	
6	R-Rear Dozer Only Up							*5.91	4.15	5.22	3.13			*4.77	3.01	6.14
	R-Rear Dozer Only Down							*5.91	5.39	5.11	4.05			*4.77	3.90	
	R-Outrigger Only Down							*5.91	*5.91	4.95	*5.54			*4.77	*4.77	
	F-Dozer + R-Outrigger Down							*5.91	*5.91	*5.54	*5.54			*4.77	*4.77	
5	R-Rear Dozer Only Up							*6.30	4.08	5.21	3.11			4.37	2.61	6.72
	R-Rear Dozer Only Down							*6.30	5.32	5.09	4.04			4.27	3.39	
	R-Outrigger Only Down							*6.30	*6.30	4.94	5.83			4.13	*4.69	
	F-Dozer + R-Outrigger Down							*6.30	*6.30	*5.94	5.83			*4.69	*4.69	
4	R-Rear Dozer Only Up					*8.23	5.45	6.79	3.97	5.15	3.06	4.08	2.43	3.99	2.38	7.10
	R-Rear Dozer Only Down					*8.23	7.28	6.64	5.20	5.03	3.98	3.99	3.16	3.90	3.09	
	R-Outrigger Only Down					*8.23	*8.23	6.44	*6.97	4.88	5.76	3.86	4.54	3.77	4.43	
	F-Dozer + R-Outrigger Down					*8.23	*8.23	*6.97	*6.97	*6.26	5.76	*5.53	4.54	*4.72	4.43	
3	R-Rear Dozer Only Up					9.41	5.20	6.64	3.84	5.07	2.99	4.05	2.40	*3.78	2.24	7.33
	R-Rear Dozer Only Down					9.20	7.00	6.50	5.06	4.96	3.90	3.96	3.13	3.69	2.92	
	R-Outrigger Only Down					8.92	*9.73	6.29	7.54	4.80	5.68	3.83	4.50	3.57	4.20	
	F-Dozer + R-Outrigger Down					*9.73	*9.73	*7.77	7.54	*6.69	5.68	*6.06	4.50	*4.84	4.20	
2	R-Rear Dozer Only Up					9.16	4.99	6.50	3.72	4.99	2.92	4.01	2.37	3.69	2.18	7.42
	R-Rear Dozer Only Down					8.95	6.77	6.36	4.93	4.88	3.83	3.91	3.09	3.61	2.85	
	R-Outrigger Only Down					8.67	10.67	6.16	7.39	4.72	5.60	3.79	4.46	3.49	4.10	
	F-Dozer + R-Outrigger Down					*10.96	10.67	*8.50	7.39	*7.12	5.60	*6.26	4.46	*5.05	4.10	
1	R-Rear Dozer Only Up					9.01	4.87	6.40	3.63	4.93	2.86	3.97	2.34	3.71	2.18	7.36
	R-Rear Dozer Only Down					8.81	6.64	6.26	4.84	4.81	3.77	3.88	3.06	3.62	2.86	
	R-Outrigger Only Down					8.53	10.51	6.05	7.28	4.66	5.53	3.75	4.43	3.50	4.12	
	F-Dozer + R-Outrigger Down					*11.56	10.51	*8.99	7.28	*7.43	5.53	*6.38	4.43	*5.38	4.12	
0 (Ground)	R-Rear Dozer Only Up					8.96	4.83	6.34	3.58	4.89	2.83	3.96	2.32	3.84	2.25	7.16
	R-Rear Dozer Only Down					8.76	6.59	6.20	4.79	4.77	3.73	3.86	3.04	3.75	2.95	
	R-Outrigger Only Down					8.47	10.45	6.00	7.22	4.62	5.49	3.73	4.41	3.62	4.27	
	F-Dozer + R-Outrigger Down					*11.58	10.45	*9.15	7.22	*7.53	5.49	*6.33	4.41	*5.87	4.27	
-1	R-Rear Dozer Only Up			*8.80	7.39	8.96	4.83	6.33	3.57	4.88	2.82			4.11	2.41	6.81
	R-Rear Dozer Only Down			*8.80	*8.80	8.76	6.59	6.18	4.77	4.76	3.72			4.02	3.16	
	R-Outrigger Only Down			*8.80	*8.80	8.47	10.45	5.98	7.21	4.61	5.48			3.88	4.59	
	F-Dozer + R-Outrigger Down			*8.80	*8.80	*11.15	10.45	*8.96	7.21	*7.35	5.48			*6.19	4.59	
-2	R-Rear Dozer Only Up	*9.45	*9.45	*12.76	7.46	9.00	4.87	6.35	3.59	4.90	2.84			4.62	2.70	6.27
	R-Rear Dozer Only Down	*9.45	*9.45	*12.76	10.65	8.80	6.63	6.21	4.79	4.79	3.75			4.52	3.55	
	R-Outrigger Only Down	*9.45	*9.45	*12.76	*12.76	8.52	*10.30	6.01	7.23	4.63	5.51			4.37	5.18	
	F-Dozer + R-Outrigger Down	*9.45	*9.45	*12.76	*12.76	*10.30	*10.30	*8.34	7.23	*6.69	5.51			*6.18	518	
-3	R-Rear Dozer Only Up	*13.23	*13.23	*10.85	7.56	*8.84	4.94	6.43	3.66					5.62	3.25	5.50
	R-Rear Dozer Only Down	*13.23	*13.23	*10.85	10.77	*8.84	6.72	6.28	4.86					5.49	4.29	
	R-Outrigger Only Down	*13.23	*13.23	*10.85	*10.85	8.61	*8.84	6.08	*7.04					5.32	*6.00	
	F-Dozer + R-Outrigger Down	*13.23	*13.23	*10.85	*10.85	*8.84	*8.84	*7.04	*7.04					*6.00	*6.00	
-4	R-Rear Dozer Only Up			*7.78	7.75	*6.14	5.09							*5.33	4.54	4.36
	R-Rear Dozer Only Down			*7.78	*7.78	*6.14	*6.14							*5.33	*5.33	
	R-Outrigger Only Down			*7.78	*7.78	*6.14	*6.14							*5.33	*5.33	
	F-Dozer + R-Outrigger Down			*7.78	*7.78	*6.14	*6.14							*5.33	*5.33	

FEET

Unit : 1,000kg

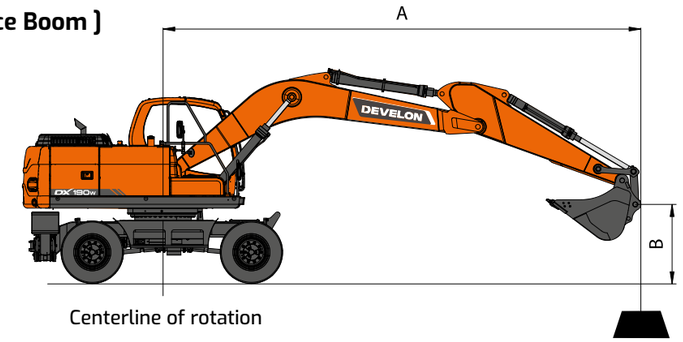
A(ft) / B(ft)	Chassis Frame Attachment	10		15		20		Max. Reach		A(m)
25	R-Rear Dozer Only Up							*11.75	10.27	15.10
	R-Rear Dozer Only Down							*11.75	*11.75	
	R-Outrigger Only Down							*11.75	*11.75	
	F-Dozer + R-Outrigger Down							*11.75	*11.75	
20	R-Rear Dozer Only Up							*10.56	6.76	19.92
	R-Rear Dozer Only Down							*10.56	8.75	
	R-Outrigger Only Down							*10.56	*10.56	
	F-Dozer + R-Outrigger Down							*10.56	*10.56	
15	R-Rear Dozer Only Up			*15.16	10.13	11.16	6.66	9.21	5.50	22.65
	R-Rear Dozer Only Down			*15.16	13.30	10.91	8.64	9.00	7.14	
	R-Outrigger Only Down			*15.16	*15.16	10.57	12.48	8.72	10.25	
	F-Dozer + R-Outrigger Down			*15.16	*15.16	*13.28	12.48	*10.35	10.25	
10	R-Rear Dozer Only Up			16.80	9.58	10.92	6.45	8.35	4.96	24.03
	R-Rear Dozer Only Down			16.44	12.71	10.68	8.42	8.16	6.46	
	R-Outrigger Only Down			15.93	*18.52	10.34	12.23	7.89	9.28	
	F-Dozer + R-Outrigger Down			*18.52	*18.52	*14.54	12.23	*10.65	9.28	
5	R-Rear Dozer Only Up			16.25	9.11	10.68	6.24	8.13	4.80	24.30
	R-Rear Dozer Only Down			15.89	12.20	10.44	8.19	7.94	6.27	
	R-Outrigger Only Down			15.38	18.64	10.10	11.98	7.67	9.03	
	F-Dozer + R-Outrigger Down			*21.34	18.64	*15.82	11.98	*11.45	9.03	
0 (Ground)	R-Rear Dozer Only Up			15.99	8.89	10.54	6.11	8.46	4.97	23.50
	R-Rear Dozer Only Down			15.63	11.96	10.29	8.05	8.26	6.51	
	R-Outrigger Only Down			15.12	18.36	9.95	11.83	7.99	9.42	
	F-Dozer + R-Outrigger Down			*22.20	18.36	*16.33	11.83	*12.95	9.42	
-5	R-Rear Dozer Only Up	*25.67	15.96	15.99	8.89	10.54	6.11	9.57	5.60	21.50
	R-Rear Dozer Only Down	*25.67	22.73	15.63	11.96	10.30	8.06	9.35	7.35	
	R-Outrigger Only Down	*25.67	*25.67	15.12	18.36	9.96	11.83	9.04	10.70	
	F-Dozer + R-Outrigger Down	*25.67	*25.67	*20.97	18.36	*15.30	11.83	*13.65	10.70	
-10	R-Rear Dozer Only Up	*23.44	16.28	16.21	9.08			12.55	7.25	17.90
	R-Rear Dozer Only Down	*23.44	23.10	15.85	12.17			12.26	9.57	
	R-Outrigger Only Down	*23.44	*23.44	15.34	*17.01			11.87	*13.20	
	F-Dozer + R-Outrigger Down	*23.44	*23.44	*17.01	*17.01			*13.20	*13.20	

1. Ratings are based on SAE J1097
2. Load point is the end of arm.
3. * Rated loads are based on hydraulic capacity.
4. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

: Rating Over Front
: Rating Over Side or 360 Degree

LIFTING CAPACITIES

[Two-piece Boom]



Boom : 5,200mm(17'1")
Arm : 3,100mm(10'2")
Bucket : without bucket
Counter weight : 3,200 kg(7,055 lb)

METRIC

Unit : 1,000kg

A(m) / B(m)	Chassis Frame Attachment	2		3		4		5		6		7		8		Max. Reach		A(m)
8	R-Rear Dozer Only Up															*3.44	*3.44	5.30
	R-Rear Dozer Only Down															*3.44	*3.44	
	R-Outrigger Only Down															*3.44	*3.44	
	F-Dozer + R-Outrigger Down															*3.44	*3.44	
7	R-Rear Dozer Only Up									*3.91	3.17					*3.24	2.93	6.30
	R-Rear Dozer Only Down									*3.91	*3.91					*3.24	*3.24	
	R-Outrigger Only Down									*3.91	*3.91					*3.24	*3.24	
	F-Dozer + R-Outrigger Down									*3.91	*3.91					*3.24	*3.24	
6	R-Rear Dozer Only Up									*4.70	3.18	*3.19	2.47			*3.16	2.46	7.01
	R-Rear Dozer Only Down									*4.70	4.11	*3.19	*3.19			*3.16	*3.16	
	R-Outrigger Only Down									*4.70	*4.70	*3.19	*3.19			*3.16	*3.16	
	F-Dozer + R-Outrigger Down									*4.70	*4.70	*3.19	*3.19			*3.16	*3.16	
5	R-Rear Dozer Only Up									*5.05	3.14	4.12	2.46			*3.15	2.18	7.52
	R-Rear Dozer Only Down									*5.05	4.06	4.03	3.20			*3.15	2.85	
	R-Outrigger Only Down									4.97	*5.05	3.90	*4.44			*3.15	*3.15	
	F-Dozer + R-Outrigger Down									*5.05	*5.05	*4.44	*4.44			*3.15	*3.15	
4	R-Rear Dozer Only Up							*5.92	4.02	5.17	3.07	4.08	2.42			*3.20	2.01	7.87
	R-Rear Dozer Only Down							*5.92	5.26	5.05	3.99	3.99	3.16			*3.20	2.63	
	R-Outrigger Only Down							*5.92	*5.92	4.90	*5.46	3.86	4.54			*3.20	*3.20	
	F-Dozer + R-Outrigger Down							*5.92	*5.92	*5.46	*5.46	*5.18	4.54			*3.20	*3.20	
3	R-Rear Dozer Only Up			*11.07	8.11	*8.20	5.32	6.69	3.87	5.07	2.98	4.03	2.37	3.29	1.93	3.25	1.90	8.07
	R-Rear Dozer Only Down			*11.07	*11.07	*8.20	7.14	6.54	5.10	4.95	3.90	3.93	3.10	3.22	2.54	3.17	2.50	
	R-Outrigger Only Down			*11.07	*11.07	*8.20	*8.20	6.34	*6.80	4.80	5.69	3.81	4.49	3.11	*3.64	3.06	*3.31	
	F-Dozer + R-Outrigger Down			*11.07	*11.07	*8.20	*8.20	*6.80	*6.80	*5.99	5.69	*5.47	4.49	*3.64	*3.64	*3.31	*3.31	
2	R-Rear Dozer Only Up			*7.95	7.56	9.25	5.05	6.52	3.72	4.97	2.89	3.97	2.32	3.26	1.90	3.18	1.85	8.15
	R-Rear Dozer Only Down			*7.95	*7.95	9.05	6.85	6.37	4.94	4.85	3.80	3.87	3.05	3.19	2.51	3.10	2.44	
	R-Outrigger Only Down			*7.95	*7.95	8.77	*9.73	6.17	7.41	4.70	5.58	3.74	4.42	3.08	3.63	2.99	*3.47	
	F-Dozer + R-Outrigger Down			*7.95	*7.95	*9.73	*9.73	*7.69	7.41	*6.53	5.58	*5.79	4.42	*4.19	3.63	*3.47	*3.47	
1	R-Rear Dozer Only Up			*5.99	*5.99	9.01	4.85	6.37	3.59	4.88	2.81	3.91	2.27	3.23	1.88	3.18	1.85	8.10
	R-Rear Dozer Only Down			*5.99	*5.99	8.81	6.63	6.23	4.80	4.76	3.72	3.82	2.99	3.16	2.48	3.10	2.44	
	R-Outrigger Only Down			*5.99	*5.99	8.52	10.52	6.02	7.26	4.61	5.49	3.69	4.37	3.05	3.60	3.00	3.53	
	F-Dozer + R-Outrigger Down			*5.99	*5.99	*10.84	10.52	*8.42	7.26	*7.00	5.49	*6.07	4.37	*4.27	3.60	*3.70	3.53	
0 (Ground)	R-Rear Dozer Only Up			*6.94	*6.94	8.87	4.74	6.27	3.50	4.81	2.75	3.87	2.23			3.26	1.89	7.92
	R-Rear Dozer Only Down			*6.94	*6.94	8.67	6.50	6.13	4.71	4.70	3.65	3.78	2.95			3.18	2.50	
	R-Outrigger Only Down			*6.94	*6.94	8.38	10.37	5.92	7.15	4.54	5.41	3.65	4.32			3.07	3.63	
	F-Dozer + R-Outrigger Down			*6.94	*6.94	*11.39	10.37	*8.88	7.15	*7.31	5.41	*6.24	4.32			*4.04	3.63	
-1	R-Rear Dozer Only Up	*5.59	*5.59	*8.94	7.15	8.81	4.69	6.22	3.46	4.77	2.71	3.85	2.21			3.44	1.99	7.60
	R-Rear Dozer Only Down	*5.59	*5.59	*8.94	*8.94	8.61	6.45	6.07	4.66	4.66	3.62	3.76	2.93			3.36	2.63	
	R-Outrigger Only Down	*5.59	*5.59	*8.94	*8.94	8.32	10.30	5.87	7.09	4.50	5.37	3.63	4.30			3.24	3.84	
	F-Dozer + R-Outrigger Down	*5.59	*5.59	*8.94	*8.94	*11.43	10.30	*9.01	7.09	*7.40	5.37	*6.23	4.30			*4.53	3.84	
-2	R-Rear Dozer Only Up	*8.07	*8.07	*11.79	7.18	8.81	4.69	6.20	3.45	4.76	2.71	3.85	2.22			3.77	2.17	7.13
	R-Rear Dozer Only Down	*8.07	*8.07	*11.79	10.35	8.61	6.45	6.06	4.65	4.65	3.61	3.76	2.94			3.68	2.88	
	R-Outrigger Only Down	*8.07	*8.07	*11.79	*11.79	8.32	10.30	5.86	7.08	4.49	5.37	3.63	4.31			3.55	4.21	
	F-Dozer + R-Outrigger Down	*8.07	*8.07	*11.79	*11.79	*11.02	10.30	*8.78	7.08	*7.19	5.37	*5.89	4.31			*5.30	4.21	
-3	R-Rear Dozer Only Up	*11.05	*11.05	*12.98	7.26	8.86	4.73	6.24	3.47	4.79	2.73					4.34	2.49	6.46
	R-Rear Dozer Only Down	*11.05	*11.05	*12.98	10.44	8.66	6.50	6.09	4.68	4.68	3.64					4.24	3.31	
	R-Outrigger Only Down	*11.05	*11.05	*12.98	*12.98	8.38	*10.12	5.89	7.11	4.52	5.40					4.09	4.87	
	F-Dozer + R-Outrigger Down	*11.05	*11.05	*12.98	*12.98	*10.12	*10.12	*8.11	7.11	*6.53	5.40					*5.80	4.87	
-4	R-Rear Dozer Only Up	*14.29	*14.29	*10.82	7.40	*8.54	4.82	6.32	3.55							5.47	3.12	5.53
	R-Rear Dozer Only Down	*14.29	*14.29	*10.82	10.60	*8.54	6.59	6.18	4.67							5.35	4.15	
	R-Outrigger Only Down	*14.29	*14.29	*10.82	*10.82	8.48	*8.54	5.98	*6.73							5.17	*5.76	
	F-Dozer + R-Outrigger Down	*14.29	*14.29	*10.82	10.82	*8.54	*8.54	6.73	*6.73							*5.76	*5.76	
-5	R-Rear Dozer Only Up					*5.59	4.99									*5.29	4.75	4.15
	R-Rear Dozer Only Down					*5.59	*5.59									*5.29	*5.29	
	R-Outrigger Only Down					*5.59	*5.59									*5.29	*5.29	
	F-Dozer + R-Outrigger Down					*5.59	*5.59									*5.29	*5.29	

FEET

Unit : 1,000kg

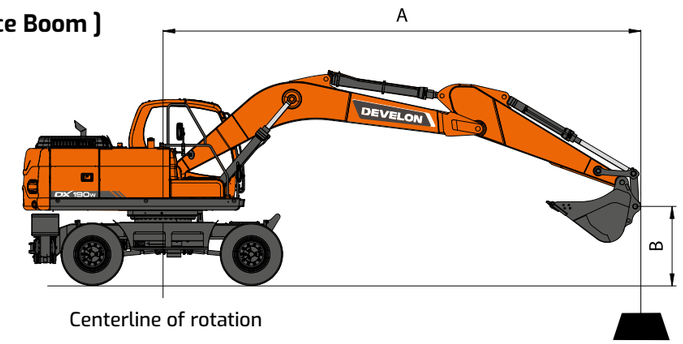
A(ft) / B(ft)	Chassis Frame Attachment	10		15		20		25		Max. Reach		A(m)
25	R-Rear Dozer Only Up									*7.37	*7.37	18.77
	R-Rear Dozer Only Down									*7.37	*7.37	
	R-Outrigger Only Down									*7.37	*7.37	
	F-Dozer + R-Outrigger Down									*7.37	*7.37	
20	R-Rear Dozer Only Up					*10.11	6.83			*6.96	5.50	22.81
	R-Rear Dozer Only Down					*10.11	8.84			*6.96	*6.96	
	R-Outrigger Only Down					*10.11	*10.11			*6.96	*6.96	
	F-Dozer + R-Outrigger Down					*10.11	*10.11			*6.96	*6.96	
15	R-Rear Dozer Only Up					11.21	6.69	*7.54	4.70	*6.98	4.63	25.22
	R-Rear Dozer Only Down					10.97	8.68	*7.54	6.13	*6.98	6.04	
	R-Outrigger Only Down					10.63	*11.44	7.49	*7.54	*6.98	*6.98	
	F-Dozer + R-Outrigger Down					*11.44	*11.44	*7.54	*7.54	*6.98	*6.98	
10	R-Rear Dozer Only Up	*23.62	17.52	*15.97	9.71	10.92	6.42	7.82	4.60	7.17	4.21	26.46
	R-Rear Dozer Only Down	*23.62	*23.62	*15.97	12.87	10.68	8.40	7.64	6.03	7.00	5.52	
	R-Outrigger Only Down	*23.62	*23.62	*15.97	*15.97	10.34	12.24	7.38	8.70	6.77	*7.27	
	F-Dozer + R-Outrigger Down	*23.62	*23.62	*15.97	*15.97	*13.01	12.24	*10.69	8.70	*7.27	*7.27	
5	R-Rear Dozer Only Up	*15.04	*15.04	16.28	9.09	10.60	6.14	7.68	4.48	6.99	4.06	26.70
	R-Rear Dozer Only Down	*15.04	*15.04	15.91	12.20	10.36	8.10	7.50	5.90	6.82	5.36	
	R-Outrigger Only Down	*15.04	*15.04	15.40	18.68	10.02	11.91	7.25	8.55	6.58	7.76	
	F-Dozer + R-Outrigger Down	*15.04	*15.04	*19.55	18.68	*14.70	11.91	*12.25	8.55	*7.87	7.76	
0 (Ground)	R-Rear Dozer Only Up	*15.90	15.41	15.83	8.71	10.36	5.93	7.58	4.38	7.19	4.16	25.98
	R-Rear Dozer Only Down	*15.90	*15.90	15.46	11.79	10.12	7.88	7.40	5.80	7.02	5.50	
	R-Outrigger Only Down	*15.90	*15.90	14.95	18.20	9.78	11.66	7.14	8.45	6.77	8.00	
	F-Dozer + R-Outrigger Down	*15.90	*15.90	*21.60	18.20	*15.85	11.66	*12.61	8.45	*8.91	8.00	
-5	R-Rear Dozer Only Up	*23.32	15.40	15.67	8.58	10.27	5.84			7.91	4.56	24.19
	R-Rear Dozer Only Down	*23.32	22.13	15.31	11.65	10.02	7.79			7.72	6.05	
	R-Outrigger Only Down	*23.32	*23.32	14.80	18.04	9.68	11.56			7.46	8.83	
	F-Dozer + R-Outrigger Down	*23.32	*23.32	*21.65	18.04	*15.88	11.56			*10.77	8.83	
-10	R-Rear Dozer Only Up	*28.06	15.63	15.76	8.66	10.35	5.91			9.65	5.54	21.07
	R-Rear Dozer Only Down	*28.06	22.39	15.40	11.73	10.11	7.86			9.42	7.35	
	R-Outrigger Only Down	*28.06	*28.06	14.89	18.13	9.77	11.64			9.10	10.82	
	F-Dozer + R-Outrigger Down	*28.06	*28.06	*19.51	18.13	*13.95	11.64			*12.79	10.82	
-15	R-Rear Dozer Only Up	*19.75	16.15	*13.41	9.00					*12.33	8.40	15.81
	R-Rear Dozer Only Down	*19.75	*19.75	*13.41	12.10					*12.33	11.25	
	R-Outrigger Only Down	*19.75	*19.75	*13.41	*13.41					*12.33	*12.33	
	F-Dozer + R-Outrigger Down	*19.75	*19.75	*13.41	*13.41					*12.33	*12.33	

1. Ratings are based on SAE J1097
2. Load point is the end of arm.
3. * Rated loads are based on hydraulic capacity.
4. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

: Rating Over Front
: Rating Over Side or 360 Degree

LIFTING CAPACITIES

[Two-piece Boom]



Boom : 5,360mm(17'7")
Arm : 2,600mm(8'6")
Bucket : without bucket
Counter weight : 3,200 kg(7,055 lb)

METRIC

Unit : 1,000kg

B(m) \ A(m)	Chassis Frame Attachment	3		4		5		6		7		8		Max. Reach		A(m)
9	R-Rear Dozer Only Up													*4.03	*4.03	3.67
	R-Rear Dozer Only Down													*4.03	*4.03	
	R-Outrigger Only Down													*4.03	*4.03	
	F-Dozer + R-Outrigger Down													*4.03	*4.03	
8	R-Rear Dozer Only Up					*4.47	4.15							*3.22	*3.22	5.22
	R-Rear Dozer Only Down					*4.47	*4.47							*3.22	*3.22	
	R-Outrigger Only Down					*4.47	*4.47							*3.22	*3.22	
	F-Dozer + R-Outrigger Down					*4.47	*4.47							*3.22	*3.22	
7	R-Rear Dozer Only Up					*4.18	*4.18	*4.31	3.16					*2.89	*2.89	6.23
	R-Rear Dozer Only Down					*4.18	*4.18	*4.31	4.09					*2.89	*2.89	
	R-Outrigger Only Down					*4.18	*4.18	*4.31	*4.31					*2.89	*2.89	
	F-Dozer + R-Outrigger Down					*4.18	*4.18	*4.31	*4.31					*2.89	*2.89	
6	R-Rear Dozer Only Up					*4.29	4.19	*4.45	3.18					*2.72	2.50	6.95
	R-Rear Dozer Only Down					*4.29	*4.29	*4.45	4.11					*2.72	*2.72	
	R-Outrigger Only Down					*4.29	*4.29	*4.45	*4.45					*2.72	*2.72	
	F-Dozer + R-Outrigger Down					*4.29	*4.29	*4.45	*4.45					*2.72	*2.72	
5	R-Rear Dozer Only Up			*5.00	*5.00	*4.78	4.11	*4.67	3.14	4.14	2.48			*2.63	2.23	7.47
	R-Rear Dozer Only Down			*5.00	*5.00	*4.78	*4.78	*4.67	4.07	4.05	3.22			*2.63	*2.63	
	R-Outrigger Only Down			*5.00	*5.00	*4.78	*4.78	*4.67	*4.67	3.92	4.61			*2.63	*2.63	
	F-Dozer + R-Outrigger Down			*5.00	*5.00	*4.78	*4.78	*4.67	*4.67	*4.72	4.61			*2.63	*2.63	
4	R-Rear Dozer Only Up			*6.36	5.51	*5.54	4.00	*5.11	3.08	4.11	2.46			*2.60	2.06	7.81
	R-Rear Dozer Only Down			*6.36	*6.36	*5.54	5.24	5.07	4.01	4.02	3.19			*2.60	*2.60	
	R-Outrigger Only Down			*6.36	*6.36	*5.54	*5.54	4.91	*5.11	3.89	4.58			*2.60	*2.60	
	F-Dozer + R-Outrigger Down			*6.36	*6.36	*5.54	*5.54	*5.11	*5.11	*4.91	4.58			*2.60	*2.60	
3	R-Rear Dozer Only Up			*8.04	5.26	*6.48	3.87	5.09	3.01	4.07	2.42	*2.91	1.98	*2.61	1.97	8.02
	R-Rear Dozer Only Down			*8.04	7.07	*6.48	5.10	4.98	3.92	3.98	3.15	*2.91	2.58	*2.61	2.57	
	R-Outrigger Only Down			*8.04	*8.04	6.34	*6.48	4.82	*5.67	3.85	4.53	*2.91	*2.91	*2.61	*2.61	
	F-Dozer + R-Outrigger Down			*8.04	*8.04	*6.48	*6.48	*5.67	*5.67	*5.23	4.53	*2.91	*2.91	*2.61	*2.61	
2	R-Rear Dozer Only Up			9.23	5.04	6.54	3.74	5.01	2.93	4.02	2.37	3.32	1.96	*2.66	1.93	8.10
	R-Rear Dozer Only Down			9.02	6.83	6.39	4.96	4.90	3.84	3.93	3.10	3.24	2.56	*2.66	2.52	
	R-Outrigger Only Down			8.74	*9.64	6.19	*7.43	4.74	5.62	3.80	4.48	3.13	3.68	*2.66	*2.66	
	F-Dozer + R-Outrigger Down			*9.64	*9.64	*7.43	*7.43	*6.26	5.62	*5.60	4.48	*3.82	3.68	*2.66	*2.66	
1	R-Rear Dozer Only Up			9.06	4.90	6.43	3.65	4.94	2.87	3.98	2.33	3.30	1.95	*2.75	1.93	8.05
	R-Rear Dozer Only Down			8.86	6.68	6.28	4.86	4.83	3.78	3.88	3.06	3.23	2.55	*2.75	2.53	
	R-Outrigger Only Down			8.58	10.57	6.08	7.32	4.67	5.55	3.76	4.43	3.12	*3.44	*2.75	*2.75	
	F-Dozer + R-Outrigger Down			*10.68	10.57	*8.23	7.32	*6.81	5.55	*5.95	4.43	*3.44	*3.44	*2.75	*2.75	
0 (Ground)	R-Rear Dozer Only Up			8.99	4.84	6.36	3.59	4.89	2.83	3.95	2.31			*2.89	1.98	7.87
	R-Rear Dozer Only Down			8.78	6.61	6.22	4.80	4.78	3.73	3.86	3.03			*2.89	2.60	
	R-Outrigger Only Down			8.50	10.49	6.01	7.24	4.67	5.50	3.73	4.40			*2.89	*2.89	
	F-Dozer + R-Outrigger Down			*11.29	10.49	*8.79	7.24	*7.23	5.50	*6.23	4.40			*2.89	*2.89	
-1	R-Rear Dozer Only Up	*6.81	*6.81	8.97	4.83	6.33	3.56	4.87	2.81	3.94	2.30			*3.10	2.10	7.55
	R-Rear Dozer Only Down	*6.81	*6.81	8.77	6.60	6.19	4.77	4.76	3.74	3.85	3.03			*3.10	2.75	
	R-Outrigger Only Down	*6.81	*6.81	8.48	10.47	5.99	7.21	4.60	5.48	3.72	4.40			*3.10	*3.10	
	F-Dozer + R-Outrigger Down	*6.81	*6.81	*11.60	10.47	*9.08	7.21	*7.47	5.48	*6.36	4.40			*3.10	*3.10	
-2	R-Rear Dozer Only Up	*10.44	7.44	9.00	4.85	6.34	3.57	4.88	2.81	3.97	2.33			*3.42	23.0	7.07
	R-Rear Dozer Only Down	*10.44	*10.44	8.80	6.62	6.20	4.78	4.77	3.72	3.88	3.05			*3.42	3.02	
	R-Outrigger Only Down	*10.44	*10.44	8.51	10.50	6.00	7.22	4.61	5.49	3.75	4.43			*3.42	*3.42	
	F-Dozer + R-Outrigger Down	*10.44	*10.44	*11.44	10.50	*9.08	7.22	*7.46	5.49	*4.71	4.43			*3.42	*3.42	
-3	R-Rear Dozer Only Up			9.07	4.91	6.39	3.61	4.93	2.86					4.83	2.81	6.10
	R-Rear Dozer Only Down			8.86	6.69	6.24	4.82	4.82	3.77					4.72	3.69	
	R-Outrigger Only Down			8.58	10.58	6.04	7.27	4.66	5.54					4.56	5.42	
	F-Dozer + R-Outrigger Down			*10.86	10.58	*8.67	7.27	*6.98	5.54					*6.82	5.42	

FEET

Unit : 1,000kg

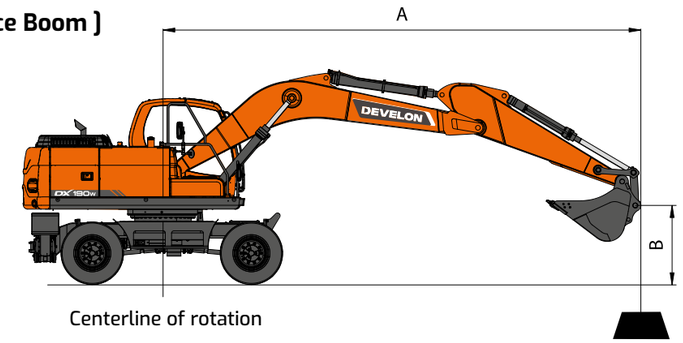
B(ft) \ A(ft)	Chassis Frame Attachment	10		15		20		25		Max. Reach		A(m)
25	R-Rear Dozer Only Up			*9.16	*9.16					*6.75	*6.75	18.54
	R-Rear Dozer Only Down			*9.16	*9.16					*6.75	*6.75	
	R-Outrigger Only Down			*9.16	*9.16					*6.75	*6.75	
	F-Dozer + R-Outrigger Down			*9.16	*9.16					*6.75	*6.75	
20	R-Rear Dozer Only Up			*9.24	*9.24	*9.85	6.84			*6.02	5.58	22.62
	R-Rear Dozer Only Down			*9.24	*9.24	*9.85	8.84			*6.02	*6.02	
	R-Outrigger Only Down			*9.24	*9.24	*9.85	*9.85			*6.02	*6.02	
	F-Dozer + R-Outrigger Down			*9.24	*9.24	*9.85	*9.85			*6.02	*6.02	
15	R-Rear Dozer Only Up			*11.54	10.22	*10.63	6.72	*6.15	4.75	*5.76	4.73	25.04
	R-Rear Dozer Only Down			*11.54	*11.54	*10.63	8.71	*6.15	*6.15	*5.76	*5.76	
	R-Outrigger Only Down			*11.54	*11.54	*10.63	*10.63	*6.15	*6.15	*5.76	*5.76	
	F-Dozer + R-Outrigger Down			*11.54	*11.54	*10.63	*10.63	*6.15	*6.15	*5.76	*5.76	
10	R-Rear Dozer Only Up			*15.34	9.66	10.98	6.49	7.92	4.70	*5.75	4.35	26.30
	R-Rear Dozer Only Down			*15.34	12.81	10.74	8.47	7.74	6.13	*5.75	5.67	
	R-Outrigger Only Down			*15.34	*15.34	10.40	12.30	7.49	8.80	*5.75	*5.75	
	F-Dozer + R-Outrigger Down			*15.34	*15.34	*12.31	12.30	*11.21	8.80	*5.75	*5.75	
5	R-Rear Dozer Only Up			16.34	9.16	10.72	6.26	7.82	4.61	*5.94	4.24	26.54
	R-Rear Dozer Only Down			15.98	12.27	10.48	8.22	7.64	6.03	*5.94	5.55	
	R-Outrigger Only Down			15.47	18.75	10.14	12.03	7.38	8.69	*5.94	*5.94	
	F-Dozer + R-Outrigger Down			*19.13	18.75	*14.20	12.03	*12.06	8.69	*5.94	*5.94	
0 (Ground)	R-Rear Dozer Only Up			16.04	8.91	10.54	6.10	7.76	4.55	*6.36	4.37	25.81
	R-Rear Dozer Only Down			15.68	11.99	10.30	8.06	7.58	5.97	*6.36	5.73	
	R-Outrigger Only Down			15.17	18.42	9.96	11.84	7.32	8.63	*6.36	*6.36	
	F-Dozer + R-Outrigger Down			*21.47	18.42	*15.68	11.84	*12.66	8.63	*6.36	*6.36	
-5	R-Rear Dozer Only Up	*19.43	15.93	15.99	8.86	10.50	6.06			*7.16	4.83	24.01
	R-Rear Dozer Only Down	*19.43	*19.43	15.63	11.95	10.26	8.01			*7.16	6.34	
	R-Outrigger Only Down	*19.43	*19.43	15.12	18.37	9.92	11.80			*7.16	*7.16	
	F-Dozer + R-Outrigger Down	*19.43	*19.43	*22.13	18.37	*16.25	11.80			*7.16	*7.16	
-10	R-Rear Dozer Only Up			16.14	8.99					10.88	6.31	19.68
	R-Rear Dozer Only Down			15.78	12.09					10.63	8.32	
	R-Outrigger Only Down			15.27	18.53					10.28	12.22	
	F-Dozer + R-Outrigger Down			*20.91	18.53					*15.30	12.22	

1. Ratings are based on SAE J1097
2. Load point is the end of arm.
3. * Rated loads are based on hydraulic capacity.
4. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

: Rating Over Front
: Rating Over Side or 360 Degree

LIFTING CAPACITIES

[Two-piece Boom]



Boom : 5,360mm(17'7")
Arm : 2,300mm(7'7")
Bucket : without bucket
Counter weight : 3,200 kg(7,055 lb)

METRIC

Unit : 1,000kg

A(m) / B(m)	Chassis Frame Attachment	3		4		5		6		7		Max. Reach		A(m)
8	R-Rear Dozer Only Up											*3.49	*3.49	4.74
	R-Rear Dozer Only Down											*3.49	*3.49	
	R-Outrigger Only Down											*3.49	*3.49	
	F-Dozer + R-Outrigger Down											*3.49	*3.49	
7	R-Rear Dozer Only Up					*4.58	4.16					*3.08	*3.08	5.84
	R-Rear Dozer Only Down					*4.58	*4.58					*3.08	*3.08	
	R-Outrigger Only Down					*4.58	*4.58					*3.08	*3.08	
	F-Dozer + R-Outrigger Down					*4.58	*4.58					*3.08	*3.08	
6	R-Rear Dozer Only Up					*4.63	4.14	*4.77	3.13			*2.89	2.67	6.60
	R-Rear Dozer Only Down					*4.63	*4.63	*4.77	4.06			*2.89	*2.89	
	R-Outrigger Only Down					*4.63	*4.63	*4.77	*4.77			*2.89	*2.89	
	F-Dozer + R-Outrigger Down					*4.63	*4.63	*4.77	*4.77			*2.89	*2.89	
5	R-Rear Dozer Only Up			*5.47	*5.47	*5.10	4.07	*4.93	3.11	4.10	2.44	*2.79	2.36	7.14
	R-Rear Dozer Only Down			*5.47	*5.47	*5.10	*5.10	*4.93	4.03	4.01	3.18	*2.79	*2.79	
	R-Outrigger Only Down			*5.47	*5.47	*5.10	*5.10	*4.93	*4.93	3.88	*4.26	*2.79	*2.79	
	F-Dozer + R-Outrigger Down			*5.47	*5.47	*5.10	*5.10	*4.93	*4.93	*4.26	*4.26	*2.79	*2.79	
4	R-Rear Dozer Only Up			*6.86	5.43	*5.86	3.95	5.14	3.05	4.08	2.43	*2.76	2.17	7.51
	R-Rear Dozer Only Down			*6.86	*6.86	*5.86	5.19	5.03	3.97	3.99	3.16	*2.76	*2.76	
	R-Outrigger Only Down			*6.86	*6.86	*5.86	*5.86	4.87	*5.34	3.86	4.54	*2.76	*2.76	
	F-Dozer + R-Outrigger Down			*6.86	*6.86	*5.86	*5.86	*5.34	*5.34	*5.13	4.54	*2.76	*2.76	
3	R-Rear Dozer Only Up			*8.55	5.18	6.63	3.82	5.06	2.97	4.04	2.39	*2.77	2.06	7.72
	R-Rear Dozer Only Down			*8.55	6.99	6.49	5.05	4.95	3.89	3.95	3.12	*2.77	2.70	
	R-Outrigger Only Down			*8.55	*8.55	6.28	*6.78	4.79	5.67	3.82	4.50	*2.77	*2.77	
	F-Dozer + R-Outrigger Down			*8.55	*8.55	*6.78	*6.78	*5.88	5.67	*5.41	4.50	*2.77	*2.77	
2	R-Rear Dozer Only Up			9.15	4.98	6.49	3.70	4.98	2.90	4.00	2.35	*2.82	2.01	7.80
	R-Rear Dozer Only Down			8.95	6.76	6.35	4.92	4.87	3.82	3.91	3.08	*2.82	2.64	
	R-Outrigger Only Down			8.66	*10.08	6.15	7.39	4.71	5.59	3.78	4.46	*2.82	*2.82	
	F-Dozer + R-Outrigger Down			*10.08	*10.08	*7.68	7.39	*6.44	5.59	*5.75	4.46	*2.82	*2.82	
1	R-Rear Dozer Only Up			9.01	4.86	6.40	3.62	4.92	2.85	3.96	2.32	*2.92	2.02	7.75
	R-Rear Dozer Only Down			8.81	6.64	6.25	4.83	4.80	3.76	3.87	3.04	*2.92	2.65	
	R-Outrigger Only Down			8.53	*9.51	6.05	7.28	4.65	5.53	3.74	4.42	*2.92	*2.92	
	F-Dozer + R-Outrigger Down			*9.51	*9.51	*8.42	7.28	*6.95	5.53	*6.06	4.42	*2.92	*2.92	
0 (Ground)	R-Rear Dozer Only Up			8.96	4.82	6.34	3.57	4.88	2.81	3.94	2.30	*3.08	2.08	7.56
	R-Rear Dozer Only Down			8.76	6.59	6.20	4.78	4.76	3.72	3.85	3.02	*3.08	2.74	
	R-Outrigger Only Down			8.48	10.47	5.99	7.22	4.61	5.48	3.72	4.40	*3.08	*3.08	
	F-Dozer + R-Outrigger Down			*11.13	10.47	*8.90	7.22	*7.32	5.48	*6.29	4.40	*3.08	*3.08	
-1	R-Rear Dozer Only Up	*7.07	*7.07	8.97	4.82	6.32	3.56	4.86	2.80	3.94	2.30	*3.32	2.22	7.23
	R-Rear Dozer Only Down	*7.07	*7.07	8.76	6.60	6.18	4.76	7.75	3.71	3.85	3.03	*3.32	2.91	
	R-Outrigger Only Down	*7.07	*7.07	8.48	10.47	5.98	7.21	4.59	5.47	3.72	4.40	*3.32	*3.32	
	F-Dozer + R-Outrigger Down	*7.07	*7.07	*11.57	10.47	*9.11	7.21	*7.49	5.47	*6.33	4.40	*3.32	*3.32	
-2	R-Rear Dozer Only Up	*11.45	7.46	9.01	4.86	6.34	3.57	4.88	2.82			*3.70	2.46	6.73
	R-Rear Dozer Only Down	*11.45	10.67	8.80	6.63	6.20	4.78	4.77	3.73			*3.70	3.23	
	R-Outrigger Only Down	*11.45	*11.45	8.52	10.51	6.00	7.23	4.61	5.49			*3.70	*3.70	
	F-Dozer + R-Outrigger Down	*11.45	*11.45	*11.29	10.51	*9.00	7.23	*7.37	5.49			*3.70	*3.70	

FEET

Unit : 1,000kg

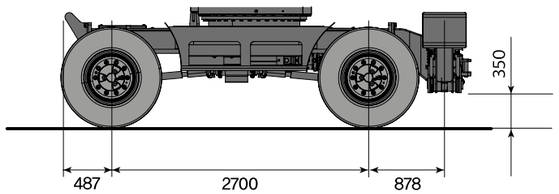
A(ft) / B(ft)	Chassis Frame Attachment	10		15		20		25		Max. Reach		A(m)
25	R-Rear Dozer Only Up			*10.26	*10.26					*7.27	*7.27	17.09
	R-Rear Dozer Only Down			*10.26	*10.26					*7.27	*7.27	
	R-Outrigger Only Down			*10.26	*10.26					*7.27	*7.27	
	F-Dozer + R-Outrigger Down			*10.26	*10.26					*7.27	*7.27	
20	R-Rear Dozer Only Up			*10.07	*10.07	*10.59	6.74			*6.40	5.98	21.46
	R-Rear Dozer Only Down			*10.07	*10.07	*10.59	8.73			*6.40	*6.40	
	R-Outrigger Only Down			*10.07	*10.07	*10.59	*10.59			*6.40	*6.40	
	F-Dozer + R-Outrigger Down			*10.07	*10.07	*10.59	*10.59			*6.40	*6.40	
15	R-Rear Dozer Only Up	*15.84	*15.84	*12.36	10.09	11.15	6.64	7.86	4.65	*6.11	4.99	24.01
	R-Rear Dozer Only Down	*15.84	*15.84	*12.36	*12.36	10.91	8.63	7.68	6.07	*6.11	*6.11	
	R-Outrigger Only Down	*15.84	*15.84	*12.36	*12.36	10.57	*11.17	7.42	8.73	*6.11	*6.11	
	F-Dozer + R-Outrigger Down	*15.84	*15.84	*12.36	*12.36	*11.17	*11.17	*8.92	8.73	*6.11	*6.11	
10	R-Rear Dozer Only Up			*16.14	9.54	10.91	6.42	7.78	4.58	*6.10	4.55	25.31
	R-Rear Dozer Only Down			*16.14	12.68	10.66	8.40	7.60	6.00	*6.10	5.95	
	R-Outrigger Only Down			15.91	*16.14	10.31	*12.22	7.35	8.65	*6.10	*6.10	
	F-Dozer + R-Outrigger Down			*16.14	*16.14	*12.77	*12.22	*11.35	8.65	*6.10	*6.10	
5	R-Rear Dozer Only Up			16.24	9.07	10.66	6.20			*6.31	4.43	25.57
	R-Rear Dozer Only Down			15.88	12.18	10.42	8.17			*6.31	5.81	
	R-Outrigger Only Down			15.37	18.64	10.08	11.97			*6.31	*6.31	
	F-Dozer + R-Outrigger Down			*19.73	18.64	*14.55	11.97			*6.31	*6.31	
0 (Ground)	R-Rear Dozer Only Up			15.99	8.86	10.51	6.07			*6.80	4.59	24.81
	R-Rear Dozer Only Down			15.63	11.95	10.27	8.02			*6.80	6.03	
	R-Outrigger Only Down			15.12	18.37	9.93	11.81			*6.80	*6.80	
	F-Dozer + R-Outrigger Down			*21.73	18.37	*15.87	11.81			*6.80	*6.80	
-5	R-Rear Dozer Only Up	*20.88	15.98	15.99	8.86	10.50	6.06			*7.72	5.13	22.93
	R-Rear Dozer Only Down	*20.88	*20.88	15.62	11.94	10.26	8.01			*7.72	6.73	
	R-Outrigger Only Down	*20.88	*20.88	15.12	18.37	9.92	11.80			*7.72	*7.72	
	F-Dozer + R-Outrigger Down	*20.88	*20.88	*22.04	18.37	*16.19	11.80			*7.72	*7.72	

1. Ratings are based on SAE J1097
2. Load point is the end of arm.
3. * Rated loads are based on hydraulic capacity.
4. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

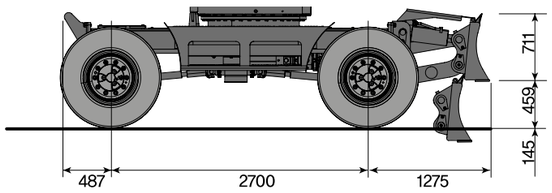
: Rating Over Front
: Rating Over Side or 360 Degree

UNDERCARRIAGE

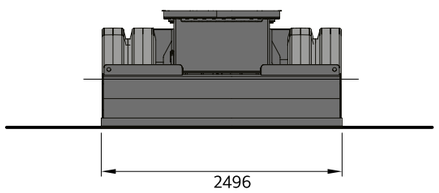
UNDERCARRIAGE WITH FRONT CRADLE AND REAR OUTRIGGER / FRONT CRADLE AND REAR DOZER



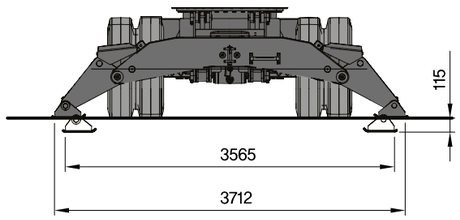
▲Front Cradle and Rear outrigger

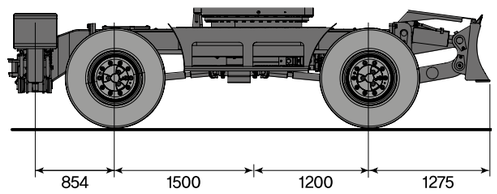


▲Front Cradle and Rear Dozer

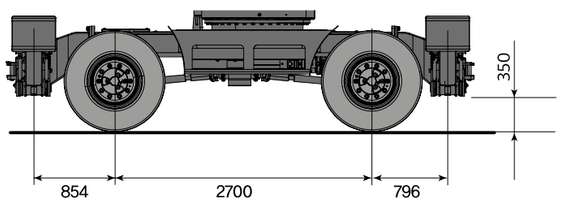


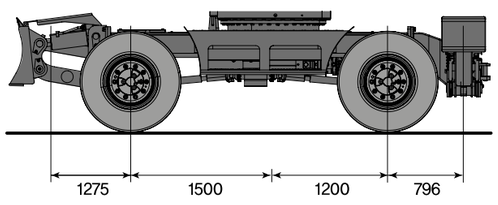
UNDERCARRIAGE WITH FRONT OUTRIGGER AND REAR DOZER





UNDERCARRIAGE WITH FRONT OUTRIGGER AND REAR OUTRIGGER / FRONT DOZER AND REAR OUTRIGGER





STANDARD AND OPTIONAL EQUIPMENT

ENGINE

Hydraulic system
- Boom and arm flow regeneration
- Boom and arm holding valves
- Swing anti-rebound valves
- Spare ports(valve)
- One-touch power boost

Cabin & Interior
- Viscous cab mounts
- Air conditioner
- Adjustable suspension seat with head rest and adjustable arm rest
- Pull-up type front window and removable lower front window
- Room light
- Intermittent windshield wiper
- Cigarette lighter and ashtray
- Cup holder
- Hot & Cool box
- LCD color monitor panel
- Engine speed(RPM) control dial
- AM/FM radio and cassette player
- Remote radio ON/OFF switch
- 12V spare powers socket
- Serial communication port for laptop PC interface
- Joystick lever with 3 switches
- Sunvisor
- Sun roof
- Wiper

Safety
- Large handrails and step
- Punched metal anti-slip plates
- Seat belt
- Hydraulic safety lock lever
- Safety glass
- Hammer for emergency escape
- Right and left rearview mirrors
- Reverse travel alarm
- Emergency engine stop
- LED stop lamps

Others
- Double element air cleaner
- Dust screen for radiator/oil cooler/charged air cooler
- Engine overheat prevention system
- Engine restart prevention system
- Self-diagnostic system
- Large capacity alternator(24V, 60 amps)
- Electric horn
- Halogen working lights (frame mounted 2, boom mounted 2)
- Fuel filler pump
- 3.2ton counterweight

Undercarriage
- 10.0-20-14PR double tires
- Heavy duty axles
- Parallel dozer blade & individually controlled outriggers
- Tool box
- Front axle oscillation auto lock

OPTIONAL EQUIPMENT

Some of there optional equipments may be standard in some markets. Some of these optional equipments cannot be available on some markets. You must check with the local DEVELON dealer to know about the availablility or to release the adaptation following the needs of the applications.

Safety
- Boom and arm hose rupture protection valve
- Overload warning device
- Cabin Top/Front guard(ISO 10262, FOGS standard)
- Travel & swing alarm
- Rotation beacon
- Mirror & Lamp on counter weight

Cabin & Interior
- Air suspension seat
- MP3/CD player
- Rain shield
- 2 front lamps
- 4 front + 2 rear lamps

Others
- Piping for crusher
- Piping for quick clamp
- Piping for front attachment rotation
- Breaker filter
- Lower wiper
- Fuel heater

Undercarriage
- 10.0-20-16PR double tire /18.0-19.5-20PR single tire

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**

HD HYUNDAI INFRACORE

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