

CRAWLER EXCAVATORS

RIPPA



	Operating Weight	Rated Power Gross hp (kW) @ rpm
NDI 320	65,036 lb. (29500kg)	271 hp (202 kW)
NDI 420	88,184 lb. (40000kg)	317 hp (237 kW)
NDI 520	110,231 lb. (50000kg)	345 hp (257 kW)



RIPPA

Lifting Capacity

Lift more weight with each cycle and complete the job faster with Rippa excavators designed and tested to maximize lifting capability. With an optimal swing radius, lift height and tilt position, you can lift and place loads and dig with greater productivity.

Swing Torque

New Rippa models have an 8 to 11 percent increase in swing torque that allows the excavator to swing uphill with ease – and improve backfilling performance. That means less excavation time per foot of trench.





Fast Cycle Times

Two variable displacement axial piston pumps deliver superior cycle times while hydraulic flow regeneration maximizes efficiency.

Auto Idle

To reduce noise, improve jobsite communications and save fuel, the standard auto idle feature idles your engine automatically when machine functions are not used for a few seconds. When you move the controls, the excavator automatically returns to your previous throttle setting.

Auto Downshift

When turning, pushing and maneuvering, auto downshift reduces the hydraulic flow to the drive system – improving machine responsiveness and controllability. When the load decreases, the excavator automatically shifts back into high range.

Diesel Exhaust Fluid (DEF)

DEF is a solution of pure urea and deionized water. A minimum level of DEF is required for proper machine operation, and the DEF supply tank is heated for proper operation in cold weather. DEF is available from your Rippa dealer in various container sizes.

DEF Tank



X-Chassis Undercarriage

Get increased ground clearance and maneuverability in softer ground with the X-Chassis undercarriage design. The sloped surfaces also shed debris faster, reducing material buildup and cutting back your cleanup time.

DURABILITY / RELIABILITY

Like you, Rippa excavators are ready to keep at it until the job is finished. They're protected with solid construction and heavy-duty features that keep you running longer – so you can make more money working and spend less downtime in the shop.



D-Channel Frame Design

This innovative upper structure frame design adds strength to withstand more side shock, protecting your machine's vital components.

Air-to-Air Fuel Cooler

The air-to-air fuel cooler reduces fuel temperature to increase your machine's overall efficiency and protect engine components.

Split Cooling

The split cooling system allows the oil cooler and radiator to operate independently to optimize the hydraulic system and engine temperatures, even in severe working conditions. The system increases cooling capacity while protecting and extending the life of engine components.

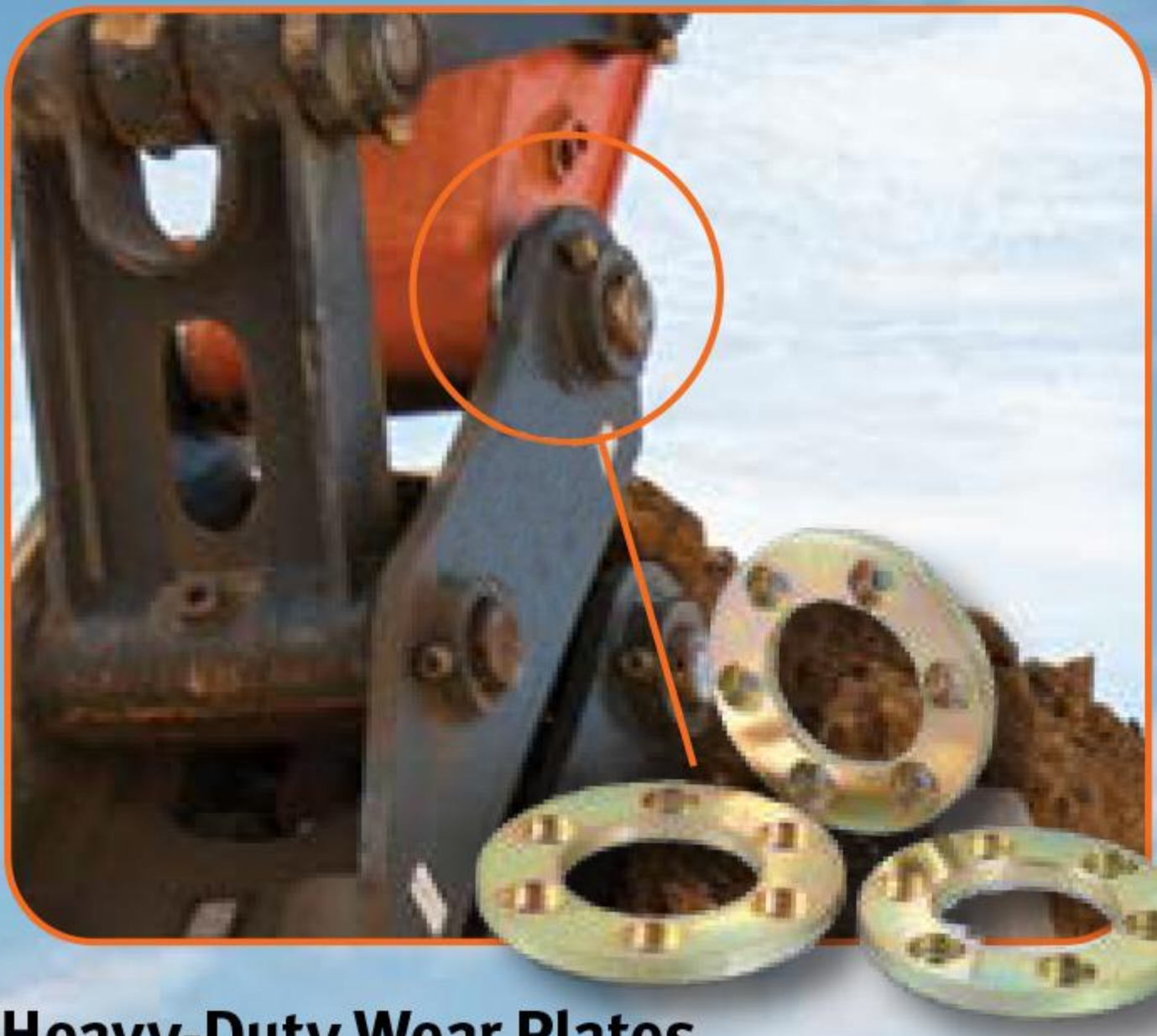
Variable Speed Hydraulic Cooling Fan

The hydraulic oil cooler on the DX300LC-5 and larger machines utilizes the variable speed cooling fan. The speed of the fan changes as required by the demands of your excavator. In tough, difficult applications, the fan runs faster for optimized cooling. When you're in lighter duty conditions, the fan runs slower to increase efficiency and reduce noise.

Automatic Belt Tensioner

A spring-applied automatic belt compensates for regular wear and maintains a constant tension on the engine accessory belt.





Heavy-Duty Wear Plates

Ultra-hard and wear-resistant, these plates at the end of your arm and H-link extend the service intervals for your bucket pin-up point. By minimizing the tolerance between the bucket and arm, they maintain high breakout forces and ensure greater productivity.



Permanently Sealed, Lubricated Track Pins

Pin links on Rippa excavator tracks are permanently sealed. They never need greasing. That means you reduce your operating costs and increase your uptime.



Recessed Drive Motors

Drive motors contained and recessed within the track width are protected from potential damage, resulting in more uptime.



Cast Ends and Pin Bosses

All the major pin points on the boom and arm are castings for extra strength in tough working conditions. Plus, additional reinforcement around the bosses and internal gussets gives a long life for the workgroup.

OPERATOR COMFORT

An operator can't push performance to the limit if the cabin isn't comfortable. Doosan knows how essential comfort is for its operators. From its great visibility to its deluxe, adjustable seat, Ripa cabins are easy to enter and exit, give you awesome standard features and bring superior comfort to the job.



Visibility

Sightlines to the work group are essential to operator performance. The large Ripa cabin provides an excellent viewing area on the front and side windows. When loading trucks or working overhead, the overhead window gives you great visibility above the machine. Narrow corner pillars, small

window joints and a wiper mounted on the pillar – instead of on the glass surface – give the operator a better view. Sun shades on the front and top windows shield operators from the sun and reduce eye strain. It's a complete visibility package that allows you to focus on your work instead of struggling to see it.

Other Cabin Features

- Improved floor space for your feet; increased cab space for your legs, arms and head
- 180-degree swinging door
- Wide entry/exit area
- Grab handles
- Standard radio and antenna
- Standard CD player and MP3 player input
- 12V power port
- Adjustable side window openings for fresh air



Quiet Operation

A complete, sound-isolating cabin seal reduces the noise inside the pressurized cab to an extremely low level. Compartmentalized components reduce noise output outside the cab. Even the cabin frame and seat are designed to absorb vibration and significantly increase operator comfort.

Adjustable Comfort

The standard air suspension seat has multiple adjustment points, allowing you to select the most comfortable position.

- A Control Stand/Seat Base Fore/Aft
- B Control Stand/Seat Move with Suspension
- C Control Stand/Seat Height
- D Seat Fore/Aft
- E Seat Cushion Fore/Aft
- F Seat Cushion Angle
- G Back Recline
- H Lumbar Support
- I Headrest Fore/Aft and Up/Down
- J Control Stands Up/Down
- K Seat Heater

Automotive Style Heat and Air Conditioning

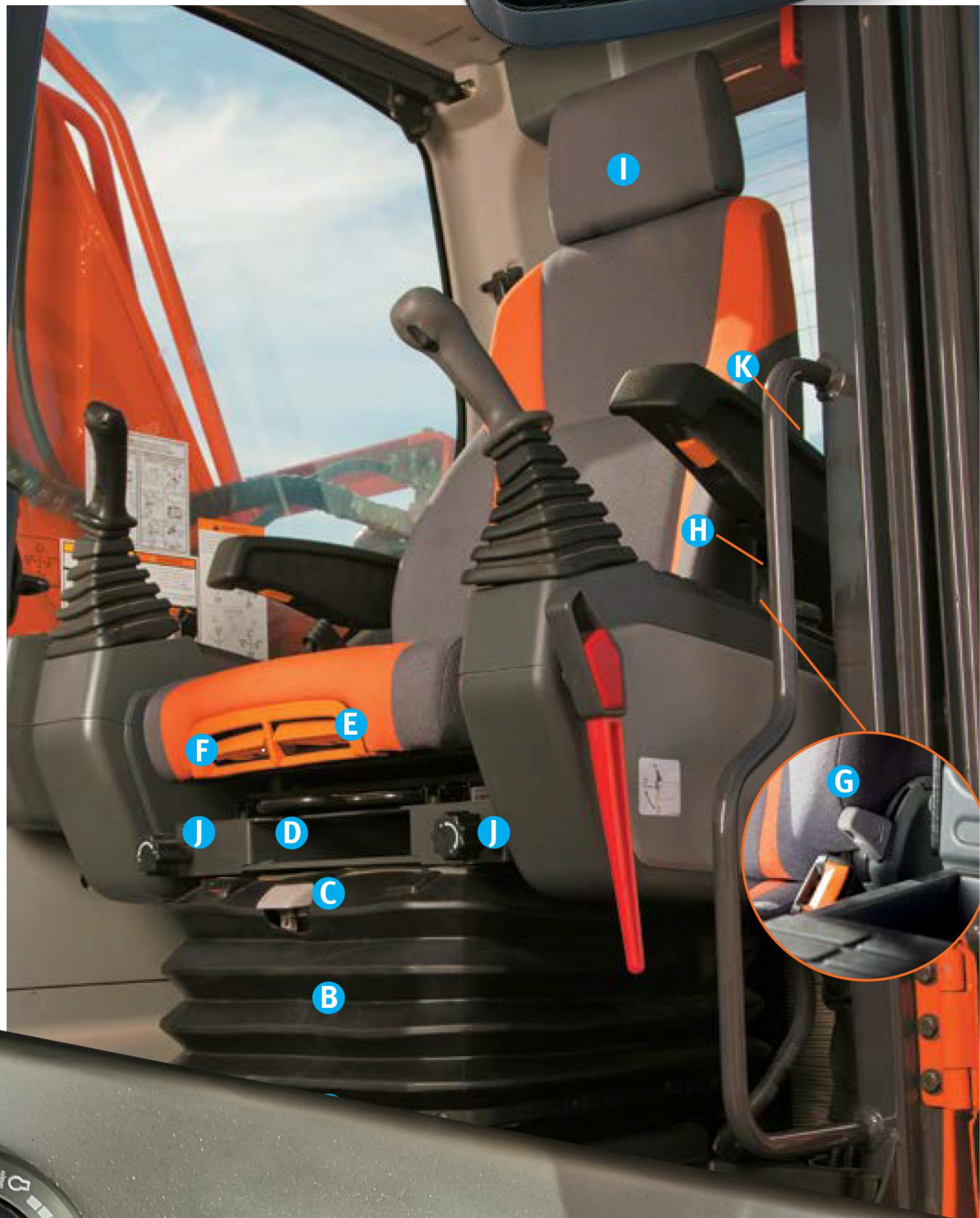
High-capacity heating and cooling vents and an easy-to-control temperature keep you comfortable all year long. Automatic temperature control senses and adjusts to the temperature setting. A memory function returns it to your preferred temperature if you shut the machine off and restart later.

Standard Rearview Camera

Provides the operator with an additional means to view the machine's surroundings, allowing for increased productivity.

Easy-to-Read LCD Display Panel

An easy-to-read LCD display panel is placed within easy view for monitoring critical machine data as well as viewing errors, warnings and the rearview camera display. A big, 7-inch display also switches to a night view. The improved monitor allows operators to review key parameters while viewing the camera display.



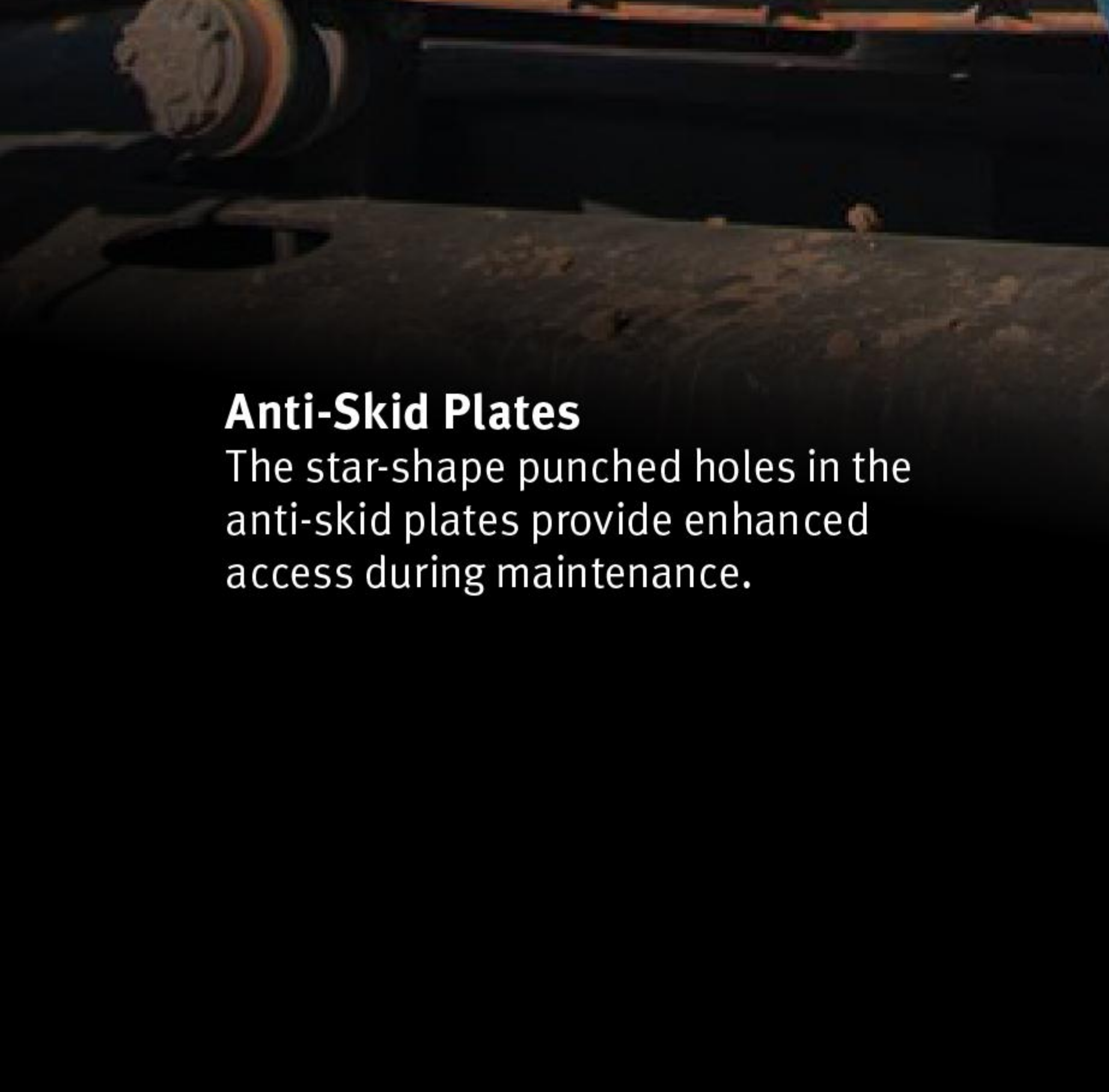
EASY MAINTENANCE

Even the best equipment needs regular maintenance. When it's time to take care of your excavator, Rippa makes it easy with onboard diagnostic systems, easy component access plus a standard fleet management system. If you want a long-lasting machine and minimum effort to get it, Doosan delivers everything you need.



Easy Component Access

All Rippa excavators provide ground level access to all filters and easy access to regular inspection points. Access panels are easy to find and open from the top, bottom and sides of the excavator. A large engine bonnet provides plenty of room to reach the top side of the engine, while a hinged belly pan allows access from the bottom. Solid steel side panels provide access to regular daily maintenance items which makes for quick, easy service and a lower cost of operation.



Anti-Skid Plates

The star-shape punched holes in the anti-skid plates provide enhanced access during maintenance.





Rippa Telematics

Rippa's Telematics provides machine intelligence through a device that comes standard on all Rippa machines. The device communicates wirelessly through either cellular or satellite communication. Machine information can be viewed via the CoreTMS website, which then allows you to assess various aspects of your Doosan machine.

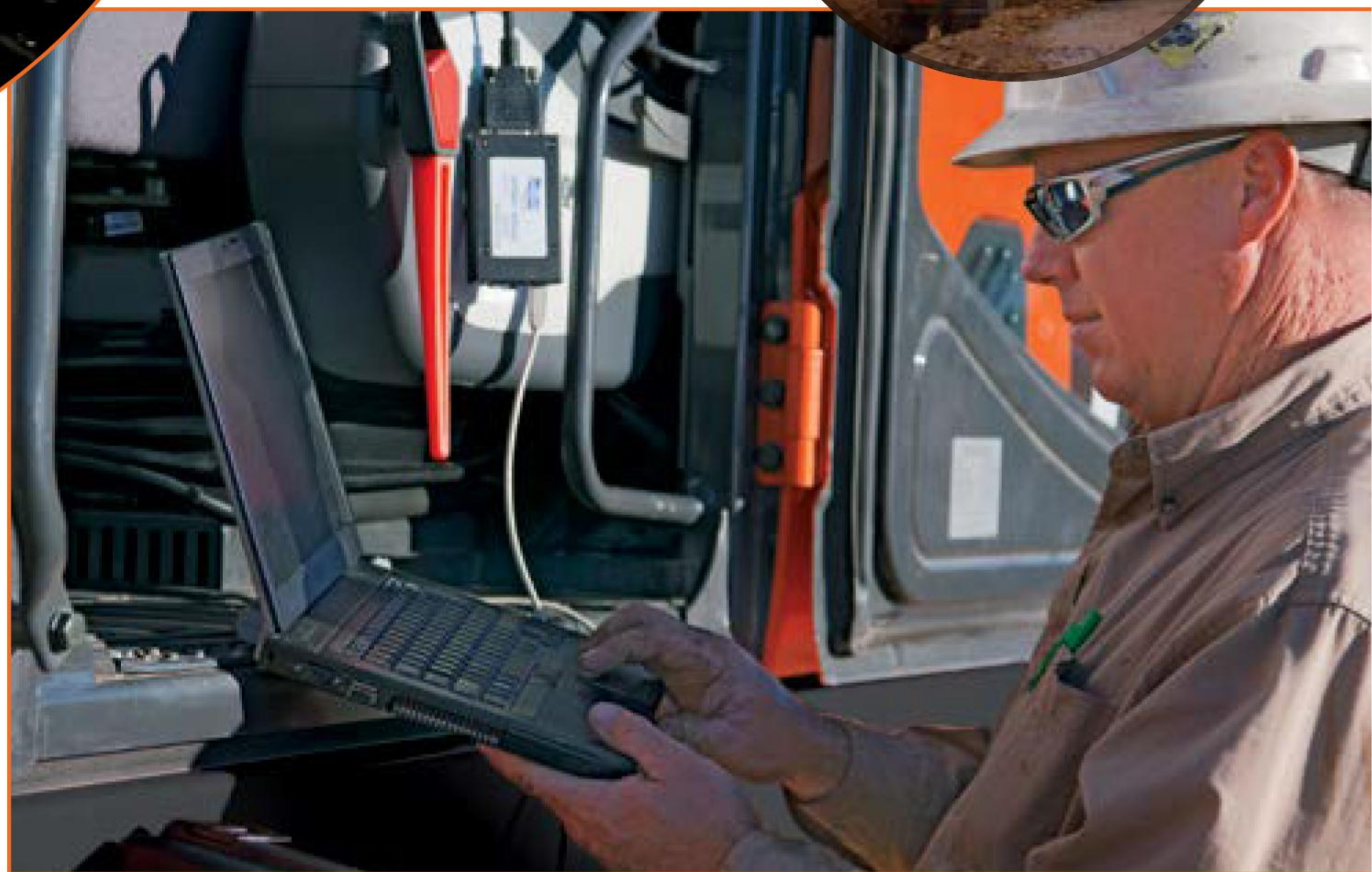
Key benefits include:

- Review maintenance schedules
- Maximize machine utilization and uptime
- Improve operator efficiency and training
- Monitor fuel use and efficiency
- Receive theft prevention alerts



Oil and Filter Life

Easily review the hours since the last maintenance for oils and filters. Your machine will remind you when each oil and filter needs replacing 10 working hours before service is due, assisting you in regular maintenance scheduling.



Centralized Arm and Boom Grease Points

Daily maintenance is critical – and it's simple with the centralized grease banks on the arm and base of the boom.

Emergency Stop Switch

The relocated emergency stop switch is now within easy access from the exterior of the machine.



Rippa Monitoring System with Laptop Access

The Rippa Monitoring System is a diagnostic program that gives your dealer's technician a direct communications link with your excavator. During operation, it monitors all critical data and provides a complete history of operation and a real-time log of machine failures. Armed with information like this, your dealer service personnel can fix issues faster – and you can get back to work.

Auxiliary Mode Switch

If needed, an auxiliary mode switch allows you to finish a job or move your excavator to a convenient location for service.

Self-Diagnostics

The LCD monitor helps you monitor critical systems in real time. Plus, you can access historical machine alerts right from the screen in the cabin.

VERSATILITY

Bucket

Clamp

Rippa attachments are designed to match the excavator load ratings and hydraulic performance.

Selectable Work Modes

Four unique work modes enable you to tailor your excavator's performance to the work in front of you. Two modes recalibrate machine power for digging or lifting. Two change the auxiliary hydraulic flow for specific types of attachments. Just change a few settings with the LCD display panel to quickly optimize performance and protect your hydraulic components.

Work Mode



Digging Your default setting delivers the performance you need for general excavation, loading and lifting. The four power modes give it a huge range of versatility for many different digging applications. NOTE: SPC only works in digging mode.



Lifting The increased pump torque, low engine rpm and automatic power boost provide extra muscle when lifting materials – like pipe or concrete barriers.

Specifications

General

STANDARD CONFIGURATION

	UNIT	NDI 320 STANDARD ARM (US20)	NDI 420 STANDARD ARM (US20)	NDI520 MASS EXCAVATION (US20)
ENGINE				
MAKE		Doosan	Scania	Scania
NUMBER OF CYLINDERS		6	6	6
RATED POWER GROSS (HP per SAE J1995)	hp (kW) @ rpm	271 (202) @ 1,800	345 (257) @ 1,800	380 (283) @ 1,800
RATED POWER NET (HP per SAE J1349)	hp (kW) @ rpm	267 (199) @ 1,800	338 (252) @ 1,800	373 (278) @ 1,800
MAXIMUM TORQUE (GROSS) (SAE J1995)	ft.-lb. (Nm) @ rpm	940 (1,275) @ 1,300	1,180 (1599) @ 1,300	1,301 (1764) @ 1,300
PISTON DISPLACEMENT	in ³ (L)	466 (7.6)	775 (12.7)	775 (12.7)
BORE AND STROKE	in. x in. (mm x mm)	4.3" X 5.5" (108 X 139)	5.1" x 6.3" (130 x 160)	5.1" x 6.3" (130 x 160)
STARTER	V, hp (kW)	24V, 8 (6)	24V, 8 (6)	24V, 8 (6)
BATTERY (Qty 2)	V, AH, CCA	12V, 200AH, 1300	12V, 200AH, 1300	12V, 200AH, 1300
ALTERNATOR	V, amp	24V, 80	28V, 100	28V, 100
AIR CLEANER		Double Elements	Double Elements	Double Elements
HYDRAULICS				
MAIN PUMPS	gpm (L/min)	2 x 65.5 (2 x 248)	2 x 88.5 (2 x 335)	2 x 93.8 (2 x 355)
PILOT PUMP (Gear Design)	gpm (L/min)	7.1 (27)	6.3 (24)	6.3 (24)
RELIEF PRESSURE (Normal)	psi (kg/cm ²)	4,978 (350)	4,694 (330)	4,694 (330)
RELIEF PRESSURE (Boost)	psi (kg/cm ²)	5,263 (370)	4,978 (350)	4,978 (350)
MAXIMUM SYSTEM PRESSURE				
BOOM/ARM/BUCKET (Normal Mode)	psi (kg/cm ²)	4,978 (350)	4,694 (330)	4,694 (330)
BOOM/ARM/BUCKET (Power Mode)	psi (kg/cm ²)	5,263 (370)	4,978 (350)	4,978 (350)
TRAVEL (Normal Mode)	psi (kg/cm ²)	4,978 (350)	4,694 (330)	4,694 (330)
TRAVEL (Power Mode)	psi (kg/cm ²)	5,263 (370)	4,978 (350)	4,978 (350)
SWING (Normal Mode)	psi (kg/cm ²)	4,978 (350)	4,694 (330)	4,694 (330)
SWING (Power Mode)	psi (kg/cm ²)	5,263 (370)	4,978 (350)	4,978 (350)
UNDERCARRIAGE				
UPPER ROLLERS (Each Track)		2	2	3
LOWER ROLLERS (Each Track)		9	9	9
NUMBER OF SHOES (Links Per Side)		48	50	53
TOTAL LENGTH OF TRACK	ft. in. (mm)	16' 2" (4940)	17' 11" (5455)	17' 11" (5455)
SWING MECHANISM				
SWING SPEED	rpm	0-9.9	0-8.8	0-8.6
SWING TORQUE	lbf.ft (kgf.m)	87,787 (12 137)	118,332 (16 360)	145,600 (20 130)
DRIVE SYSTEM				
TRAVEL SPEED (Low – High)	mph (km/h)	1.9-3.3 (3.0-5.3)	1.9-3.2 (3.1-5.1)	1.9-3.2 (3.1-5.1)
TRACTION FORCE (Drawbar Pull)	lbf.ft (kgf.m)	77,162 (10 668)	90,169 (12 466)	100,531 (13 899)
MAXIMUM GRADE	% (°)	70 (35)	70 (35)	70 (35)
ENVIRONMENT				
SOUND LEVEL (2000/14/EC)	dB(A)	103	105	105
CABIN SOUND LEVEL (ISO 6396)	dB(A)	71	72	72
REFILL CAPACITIES				
FUEL TANK	gal. (L)	132.1 (500)	169.1 (640)	181 (685)
DEF TANK	gal. (L)	18.5 (70)	18.5 (70)	18.5 (70)
COOLING SYSTEM (Radiator Capacity)	gal. (L)	12.9 (49)	13.5 (51)	13.5 (51)
ENGINE OIL	gal. (L)	9.5 (36)	11.9 (45)	11.9 (45)
SWING DRIVE	gal. (L)	1.8 (7)	2.1 (8)	2X 1.3 (5)
FINAL DRIVE (Each Side)	gal. (L)	1.8 (7)	1.8 (7.0)	2.6 (10)
HYDRAULIC SYSTEM	gal. (L)	82 (310)	127 (480)	132 (500)
HYDRAULIC TANK	gal. (L)	74 (280)	103 (390)	103 (390)

NOTE — Where applicable, dimensions are in accordance with ISO standards. Specifications and design are subject to change without notice. Images of Rippa units may show other than standard equipment. All dimensions are shown in feet and inches. Respective metric dimensions are enclosed by parentheses. Doosan equipment is manufactured with a Quality Management System that is in compliance with ISO 9001:2008 as registered with BSI.

Weight

NDI 320

		STANDARD ARM (US20)	LONG ARM (US30)	SUPER LONG REACH (US50)
	SHOE SIZE in. (mm)	31.5" (800)	33.5" (850)	33.5" (850)
	COUNTERWEIGHT lb. (kg)	11,684 (5300)	13,889 (6300)	13,889 (6300)
	TRACK TYPE	FIXED	FIXED	FIXED
	UNIT			
Operating Weight	lb. (kg)	68,764 (31 191)	71,300 (32 341)	72,462 (32 868)
Ground Pressure	psi (kgf/cm ²)	6.5 (0.46)	6.1 (0.43)	6.1 (0.43)

NDI 420

		STANDARD ARM (US20)	LONG ARM (US30)
	SHOE SIZE in. (mm)	31.5" (800)	35.4" (900)
	COUNTERWEIGHT lb. (kg)	17,637 (8000)	21,605 (9800)
	TRACK TYPE	FIXED	FIXED
	UNIT		
Operating Weight	lb. (kg)	94,799 (43 000)	99,689 (45 218)
Ground Pressure	psi (kgf/cm ²)	8.5 (0.6)	7.5 (0.53)

NDI 520

		STANDARD ARM (US20)	LONG ARM (US30)	SUPER LONG REACH (US50)
	SHOE SIZE in. (mm)	35.4" (900)	35.4" (900)	35.4" (900)
	COUNTERWEIGHT lb. (kg)	24,471 (11 100)	24,471 (11 100)	24,471 (11 100)
	TRACK TYPE	WIDE VARIABLE	WIDE VARIABLE	WIDE VARIABLE
	UNIT			
Operating Weight	lb. (kg)	116,576 (52 878)	116,528 (52 856)	117,112 (53 121)
Ground Pressure	psi (kgf/cm ²)	8.8 (0.62)	8.8 (0.62)	8.8 (0.62)

Specifications

Bucket

- 1 Capacity Based on ISO 7451
- 2 Equipped with Side Cutters
- 3 Equipped with Bolt-On Teeth
- 4 Equipped with Bolt-On Cutting Edge

Maximum Suitable Material Density

- A 3,370 lb./yd³ (2000 kg/m³)
- B 2,700 lb./yd³ (1600 kg/m³)
- C 1,850 lb./yd³ (1100 kg/m³)

X Not Approved

* Based on designed use, not material capacity.

NDI 320

	STANDARD ARM (US20)		LONG ARM (US20)		SUPER LONG REACH (US50)
BOOM ft.-in. (mm)	20' 6" (6245)		20' 6" (6245)		32' 10" (10 000)
ARM ft.-in. (mm)	10' 2" (3100)		12' 4" (3750)		23' (7000)
SHOE SIZE in. (mm)	31.5" (800)		33.5" (850)		33.5" (850)
TRACK TYPE	FIXED		FIXED		FIXED
MOUNT	PIN ON	COUPLER	PIN ON	COUPLER	PIN ON

BUCKET TYPE	MODEL	CAPACITY ¹ yd ³ (m ³)	WIDTH in. (mm)	WEIGHT lb. (kg)					
HEAVY DUTY ^{2,3}	HF50-024	0.67 (0.51)	26 (660)	1,530 (694)	A	A	A	A	X
	HF50-030	0.89 (0.68)	32 (813)	1,709 (775)	A	A	A	A	X
	HF50-036	1.12 (0.86)	38 (965)	1,975 (896)	A	A	A	A	X
	HF50-042	1.36 (1.04)	44 (1118)	2,097 (951)	A	A	A	A	X
	HF50-048	1.61 (1.23)	50 (1270)	2,229 (1011)	A	A	A	A	X
	HF50-054	1.84 (1.41)	56 (1422)	2,423 (1099)	A	B	A	A	X
	HF50-060	2.09 (1.60)	62 (1575)	2,584 (1172)	B	B	A	B	X
	HF40-018	0.27 (0.21)	20 (508)	772 (350)	X	X	X	X	A
	HF40-024	0.41 (0.31)	26 (660)	878 (398)	X	X	X	X	A
	HF40-030	0.55 (0.42)	32 (813)	1013 (459)	X	X	X	X	A
	HF40-036	0.68 (0.52)	38 (965)	1147 (520)	X	X	X	X	A
HF40-042	0.82 (0.63)	44 (1118)	1253 (568)	X	X	X	X	A	
DITCHING ⁴	BS960	1.26 (0.96)	60 (1500)	1,798 (816)	A	A	A	A	X
	BS972	1.54 (1.18)	72 (1829)	1,951 (885)	A	A	A	A	X
	BS984	1.82 (1.39)	84 (2134)	2,369 (1075)	A	B	A	A	X
	BS8B48	0.64 (0.49)	48 (1219)	602 (273)	X	X	X	X	A
	BS8B60	0.80 (0.61)	60 (1524)	908 (412)	X	X	X	X	A
HEAVY DUTY DITCHING	H30BW1850	2.78 (2.13)	73 (1850)	2894 (1313)	C*	C*	C*	C*	X

NDI 420

	STANDARD ARM (US20)		LONG ARM (US30)	
BOOM ft.-in. (mm)	22' (6700)		22' (6700)	
ARM ft.-in. (mm)	10' 8" (3250)		13' (3950)	
SHOE SIZE in. (mm)	31.5" (800)		35.4" (900)	
TRACK TYPE	FIXED		FIXED	
MOUNT	PIN ON	QUICK COUPLER	PIN ON	QUICK COUPLER

BUCKET TYPE	MODEL	CAPACITY ¹ yd ³ (m ³)	WIDTH in. (mm)	WEIGHT lb. (kg)				
HEAVY DUTY ^{2,3}	HF60-036	1.50 (1.15)	38 (965)	2,841 (1289)	A	A	A	A
	HF60-048	2.14 (1.64)	50 (1270)	3,382 (1534)	A	A	A	A
	HF60-054	2.51 (1.92)	56 (1422)	3,646 (1654)	A	A	A	A
	HF60-060	2.80 (2.14)	62 (1575)	3,922 (1779)	A	B	A	B
	HF60-066	3.23 (2.47)	68 (1727)	4,387 (1990)	B*	C	B*	C
HEAVY DUTY DITCHING	H30BW1850	3.26 (2.43)	73 (1850)	3788 (1718)	B*	C*	B*	C*

Bucket

NDI 520

					MASS EXCAVATION ARM (US20)		STANDARD ARM (US30)		SUPER LONG REACH (US50)
					BOOM ft.-in. (mm)		23' 4" (7100)		36' 1" (11 000)
					ARM ft.-in. (mm)		9' 6" (2900)		11' (3350)
					SHOE SIZE in. (mm)		35.4" (900)		35.4" (900)
					TRACK TYPE		WIDE VARIABLE		WIDE VARIABLE
					MOUNT		PIN ON	QUICK COUPLER	PIN ON
BUCKET TYPE	MODEL	CAPACITY ¹ yd ³ (m ³)	WIDTH in. (mm)	WEIGHT lb. (kg)					
HEAVY DUTY ^{2,3}	HF65-042	2.0 (1.53)	44 (1118)	3,629 (1646)	A	A	A	A	X
	HF65-048	2.35 (1.80)	50 (1270)	4,015 (1821)	A	A	A	A	X
	HF65-054	2.71 (2.07)	56 (1422)	4,202 (1906)	A	A	A	A	X
	HF65-060	3.07 (2.35)	62 (1575)	4,515 (2048)	A	A	A	A	X
	HF65-066	3.56 (2.72)	68 (1727)	4,963 (2251)	A	A	A	A	X
	HF65-072	3.81 (2.91)	74 (1880)	5,130 (2327)	A	A	A	A	X
	HF50-024	0.67 (0.51)	26 (660)	1,530 (694)	X	X	X	X	A
	HF50-030	0.89 (0.68)	32 (813)	1,709 (775)	X	X	X	X	A
	HF50-036	1.12 (0.86)	38 (965)	1,975 (896)	X	X	X	X	A
	HF50-042	1.36 (1.04)	44 (1118)	2,097 (951)	X	X	X	X	B
	HF50-048	1.61 (1.23)	50 (1270)	2,229 (1011)	X	X	X	X	B
HF50-054	1.84 (1.41)	56 (1422)	2,423 (1099)	X	X	X	X	C	
DITCHING ⁴	BS960	1.26 (0.96)	60 (1500)	1,798 (816)	X	X	X	X	A
	BS972	1.54 (1.18)	72 (1829)	1,951 (885)	X	X	X	X	A
	BS984	1.82 (1.39)	84 (2134)	2,369 (1075)	X	X	X	X	B
HEAVY DUTY DITCHING	H52BW2150	4.84 (3.7)	85 (2150)	5,071 (2301)	B*	C*	B*	C*	X

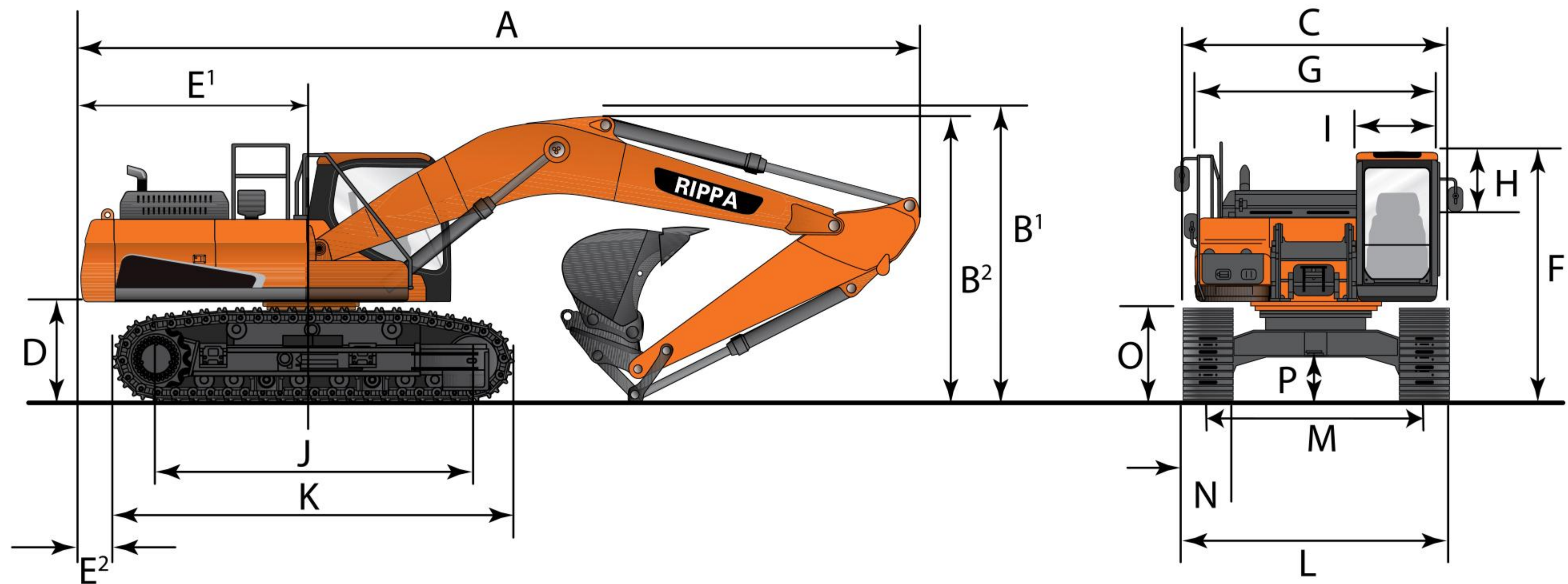
Hydraulic Cylinders

	UNIT	NDI 320	NDI 420	NDI 520
BOOM (2)				
BORE x ROD DIAMETER x STROKE (STD & SLR)	in. x in. x in. (mm x mm x mm)	5.5" x 3.7" x 57" (140 x 95 x 1450)	6.7" x 4.5" x 58.5" (170 x 115 x 1485)	6.7" x 4.5" x 65" (170 x 115 x 1650)
ARM (1)				
BORE x ROD DIAMETER x STROKE (STD & SLR)	in. x in. x in. (mm x mm x mm)	5.9" x 4.1" x 66" (150 x 105 x 1670)	7.1" x 4.7" x 71.7" (180 x 120 x 1820)	7.5" x 5.1" x 78" (190 x 130 x 1980)
BUCKET (1)				
BORE x ROD DIAMETER x STROKE (STD)	in. x in. x in. (mm x mm x mm)	5.3" x 3.5" x 45" (135 x 90 x 1150)	6.3" x 4.3" x 52" (160 x 110 x 1320)	6.7" x 4.5" x 53" (170 x 115 x 1341)
BORE x ROD DIAMETER x STROKE (SLR)	in. x in. x in. (mm x mm x mm)	3.7" x 2.6" x 35" (95 x 65 x 900)	—	4.7" x 3.1" x 42" (120 x 80 x 1060)

The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extend piston life.

Specifications

Dimensions



NDI 320

			STANDARD ARM (US20)	LONG ARM (US30)	SUPER LONG REACH (US50)
BOOM TYPE		ft.-in. (mm)	20' 6" (6245)	20' 6" (6245)	32' 10" (10 000)
ARM TYPE		ft.-in. (mm)	10' 2" (3100)	12' 4" (3750)	23' (7000)
BUCKET TYPE (SAE)		yd ³ (m ³)	1.66 (1.27)	1.35 (1.03)	0.84 (0.64)
TRACK TYPE			FIXED	FIXED	FIXED
SHIPPING LENGTH	A	ft.-in. (mm)	34' 8" (10 570)	35' (10 680)	46' 11" (14 320)
SHIPPING HEIGHT (BOOM)	B ₂	ft.-in. (mm)	10' 8" (3265)	11' 4" (3455)	11' (3365)
SHIPPING HEIGHT (HOSE)	B ₁	ft.-in. (mm)	11' (3370)	11' 8" (3575)	11' 4" (3475)
SHIPPING WIDTH	C	ft.-in. (mm)	11' 1" (3400)	11' 3" (3450)	11' 3" (3450)
COUNTERWEIGHT CLEARANCE	D	ft.-in. (mm)	45.3" (1150)	45.3" (1150)	45.3" (1150)
TAIL SWING RADIUS	E ₁	ft.-in. (mm)	10' 7" (3230)	10' 7" (3230)	10' 7" (3230)
TAIL SWING OVERHANG (REAR)	E ₂	ft.-in. (mm)	29.9" (760)	29.9" (760)	29.9" (760)
TAIL SWING OVERHANG (SIDE)	E ₃	ft.-in. (mm)	5' 2" (1580)	5' 1" (1568)	5' 1" (1568)
CABIN HEIGHT	F	ft.-in. (mm)	10' (3065)	10' (3065)	10' (3065)
UPPER STRUCTURE WIDTH	G	ft.-in. (mm)	9' 9" (2960)	9' 9" (2960)	9' 9" (2960)
CABIN HEIGHT ABOVE HOUSE	H	ft.-in. (mm)	33.3" (845)	33.3" (845)	33.3" (845)
CABIN WIDTH	I	ft.-in. (mm)	39.8" (1010)	39.8" (1010)	39.8" (1010)
TUMBLER DISTANCE	J	ft.-in. (mm)	13' 3" (4040)	13' 3" (4040)	13' 3" (4040)
OVERALL TRACK LENGTH	K	ft.-in. (mm)	16' 2" (4940)	16' 2" (4940)	16' 2" (4940)
UNDERCARRIAGE WIDTH	L	ft.-in. (mm)	11' 1" (3400)	11' 3" (3450)	11' 3" (3450)
TRACK GAUGE WIDTH	M	ft.-in. (mm)	8' 6" (2600)	8' 6" (2600)	8' 6" (2600)
TRACK SHOE WIDTH	N	ft.-in. (mm)	31.5" (800)	33.5" (850)	33.5" (850)
TRACK HEIGHT	O	ft.-in. (mm)	41.3" (1048)	41.3" (1048)	41.7" (1058)
CAR BODY CLEARANCE	P	ft.-in. (mm)	19.7" (500)	19.7" (500)	19.9" (505)

NDI 420

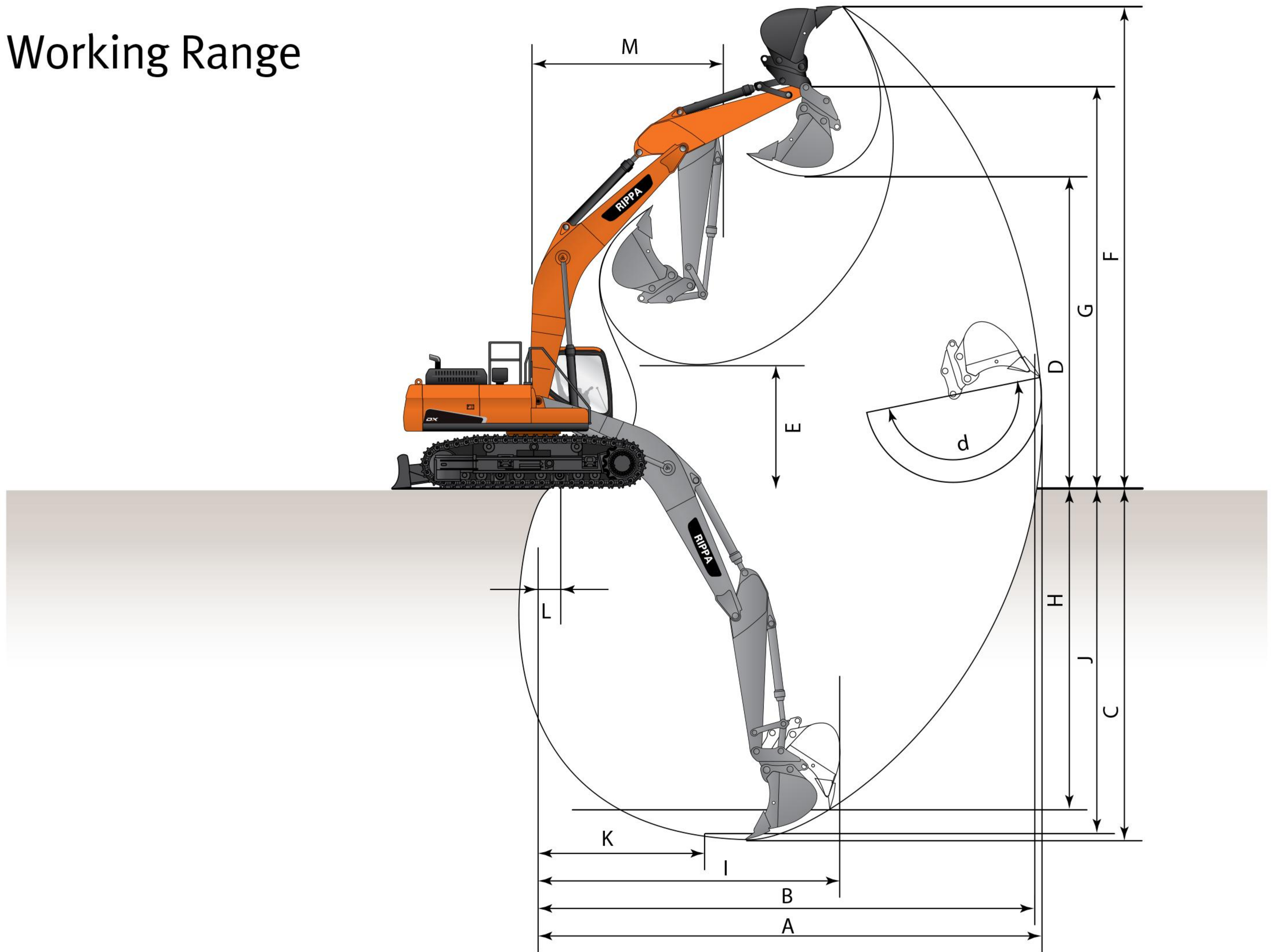
			STANDARD ARM (US20)	LONG ARM (US30)
BOOM TYPE		ft.-in. (mm)	22' (6700)	22' (6700)
ARM TYPE		ft.-in. (mm)	10' 8" (3250)	13' (3950)
BUCKET TYPE (SAE)		yd ³ (m ³)	2.49 (1.9)	1.88 (1.44)
TRACK TYPE			FIXED	FIXED
SHIPPING LENGTH	A	ft.-in. (mm)	38' 6" (11 750)	38' 6" (11 760)
SHIPPING HEIGHT (BOOM)	B ₂	ft.-in. (mm)	10' 11" (3350)	11' 1" (3390)
SHIPPING HEIGHT (HOSE)	B ₁	ft.-in. (mm)	11' 4" (3455)	11' 5" (3495)
SHIPPING WIDTH	C	ft.-in. (mm)	11' 7" (3550)	11' 11" (3650)
COUNTERWEIGHT CLEARANCE	D	ft.-in. (mm)	4' 1" (1265)	4' 1" (1265)
TAIL SWING RADIUS	E ₁	ft.-in. (mm)	12' 4" (3760)	12' 4" (3760)
TAIL SWING OVERHAND (REAR)	E ₂	ft.-in. (mm)	45.6" (1160)	45.6" (1160)
TAIL SWING OVERHAND (SIDE)	E ₃ *	ft.-in. (mm)	6' 6" (1985)	6' 4" (1935)
CABIN HEIGHT	F	ft.-in. (mm)	10' 4" (3154)	10' 4" (3154)
UPPER STRUCTURE WIDTH	G	ft.-in. (mm)	9' 9" (2990)	9' 9" (2990)
CABIN HEIGHT ABOVE HOUSE	H	ft.-in. (mm)	33.3" (845)	33.3" (845)
CABIN WIDTH	I	ft.-in. (mm)	39.8" (1010)	39.8" (1010)
TUMBLER DISTANCE	J	ft.-in. (mm)	13' 10" (4230)	13' 10" (4230)
OVERALL TRACK LENGTH	K	ft.-in. (mm)	17' (5200)	17' (5200)
UNDERCARRIAGE WIDTH	L	ft.-in. (mm)	11' 7" (3550)	11' 11" (3650)
TRACK GAUGE WIDTH	M	ft.-in. (mm)	9' (2750)	9' (2750)
TRACK SHOE WIDTH	N	ft.-in. (mm)	31.5" (800)	35.4" (900)
TRACK HEIGHT	O	ft.-in. (mm)	41.3" (1050)	41.3" (1050)
CAR BODY CLEARANCE	P	ft.-in. (mm)	21.3" (540)	21.3" (540)

NDI 520

			MASS EXCAVATION ARM (US20)	LONG ARM (US30)	SUPER LONG REACH (US50)
BOOM TYPE		ft.-in. (mm)	23' 4" (7100)	23' 4" (7100)	36' 1" (11 000)
ARM TYPE		ft.-in. (mm)	9' 6" (2900)	11' (3350)	26' 3" (8000)
BUCKET TYPE (SAE)		yd ³ (m ³)	3.1 (2.39)	2.8 (2.14)	1.22 (0.92)
TRACK TYPE			WIDE VARIABLE	WIDE VARIABLE	WIDE VARIABLE
SHIPPING LENGTH	A	ft.-in. (mm)	40' 5" (12 330)	40' 1" (12 230)	53' 1" (16 195)
SHIPPING HEIGHT (BOOM)	B ₂	ft.-in. (mm)	12' 5" (3800)	11' 8" (3580)	12' 10" (3935)
SHIPPING HEIGHT (HOSE)	B ₁	ft.-in. (mm)	12' 9" (3895)	12' 1" (3705)	13' 4" (4070)
SHIPPING WIDTH	C	ft.-in. (mm)	11' 11" (3640)	11' 11" (3640)	11' 11" (3640)
COUNTERWEIGHT CLEARANCE	D	ft.-in. (mm)	4' 9" (1460)	4' 9" (1460)	4' 9" (1460)
TAIL SWING RADIUS	E ₁	ft.-in. (mm)	12' 5" (3800)	12' 5" (3800)	12' 5" (3800)
TAIL SWING OVERHAND (REAR)	E ₂	ft.-in. (mm)	42.2" (1073)	42.2" (1073)	42.2" (1073)
TAIL SWING OVERHAND (SIDE)	E ₃ *	ft.-in. (mm)	7' 6" 1" (2130/1850)	7' 6" 1" (2130/1850)	7' 6" 1" (2130/1850)
CABIN HEIGHT	F	ft.-in. (mm)	10' 11" (3350)	10' 11" (3350)	10' 11" (3350)
UPPER STRUCTURE WIDTH	G	ft.-in. (mm)	9' 9"/10' 10" (2990/3296)**	9' 9"/10' 10" (2990/3296)**	9' 9"/10' 10" (2990/3296)**
CABIN HEIGHT ABOVE HOUSE	H	ft.-in. (mm)	33.3" (845)	33.3" (845)	33.3" (845)
CABIN WIDTH	I	ft.-in. (mm)	39.8" (1010)	39.8" (1010)	39.8" (1010)
TUMBLER DISTANCE	J	ft.-in. (mm)	14' 8" (4475)	14' 8" (4475)	14' 8" (4475)
OVERALL TRACK LENGTH	K	ft.-in. (mm)	17' 10" (5455)	17' 10" (5455)	17' 10" (5455)
UNDERCARRIAGE WIDTH	L	ft.-in. (mm)	11' 11"/13' 9" (3640/4200)***	11' 11"/13' 9" (3640/4200)***	11' 11"/13' 9" (3640/4200)***
TRACK GAUGE WIDTH	M	ft.-in. (mm)	10' 10" (3300)	10' 10" (3300)	10' 10" (3300)
TRACK SHOE WIDTH	N	ft.-in. (mm)	35' 4" (900)	35' 4" (900)	35' 4" (900)
TRACK HEIGHT	O	ft.-in. (mm)	47.6" (1210)	47.6" (1210)	47.6" (1210)
CAR BODY CLEARANCE	P	ft.-in. (mm)	30.3" (770)	30.3" (770)	30.3" (770)

Specifications

Working Range



NDI 320

		STANDARD ARM (US20)	LONG ARM (US30)	SUPER LONG REACH (US50)
BOOM TYPE	ft.-in. (mm)	20' 6" (6245)	20' 6" (6245)	32' 10" (10 000)
ARM TYPE	ft.-in. (mm)	10' 2" (3100)	12' 4" (3750)	23' (7000)
BUCKET TYPE (SAE)	yd ³ (m ³)	1.66 (1.27)	1.35 (1.03)	0.84 (0.64)
TRACK TYPE		FIXED	FIXED	FIXED
MAX. DIGGING REACH	A ft.-in. (mm)	35' 2" (10 725)	36' 10" (11 240)	57' 5" (17 510)
MAX. DIGGING REACH (GROUND)	B ft.-in. (mm)	34' 6" (10 530)	36' 3" (11 065)	57' (17 390)
MAX. DIGGING DEPTH	C ft.-in. (mm)	23' 11" (7305)	26' (7950)	45' 2" (13 780)
MAX. LOADING HEIGHT	D ft.-in. (mm)	23' 11" (7280)	24' 3" (7395)	39' 3" (11 975)
MIN. LOADING HEIGHT	E ft.-in. (mm)	9' (2750)	6' 11" (2110)	8' 11" (2730)
MAX. DIGGING HEIGHT	F ft.-in. (mm)	33' 10" (10 325)	34' 1" (10 405)	46' 7" (14 195)
MAX. BUCKET PIN HEIGHT	G ft.-in. (mm)	29' 1" (8880)	29' 7" (8990)	43' 7" (13 290)
MAX. VERTICAL WALL DEPTH	H ft.-in. (mm)	20' 1" (6125)	21' 7" (6600)	38' (11 590)
MAX. RADIUS VERTICAL	I ft.-in. (mm)	22' 5" (6840)	23' 2" (7070)	35' 9" (10 900)
MAX. DEPTH TO 8' LINE	J ft.-in. (mm)	23' 3" (7110)	25' 5" (7755)	43' 11" (13 395)
MIN. RADIUS 8' LINE	K ft.-in. (mm)	9' 10" (3000)	9' 6" (2920)	13' 6" (4140)
MIN. DIGGING REACH	L ft.-in. (mm)	24.4" (620)	-11" (-280)	45.7" (1160)
MIN. SWING RADIUS	M ft.-in. (mm)	13' 3" (4040)	13' 3" (4050)	20' (6120)
BUCKET ANGLE (DEG)	d Degrees	175°	174°	169°

NDI 420

			STANDARD ARM (US20)	LONG ARM (US30)
BOOM TYPE		ft.-in. (mm)	22' (6700)	22' (6700)
ARM TYPE		ft.-in. (mm)	10' 8" (3250)	13' (3950)
BUCKET TYPE (SAE)		yd ³ (m ³)	2.49 (1.9)	1.88 (1.44)
TRACK TYPE			FIXED	FIXED
MAX. DIGGING REACH	A	ft.-in. (mm)	37' 8" (11 495)	39' 11" (12 180)
MAX. DIGGING REACH (GROUND)	B	ft.-in. (mm)	37' (11 290)	39' 3" (11 980)
MAX. DIGGING DEPTH	C	ft.-in. (mm)	25' 4" (7740)	27' 8" (8435)
MAX. LOADING HEIGHT	D	ft.-in. (mm)	25' 3" (7710)	26' 6" (8100)
MIN. LOADING HEIGHT	E	ft.-in. (mm)	9' 9" (2995)	7' 6" (2300)
MAX. DIGGING HEIGHT	F	ft.-in. (mm)	35' 5" (10 820)	36' 10" (11 240)
MAX. BUCKET PIN HEIGHT	G	ft.-in. (mm)	30' 11" (9440)	32' 3" (9830)
MAX. VERTICAL WALL DEPTH	H	ft.-in. (mm)	14' 2" (4320)	16' 9" (5110)
MAX. RADIUS VERTICAL	I	ft.-in. (mm)	30' 11" (9440)	31' 9" (9700)
MAX. DEPTH TO 8' LINE	J	ft.-in. (mm)	24' 9" (7550)	27' 2" (8290)
MIN. RADIUS 8' LINE	K	ft.-in. (mm)	11' 2" (3420)	11' 4" (3475)
MIN. DIGGING REACH	L	ft.-in. (mm)	30.9" (785)	-8.9" (-225)
MIN. SWING RADIUS	M	ft.-in. (mm)	14' 8" (4475)	14' 11" (4555)
BUCKET ANGLE (DEG)	d	Degrees	183°	183.9°

NDI 520

			MASS EXCAVATION ARM (US20)	LONG ARM (US30)	SUPER LONG REACH (US50)
BOOM TYPE		ft.-in. (mm)	23' 4" (7100)	23' 4" (7100)	36' 1" (11 000)
ARM TYPE		ft.-in. (mm)	9' 6" (2900)	11' (3350)	26' 3" (8000)
BUCKET TYPE (SAE)		yd ³ (m ³)	3.1 (2.39)	2.8 (2.14)	1.22 (0.92)
TRACK TYPE			WIDE VARIABLE	WIDE VARIABLE	WIDE VARIABLE
MAX. DIGGING REACH	A	ft.-in. (mm)	38' 5" (11 720)	39' 9" (12 125)	64' 4" (19 615)
MAX. DIGGING REACH (GROUND)	B	ft.-in. (mm)	37' 6" (11 455)	38' 11" (11 865)	63' 9" (19 455)
MAX. DIGGING DEPTH	C	ft.-in. (mm)	24' (7340)	25' 6" (7790)	49' 7" (15 125)
MAX. LOADING HEIGHT	D	ft.-in. (mm)	25' 4" (7725)	25' 9" (7865)	39' (11 890)
MIN. LOADING HEIGHT	E	ft.-in. (mm)	11' 8" (3580)	10' 3" (3130)	4' 9" (1465)
MAX. DIGGING HEIGHT	F	ft.-in. (mm)	35' 9" (10 920)	36' 3" (11 050)	47' 4" (14 435)
MAX. BUCKET PIN HEIGHT	G	ft.-in. (mm)	31' 3" (9550)	31' 9" (9690)	43' 9" (13 355)
MAX. VERTICAL WALL DEPTH	H	ft.-in. (mm)	13' 3" (4045)	14' 4" (4370)	42' (12 805)
MAX. RADIUS VERTICAL	I	ft.-in. (mm)	31' 10" (9710)	32' 8" (9970)	39' 10" (12 165)
MAX. DEPTH TO 8' LINE	J	ft.-in. (mm)	23' 6" (7165)	25' (7635)	49' 2" (15 010)
MIN. RADIUS 8' LINE	K	ft.-in. (mm)	12' 8" (3885)	12' 9" (3895)	20' 2" (6165)
MIN. DIGGING REACH	L	ft.-in. (mm)	6' 7" (2010)	30.1" (840)	1.6" (40)
MIN. SWING RADIUS	M	ft.-in. (mm)	17' 2" (5235)	17' 1" (5210)	25' 8" (7825)
BUCKET ANGLE (DEG)	d	Degrees	181.2°	189.1°	177.6°

Specifications

Digging Force

NDI 320

		STANDARD ARM (US20)	LONG ARM (US30)	SUPER LONG REACH (US50)
BUCKET (PCSA)	BUCKET SIZE (SAE) yd ³ (m ³)	1.66 (1.27) STD	1.35 (1.03)	0.84 (0.64) SLR
DIGGING FORCE	lbf.	44,092	44,092	23,149
	kgf	20 000	20 000	10 500
	kN	196	196	103
ARM	ARM SIZE ft.-in. (mm)	10' 2" STD (3100)	12' 4" (3750)	23' (7000)
DIGGING FORCE	lbf.	30,644	27,337	16,535
	kgf	13 900	12 400	7500
	kN	136	122	74

NDI 420

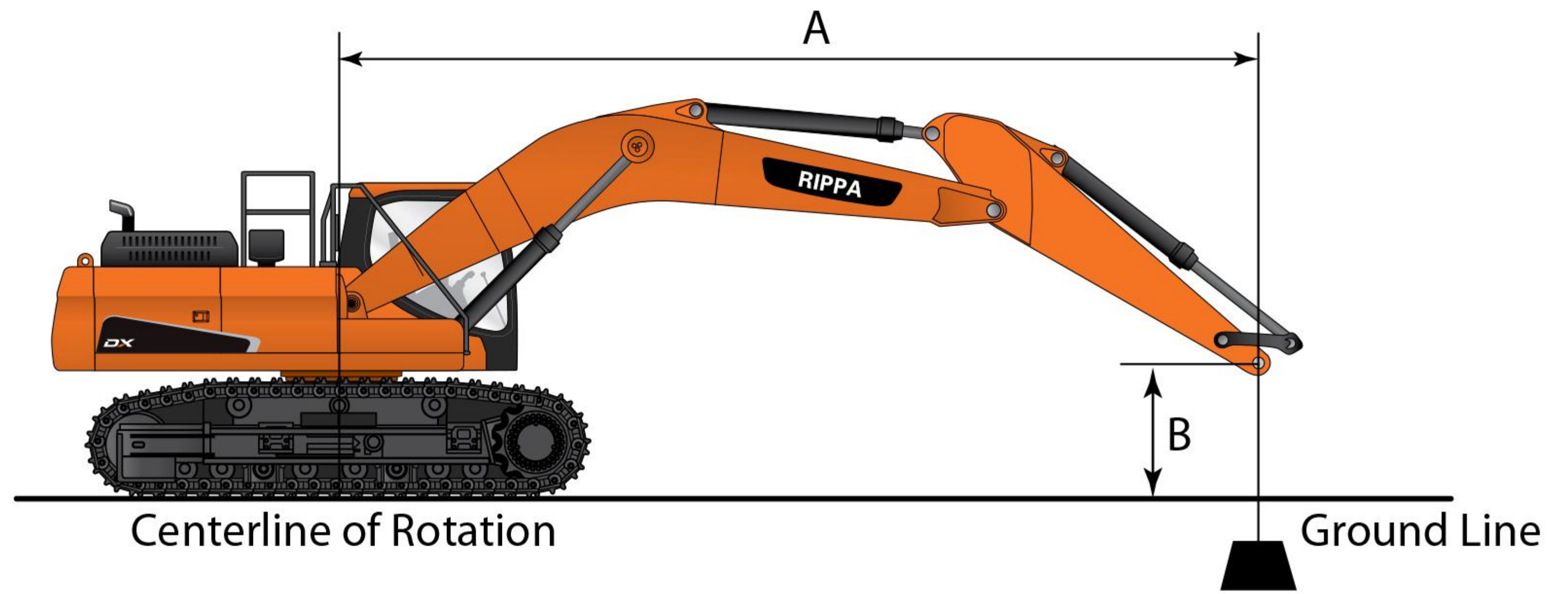
		STANDARD ARM (US20)	LONG ARM (US30)
BUCKET (PCSA)	BUCKET SIZE (SAE) yd ³ (m ³)	2.49 (1.90) STD	1.88 (1.44)
DIGGING FORCE	lbf.	59,745	59,745
	kgf	27 100	27 100
	kN	266	266
ARM	ARM SIZE ft.-in. (mm)	10' 8" (3250)	13' (3950)
DIGGING FORCE	lbf.	43,431	37,258
	kgf	19 700	16 900
	kN	193	166

NDI 520

		STANDARD ARM (US20)	LONG ARM (US30)	SUPER LONG REACH (US50)
BUCKET (PCSA)	BUCKET SIZE (SAE) yd ³ (m ³)	3.1 (2.39) STD	2.80 (2.14)	1.22 (0.92) SLR
DIGGING FORCE	lbf.	67,902	67,902	33,510
	kgf	30 800	30 800	15 200
	kN	302	302	149
ARM	ARM SIZE ft.-in. (mm)	9' 6" STD (2900)	11' (3350)	26' 3" (8000)
DIGGING FORCE	lbf.	56,879	50,045	26,235
	kgf	25 800	22 700	11 900
	kN	253	223	117

Specifications

Lifting Capacity



NDI 320



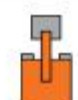




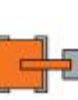
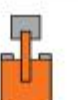




Track Width: 11' 1" (3400 mm)
 Boom: 20' 6" (6245 mm)
 Arm: 10' 2" (3100 mm)

Bucket: None
 Track Shoe Width: 31.5" (800 mm)
 Counterweight: 11,685 lb. (5300 kg)

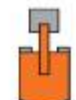






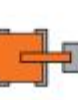
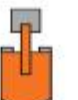
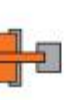


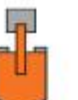

Unit: 1,000 lb. (1000 kg)

 Load Radius Over
 Front Load Radius Over Side

Feet

B ft	A ft	5		10		15		20		25		MAX REACH		A ft		
																
25														* 12.01	* 12.01	23.53
20								* 15.01	* 15.01	* 14.95	13.31			* 11.50	* 11.50	26.74
15						* 20.53	* 20.53	* 17.35	* 17.35	* 15.88	13.00			* 11.50	10.34	28.72
10						* 27.16	26.55	* 20.50	17.42	* 17.46	12.53			* 11.91	9.57	29.73
5						* 32.78	24.79	* 23.56	16.53	* 19.14	12.06			* 12.76	9.29	29.88
0 (GROUND)						* 35.6	23.95	* 25.71	15.93	18.82	11.71			* 14.25	9.46	29.17
-5		* 19.16	** 19.16	* 27.69	* 27.69	* 36.00	23.74	26.05	15.67	18.66	11.56			16.30	10.20	27.53
-10		* 31.29	* 31.29	* 42.93	* 42.93	* 34.32	23.95	* 25.68	15.75					19.06	11.85	24.79
-15				* 41.43	* 41.43	* 29.80	24.59	* 21.68	16.28					* 20.86	15.79	20.49

Metric

B m	A m	1.5		3		4.5		6		7.5		9		MAX REACH		A mm
																
7.5														* 5.42	* 5.42	7.27
6.0								* 6.87	* 6.87	* 6.78	6.20			* 5.21	* 5.21	8.19
4.5						* 9.55	* 9.55	* 8.00	* 8.00	* 7.27	6.04			* 5.22	4.67	8.77
3.0						* 12.64	12.30	* 9.47	8.07	* 8.02	5.81	* 5.96	4.39	* 5.41	4.33	9.07
1.5						* 15.20	11.50	* 10.88	7.66	* 8.81	5.59	6.78	4.29	* 5.80	4.21	9.10
0 (GROUND)						* 16.45	11.12	* 11.87	7.39	8.74	5.43			* 6.46	4.29	8.89
-1.5		* 8.59	* 8.59	* 12.25	* 12.25	* 16.60	11.03	12.11	7.27	8.66	5.36			7.38	4.62	8.40
-3.0		* 13.97	* 13.97	* 18.94	* 18.94	* 15.84	11.13	* 11.88	7.30	8.73	5.42			8.59	5.34	7.59
-4.5				* 19.23	* 19.23	* 13.86	11.41	* 10.21	7.52					* 9.44	7.02	6.32

*Hydraulically Limited

- Load point is the end of the arm.
- Capacities marked with an asterisk (*) are limited by hydraulic capacities.
- Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
- The least stable position is over the side.
- The total mass of machine includes the mass of the boom, arm, counterweight, all operating fluids and 165 lb. (75 kg) operator.

NDI 320 Long Arm (US30) – Fixed Track

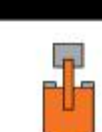

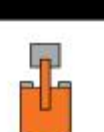

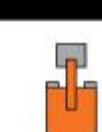

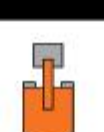

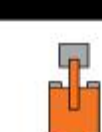

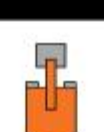

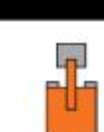

Track Width: 11' 3" (3400 mm)
 Boom: 20' 6" (6245 mm)
 Arm: 12' 4" (3750 mm)

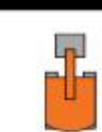

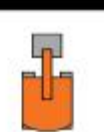



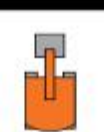

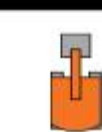



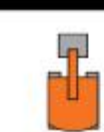

Bucket: None
 Track Shoe Width: 33.5" (850 mm)
 Counterweight: 13,890 lb. (6300 kg)

Unit: 1,000 lb. (1000 kg)

 Load Radius Over
 Front Load Radius Over Side

Feet

B ft \ A ft	5		10		15		20		25		30		MAX REACH		A ft
															
25									* 11.38	* 11.38			* 9.92	* 9.92	25.69
20									* 13.21	* 13.21			* 9.61	* 9.61	28.65
15							* 15.39	* 15.39	* 14.38	14.27	* 11.2	10.59	* 9.67	* 9.67	30.50
10					* 23.97	* 23.97	* 18.67	* 18.67	* 16.13	13.73	* 14.44	10.36	* 10.04	9.58	31.46
5					* 30.27	27.36	* 22.03	18.12	* 18.03	13.18	15.69	10.08	* 10.78	9.31	31.60
0 (GROUND)			* 19.37	* 19.37	* 34.24	26.13	* 24.65	17.37	* 19.64	12.74	15.45	9.86	* 11.99	9.44	30.93
-5	* 18.97	* 18.97	* 27.60	* 27.60	* 35.71	25.66	* 26.06	16.96	19.89	12.48			* 14.03	10.05	29.39
-10	* 28.12	* 28.12	* 38.81	* 38.81	* 35.06	25.68	* 26.00	16.91	19.89	12.48			* 17.77	11.40	26.84
-15	* 39.41	* 39.41	* 45.71	* 45.71	* 31.97	26.14	* 23.76	17.20					* 19.82	14.34	22.94
-20			* 34.59	* 34.59	* 24.30	* 24.30							* 21.25	* 21.25	16.75

B m \ A m	1.5		3		4.5		6		7.5		9		MAX REACH		A mm
															
7.5									* 5.63	* 5.63			* 4.48	* 4.48	7.92
6.0									* 6.00	* 6.00			* 4.36	* 4.36	8.78
4.5							* 7.09	* 7.09	* 6.58	* 6.58	* 5.68	4.93	* 4.39	* 4.39	9.32
3.0					* 11.15	* 11.15	* 8.62	* 8.62	* 7.41	6.37	* 6.80	4.81	* 4.56	4.34	9.59
1.5					* 14.04	12.69	* 10.17	8.40	* 8.30	6.11	* 7.27	4.68	* 4.89	4.22	9.63
0 (GROUND)			* 8.55	* 8.55	* 15.83	12.13	* 11.37	8.05	* 9.04	5.91	7.17	4.57	* 5.44	4.28	9.43
-1.5	* 8.52	* 8.52	* 12.24	* 12.24	* 16.48	11.92	* 12.02	7.87	9.24	5.79			* 6.34	4.55	8.97
-3.0	* 12.58	* 12.58	* 17.17	* 17.17	* 16.18	11.93	* 12.01	7.84	9.23	5.78			* 7.99	5.14	8.21
-4.5	* 17.53	* 17.53	* 21.18	* 21.18	* 14.82	12.13	* 11.06	7.97					* 8.96	6.42	7.05
-6.0			* 16.32	* 16.32	* 11.55	* 11.55							* 9.6	* 9.60	5.24

*Hydraulically Limited

- Load point is the end of the arm.
- Capacities marked with an asterisk (*) are limited by hydraulic capacities.
- Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
- The least stable position is over the side.
- The total mass of machine includes the mass of the boom, arm, counterweight, all operating fluids and 165 lb. (75 kg) operator.

Specifications

Lifting Capacity

NDI 320

Super Long Reach (US50) – Fixed Track

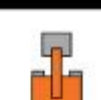









Track Width: 11' 3" (3400 mm)
 Boom: 32' 10" (10 000 mm)
 Arm: 23' (7000 mm)

Bucket: None
 Track Shoe Width: 33.5" (850 mm)
 Counterweight: 13,890 lb. (6300 kg)

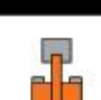








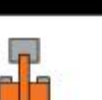
Unit: 1,000 lb. (1000 kg)

 Load Radius Over
 Front Load Radius Over Side

Feet

B ft \ A ft	5		10		15		20		25	
										
40										
35										
30										
25										
20										
15										
10					* 19.86	* 19.86	* 14.00	* 14.00	* 11.13	* 11.13
5					* 14.96	* 14.96	* 16.97	15.57	* 13.00	11.68
0 (GROUND)			* 7.39	* 7.39	* 13.12	* 13.12	* 19.29	14.08	* 14.63	10.66
-5	* 8.55	* 8.55	* 9.75	* 9.75	* 14.05	* 14.05	* 20.82	13.19	* 15.88	9.94
-10	* 10.74	* 10.74	* 12.17	* 12.17	* 15.99	* 15.99	* 21.68	12.76	16.73	9.50
-15	* 13.04	* 13.04	* 14.73	* 14.73	* 18.53	* 18.53	* 21.99	12.62	16.51	9.30
-20	* 15.49	* 15.49	* 17.53	* 17.53	* 21.61	19.65	* 21.81	12.72	16.49	9.28
-25	* 18.15	* 18.15	* 20.66	* 20.66	* 25.36	20.18	* 21.12	13.00	16.67	9.44
-30	* 21.11	* 21.11	* 24.29	* 24.29	* 25.65	20.95	* 19.8	13.47	* 15.95	9.77
-35			* 28.66	* 28.66	* 22.50	22.01	* 17.59	14.18	* 14.23	10.32
-40					* 17.58	* 17.58	* 13.85	* 13.85	* 10.89	* 10.89













Metric

B m \ A mm	1.5		3		4.5		6		7.5	
										
12.0										
10.5										
9.0										
7.5										
6.0										
4.5										
3.0					* 9.29	* 9.29	* 6.51	* 6.51	* 5.16	* 5.16
1.5					* 6.47	* 6.47	* 7.87	7.19	* 6.02	5.40
0 (GROUND)			* 3.30	* 3.30	* 5.78	* 5.78	* 8.93	6.51	* 6.76	4.93
-1.5	* 3.87	* 3.87	* 4.37	* 4.37	* 6.23	* 6.23	* 9.62	6.11	* 7.34	4.60
-3.0	* 4.84	* 4.84	* 5.45	* 5.45	* 7.11	* 7.11	* 10.01	5.92	* 7.72	4.40
-4.5	* 5.86	* 5.86	* 6.59	* 6.59	* 8.23	* 8.23	* 10.15	5.86	7.66	4.31
-6.0	* 6.95	* 6.95	* 7.83	* 7.83	* 9.59	9.13	* 10.07	5.90	7.65	4.30
-7.5	* 8.12	* 8.12	* 9.20	* 9.20	* 11.22	9.37	* 9.76	6.02	7.73	4.37
-9.0	* 9.43	* 9.43	* 10.79	* 10.79	* 11.91	9.71	* 9.19	6.23	* 7.41	4.51
-10.5			* 12.69	* 12.69	* 10.53	10.18	* 8.23	6.54	* 6.67	4.75
-12.0					* 8.42	* 8.42	* 6.65	* 6.65	* 5.30	5.14



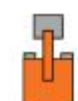

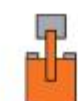







*Hydraulically Limited

- Load point is the end of the arm.
- Capacities marked with an asterisk (*) are limited by hydraulic capacities.
- Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
- The least stable position is over the side.
- The total mass of machine includes the mass of the boom, arm, counterweight, all operating fluids and 165 lb. (75 kg) operator.
- Lift capacities are in compliance with ISO 10567.

Feet

30		35		40		45		50		MAX REACH		A ft
												
				* 4.39	* 4.39					* 3.21	* 3.21	41.69
						* 3.28	* 3.28			* 3.07	* 3.07	45.23
				* 5.82	* 5.82	* 5.19	* 5.19			* 3.00	* 3.00	48.05
				* 6.10	* 6.10	* 6.11	5.78	* 3.15	* 3.15	* 2.98	* 2.98	50.18
				* 6.52	* 6.52	* 6.38	5.59	* 4.64	4.44	* 3.00	* 3.00	51.74
* 8.21	* 8.21	* 7.53	* 7.53	* 7.07	6.67	* 6.75	5.36	* 5.65	4.31	* 3.06	* 3.06	52.79
* 9.46	* 9.46	* 8.4	7.83	* 7.68	6.28	* 7.19	5.09	* 6.41	4.14	* 3.16	* 3.16	53.34
* 10.73	9.11	* 9.28	7.27	* 8.32	5.90	* 7.65	4.83	6.77	3.97	* 3.31	* 3.31	53.42
* 11.88	8.40	* 10.12	6.77	* 8.93	5.55	7.78	4.58	6.60	3.81	* 3.52	3.41	53.02
* 12.85	7.85	10.83	6.37	8.98	5.26	7.57	4.38	6.47	3.69	* 3.79	3.43	52.15
12.99	7.49	10.52	6.09	8.75	5.04	7.42	4.24	* 5.46	3.61	* 4.17	3.53	50.77
12.78	7.29	10.35	5.92	8.63	4.93	7.35	4.18			* 4.69	3.74	48.82
12.73	7.24	10.3	5.88	8.61	4.91	7.39	4.21			* 5.44	4.08	46.24
12.83	7.34	10.39	5.97	8.73	5.02					* 6.61	4.63	42.95
13.12	7.60	10.66	6.22							* 8.64	5.52	38.74
* 11.6	8.09									* 10.02	7.15	33.24
										* 10.49	* 10.49	25.64

Metric

9		10.5		12		13.5		15		MAX REACH		A mm
												
										* 1.45	* 1.45	12.85
						* 1.86	* 1.86			* 1.39	* 1.39	13.90
						* 2.56	* 2.56			* 1.36	* 1.36	14.71
				* 2.78	* 2.78	* 2.78	2.70	* 1.82	* 1.82	* 1.35	* 1.35	15.33
				* 2.99	* 2.99	* 2.91	2.61	* 2.40	2.09	* 1.36	* 1.36	15.79
* 3.79	* 3.79	* 3.46	* 3.46	* 3.24	3.11	* 3.09	2.50	* 2.82	2.02	* 1.39	* 1.39	16.1
* 4.37	* 4.37	* 3.87	3.63	* 3.53	2.92	* 3.29	2.38	* 3.14	1.94	* 1.44	* 1.44	16.26
* 4.95	4.22	* 4.28	3.37	* 3.82	2.74	* 3.51	2.25	3.15	1.86	* 1.5	* 1.50	16.28
* 5.48	3.89	* 4.67	3.14	* 4.11	2.58	3.62	2.14	3.07	1.78	* 1.60	1.55	16.16
* 5.93	3.64	* 5.00	2.96	4.17	2.44	3.52	2.04	3.01	1.72	* 1.72	1.56	15.9
6.03	3.47	4.88	2.82	4.06	2.34	3.44	1.97	2.97	1.68	* 1.89	1.60	15.49
5.93	3.38	4.8	2.75	4.00	2.29	3.41	1.94			* 2.12	1.69	14.91
5.90	3.35	4.77	2.72	3.99	2.27	3.42	1.95			* 2.44	1.84	14.16
5.95	3.4	4.81	2.76	4.03	2.32					* 2.95	2.07	13.18
6.07	3.51	4.92	2.86							* 3.80	2.46	11.94
* 5.47	3.71									* 4.52	3.13	10.35
										* 4.74	4.61	8.16

*Hydraulically Limited

- Load point is the end of the arm.
- Capacities marked with an asterisk (*) are limited by hydraulic capacities.
- Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
- The least stable position is over the side.
- The total mass of machine includes the mass of the boom, arm, counterweight, all operating fluids and 165 lb. (75 kg) operator.
- Lift capacities are in compliance with ISO 10567.

Specifications

Lifting Capacity

NDI 420 Standard Arm (US20) – Fixed Track















Track Width: 11' 7" (3550 mm)
 Boom: 22' (6700 mm)
 Arm: 10' 8" (3250 mm)

Bucket: None
 Track Shoe Width: 31.5" (800 mm)
 Counterweight: 17,637 lb. (8000 kg)















Unit: 1,000 lb. (1000 kg)

 Load Radius Over
 Front Load Radius Over Side

Feet

B ft \ A ft	5		10		15		20		25		30		MAX REACH		A ft	
																
30														* 20.95	* 20.95	22.20
25									* 21.46	20.81				* 19.38	18.74	26.50
20									* 22.02	20.51				* 18.88	15.64	29.30
15					* 34.8	* 34.80	* 27.48	* 27.48	* 23.79	19.81	* 21.87	14.78		* 19.05	13.93	31.05
10					* 43.95	39.85	* 31.82	26.26	* 26.04	18.97	22.09	14.39		* 19.80	13.03	31.91
5					* 45.20	37.36	* 35.44	24.88	* 28.09	18.20	21.65	13.99		19.68	12.73	31.97
0 (GROUND)					* 48.13	36.42	* 37.38	24.03	27.87	17.65	21.35	13.72		20.17	12.99	31.22
-5			* 33.08	* 33.08	* 49.87	36.31	* 37.32	23.71	27.61	17.42				21.72	13.93	29.60
-10	* 40.31	* 40.31	* 52.29	* 52.29	* 45.84	36.71	* 35.01	23.85	* 27.13	17.56				* 24.15	15.98	26.95
-15			* 50.58	* 50.58	* 38.44	37.64	* 29.28	24.51						* 23.99	20.46	22.91

Metric

B m \ A m	1.5		3		4.5		6		7.5		9		MAX REACH		A mm	
																
9.0														* 9.40	* 9.40	6.92
7.5									* 9.72	9.70				* 8.76	8.36	8.15
6.0									* 10.08	9.53				* 8.56	7.03	8.97
4.5					* 16.22	* 16.22	* 12.70	* 12.70	* 10.94	9.19	* 9.99	6.88		* 8.65	6.29	9.48
3.0					* 20.47	18.45	* 14.72	12.17	* 12.00	8.8	10.26	6.68		* 9.00	5.90	9.73
1.5					* 18.92	17.33	* 16.39	11.53	* 12.95	8.44	10.06	6.49		8.93	5.77	9.74
0 (GROUND)					* 20.73	16.92	* 17.26	11.14	12.94	8.18	9.91	6.36		9.15	5.89	9.52
-1.5			* 14.64	* 14.64	* 22.98	16.89	* 17.22	11.00	12.82	8.07	9.88	6.34		9.83	6.31	9.03
-3.0	* 18.01	* 18.01	* 23.12	* 23.12	* 21.15	17.07	* 16.19	11.06	* 12.62	8.13				* 10.95	7.21	8.24
-4.5			* 23.47	* 23.47	* 17.87	17.48	* 13.70	11.35						* 10.90	9.13	7.06
-6.0														* 10.50	* 10.50	4.93

*Hydraulically Limited

- Load point is the end of the arm.
- Capacities marked with an asterisk (*) are limited by hydraulic capacities.
- Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
- The least stable position is over the side.
- The total mass of machine includes the mass of the boom, arm, counterweight, all operating fluids and 165 lb. (75 kg) operator.
- Lift capacities are in compliance with ISO 10567.

NDI 420 Long Arm (US30) – Fixed Track

Track Width: 11' 11" (3650 mm)

Boom: 22' (6700 mm)

Arm: 13' (3950 mm)

Bucket: None

Track Shoe Width: 35.4" (900 mm)

Counterweight: 21,605 lb. (9800 kg)

Unit: 1,000 lb. (1000 kg)



Load Radius Over



Front Load Radius Over Side

Feet

B ft \ A ft	5		10		15		20		25		30		MAX REACH		A ft
30									* 16.82	* 16.82			* 16.08	* 16.08	25.25
25									* 18.90	* 18.90			* 15.03	* 15.03	29.07
20									* 19.84	* 19.84	* 19.34	17.23	* 14.67	* 14.67	31.65
15							* 24.7	* 24.7	* 21.81	* 21.81	* 20.15	16.88	* 14.76	14.17	33.27
10					* 39.37	* 39.37	* 29.29	* 29.29	* 24.29	21.57	* 21.43	16.38	* 15.26	13.37	34.08
5					* 46.93	42.81	* 33.48	28.34	* 26.69	20.67	* 22.73	15.87	* 16.22	13.08	34.13
0 (GROUND)			* 20.40	* 20.40	* 50.43	41.18	* 36.24	27.22	* 28.44	19.97	* 23.62	15.48	* 17.78	13.29	33.43
-5	* 22.91	* 22.91	* 31.75	* 31.75	* 50.49	40.66	* 37.11	26.66	* 29.06	19.57	23.45	15.28	* 20.31	14.08	31.93
-10	* 34.79	* 34.79	* 45.77	* 45.77	* 47.83	40.80	* 35.91	26.59	* 28.05	19.53			* 22.28	15.76	29.49
-15	* 48.88	* 48.88	* 58.14	* 58.14	* 42.18	41.50	* 32.02	27.00	* 24.08	19.96			* 22.58	19.14	25.87
-20			* 42.33	* 42.33	* 31.63	* 31.63	* 22.62	* 22.62					* 21.76	* 21.76	20.43

Metric

B m \ A m	1.5		3		4.5		6		7.5		9		MAX REACH		A mm
9.0									* 8.52	* 8.52			* 7.23	* 7.23	7.83
7.5									* 8.58	* 8.58			* 6.80	* 6.80	8.94
6.0									* 9.08	* 9.08	* 8.79	7.18	* 6.65	8.27	9.69
4.5							* 11.41	* 11.41	* 10.02	9.39	* 9.22	7.00	* 6.70	5.67	10.16
3.0					* 18.32	* 18.32	* 13.55	12.48	* 11.19	8.95	* 9.84	6.76	* 6.93	5.34	10.39
1.5					* 21.76	17.76	* 15.48	11.73	* 12.31	8.53	10.14	6.52	* 7.37	5.22	10.40
0 (GROUND)			* 9.01	* 9.01	* 22.48	17.03	* 16.73	11.22	13.03	8.20	9.93	6.33	* 8.07	5.33	10.19
-1.5	* 10.28	* 10.28	* 14.09	* 14.09	* 23.29	16.80	* 17.13	10.96	12.82	8.02	9.82	6.24	8.79	6.51	9.74
-3.0	* 15.56	* 15.56	* 20.28	* 20.28	* 22.08	16.87	* 16.60	10.93	12.79	7.99	9.88	9.28	9.85	6.27	9.02
-4.5	* 21.76	* 21.76	* 26.94	* 26.94	* 19.56	17.18	* 14.89	11.11	* 11.34	8.17			* 10.24	7.60	7.94
-6.0			* 19.97	* 19.97	* 14.96	* 14.96	* 10.96	* 10.96					* 9.93	* 9.93	6.35

*Hydraulically Limited

- Load point is the end of the arm.
- Capacities marked with an asterisk (*) are limited by hydraulic capacities.
- Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
- The least stable position is over the side.
- The total mass of machine includes the mass of the boom, arm, counterweight, all operating fluids and 165 lb. (75 kg) operator.
- Lift capacities are in compliance with ISO 10567.

Specifications

Lifting Capacity

NDI 520 Standard Arm (US20) – Wide Variable Track


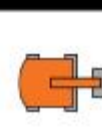
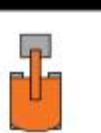
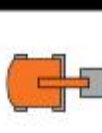

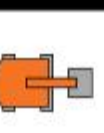

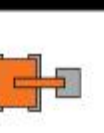

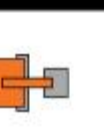

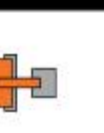
Track Width: 13' 9" (4200 mm)
 Boom: 23' 4" (7100 mm)
 Arm: 9' 6" (2900 mm)

Bucket: None
 Track Shoe Width: 35.4" (900 mm)
 Counterweight: 24,471 lb. (11 100 kg)


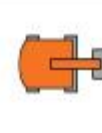

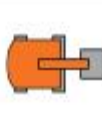

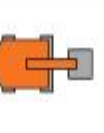

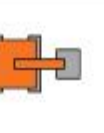

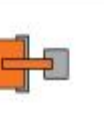


Unit: 1,000 lb. (1000 kg)

 Load Radius Over
 Front Load Radius Over Side

Feet

B ft \ A ft	10		15		20		25		30		MAX REACH		
													A ft
30											* 25.86	* 25.86	23.79
25							* 25.49	* 25.49			* 24.25	* 24.25	27.64
20					* 30.28	* 30.28	* 26.72	* 26.72	* 25.11	23.12	* 23.77	22.88	30.17
15					* 34.85	* 34.85	* 28.95	* 28.95	* 25.78	22.77	* 24.06	20.83	31.72
10					* 39.46	* 39.46	* 31.40	29.03	* 26.91	22.27	* 25.06	19.82	32.41
5					* 42.55	38.65	* 33.33	28.18	* 27.82	21.82	* 25.88	19.64	32.32
0 (GROUND)			* 44.07	* 44.07	* 43.48	37.96	* 34.15	27.67	* 27.94	21.55	* 26.35	20.26	31.42
-5	* 37.12	* 37.12	* 54.67	* 54.67	* 42.24	37.85	* 33.37	27.54			* 26.73	21.95	29.65
-10	* 61.17	* 61.17	* 48.99	* 48.99	* 38.54	38.23	* 30.04	27.87			* 26.73	25.45	26.82
-15	* 48.21	* 48.21	* 39.37	* 39.37	* 30.66	* 30.66					* 25.45	* 25.45	22.54

Metric

B m \ A m	3		4.5		6		7.5		9		MAX REACH		
													A mm
9.0											* 11.63	* 11.63	7.38
7.5							* 11.62	* 11.62			* 10.97	* 10.97	8.50
6.0					* 13.99	* 13.99	* 12.27	* 12.27	* 11.42	10.77	* 10.78	10.30	9.23
4.5					* 16.15	* 16.15	* 13.34	* 13.34	* 11.82	10.58	* 10.93	9.42	9.68
3.0					* 18.28	* 18.28	* 14.49	13.46	* 12.37	10.33	* 11.38	8.98	9.88
1.5					* 19.67	17.93	* 15.38	13.07	* 12.82	10.12	* 11.74	8.91	9.85
0 (GROUND)			* 18.94	* 18.94	* 20.06	17.62	* 15.76	12.83	* 12.91	9.99	* 11.95	9.19	9.58
-1.5			* 25.13	* 25.13	* 19.48	17.58	* 15.42	12.77	* 12.24	10.01	* 12.12	9.94	9.05
-3.0	* 28.04	* 28.04	* 22.58	* 22.58	* 17.83	17.75	* 13.99	12.90			* 12.13	11.47	8.21
-4.5	* 22.36	* 22.36	* 18.32	* 18.32	* 14.41	* 14.41					* 11.60	* 11.60	6.95

*Hydraulically Limited

- Load point is the end of the arm.
- Capacities marked with an asterisk (*) are limited by hydraulic capacities.
- Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
- The least stable position is over the side.
- The total mass of machine includes the mass of the boom, arm, counterweight, all operating fluids and 165 lb. (75 kg) operator.
- Lift capacities are in compliance with ISO 10567.

NDI 520 Long Arm (US30) – Wide Variable Track

Track Width: 13' 9" (4200 mm)
 Boom: 23' 4" (7100 mm)
 Arm: 11' (3350 mm)

Bucket: None
 Track Shoe Width: 35.4" (900 mm)
 Counterweight: 24,471 lb. (11 100 kg)

Unit: 1,000 lb. (1000 kg)



Feet

B ft \ A ft	10		15		20		25		30		MAX REACH		A ft
30							* 21.84	* 21.84			* 18.88	* 18.88	25.55
25							* 23.89	* 23.89			* 17.82	* 17.82	29.17
20							* 25.34	* 25.34	* 23.73	23.33	* 17.51	* 17.51	31.59
15			* 43.95	* 43.95	* 33.06	* 33.06	* 27.72	* 27.72	* 24.74	22.87	* 17.73	* 17.73	33.07
10			* 53.82	* 53.82	* 37.93	* 37.93	* 30.36	29.14	* 26.09	22.29	* 18.45	* 18.45	33.73
5			* 40.20	* 40.20	* 41.56	38.75	* 32.58	28.19	* 27.27	21.76	* 19.75	18.45	33.64
0 (GROUND)			* 49.22	* 49.22	* 43.14	37.86	* 33.79	27.56	* 27.78	21.40	* 21.84	18.96	32.78
-5	* 38.74	* 38.74	* 56.20	* 56.20	* 42.59	37.58	* 33.55	27.31	* 26.97	21.32	* 25.29	20.38	31.08
-10	* 59.46	* 59.46	* 51.29	* 51.29	* 39.72	37.81	* 31.19	27.48			* 25.79	23.23	28.41
-15	* 54.93	* 54.93	* 42.91	* 42.91	* 33.42	* 33.42					* 25.25	* 25.25	24.42

Metric

B m \ A m	3		4.5		6		7.5		9		MAX REACH		A mm
9.0							* 10.90	* 10.90			* 8.50	* 8.50	7.92
7.5							* 10.90	* 10.90			* 8.06	* 8.06	8.96
6.0							* 11.64	* 11.64	* 10.83	* 10.83	* 7.94	* 7.94	9.66
4.5			* 20.54	* 20.54	* 15.32	* 15.32	* 12.78	* 12.78	* 11.35	10.62	* 8.05	* 8.05	10.09
3.0			* 21.55	* 21.55	* 17.57	* 17.57	* 14.01	13.51	* 12.00	10.34	* 8.38	* 8.38	10.28
1.5			* 17.00	* 17.00	* 19.22	17.98	* 15.04	13.07	* 12.56	10.09	* 8.97	8.37	10.25
0 (GROUND)			* 21.36	* 21.36	* 19.91	17.58	* 15.59	12.78	* 12.82	9.92	* 9.91	8.60	9.99
-1.5	* 17.21	* 17.21	* 25.87	* 25.87	* 19.65	17.45	* 15.49	12.67	* 12.51	9.88	* 11.44	9.23	9.49
-3.0	* 26.37	* 26.37	* 23.65	* 23.65	* 18.36	17.56	* 14.48	12.74			* 11.7	10.49	8.69
-4.5	* 25.46	* 25.46	* 19.92	* 19.92	* 15.60	* 15.6	* 11.54	* 11.54			* 11.48	* 11.48	7.51

*Hydraulically Limited

- Load point is the end of the arm.
- Capacities marked with an asterisk (*) are limited by hydraulic capacities.
- Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
- The least stable position is over the side.
- The total mass of machine includes the mass of the boom, arm, counterweight, all operating fluids and 165 lb. (75 kg) operator.
- Lift capacities are in compliance with ISO 10567.

Specifications



Lifting Capacity

NDI 520 Super Long Reach (US50) – Wide Variable Track

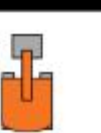

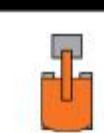

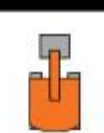

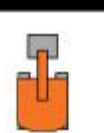

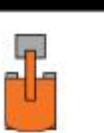


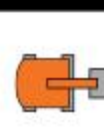
Track Width: 13' 9" (4200 mm)
 Boom: 36' 1" (11 000 mm)
 Arm: 26' 3" (8000 mm)

Bucket: None
 Track Shoe Width: 35.4" (900 mm)
 Counterweight: 24,471 lb. (11 100 kg)

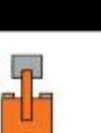

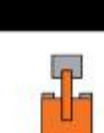

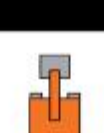

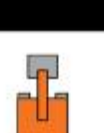
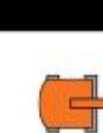
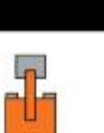

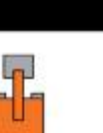

Unit: 1,000 lb. (1000 kg)

 Load Radius Over
 Front Load Radius Over Side

Feet

B ft \ A ft	5		10		15		20		25		30	
												
40												
35												
30												
25												
20												
15												
10					* 29.56	* 29.56	* 25.96	* 25.96	* 20.06	* 20.06	* 16.6	* 16.6
5					* 19.06	* 19.06	* 30.25	* 30.25	* 22.86	* 22.86	* 18.51	* 18.51
0 (GROUND)			* 11.75	* 11.75	* 18.52	* 18.52	* 32.76	32.18	* 25.13	23.93	* 20.18	18.78
-5	* 13.60	* 13.60	* 15.17	* 15.17	* 20.46	* 20.46	* 31.28	30.74	* 26.74	22.70	* 21.49	17.82
-10	* 16.80	* 16.80	* 18.64	* 18.64	* 23.42	* 23.42	* 32.81	30.04	* 27.72	21.96	* 22.39	17.17
-15	* 20.13	* 20.13	* 22.29	* 22.29	* 27.03	* 27.03	* 35.89	29.82	* 28.10	21.59	* 22.86	16.79
-20	* 23.63	* 23.63	* 26.21	* 26.21	* 31.24	* 31.24	* 35.22	29.95	* 27.91	21.53	* 22.87	16.66
-25	* 27.41	* 27.41	* 30.52	* 30.52	* 36.15	* 36.15	* 33.84	30.36	* 27.12	21.72	* 22.38	16.75
-30	* 31.55	* 31.55	* 35.38	* 35.38	* 40.81	* 40.81	* 31.66	31.04	* 25.63	22.16	* 21.28	17.05
-35	* 36.18	* 36.18	* 41.04	* 41.04	* 36.10	* 36.10	* 28.44	* 28.44	* 23.24	22.85	* 19.35	17.60
-40			* 39.38	* 39.38	* 29.57	* 29.57	* 23.73	* 23.73	* 19.51	* 19.51	* 16.06	* 16.06



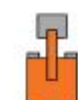
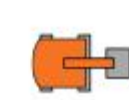
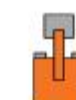







Metric

B m \ A m	1.5		3		4.5		6		7.5		9	
												
12												
10.5												
9												
7.5												
6												
4.5												
3					* 12.39	* 12.39	* 12.08	* 12.08	* 9.30	* 9.30	* 7.68	* 7.68
1.5					* 8.32	* 8.32	* 14.04	* 14.04	* 10.59	* 10.59	* 8.56	* 8.56
0 (GROUND)			* 5.27	* 5.27	* 8.20	* 8.20	* 14.28	* 14.28	* 11.62	11.08	* 9.33	8.70
-1.5	* 6.15	* 6.15	* 6.81	* 6.81	* 9.1	* 9.10	* 13.76	* 13.76	* 12.36	10.52	* 9.92	8.26
-3	* 7.57	* 7.57	* 8.36	* 8.36	* 10.44	* 10.44	* 14.49	13.95	* 12.80	10.19	* 10.34	7.96
-4.5	* 9.05	* 9.05	* 9.99	* 9.99	* 12.04	* 12.04	* 15.9	13.85	* 12.97	10.02	* 10.55	7.79
-6	* 10.61	* 10.61	* 11.72	* 11.72	* 13.90	* 13.90	* 16.26	13.91	* 12.89	9.99	* 10.57	7.73
-7.5	* 12.28	* 12.28	* 13.63	* 13.63	* 16.05	* 16.05	* 15.65	14.09	* 12.54	10.07	* 10.36	7.76
-9	* 14.11	* 14.11	* 15.76	* 15.76	* 18.6	* 18.6	* 14.69	14.40	* 11.89	10.26	* 9.88	7.89
-10.5	* 16.14	* 16.14	* 18.22	* 18.22	* 16.86	* 16.86	* 13.27	* 13.27	* 10.85	10.57	* 9.05	8.13
-12			* 18.75	* 18.75	* 14.01	* 14.01	* 11.23	* 11.23	* 9.25	* 9.25	* 7.66	* 7.66
-13.5									* 6.65	* 6.65		















*Hydraulically Limited

- Load point is the end of the arm.
- Capacities marked with an asterisk (*) are limited by hydraulic capacities.
- Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
- The least stable position is over the side.
- The total mass of machine includes the mass of the boom, arm, counterweight, all operating fluids and 165 lb. (75 kg) operator.
- Lift capacities are in compliance with ISO 10567.

Feet

35		40		45		50		55		MAX REACH		
												A ft
						* 6.23	* 6.23			* 6.05	* 6.05	50.19
						* 8.81	* 8.81			* 5.93	* 5.93	53.05
						* 9.10	* 9.10	* 6.29	* 6.29	* 5.88	* 5.88	55.31
						* 9.39	* 9.39	* 8.36	* 8.36	* 5.90	* 5.90	57.05
				* 10.23	* 10.23	* 9.79	* 9.79	* 9.50	8.58	* 6.00	* 6.00	58.32
		* 11.78	* 11.78	* 10.91	* 10.91	* 10.28	10.02	* 9.82	8.34	* 6.15	* 6.15	59.12
* 14.34	* 14.34	* 12.78	* 12.78	* 11.65	11.55	* 10.81	9.63	* 10.19	8.07	* 6.37	* 6.37	59.49
* 15.71	* 15.71	* 13.78	13.23	* 12.39	11.01	* 11.35	9.24	* 10.57	7.81	* 6.68	* 6.68	59.44
* 16.94	15.21	* 14.7	12.56	* 13.08	10.52	* 11.86	8.89	10.80	7.56	* 7.08	6.68	58.96
* 17.97	14.47	* 15.49	12.01	* 13.67	10.11	12.25	8.59	10.60	7.37	* 7.61	6.74	58.04
* 18.72	13.94	* 16.09	11.59	13.99	9.79	12.02	8.37	10.47	7.24	* 8.30	6.92	56.66
* 19.16	13.61	16.23	11.32	13.78	9.60	11.90	8.25			* 9.23	7.25	54.79
* 19.23	13.47	16.11	11.21	13.71	9.53	11.90	8.25			* 10.50	7.78	52.37
* 18.88	13.52	* 16.16	11.26	13.80	9.62					* 12.13	8.57	49.33
* 17.95	13.76	* 15.25	11.50	* 12.81	9.91					* 12.54	9.79	45.51
* 16.19	14.25	* 13.36	12.01							* 12.90	11.75	40.77
										* 13.07	* 13.07	34.61

Metric

10.5		12		13.5		15		16.5		18	18	MAX REACH		
														A ft
						* 3.37	* 3.37					* 2.74	* 2.74	15.41
						* 4.07	* 4.07					* 2.68	* 2.68	16.25
						* 4.14	* 4.14	* 3.41	* 3.41			* 2.67	* 2.67	16.92
						* 4.29	* 4.29	* 4.20	4.11			* 2.68	* 2.68	17.43
				* 4.69	* 4.69	* 4.48	* 4.48	* 4.33	4.02			* 2.72	* 2.72	17.79
		* 5.42	* 5.42	* 5.01	* 5.01	* 4.71	4.67	* 4.49	3.90	* 2.86	* 2.86	* 2.79	* 2.79	18.03
* 6.62	* 6.62	* 5.89	* 5.89	* 5.36	* 5.36	* 4.96	4.49	* 4.67	3.77	* 3.24	3.17	* 2.9	* 2.9	18.13
* 7.25	* 7.25	* 6.35	6.14	* 5.70	5.12	* 5.22	4.31	* 4.85	3.64	* 3.35	3.09	* 3.03	* 3.03	18.11
* 7.82	7.05	* 6.78	5.83	* 6.02	4.89	* 5.46	4.14	* 5.02	3.53			* 3.21	3.03	17.97
* 8.29	6.71	* 7.14	5.57	* 6.3	4.7	* 5.66	4.00	4.93	3.43			* 3.45	3.06	17.7
* 8.64	6.47	* 7.42	5.38	6.49	4.55	5.58	3.89	4.86	3.37			* 3.75	3.14	17.29
* 8.84	6.31	7.53	5.25	6.39	4.45	5.52	3.83	4.84	3.34			* 4.16	3.28	16.73
* 8.89	6.25	7.47	5.20	6.36	4.42	5.51	3.82					* 4.72	3.51	16.02
* 8.74	6.26	7.49	5.21	6.39	4.45	* 5.56	3.89					* 5.49	3.85	15.11
* 8.35	6.36	* 7.11	5.31	* 6.03	4.57							* 5.67	4.37	14.00
* 7.61	6.57	* 6.35	5.52									* 5.84	5.21	12.6
* 6.24	* 6.24											* 5.93	* 5.93	10.82
												* 5.75	* 5.75	8.39

*Hydraulically Limited

- Load point is the end of the arm.
- Capacities marked with an asterisk (*) are limited by hydraulic capacities.
- Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
- The least stable position is over the side.
- The total mass of machine includes the mass of the boom, arm, counterweight, all operating fluids and 165 lb. (75 kg) operator.
- Lift capacities are in compliance with ISO 10567.