PACKAGE	ARRANGEMENT ((1)
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Product Approx. Weight List Price DL320-7-US20 19,727.00 KG 282,348.46 USD

DL320-7-US20

Base Machine With High Lift Front

Differentials - Limited Slip Differential Front / Rear Additioinal Counterweight

Without Bucket

Steel Cab with Integrated ROPS/FOPS

Tires: 23.5R25,L3, Triangle Air Suspension Seat

Thumb Wheel Joystick
Transmission: 4F / 3R Torque Converter

Transparent Bucket Technology

Rear View Camera 3.0 Telematics

Radio

OPTIONAL EQUIPMENT - Factory Installed (18)			
Option	CODE	Description	List Price
ADDITIONAL COUNTERWEIGHT	400	882LB ADDITIONAL COUNTERWEIGHT	3,005.95 USD
CABIN HANDRAIL(TOP)	HDR	CABIN TOP HANDRAIL	514.56 USD
ENGINE COOLANT HEATER	110	110V PLUG HEATER	514.56 USD
EMERGENCY STEER	ESS	EMERGENCY STEER / SECONDARY STEERING	2,117.12 USD
LOAD ISOLATION SYSTEM	LIH	HYDRAULIC LOAD ISOLATION SYSTEM	4,505.60 USD
Additional Brake Pedal	ABP	ADDITIONAL BRAKE PEDAL	99.84 USD
AIR COMPRESSOR	ACO	AIR COMPRESSOR	2,803.20 USD
MIRROR	ADE	ADJUSTABLE MIRROR, REMOTE ELECTRIC	1,886.72 USD
NOISE KIT	NOF	NOISE KIT WITH FRONT	1,774.08 USD
Weighing System	WEI	DOOSAN INTEGRATED WEIGHING SYSTEM	1,344.00 USD
HEAD LAMP	LED	WORK LIGHTS 2 FRONT	399.36 USD
HEAD LAMP	4L4	WORK LIGHTS 4 FRONT AND 4 REAR	925.00 USD
HEAD LAMP	6L6	WORK LIGHTS 6 FRONT AND 6 REAR	1,497.50 USD
ROOF COVER	RFC	CAB ROOF COVER	1,144.32 USD
ROTATING BEACON	ROB	ROTATING BEACON Page 1 of 5	171.52 USD

CAMERA	AVC	AROUND VIEW CAMERA W/BACKUP SENSOR	2,565.00 USD
FENDER	FUL	REAR FULL FNDR W/FNT FNDR, FNT FNDR HAS MUD GUARD AND RUBBER PROTECTOR	3,320.32 USD
FENDER	RPF	STEEL FRONT FENDER W/RUBBER PROTECTOR	972.80 USD

Attachments -	Dealer Installed (22)		
Attachment	Description	Approx. Weight	List Price
186-1760D	AUTO LUBRICATON SYSTEM	0.00	6,807.84 USD
7203954	PALLET FORKS - JRB QC; 106 IN. WIDE CARRIAGE; 72 IN. TINE LENGTH	2,891.00	16,746.74 USD
7225063	PALLET FORKS - ISO QC; 106 IN. WIDE CARRIAGE; 72 IN. TINE LENGTH	2,830.00	15,224.30 USD
7235385	PALLET FORKS - ISO QC; 106 IN. WIDE CARRIAGE; 96 IN. TINE LENGTH	3,112.00	19,183.20 USD
7235387	PALLET FORKS - ISO QC; 106 IN. WIDE CARRIAGE; 84 IN. TINE LENGTH	2,969.00	17,965.48 USD
7235389	PALLET FORKS - JRB QC; 106 IN. WIDE CARRIAGE; 96 IN. TINE LENGTH	3,171.00	21,101.53 USD
7235391	PALLET FORKS - JRB QC; 106IN WIDE CARRIAGE; 84IN TINE LENGTH	3,028.00	19,762.03 USD
7273853	GPBKT; 114IN 4.0YD; JRB QC; BOCE	3,299.00	17,945.14 USD
7273854	GPBKT; 114IN 4.0YD; JRB QC; BOT	3,519.00	21,108.37 USD
7273855	GPBKT; 114IN 4.0YD; ISO QC; BOCE	3,328.00	17,945.14 USD
7273856	GPBKT; 114IN 4.0YD; ISO QC; BOT	3,550.00	17,365.88 USD
7273889	GPBKT; 120IN 4.5YD; PIN ON; BOCE	3,784.00	19,915.79 USD
7273890	GPBKT; 120IN 4.5YD; PIN ON; BOT	3,970.00	23,079.06 USD
7273891	GPBKT; 120IN 4.5YD; JRB QC; BOCE	3,506.00	18,919.38 USD
7273892	GPBKT; 120IN 4.5YD; JRB QC; BOT	3,691.00	22,082.65 USD
7273893	GPBKT; 120IN 4.5YD; ISO QC; BOCE	3,497.00	18,919.38 USD
7273894	GPBKT; 120IN 4.5YD; ISO QC; BOT	3,682.00	18,068.72 USD
7389868	GRAPPLE BKT; 120IN 3.50YD; JRB QC; BOCE	4,947.00	27,954.25 USD
7389869	GRAPPLE BKT; 120IN 3.50YD; ISO QC; BOCE	4,924.00	21,617.96 USD
7389870	GRAPPLE BKT; 120IN 3.75YD; PIN ON; BOCE	5,368.00	23,779.75 USD

QC-DLHL09	QUICK COUPLER, JRB 418 STYLE (High Lift)	1,445.00	11,633.30 USD
QC-DLHL10	QUICK COUPLER, ISO STYLE (High Lift)	1,233.00	12,653.20 USD

Item	NT FOR BASE MACHINE (12) Description
ENGINE:	Doosan DL08: Turbo Charged, Air to Air Intercooled, T4 Electronically Controlled Common Rail Direct Injected 446 cu.in., 6 Cylinder 271 SAE Gross Flywheel Horsepower @ 1,800 RPM Air Cleaner: Dry Type (Double Stage) Engine Self Diagnostic System Reversible Fan Driven by Hydraulic Fan Motor Auto Idle
HYDRAULIC SYSTEM:	Variable Displacement Axial Piston Pump Closed-Center (LS) Hydraulic Systems with Variable Pumps, Pilot Control with Float Spool, 2 Spools 3rd Valve with Lines & Control (lines terminate at boom base) Automatic Boom / Lift - Kick-Out (Set and Adjust from inside the cab) Automatic Return-to-Dig Position (Adjustable Electro-Magnetic) Accumulator for Emergency Pilot System
BRAKE SYSTEM:	Dual Pedal Braking system 4 Wheel Outboard Wet Disc Brakes with Separate Front & Rear Circuits Accumulator for Emergency Stopping Parking Brake: Spring Apply Hydraulic Release, sliding caliper disc brake on the face of the transmission Heavy Duty Brakes, Increase brake force 6 Disc Wet
STEERING:	Load Sensing Type with a Flow Amplifier and a Priority Valve 40 Degree Articulation, Full Hydraulic Power Steering Steering Cylinder Cushion Valve Tilt and Telescopic Steering Wheel Electric Joystick Steering US50 / US51
CAB ROPS/FOPS	Air Conditioner Heater & Defroster Double Filtered Air Cab Combination Lever Rear View Camera Accelerator Pedal Transmission Lever Rear Hinged & Locking Doors (Both sides) / Right side is emergency access door Switches: Transmission Shift Switch (Manual, Auto 1-4 and Auto 2-4) Economy Mode Switch (Power, Normal & Economy Modes) Headlight Switch Front Work Light Switch Rear Work Light Switch Rear Work Light Switch Pilot Cutoff Switch Parking Brake Switch Transmission Cutoff Switch Mirror Heater Switch Display Screen Control Switch Display Screen Selector Switch Hazard Warning Light Switch Boom Kick Out Switch Side View Mirrors with Heat Safety Glass, Tinted Page 3 of 5

	Fully Adjustable Air Suspension Seat with Heat Seat Belt (2 Wide) Sliding Door Windows (Left Side)
TRANSMISSION / AXLES:	Full Automatic Power Shift 4 Forward & 3 Reverse Speeds, with Torque Converter; US10, US11, US20, US21 5 Forward & 3 Reverse Speeds, with Lock Up Torque Converter; US50, US51 Differentials - US10 / US20 / US50 = Limited slip front and rear Differentials - US11 / US21 / US51, Hydraulic locking front with open rear Self Adjusting Brake Disc Clearance Torque Converter, Fixed Wheel Stator Electrical T/M Clutch Disconnect with Service Brake T/M Down Shift on Shift Control and Joy Stick Control Transmission Oil Level Gauge
ELECTRICAL:	Alternator, 80 Amp., 28 Volt Batteries, (2) 12 Volt, 200 Amp, 1300 CCA Starter, 24 Volt 6 KW Horn Key Fob; Entry and starting Lights: (2) Front Headlights with High / Low Beams (2) Stop Lights, Tail Lights & Directional Indicators (2) Front Floodlights (LED) (4) Rear Floodlights (LED) (4) Rear Floodlights (2 roof mounted, 2 mounted in rear grill Alam Buzzer for: Transmission Overheat Engine Oil Pressure Coolant Temperature Electronic Monitoring & Display for: Fuel Level Gauge DEF Level Gauge DEF Level Gauge Engine Coolant Temperature Gauge Transmission Oil Temperature Gauge Speedometer ECO Bar Transmission Actual Gear Transmission Gear Select Preheat Indicator Light Air Cleaner Warning Light Multi Function Gauge Trip Meter Battery Voltage Total Time of Operation Left Turn Signal Right Turn Signal Right Turn Signal Hazard Warning Light Mirror Heater Light Parking Brake Light F/R (Forward/Reverse) Selector Light Brake Fluid Pressure Warning Transmission Warning Transmission Warning Transmission Warning Transmission Warning Under In Fuel Warning SCR Failure Warning Back-Up Alarm
TIRES:	23.5R25,L3,Triangle

OTHER STANDARD EQUIPMENT:	Air Cleaner with Pre-cleaner Engine Side Covers Boom / Float Drawbar and Pin Neutral Safety Start System Muffler Fenders, Front & Rear Ladders & Service Platforms Manuals, Parts & Operator's Remote Drain Ports
OPERATING WEIGHT:	41,502 lbs
AUTO LUBE/GREASE SYSTEM (NOT STANDARD EQUIPMENT)	Auto Lube (SKF / Lincoln): Listed under Dealer Installed Options, price is the kit only (186-1760D) Installation Options: 1. By your dealership, install video included. Install cost, based on your labor rate. First time install should take about 2 days. Once familiar with install, about a day 2. At NACUP (Savannah), by our SKF vendor, Air and Hydraulics (AHE), \$2,200-\$2800 Kit comes with pump bracket but modification is required, for factory fit, order pump bracket and front valve bracket from parts. Part #'s are as follows 110406-07214A Pump Bracket 1 ea 110406-05501 Front Valve Bracket 1 ea S05090666 Bolt 3 ea S0509066 Bolt 4 ea S5010513 Washer 3 ea S5102503 Washer 4 ea S0558166 Bolt 4 ea S0558166 Bolt 4 ea S05010503 Washer 4 ea 120804-00078 Washer 4 ea Approximate cost for above parts \$72
LOADRITE SCALE SYSTEM (NOT STANDARD EQUIPMENT)	Loadrite Scales: Order is placed through Doosan PO cut to Loadrite. Loadrite will coordinate with your dealership for installation. Install will be done at your dealership or at customer location. Price is inclusive of Install, Calibration and Customer training. Warranty is covered by Loadrite

PACKA	GE A	ARRA	NGEM	ENT	(1)
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 Product
 Approx. Weight
 List Price

 DL320-7-US50
 19,727.00 KG
 286,531.41 USD

DL320-7-US50

Base Machine With Standard Front

Differentials - Limited Slip Differential Front / Rear

Electric Steering

Air Suspension Seat w/2 way isolator

Without Bucket

Steel Cab with Integrated ROPS/FOPS

Tires: 23.5R25,L3, Triangle Thumb Wheel Joystick

Transmission: 5F / 3R With Lock-up torque converter

Transparent Bucket Technology

Rear View Camera 3.0 Telematics

Radio

OPTIONAL EQUIPMENT - Factory Installed (19)			
Option	CODE	Description	List Price
ADDITIONAL COUNTERWEIGHT	400	882LB ADDITIONAL COUNTERWEIGHT	3,005.95 USD
CABIN HANDRAIL(TOP)	HDR	CABIN TOP HANDRAIL	514.56 USD
ENGINE COOLANT HEATER	110	110V PLUG HEATER	514.56 USD
EMERGENCY STEER	ESS	EMERGENCY STEER / SECONDARY STEERING	2,117.12 USD
LOAD ISOLATION SYSTEM	LIH	HYDRAULIC LOAD ISOLATION SYSTEM	4,505.60 USD
Additional Brake Pedal	ABP	ADDITIONAL BRAKE PEDAL	99.84 USD
AIR COMPRESSOR	ACO	AIR COMPRESSOR	2,803.20 USD
MIRROR	ADE	ADJUSTABLE MIRROR, REMOTE ELECTRIC	1,886.72 USD
NOISE KIT	NOF	NOISE KIT WITH FRONT	1,774.08 USD
Weighing System	WEI	DOOSAN INTEGRATED WEIGHING SYSTEM	1,344.00 USD
HEAD LAMP	LED	WORK LIGHTS 2 FRONT	399.36 USD
HEAD LAMP	4L4	WORK LIGHTS 4 FRONT AND 4 REAR	925.00 USD
HEAD LAMP	6L6	WORK LIGHTS 6 FRONT AND 6 REAR	1,497.50 USD
ROOF COVER	RFC	CAB ROOF COVER	1,144.32 USD
ROTATING BEACON	ROB	ROTATING BEACON Page 1 of 5	171.52 USD

CAMERA	AVC	AROUND VIEW CAMERA W/BACKUP SENSOR	2,565.00 USD
TRANSPARENT VIEW	TPB	TRANSPARENT BUCKET	3,005.44 USD
FENDER	FUL	REAR FULL FNDR W/FNT FNDR, FNT FNDR HAS MUD GUARD AND RUBBER PROTECTOR	3,320.32 USD
FENDER	RPF	STEEL FRONT FENDER W/RUBBER PROTECTOR	972.80 USD

Attachments -	Dealer Installed (22)		
Attachment	Description	Approx. Weight	List Price
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7235389	PALLET FORKS - JRB QC; 106 IN. WIDE CARRIAGE; 96 IN. TINE LENGTH	3,171.00	21,101.53 USD
7235391	PALLET FORKS - JRB QC; 106IN WIDE CARRIAGE; 84IN TINE LENGTH	3,028.00	19,762.03 USD
7273853	GPBKT; 114IN 4.0YD; JRB QC; BOCE	3,299.00	17,945.14 USD
7273854	GPBKT; 114IN 4.0YD; JRB QC; BOT	3,519.00	21,108.37 USD
7273855	GPBKT; 114IN 4.0YD; ISO QC; BOCE	3,328.00	17,945.14 USD
7273856	GPBKT; 114IN 4.0YD; ISO QC; BOT	3,550.00	17,365.88 USD
7273889	GPBKT; 120IN 4.5YD; PIN ON; BOCE	3,784.00	19,915.79 USD
7273890	GPBKT; 120IN 4.5YD; PIN ON; BOT	3,970.00	23,079.06 USD
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7273892	GPBKT; 120IN 4.5YD; JRB QC; BOT	3,691.00	22,082.65 USD
7273893	GPBKT; 120IN 4.5YD; ISO QC; BOCE	3,497.00	18,919.38 USD
7273894	GPBKT; 120IN 4.5YD; ISO QC; BOT	3,682.00	18,068.72 USD
7389868	GRAPPLE BKT; 120IN 3.50YD; JRB QC; BOCE	4,947.00	27,954.25 USD
7389869	GRAPPLE BKT; 120IN 3.50YD; ISO QC; BOCE	4,924.00	21,617.96 USD

7389870	GRAPPLE BKT; 120IN 3.75YD; PIN ON; BOCE	5,368.00	23,779.75 USD
QC-DL0007	QUICK COUPLER, JRB 418 STYLE (Standard Lift)	1,445.00	11,065.00 USD
QC-DL0008	QUICK COUPLER, ISO STYLE (Standard Lift)	1,233.00	12,000.00 USD

STANDARD EQUIPMENT FOR BASE MACHINE (12)			
Item	Description		
ENGINE:	Doosan DL08: Turbo Charged, Air to Air Intercooled, T4 Electronically Controlled Common Rail Direct Injected 446 cu.in., 6 Cylinder 271 SAE Gross Flywheel Horsepower @ 1,800 RPM Air Cleaner: Dry Type (Double Stage) Engine Self Diagnostic System Reversible Fan Driven by Hydraulic Fan Motor Auto Idle		
HYDRAULIC SYSTEM:	Variable Displacement Axial Piston Pump Closed-Center (LS) Hydraulic Systems with Variable Pumps, Pilot Control with Float Spool, 2 Spools 3rd Valve with Lines & Control (lines terminate at boom base) Automatic Boom / Lift - Kick-Out (Set and Adjust from inside the cab) Automatic Return-to-Dig Position (Adjustable Electro-Magnetic) Accumulator for Emergency Pilot System		
BRAKE SYSTEM:	Dual Pedal Braking system 4 Wheel Outboard Wet Disc Brakes with Separate Front & Rear Circuits Accumulator for Emergency Stopping Parking Brake: Spring Apply Hydraulic Release, sliding caliper disc brake on the face of the transmission Heavy Duty Brakes, Increase brake force 6 Disc Wet		
STEERING:	Load Sensing Type with a Flow Amplifier and a Priority Valve 40 Degree Articulation, Full Hydraulic Power Steering Steering Cylinder Cushion Valve Tilt and Telescopic Steering Wheel Electric Joystick Steering US50 / US51		
CAB ROPS/FOPS	Air Conditioner Heater & Defroster Double Filtered Air Cab Combination Lever Rear View Camera Accelerator Pedal Transmission Lever Rear Hinged & Locking Doors (Both sides) / Right side is emergency access door Switches: Transmission Shift Switch (Manual, Auto 1-4 and Auto 2-4) Economy Mode Switch (Power, Normal & Economy Modes) Headlight Switch Front Work Light Switch Rear Work Light Switch Rear Wiper Switch Pilot Cutoff Switch Parking Brake Switch Transmission Cutoff Switch Mirror Heater Switch Display Screen Control Switch Display Screen Selector Switch Hazard Warning Lights Sights Sight		

	Boom Kick Out Switch Side View Mirrors with Heat Safety Glass, Tinted Fully Adjustable Air Suspension Seat with Heat Seat Belt (2 Wide) Sliding Door Windows (Left Side)
TRANSMISSION / AXLES:	Full Automatic Power Shift 4 Forward & 3 Reverse Speeds, with Torque Converter; US10, US11, US20, US21 5 Forward & 3 Reverse Speeds, with Lock Up Torque Converter; US50, US51 Differentials - US10 / US20 / US50 = Limited slip front and rear Differentials - US11 / US21 / US51, Hydraulic locking front with open rear Self Adjusting Brake Disc Clearance Torque Converter, Fixed Wheel Stator Electrical T/M Clutch Disconnect with Service Brake T/M Down Shift on Shift Control and Joy Stick Control Transmission Oil Level Gauge
ELECTRICAL:	Alternator, 80 Amp., 28 Volt Batteries, (2) 12 Volt, 200 Amp, 1300 CCA Starter, 24 Volt 6 KW Horn Key Fob; Entry and starting Lights: (2) Front Headlights with High / Low Beams (2) Stop Lights, Tail Lights & Directional Indicators (2) Front Floodlights (LED) (4) Rear Floodlights (2 roof mounted, 2 mounted in rear grill Alarm Buzzer for: Transmission Overheat Engine Oil Pressure Coolant Temperature Electronic Monitoring & Display for: Fuel Level Gauge Engine Coolant Temperature Gauge Engine Coolant Temperature Gauge Transmission Oil Temperature Gauge Speedometer Tachometer ECO Bar Transmission Actual Gear Transmission Gear Select Preheat Indicator Light Air Cleaner Warning Light Multi Function Gauge Tip Meter Battery Voltage Total Time of Operation Left Turn Signal Right Turn Signal Hazard Warning Light High Beam Light Work Light Light Reverse Fan Light Miror Heater Light Parking Brake Light F/R (Forward/Reverse) Selector Light Brake Fluid Pressure Warning Light F/R (Forward/Reverse) Selector Light Brake Fluid Pressure Warning Light Orange Warning Water in Fuel Warning Water in Fuel Warning DEF Low Level Warning Back-Up Alarm

TIRES:	23.5R25,L3,Triangle	
OTHER STANDARD EQUIPMENT:	Single Lever Control with FNR Control Buttons Air Cleaner with Pre-cleaner Engine Side Covers Boom / Float Drawbar and Pin Neutral Safety Start System Muffler Fenders, Front & Rear Ladders & Service Platforms Manuals, Parts & Operator's Remote Drain Ports	
OPERATING WEIGHT:	41,502 lbs	
AUTO LUBE/GREASE SYSTEM (NOT STANDARD EQUIPMENT)	Auto Lube (SKF / Lincoln): Listed under Dealer Installed Options, price is the kit only (186-1760D) Installation Options: 1. By your dealership, install video included. Install cost, based on your labor rate. First time install should take about 2 days. Once familiar with install, about a day 2. At NACUP (Savannah), by our SKF vendor, Air and Hydraulics (AHE), \$2,200-\$2800 Kit comes with pump bracket but modification is required, for factory fit, order pump bracket and front valve bracket from parts. Part #'s are as follows 110406-07214A Pump Bracket 1 ea 110406-05501 Front Valve Bracket 1 ea S05090666 Bolt 3 ea S0509066 Bolt 4 ea S5010513 Washer 3 ea S5102503 Washer 4 ea S0558166 Bolt 4 ea S0558166 Bolt 4 ea S05010503 Washer 4 ea 120804-00078 Washer 4 ea Approximate cost for above parts \$72	
LOADRITE SCALE SYSTEM (NOT STANDARD EQUIPMENT)	Loadrite Scales: Order is placed through Doosan PO cut to Loadrite. Loadrite will coordinate with your dealership for installation. Install will be done at your dealership or at customer location. Price is inclusive of Install, Calibration and Customer training. Warranty is covered by Loadrite	