

<b>PACKAGE ARRANGEMENT (1)</b>		
<b>Product</b>	<b>Approx. Weight</b>	<b>List Price</b>
DX190W-7-US20	21,000.00 KG	216,223.33 USD
DX190W-7 BASE MACHINE W/O BUCKET 17' 1" (5.2 M) MONO BOOM 8' 6" (2.6 M) ARM FRONT DOZER BLADE AND INDEPENDENT REAR OUTRIGGERS ONE AND TWO WAY AUX. PIPING PLUS SLOPE/ROTATING PIPING TO END OF ARM TWIN TIRES 10.0-20-16PR		

<b>OPTIONAL EQUIPMENT - Factory Installed (22)</b>			
<b>Option</b>	<b>CODE</b>	<b>Description</b>	<b>List Price</b>
ARM	022	2.2m Arm	-100.00 USD
ARM	031	3.1m Arm	350.00 USD
TIRE	10A	10.0-20-14PR	-300.00 USD
BREAKER FILTER	BRF	Breaker Filter	425.00 USD
CLAMSHELL PIPING	CLA	Clamshell	300.00 USD
LOCK VALVE	LBA	Boom & Arm Lock Valve	1,700.00 USD
LOCK VALVE	LOB	Boom Lock Valve	750.00 USD
HEATING & COOLING SEAT	HCS	Heating & Cooling Seat	750.00 USD
MICROPHONE	MIC	Microphone	1,000.00 USD
RAIN SHIELD	RAI	Rain Shield	175.00 USD
CAMERA	AVC	Around View Camera	2,325.00 USD
CABIN FRONT GUARD	FUL	Upper and Lower Guard	475.00 USD
CABIN FRONT GUARD	LOW	Lower Guard Only	275.00 USD
FOGS GUARD	FOG	FOGS	2,600.00 USD
ADDITIONAL WORK LAMP	6LE	6 ADDITIONAL WORKING LAMP(LED)	1,425.00 USD
ADDITIONAL WORK LAMP	4LE	4 ADDITIONAL WORKING LAMP(LED)	575.00 USD
ROTATING BEACON	ROB	Rotating Beacon	200.00 USD
Water Separator	WIH	Water Separator with Heater	300.00 USD

AIR COMPRESSOR	ACO	Air Compressor	4,575.00 USD
FUEL FILLER PUMP	FIL	Fuel Filler Pump	375.00 USD
JOYSTICK STEERING	JST	JOYSTICK STEERING	3,575.00 USD
SHOE CASE	SHC	Shoe Case	75.00 USD

## Attachments - Dealer Installed (25)

Attachment	Description	Approx. Weight	List Price
5000023	QUICK COUPLER; HYDRAULIC	1.00	4,900.00 USD
5000024	TPC4K for DX190W-5	601.00	3,554.25 USD
5000026	BREAKER; HYDRAULIC	1.00	13,803.65 USD
5000028	TOOL; MOIL POINT	2,550.00	53,950.67 USD
5000029	0.75 CU. YD. 60" ANGLE TILT DITCH CLEANING BUCKET (WITH BOLT-ON EDGE)	1.00	1,081.38 USD
AT200-060	0.97 CU. YD. 48" DITCH CLEANING BUCKET (WITH BOLT-ON EDGE)	1,750.00	12,330.82 USD
DC200-048	1.22 CU. YD. 60" DITCH CLEANING BUCKET (WITH BOLT-ON EDGE)	1,195.00	4,868.15 USD
DC200-060	1.34 CU. YD. 72" DITCH CLEANING BUCKET (WITH BOLT-ON EDGE)	1,395.00	5,295.95 USD
DC200-072	0.50 CU. YD. 24" HEAVY DUTY BUCKET (INCLUDES WEAR SHROUDS)	1,395.00	5,634.30 USD
HD18-024	0.68 CU. YD. 30" HEAVY DUTY BUCKET (INCLUDES WEAR SHROUDS)	1,095.00	5,565.81 USD
HD18-030	0.86 CU. YD. 36" HEAVY DUTY BUCKET (INCLUDES WEAR SHROUDS)	1,190.00	6,854.61 USD
HD18-036	1.04 CU. YD. 42" HEAVY DUTY BUCKET (INCLUDES WEAR SHROUDS)	1,338.00	6,331.96 USD
HD18-042	1.22 CU. YD. 48" HEAVY DUTY BUCKET (INCLUDES WEAR SHROUDS)	1,448.00	6,631.15 USD
HD18-048	1.58 CU. YD. 60" HD DITCH CLEAN UP BUCKET (WITH BOLT-ON EDGE)	1,584.00	7,141.42 USD
HDC180-060	HYD. MAIN PIN THUMB; 3 TINE; FOR 30"; 48" BUCKET; USED WITH BUCKET	1,887.00	8,524.24 USD
HT-18DM3T-A	HYD. MAIN PIN THUMB; 4 TINE; FOR 36"; 42" BUCKET; USED WITH BUCKET	1,012.00	7,684.95 USD
HT-18DM4T-A	HYD. MAIN PIN THUMB; 3 TINE; FOR 30"; 48" BUCKET; USED WITH COUPLER	1,050.00	7,684.95 USD
HT-18QC3T-A	HYD. MAIN PIN THUMB; 4 TINE; FOR 36"; 42" BUCKET; USED WITH COUPLER	1,100.00	7,896.29 USD
HT-18QC4T-A	HYD. QUICK COUPLER (INCLUDES SOFT PINS, JUMPER HOSE ONLY) FOR DX180/DX190	1,130.00	8,554.05 USD

QC-80H3G3-318	0.50 CU. YD. 24" SEVERE DUTY BUCKET (INCLUDES WEAR SHROUDS)	628.00	7,426.87 USD
SD18-024	0.68 CU. YD. 30" SEVERE DUTY BUCKET (INCLUDES WEAR SHROUDS)	1,151.00	6,986.26 USD
SD18-030	0.86 CU. YD. 36" SEVERE DUTY BUCKET (INCLUDES WEAR SHROUDS)	1,264.00	7,447.19 USD
SD18-036	1.04 CU. YD. 42" SEVERE DUTY BUCKET (INCLUDES WEAR SHROUDS)	1,417.00	7,892.21 USD
SD18-042	1.22 CU. YD. 48" SEVERE DUTY BUCKET (INCLUDES WEAR SHROUDS)	1,531.00	8,499.94 USD
SD18-048		1,681.00	9,098.38 USD

## STANDARD EQUIPMENT FOR BASE MACHINE (7)

Item	Description
Engine	<p>Doosan DL06P: Variable Geometry Turbo Charged Air to Air Intercooler                      Electronically Controlled Common Rail Direct Injected                      T4: Cooled Exhaust Gas Recirculation + Diesel Oxidation Catalyst + Selective Catalytic Reduction with Diesel Exhaust Fluid                      174 HP(SAE J1995)/129 kW Gross Flywheel Horsepower @ 1800 rpm                      162 HP(SAE J1349)/121 kW Net @ 1800 rpm                      Displacement: 359cu.in., 6 Cylinder                      Bore 3.94" (100mm) Diameter x 4.92" (125mm) Stroke                      Torque: 593ft. Lbs (82 kgf-m) @ 1,400 rpm                      High Idle 1900 ± 50 rpm, Low Idle 800 ± 50 rpm                      Auto Idle System                      Auto Shut Down                      Equipped with the Fuel Pre-filter with Water Separator                      Radiator Reserve Tank                      Large Capacity Double Element Air Cleaner with Evacuate                      Electronic Engine Speed Control                      Engine Overheat and Low Oil Pressure Prevention System</p>
Hydraulic, Transmission & Steering	<p>Pilot Operated Control Valves, (11) Spools                      Main Pump: Tandem Variable Axial Piston Type, Flow: 2 x 53 gpm; Pressure Setting 4978 psi boost                      Pilot Circuit, Gear Type Pump; Flow: 7 gpm                      Swing Motor, Axial Piston Type driving a 2-stage planetary gearbox to maximize torque                      Swing Maximum Speed: 11 RPM                      Fine Swing Control                      Maximum Swing Torque 36,382 ft.lbs.                      Spring Set, Hydraulic-released Brakes                      Drive Train: A Bent Axial Piston motor in combination with a 2 speed Power Shift Gear Box to deliver 26,000 pounds of force                      Maximum speed of 22 mph on the road; 6 mph off road and creeping speed of 2 mph                      Axle oscillation without mudguards: +/- 8°                      Twin wheel 10.0-20-16PR                      Minimum turning radius of 21 feet                      One way/two way Auxiliary Hydraulics with 2-pump flow                      Smart Hydraulic Logic to prioritize flow to hydraulic attachments like a molcher or a grinder                      Working Mode for Tilt-Rotator</p>
	<p>Steel, All Weather Sound Suppressed ROPS Type                      Fully Automatic Heater and Air Conditioner with Radian Energy Photo Sensor                      12V and 24V Power Sockets                      Door Locks                      Front Windshield Panto Wiper with Washer                      8" Multi-function Color LCD Touch Screen Monitor                      Aerial, Side &amp; Rear View Camera with dedicated LCD display                      Digital Bluetooth Audio Broadcasting MP3 Radio with Cell Phone integration                      Audio Control Panel On/Off Switch, Control Volume, Channel Select</p>

<p>Cab</p>	<p>Switches:          Engine Speed Control Dial          Jog Switch for monitor display control          Auxiliary Mode Switch          Engine Emergency Stop Switch          Work Light Switch          Travel Speed Selector Switch          Breaker, Power-up, Shear Switch          Engine After Treatment System Switch          Wiper Control Panel          Safety Lock Lever          Ergonomic Leatherlike Operator Seat:          Integrated Heater and Air Conditioner          Air Suspension with Seat Belt (2" Wide)          Adjustable bottom cushion          Lumbar Support Adjustment          Adjustable Headrest          Reclining, Height Adjustable          Adjustable Arm Rests          Sliding Control Console          Height Adjustable Panels          Skylight          Pull Up Type Front Window          Removable Lower Front Window with Storage Behind Seat          Sliding Side Windows          Front Window Air Defroster          Travel Pedals with Hand Levers          Emergency Exit Glass Breaking Tool          Fully insulated Lunch Box Compartment          Quick Coupler Switch          Joystick Lever with 3 Switches, Two Button and One Rotate          Front and Rear Cup Holders          Room Light          Serial Communication Port for Laptop PC Interface (DMS)          Viscous Cab Mounts with Spring reinforcement          Sun Screens for Top Hatch, Front Windshield and Rear Window</p>
<p>Electrical/Electronic Control System</p>	<p>Advanced Mechatronics with Power Mode Control System to maximize machine efficiency and productivity          Power Mode Select Button (P+,P,S,E)          Work Mode Selector Button (Excavation, Lifting, Breaker and Shear)          Electronic Power Optimizing System          Cross Sensing Pump Control          Machine Status Display with Integrated Self Diagnostics System          Adjustable LCD Color Display          Auto Idle Control System plus One Touch Deceleration Button on Joystick          Engine Speed Control Dial          Power Boost Control Button on Joystick          Limp Home Mode Control Switch          Proximity Alarm Warning System (option)          Proportional control for auxiliary hydraulics via roll switch on both joysticks          Adjustable Auxiliary Flow and Pressure up to 10 presets          Alternator: 24 V, 100 amp          Batteries: (2) 12 V, 150AmpH, 950CCA          Starter: 24 V x 6 KW          Engine Emergency Stop Switch          Panto Wiper to cover the entire front windshield window          LED Lights: Working Light (2) Machine, (2) Boom          Smart Ignition Switch Key for remote control of engine start/stop and fdoor lock/unlock          Electric Horn          Hour Meter</p>
	<p>Main Warning Lamp          Warning Symbol Indicator for:          Battery, Engine oil pressure, Coolant overheated, Engine, Stop engine, Low fuel level, Hydraulic oil temp, Fuel System, Air cleaner clogged, Machine lift overload, Quick Coupler, Regen request, Low DEF level, Problem in SCR, VBO angle sensor failure, VBO joystick pressure sensor failure, EPPR valve failure, AGS, clogged Fuel filter, Ultrasonic sensor, Engine RPM and starting restriction or TMS</p>

<p>Display Monitor and Warnings</p>	<p>failure, Coolant level, Seat belt, No smart key, Failed to detect smart key, Low battery smart key, DEF pressure, Hydraulic return filter clogged, Regen prohibited, Regeneration active, Manual regen, GPS antenna failure, GSM antenna failure, Satellite antenna failure, Check machine, Stop engine</p> <p>Digital Clock Alarm Buzzer for: Engine Oil Pressure Coolant Temperature Electronic Monitor for: Engine Coolant Temperature Gauge Fuel Gauge Hydraulic Oil Temperature Gauge DEF (AdBlue®) Level Multi-function Touch Screen Display for: Function Symbol Indicator (Power Boost, Auxiliary Hydraulic Pedal/Joystick Selector, Travel Speed, Work Light, ISO/BHL Pattern Control, Fine Swing)</p> <p>Indicator Display (USB, Auto Shutdown, ACC, Auto Warm Up, Joystic One-touch, VBO Limp Home Mode, Engine Preheat, EPOS/ECU/EPOS-ECU, Reverse Fan On, Mirror Heater, Bluetooth)</p> <p>Favorite Button Indicator Main Information Selector Button (Reset Trip, Trip Info, Soot Level, PM Service Info) Main Information Indicator Power Mode Selector Button Indicator (Power+, Power, Standard, Economy) Travel Speed Indicator Power Mode Indicator Auxiliary Hydraulics Selector Button (Unidirectional-Hammer or Bi-directional-Shear) Audio Display Auto Idle Indicator Menu Selector Button</p>
<p>Other</p>	<p>Joystick Pattern Change Valve Centralized Lube Points Large Handrail Steel Casted Lift Bracket integrated with Idler Linkage Punched Metal Anti-slip Plates Engine Restart Prevention System Manuals, Parts and Operator's Ultra-hard Wear-resistant Disc on both sides of bucket arm end Cab prepared with Vandalism Guard Hooks GPS 3 Year Subscription</p>
<p>A. Option Dependencies</p>	<ol style="list-style-type: none"> <li>1. For the Load Isolation System (Boom Suspension) option, machine must have Lock Valve on Boom or Boom &amp; Arm + No Fenders + Overload Warning</li> <li>2. To get the Ultrasonic Sensor option, Around View Camera has to be selected first.</li> <li>3. To get the Overload Warning option, the Lock Valve for Boom or Boom &amp; Arm has to be selected first.</li> </ol>