



# HITACHI

## Zaxis

# 200/250/350

## Forester®

### Rated Engine

Zaxis 200 Forester, 147 hp (108 kW)

Zaxis 250 Forester, 173 hp (129 kW)

Zaxis 350 Forester, 247 hp (180 kW)

### Applications

Log Loader, Road Builder,  
Harvester, Delimber Carrier





# ULTRA SMOOTH Forester

The new Zaxis platform incorporates the newest from Hitachi and the newest from our Forester manufacturing plant: A purpose-built structure that's easy to customize for specific applications, thicker guarding, more storage space for tools and chainsaws, and a larger capacity fuel tank.

## Versatile

Factory-engineered for multiple applications with a wide variety of options.

## Durable

The undercarriage, mainframe, logging fronts, and forestry cabs are specially designed and purpose built to provide excellent durability in extreme forestry environment.

## Hydraulic Tilt Cab

Hydraulic tilt is standard with the 48" riser for quick and easy transportation.

## Fuel-Efficient

The Isuzu AA-6BG1T, CC-6BG1T, and AA-6HK1X engines meet Tier II non-road emissions regulations. The large fuel tank provides extending running time between fill-ups.

## Safety, Comfort, and Convenience

With scratch-resistant polycarbonate windows and minimal vertical bars, the new Zaxis cab allows the best visibility possible while still providing maximum protection and safety. Heater and air conditioning are standard. Available in side entry, side entry delimber, and rear entries with 48" or 72" cab risers. (72" riser is not available on the Zaxis 200.)

## Machine Information Center (MIC)

The Machine Information Center captures and stores vital machine performance data such as engine speeds, hydraulic temperatures, pump pressures, alarms and faults, hours of operation, and more. The data is downloadable through an mSeries Palm™ Pilot and is transferred to your PC. Special PC software interprets the data and generates valuable machine performance reports and graphs highlighting machine utilization, performance history, and more to help users improve productivity and profit.

## Heavy-Duty Undercarriage

Proven log loader design starting with a forged HD bearing tower and thick one-piece top and bottom plates. Several options of forestry-designed undercarriages are available to suit your application, including High and Wide. The 250 and the 350 are available in standard and heavy-duty high drawbar.



# THE FORESTER ADVANTAGE

## Cabs for High Production

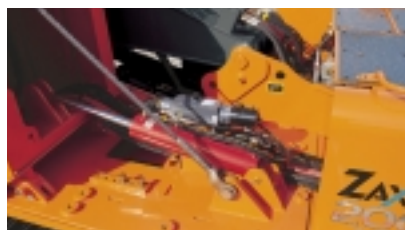
Hitachi purpose-built cabs are comfortable, easy to maintain, and extremely heavy-duty in order to meet all governmental regulations and to withstand tough forestry conditions. Side entry cab is mounted on 7" riser. A 48" riser with hydraulic tilt is available. Rear entry cabs are mounted on either a 48" or 72" integral riser, hydraulic tilt included. (72" riser is not available on the Zaxis 200.)

## Comfort

- Hitachi's fully adjustable suspension seat includes comfort features such as lumbar support, armrests, adjustable hand controls.
- Controls and gauges easy to read and laid out in a logical manner.

## The Factory-direct Advantage

You can receive, direct from the factory, a variety of standard fronts to meet your specific applications. Instead of relying on after-market dealer-installed fronts and attachments, your new Hitachi Forester can arrive complete from the factory with all attachments and most (if not all) options already installed.



All tilting riser-mounted cabs feature standard, hydraulic/electric tilt/raise. A weld down 7" non-tilt riser is also available.

Multiple access hatches



High and Wide loader configuration



## Built Specifically for the Woods

The Zaxis Forester models feature a purpose-built upperstructure design built on extensive in-the-field research with people like yourself.

- Increased use of thicker plate steel with less welding.
- Heavy-duty side doors.
- Cast bearing tower to eliminate welded joints, machined and tested for maximum bearing surface and to increase swing bearing life.
- All travel motors, chains, gears, guards are designed for extreme use with high side loading from working on side hills.
- Specially prepared hood to resist debris entry.
- A longer tail frame so that the counterweight is further back for increased stability as loads picked up are heavier or lifted higher.
- Double pedestal roller mounts provided as standard, with H/W undercarriages, with slides available. Now, we've made it easy to change from rollers to slides with precisely aligned bolt patterns.

Catwalks are designed into main frame and covered with slip-resistant material.



Zaxis Forester gives smooth, powerful, multi-function production all day long. A fuel-efficient engine and high capacity fuel tank allow weekly fill-ups.

## Stronger and Longer Main Frame

The upperstructure has been designed and built for forestry applications with thicker and longer frame rails and thicker, larger plates in the swing gear box area as compared to traditional excavator main frame.

The underbelly of the upperstructure is completely guarded with numerous removable panels to provide convenient service access. In addition, the underbelly guarding wraps up and around the sides of the upperstructure to form service walkways.

All underbelly access panel capscrews are guarded to prevent damage from forest debris.

The cab mount area has been strengthened and specifically designed to support standard and rear entry cabs with risers up to 72".

## Safety First

The Zaxis Forester is probably the smoothest handling, most precise machine built for the woods. The operator can make actions safer by being more in control.

The updated Zaxis cab features standard scratch-resistant polycarbonate window material, the hardest, safest option available. Cabs and cab doors are thicker to withstand tough forestry applications.

The integral protection provides superior visibility over other external guarding options.

The Zaxis Forester cab meets or exceeds all SAE, US OSHA, Oregon OSHA, and BC WCB requirements for forestry applications.

# THE FORESTER ADVANTAGE



Cab design both guards the operator and contributes to efficient operation through its comfortable, ergonomic layout.

## Heavy-Duty Undercarriage

- Zaxis 200 is available in three configurations: 7' 10" Standard, 9' 2" and 9' 7" High and Wide.
  - Extreme-duty hinged under-tower guard.
  - Full-length bolt-on ski-style track guides.
  - Uses recoil springs, drive motors, track and chain from the next size up machine.
  - The 250 and the 350 are both available in three basic configurations: standard, high drawbar and high wide drawbar.
- Standard** configuration provides additional ground clearance and width as compared to standard excavator offerings. The 250 offers 24 inches of ground clearance and an overall width of 11' 2" when equipped with 28" pads. Undercarriage components are 230 size, drawbar is 44,420 pounds. The 350 offers 28" ground clearance and overall width of 11' 2" when equipped with 28" pads. Undercarriage components are 330 size, drawbar is 56,086 pounds. This undercarriage is intended for use in road builder, delimeter, and processor applications where stump-to-stump travel IS NOT encountered.

**High Drawbar** option, in addition to increased ground clearance and overall width, provides increased drawbar pull and larger size undercarriage components. The 250 uses 330 components providing 56,086 pounds of drawbar, ground clearance of 28" and 11' 2" width on 28" pads. The 350 uses 450 size undercarriage components providing 79,560 pounds drawbar, 28" ground clearance and overall width of 11' 2" on 28" pads. Both the 250 and 350 offer a high wide undercarriage that is 11' 11" wide on 28" pads. This undercarriage is intended for use in log-loading and shovel-logging applications.

## Aggressive Guarding

The Hitachi Forester design features one of the most aggressive guarding packages of any competitive manufacturer. Each machine is outfitted with rock guards, belly pan, travel motor guards, log deflector, heavy-duty side guard doors, positive locking latches, fuel/hydraulic access guarding, and a forestry cab.



## Comfortable, Efficient Operator's Station

Standard, thermostatically controlled air conditioner with 20,000 BTR/hr. (5.9 kW) capacity. Automatic engine control matches engine/hydraulic output. Four work modes. Anti-drift valve for boom down, spring-applied, hydraulically released automatic swing brake. Dynamic swing-dampening for maximum boom positioning control.

## High Swing Torque Option

The swing torque on the 250 has been increased on the log loaders from 54,000 to 79,500 lb. (larger swing motor is included when the log loader fronts are added)

The 350 with a dual swing option is available for shovel-logging applications. This option increases the swing torque from 82,800 foot pounds to 109,500 foot pounds.

## Machine Information Center (MIC)

Zaxis Forester models are delivered standard with Hitachi's MIC. The system monitors and stores a variety of operational data, including: hours of operation, engine speed distribution, average pump pressures for work and travel modes, radiator coolant temperatures, fuel level, swing-travel – and front operation, alarms given and error records. This information can be downloaded in the field to a palm-type computer and then uploaded and manipulated in your office PC for analysis and record-keeping.



Zaxis Forester provides you with leading edge hydraulic pumps that provide great, quick, multi-function response.



Road Builder configuration with purpose-built upperstructure.

## Hitachi Quality, Zaxis Performance

Hitachi builds one of the very finest excavators in the world. The Hitachi brand is renowned for fuel efficiency, smooth hydraulic operation, and long-life durability.

The Zaxis generation of Hitachi Forestry models represents the very best in productivity and efficiency with highly refined, computer chip-controlled engine/hydraulic performance matching improved upperstructure, main frame and cab designs.



SPEC SUMMARY

ENGINE	200	250	350
Type	Isuzu AA-6BG1T turbo charged, intercooled, 4 cycle, water cooled, direct injection	Isuzu CC-6BG1T turbo charged, intercooled, 4 cycle, water cooled, direct injection	Isuzu AA-6HK1X turbo charged, intercooled, 4 cycle, water cooled, direct injection
Rated power	H/P Mode, 147 hp (108 kW) @ 2,100 rpm P Mode, 137 hp (101 kW) @ 2,100 rpm	H/P Mode, 173 hp (129 kW) @ 2,150 rpm P Mode, 165 hp (123 kW) @ 2,050 rpm	H/P Mode, 247 hp (180 kW) @ 2,000 rpm P Mode, 237 hp (173 kW) @1,900 rpm
Cylinders	6	6	6
Displacement	396 in³ (6.494 L)	396 in³ (6.494 L)	475 in³ (7.790 L)
Maximum net torque	405 lb•ft (56 kgf•m)	470 lb•ft (65 kgf•m)	644 lb•ft (89 kgf•m) @ 1,700 rpm
Fuel consumption, typical	4.0 to 6.0 gal/hr (15.1 to 22.7 L/h)	5.0 to 7.5 gal/hr (19.0 to 28.0 L/h)	6 to 10 gal/hr (23 to 38 L/h)
Electrical system	24 volt with 50-amp alternator	24 volt with 50-amp alternator	24 volt with 45-amp alternator
Batteries (two 12 volt)	reserve capacity: 180 min	reserve capacity: 180 min	reserve capacity: 180 min

HYDRAULIC SYSTEM

Main pumps	Two variable-displacement axial-piston	Two variable-displacement axial-piston	Two variable-displacement axial-piston open center
Maximum flow	2 x 57.9 gpm (2 x 219 L/min.)	2 x 57.9 gpm (2 x 219 L/min.)	2 x 77 gpm (2 x 292 L/min.)
System operating pressure			
Implement circuits	4,980 psi (34 336 kPa)	4,980 psi (34 336 kPa)	4,624 psi (31 880 kPa)
Travel circuits	4,980 psi (34 336 kPa)	4,980 psi (34 336 kPa)	5,050 psi (34 820 kPa)
Swing circuits	4,410 psi (30 406 kPa)	4,270 psi (29 441 kPa)	4,340 psi (29 920 kPa)
Power boost	5,270 psi (36 336 kPa)	5,270 psi (36 336 kPa)	–
Oil filtration	One full-flow return filter / full-flow swing and travel motor	One 10-micron full-flow return filter with by-pass /one pilot oil filter / one suction filter	One 10-micron full-flow return filter with by-pass / one pilot oil filter / one suction filter
	drain line filter / one suction filter		

SWING MECHANISM	Road Builder	Log Loader		High Swing Torque Option	
Swing speed .....	13.3 rpm	12.6 rpm	10.6 rpm	11.6 rpm	9.2 rpm
Swing torque .....	43,218 lbf.	51,600 lbf.	79,500 lbf.	82,800 lbf.	109,500 lbf.
.....	(58.6 kNm)	(70.0 kNm)	(107.8 kNm)	(112.4 kNm)	(148.5 kNm)

UNDERCARRIAGE	Standard	High-Drawbar	Standard	High-Drawbar
			8' 10" (2.69 m)	8' 10" (2.69 m)/9' 7" (2.92 m)
Travel speed maximum	0–3.4 mph (0–5.5 kph))	0–3.4 mph (0–5.5 kph)	0–3.0 mph (0–4.9 kph)	0–3.4 mph (0–5.5 kph)
Drawbar pull	44,420 lb (20 150 kg)	44,420 lb (20 150 kg)	56,074 lb (25 435 kg)	79,590 lb (36 101 kg)

CAPACITIES	Standard	High-Drawbar	Standard U/D	High-Drawbar U/D
			8' 10" (2.69 m)	8' 10" (2.69 m)/9' 7" (2.92 m)
Fuel tank	269 gal (1 018 L)	269 gal (1 018 L)	269 gal (1018 L)	269 gal (1018 L)
Cooling system	25 qt. (23.5 L)	25 qt. (23.5 L)	58.5 qt. (55.4 L)	25 qt. (23.5 L)
Engine lubrication, including filter	20 qt. (23.5 L)	26 qt. (24.5 L)	32 qt. (30 L)	32 qt. (30 L)
Hydraulic tank	34 gal (130 L)	39 gal (148 L)	85 gal (322 L)	85 gal (322 L)
Propel gearbox (each)	5.5 qt (5.2 L)	5.5 qt (5.2 L)	8 qt (7 L)	9.5 qt (9 L)
Swing drive	5.0 qt. (4.7 L)	8.0 qt (7.6 L)	15 qt (14 L)	15 qt (14 L)

OPERATING WEIGHTS – DELIMBER CARRIER

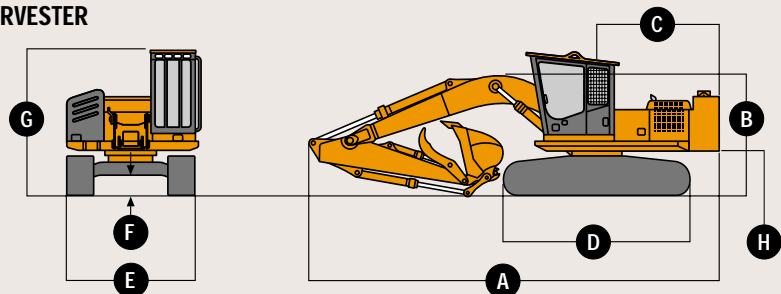
	Standard	High-Drawbar	Standard	High-Drawbar
			8' 10" (2.69 m)	8' 10" (2.69 m)
Operating weight (standard)	47,600 lb. 94 in. gauge (21 590 kg)	55,600 lb. (25 220 kg)	60,600 lb. (27 488 kg)	72,000 lb. (35 233 kg)
(optional)	50,900 lb. (23 090 kg) 110 in. gauge	–	–	–

ROAD BUILDER / HARVESTER GROUND PRESSURE DATA	Standard	High-Drawbar	Standard	High-Drawbar
			8' 10" (2.69 m)	8' 10" (2.69 m)/9' 7" (2.92 m)
Average ground pressure with 28 in. (711 mm) double-bar grouser shoes	7.1 psi (49.0 kPa)	–	–	–
With high-drawbar undercarriage and 10' 2" (3.10 m) arm	–	8.0 psi (55.2 kPa)	–	9.1 psi (62.4 kPa)
With high-drawbar undercarriage and 8' 10" (2.69 m) arm	–	–	–	9.8 psi (68.0 kPa)

ROAD BUILDER / HARVESTER OPERATING WEIGHTS –	Standard	High-Drawbar	Standard U/D	High-Drawbar U/D
			8' 10" (2.69 m)	8' 10" (2.69 m)/9' 7" (2.92 m)
Operating Weight (less bucket)	54,187 lb (24 579 kg)	65,500 lb (29 257 kg)	71,600 lb (32 472 kg)	85 700 lb (38 873 kg)
				91,375 lb (41 447 kg)

DIMENSIONS

200/250 ROAD BUILDER / HARVESTER



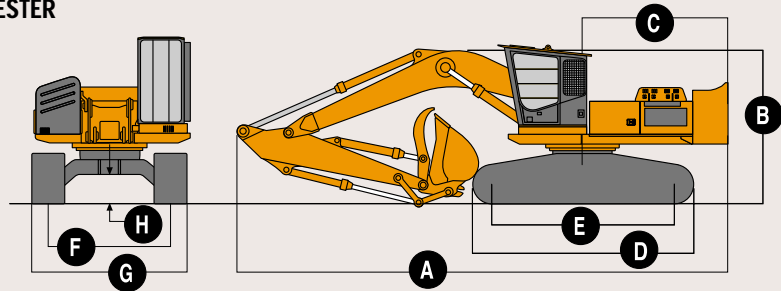
ROAD BUILDER / HARVESTER

DIMENSIONS 200	Standard	High and Wide (110 in.)	High and Wide (115 in.)
A Shipping length			
With 9 ft. 7 in. (2.92 m) arm	31 ft. 10 in. (9.69 m)	31 ft. 10 in. (9.69 m)	31 ft. 10 in. (9.69 m)
B Boom height			
With 9 ft. 7 in. (2.92 m) arm	9 ft. 9 in. (2.96 m)	9 ft. 9 in. (2.96 m)	9 ft. 9 in. (2.96 m)
C Tail swing	9 ft. 10 in. (3.00 m)	9 ft. 10 in. (3.00 m)	9 ft. 10 in. (3.00 m)
D Overall track length	14 ft. 8 in. (4.46 m)	14 ft. 8 in. (4.46 m)	14 ft. 8 in. (4.46 m)
E With 28 in. (711 mm) double-bar grouser shoes	10 ft. 6 in. (3.21 m)	11ft. 6 in. (3.51 m)	11 ft. 11 in. (3.63 m)
F Ground clearance	1 ft. 5 in. (455 mm)	2 ft. 4 in. (711 mm)	2 ft. 4 in. (711 mm)
G Height from ground to top of cab (not tilted)	11 ft. 2 in. (3.39 m)	12 ft. 2 in. (3.69 m)	12 ft. 2 in. (3.69 m)
H Height from ground to bottom of CWT (CWT swing clearance)	3 ft. 6 in. (1 056 mm)	4 ft. 6 in. (1 373 mm)	4 ft. 6 in. (1 373 mm)

ROAD BUILDER / HARVESTER

DIMENSIONS 250	Standard	High Drawbar	High and Wide
A Shipping length			
With 9 ft. 9 in. (2.96 m) arm	34 ft. 0 in. (10.36 m)	–	–
With 10 ft. 2 in. (3.10 m) arm	34 ft. 5 in. (10.49 m)	34 ft. 5 in. (10.49 m)	34 ft. 5 in. (10.49 m)
B Boom height			
With 9 ft. 9 in. (2.96 m) arm	10 ft. 11 in. (3.30 m)	–	–
With 10 ft. 2 in. (3.10 m) arm	11 ft. 5 in. (3.48 m)	11 ft. 5 in. (3.48 m)	11 ft. 5 in. (3.48 m)
C Tail swing	10 ft. 8 in. (3.25 m)	10 ft. 8 in. (3.25 m)	10 ft. 8 in. (3.25 m)
D Overall track length	15 ft. 4 in. (4.68 m)	15 ft. 4 in. (4.68 m)	15 ft. 4 in. (4.68 m)
E With 28 in. (711 mm) double-bar grouser shoes	11 ft. 3 in. (3.43 m)	11 ft. 3 in. (3.43 m)	11 ft. 11 in. (3.63 m)
F Ground clearance	2 ft. 0 in. (610 mm)	2 ft. 4 in. (711 mm)	2 ft. 4 in. (711 mm)
G Height from ground to top of cab (not tilted)	12 ft. 0 in. (3.63 m)	12 ft. 5 in. (3.78 m)	12 ft. 5 in. (3.78 m)
H Height from ground to bottom of CWT (CWT swing clearance)	4 ft. 4 in. (1 321 mm)	4 ft. 9 in. (1 450 mm)	4 ft. 9 in. (1 450 mm)

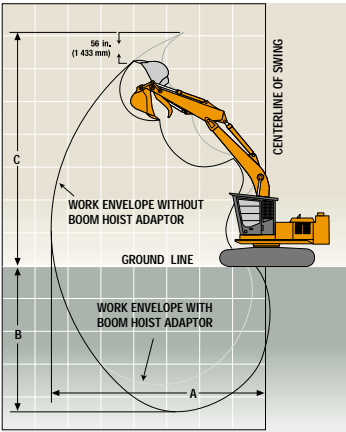
350 ROAD BUILDER / HARVESTER



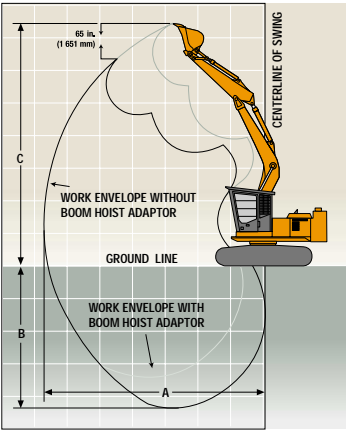
ROAD BUILDER / HARVESTER

DIMENSIONS 350	Standard U/D	High Drawbar U/D
	8' 10" (2.69 m)	8' 10" (2.69 m)
A Shipping length	36 ft. 6 in. (11.11 m)	36 ft. 6 in. (11.11 m)
B Operating position	12 ft. 7 in. (3.83 m)	12 ft. 7 in. (3.83 m)
C Tail swing	11 ft. 9 in. (3.58 m)	11 ft. 9 in. (3.58 m)
D Overall track length	16 ft. 2 in. (4.93 m)	16 ft. 7 in. (5.06 m)
E Idler to sprocket distance	13 ft. 3 in. (4.04 m)	13 ft. 3 in. (4.04 m)
F Track gauge	8 ft. 10 in. (2.69 m)	8 ft. 10 in. (2.69 m)
G Overall undercarriage		
width 28 in. (711 mm) pads	11 ft. 2 in. (3.40 m)	11 ft. 2 in. (3.40 m)
H Ground clearance	28 in. (711 mm)	28 in. (711 mm)

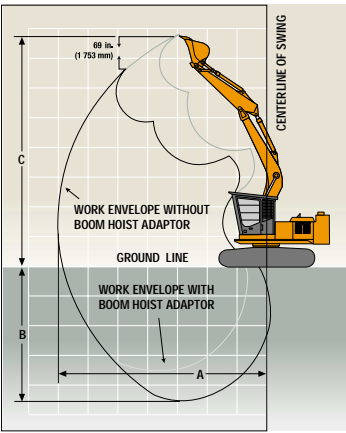
WORKING RANGES



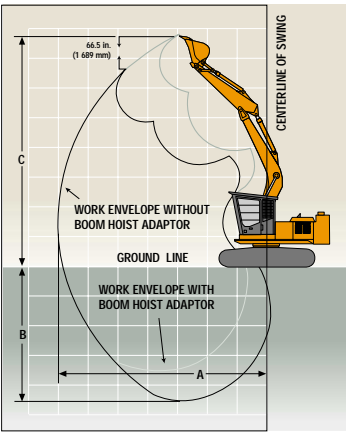
200 ROAD BUILDER / HARVESTER



250 ROAD BUILDER / HARVESTER 9' 9" (2.91 m) arm



250 ROAD BUILDER / HARVESTER 10' 92" (3.10 m) arm



350 ROAD BUILDER / HARVESTER 10' 6" (3.20 m) arm

ROAD BUILDER / HARVESTER

WORKING RANGES 200

Lifting capacity over front @		
ground level 20 ft. (6.1 m) reach*	26,160 lbs. (7 330 kg)	—
A Maximum reach @ ground level	32 ft. 6 in. (9.91 m)	—
	Without lift adaptors	With lift adaptors
B Maximum depth below ground	21 ft. 11 in. (6.68 m)	17 ft. 3 in. (5.26 m)
C Maximum height	31 ft. 6 in. (9.60 m)	36 ft. 2 in. (11.02 m)
*Maximum lift force with Power Boost.		

ROAD BUILDER / HARVESTER

WORKING RANGES 250

	9' 9" (2.69 m) arm		10' 2" (3.10 m) arm	
Lifting capacity over front @				
ground level 20 ft. (6.1 m) reach*	19,400 lbs. (8 800 kg)	—	22,640 lbs. (10 570 kg)	—
A Maximum reach @ ground level	33 ft. 8 in. (10.26 m)	—	35 ft. 2 in. (10.71 m)	—
	Without lift adaptors	With lift adaptors	Without lift adaptors	With lift adaptors
B Maximum depth below ground	22 ft. 0 in. (6.70 m)	18 ft. 3 in. (5.56 m)	23 ft. 1 in. (7.03 m)	17 ft. 4 in. (5.28 m)
C Maximum height	32 ft. 5 in. (9.88 m)	37 ft. 5 in. (11.40 m)	34 ft. 6 in. (10.51 m)	40 ft. 3 in. (12.27 m)
*Maximum lift force with Power Boost.				

ROAD BUILDER / HARVESTER

WORKING RANGES 350

Lifting capacity over front @		
ground level 20 ft. (6.1 m) reach*	31,020 lbs. (14 070 kg)	—
A Maximum reach @ ground level	36 ft. 5 in. (11.10 m)	—
	Without lift adaptors	With lift adaptors
B Maximum depth below ground	23 ft. 1 in. (7.03 m)	17 ft. 6 in. (5.33 m)
C Maximum height	34 ft. 7 in. (10.54 m)	40 ft. 2 in. (12.24 m)
*Maximum lift force with Power Boost.		

LIFTING CAPACITIES

200 LIFT CAPACITIES – ROAD BUILDER / HARVESTER

**Boldface italic** Boldface italic type indicates hydraulic-limited capacities with Power Boost on; lightface type indicates stability-limited capacities, in lb. (kg). Machine situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

With 9 ft. 6 in. arm, 7ft. 10 in. GA U/D with 28 in. shoes. Lift capacities in 1,000 lbs. (1 000 kg)

Load Point Height	10 ft. (3.05 m)		15 ft. (4.57 m)		20 ft. (6.10 m)		25 ft. (7.62 m)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
20 ft. (6.10 m)					9.11 (4.13)	9.11 (4.13)		
15 ft. (4.57 m)					10.28 (4.66)	10.28 (4.66)	10.12 (4.59)	8.49 (3.85)
10 ft. (3.05 m)			15.1 (6.85)	15.1 (6.85)	12.22 (5.54)	11.39 (5.17)	10.95 (4.97)	8.26 (3.75)
5 ft. (1.52 m)			19.95 (9.05)	15.90 (7.21)	14.5 (6.58)	10.80 (4.90)	12.04 (5.46)	7.97 (3.61)
Ground Line			22.81 (10.34)	15.16 (6.88)	16.16 (7.33)	10.35 (4.78)	11.77 (5.34)	7.73 (3.51)
–5 ft. (–1.52 m)	15.11 (6.85)	15.11 (6.85)	23.44 (10.63)	14.94 (6.78)	15.91 (7.22)	10.12 (4.59)	11.62 (5.27)	7.60 (3.45)
–10 ft. (–3.05 m)	26.28 (11.92)	26.28 (11.92)	22.44 (10.18)	15.01 (6.81)	15.90 (7.21)	10.11 (4.59)	11.67 (5.29)	7.64 (3.46)
–15 ft. (–4.57 m)	26.32 (11.94)	26.32 (11.94)	19.52 (8.85)	15.34 (6.96)	14.54 (6.59)	10.36 (4.70)		

Notes: Lift capacity ratings are based on SAE Standard J1097. Capacities shown are 87 percent in hydraulic or 75 percent in stability over front and side.

\*Hydraulic limited capacities with Power Boost. Lifting point is at the heel to grapple pin.

250 LIFT CAPACITIES – ROAD BUILDER / HARVESTER (230 FRONT)

**Boldface italic** Boldface italic type indicates hydraulic-limited capacities with Power Boost on; lightface type indicates stability-limited capacities, in lb. (kg). Machine situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

With 9 ft. 9 in. (2.96 m) arm, 8 ft. 10 in. GA U/D with 28 in. shoes. Lift in 1,000 lbs. (1 000 kg)

Load Point Height	10 ft. (3.05 m)		15 ft. (4.57 m)		20 ft. (6.10 m)		25 ft. (7.62 m)		30 ft. (9.14 m)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
20 ft. (6.10 m)							*9.97 (4.52)	*9.97 (4.52)		
15 ft. (4.57 m)					*12.12 (5.50)	*12.12 (5.50)	*11.53 (5.23)	10.54 (4.78)		
10 ft. (3.05 m)			*18.97 (8.60)	*18.97 (8.60)	*14.63 (6.60)	14.04 (6.50)	12.72 (5.77)	10.15 (4.60)	*8.80 (4.00)	7.69 (3.49)
5 ft. (1.52 m)			*24.67 (11.20)	19.38 (8.80)	*17.36 (7.90)	13.18 (6.00)	*14.15 (6.42)	9.71 (4.40)	*10.84 (4.92)	7.50 (3.40)
Ground Line			*27.35 (12.40)	18.52 (8.40)	*19.40 (8.80)	12.56 (5.70)	14.07 (6.38)	9.36 (4.24)	*10.80 (4.90)	7.33 (3.32)
–5 ft. (–1.52 m)	*14.69 (6.70)	*14.69 (6.70)	*27.56 (12.50)	18.34 (8.30)	19.08 (8.65)	12.27 (5.56)	13.85 (6.28)	9.16 (4.15)		
–10 ft. (–3.05 m)	*22.49 (10.20)	*22.49 (10.20)	*26.21 (11.90)	18.48 (8.40)	19.07 (8.65)	12.26 (5.56)	13.87 (6.29)	9.18 (4.16)		
–15 ft. (–4.57 m)	*30.39 (13.78)	*30.39 (13.78)	*23.00 (10.40)	18.91 (8.60)	*17.57 (7.97)	12.55 (5.69)				

Notes: Lift capacity ratings are based on SAE Standard J2417. Capacities shown are 87 percent in hydraulic or 75 percent in stability over front and side.

\*Hydraulic limited capacities with Power Boost. Lifting point is at the heel to grapple pin.

250 LIFT CAPACITIES – ROAD BUILDER / HARVESTER (270 FRONT)

**Boldface italic** Boldface italic type indicates hydraulic-limited capacities with Power Boost on; lightface type indicates stability-limited capacities, in lb. (kg). Machine situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

With 10 ft. 2 in. (3.10 m) arm, 8 ft. 10 in. GA U/D with 28 in. shoes. Lift in 1,000 lbs. (1 000 kg)

Load Point Height	10 ft. (3.05 m)		15 ft. (4.57 m)		20 ft. (6.10 m)		25 ft. (7.62 m)		30 ft. (9.14 m)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
20 ft. (6.10 m)							12.00 (5.44)	12.00 (5.44)		
15 ft. (4.57 m)							12.84 (5.82)	12.24 (5.55)	9.01 (4.09)	9.01 (4.09)
10 ft. (3.05 m)			21.99 (9.97)	21.99 (9.97)	16.70 (7.57)	16.19 (7.34)	14.44 (6.55)	11.77 (5.34)	12.73 (5.77)	8.99 (4.08)
5 ft. (1.52 m)			28.94 (13.12)	22.32 (10.12)	20.09 (9.11)	15.22 (6.90)	16.28 (7.38)	11.27 (5.11)	13.57 (6.15)	8.74 (3.96)
Ground Line			26.27 (11.91)	21.44 (9.97)	22.64 (10.57)	14.54 (6.59)	17.24 (7.82)	10.86 (4.93)	13.34 (6.05)	8.53 (3.87)
–5 ft. (–1.52 m)	13.72 (6.22)	13.72 (6.22)	32.59 (16.14)	21.27 (9.65)	23.51 (10.66)	14.23 (6.45)	16.98 (7.70)	10.63 (4.82)	12.81 (5.81)	8.44 (3.83)
–10 ft. (–3.05 m)	24.08 (10.92)	24.08 (10.92)	31.40 (14.24)	21.42 (9.71)	23.49 (10.65)	14.21 (6.44)	16.96 (7.57)	10.62 (4.82)		
–15 ft. (–4.57 m)	36.46 (16.54)	36.46 (16.54)	28.34 (12.85)	21.85 (9.91)	21.74 (9.86)	14.48 (6.57)				
–20 ft. (6.10 m)			21.69 (9.84)	21.69 (9.84)						

Notes: Lift capacity ratings are based on SAE Standard J1097. Capacities shown are 87 percent in hydraulic or 75 percent in stability over front and side.

\*Hydraulic limited capacities with Power Boost. Lifting point is at the heel to grapple pin.

350 LIFT CAPACITIES – ROAD BUILDER / HARVESTER

**Boldface italic** Boldface italic type indicates hydraulic-limited capacities with Power Boost on; lightface type indicates stability-limited capacities, in lb. (kg). Machine situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

With 10 ft. 6 in. arm, 8 ft. 10 in. GA U/D with 28 in. shoes. Lift in 1000 lbs. (1 000 kg)

Load Point Height	10 ft. (3.05 m)		15 ft. (4.57 m)		20 ft. (6.10 m)		25 ft. (7.62 m)		30 ft. (9.14 m)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
20 ft. (6.10 m)							17.14 (7.89)	17.14 (7.89)	11.98 (5.43)	11.98 (5.43)
15 ft. (4.57 m)							18.67 (8.47)	17.18 (7.79)	17.49 (7.93)	13.10 (5.94)
10 ft. (3.05 m)			35.16 (15.95)	32.84 (14.89)	25.18 (11.42)	22.30 (10.10)	20.82 (9.44)	16.45 (7.46)	18.49 (8.39)	12.75 (5.78)
5 ft. (1.52 m)					28.97 (13.14)	21.00 (9.52)	22.93 (10.40)	15.74 (7.14)	18.87 (8.56)	12.37 (5.61)
Ground Line			23.84 (10.81)	23.84 (10.81)	31.02 (14.07)	20.21 (9.17)	23.81 (10.80)	15.21 (6.90)	18.55 (8.41)	12.07 (5.47)
–5 ft. (–1.52 m)	19.35 (8.78)	19.35 (8.78)	22.45 (10.18)	22.45 (10.18)	31.11 (14.11)	19.91 (9.03)	23.52 (10.67)	14.95 (6.78)	18.40 (8.34)	11.93 (5.41)
–10 ft. (–3.05 m)	28.28 (12.83)	28.28 (12.83)	29.32 (13.30)	29.32 (13.30)	29.30 (13.29)	19.97 (9.06)	23.37 (10.60)	14.96 (6.78)		
–15 ft. (–4.57 m)	23.65 (10.73)	23.65 (10.73)	30.99 (14.05)	30.72 (13.93)	25.03 (11.35)	20.37 (9.24)	19.13 (8.68)	15.36 (6.97)		

Notes: Lift capacity ratings are based on SAE Standard J1097. Capacities shown are 87 percent in hydraulic or 75 percent in stability over front and side.

\*Hydraulic limited capacities with Power Boost. Lifting point is at the heel to grapple pin.

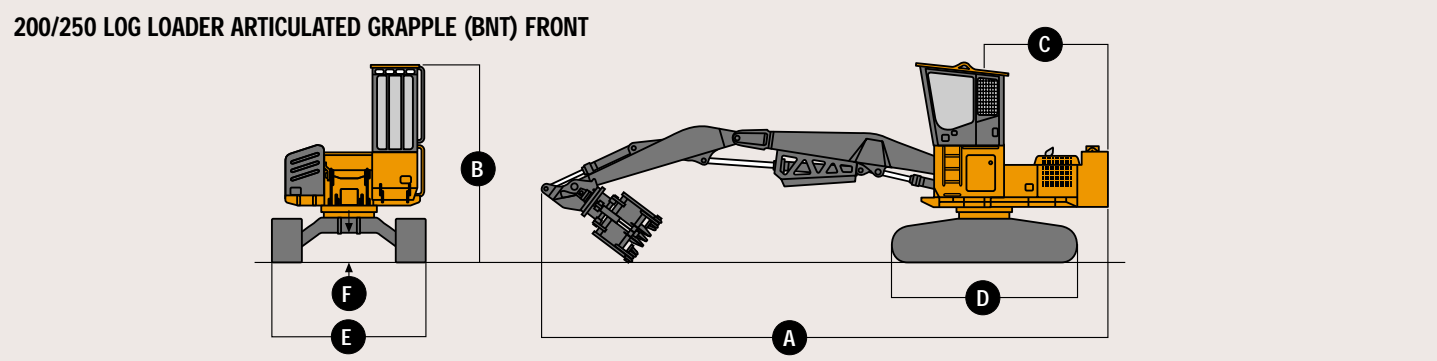
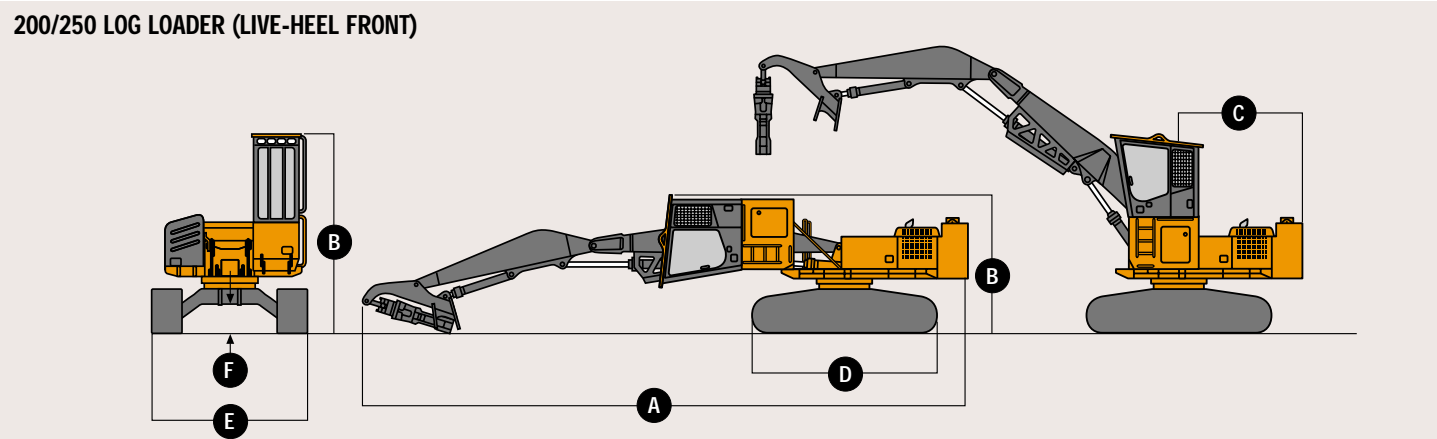




SPEC SUMMARY

LOG LOADER	200	250	350
GROUND PRESSURE DATA	Standard	High-Drawbar	Standard
Average ground pressure with 9 ft. 7 ft. (2.92 m) under-carriage and 28 in. (711 mm) double-bar grouser shoes .....8.4 psi (57.9 kPa)			
	–	9.5 psi (65.5 kPa)	–
			10.4 psi (71.7 kPa)
LOG LOADER			
OPERATING WEIGHTS –	Standard	High-Drawbar	Standard U/D
Operating Weight (less grapple) 9' 7" (2.92 m)			
Live heel front .....	69,187 lb. (31 383 kg)	–	83,370 lb. (37 816 kg)
Articulated grapple front .....	68,187 lb. (30 929 kg)	–	–
Butt-n-Top grapple front .....	–	–	81,510 lb. (36 972 kg)
Swamp shovel front .....	–	–	72,500 lb. (32 885 kg)

DIMENSIONS



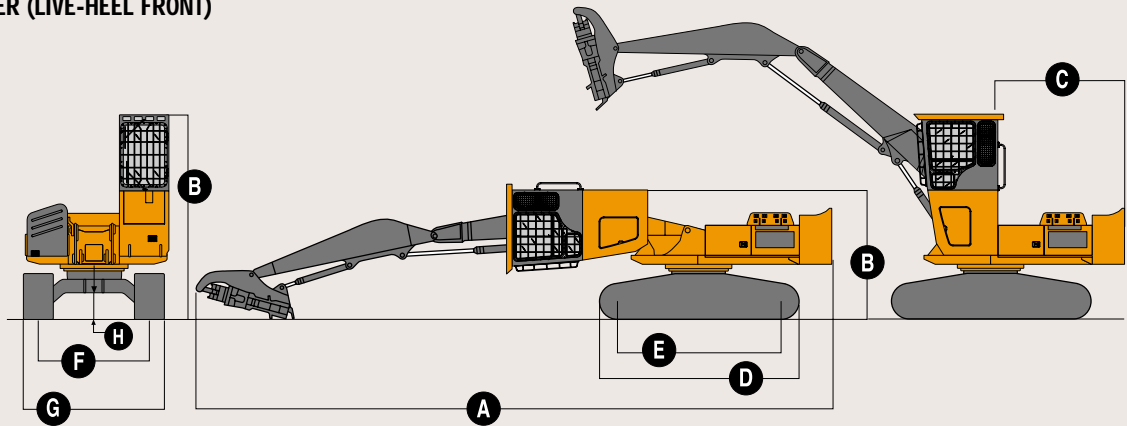
LOG LOADER (LIVE HEEL FRONT)	Live Heel Front (115 in. gauge)	Articulating Grapple (BNT) Front (110 in. gauge)
DIMENSIONS 200		
A Shipping length .....	45 ft. 0 in. (13.72 m)	46 ft. .5 in. (14.08 m)
B With 48 in. (1 219 mm) riser .....		
Operating position .....	15 ft. 5 in. (4.71 m)	15 ft. 5 in. (4.71 m)
Transport position .....	10 ft. 10 in. (3.31 m)	10 ft. 10 in. (3.31 m)
C Tail swing .....	9 ft. 10 in. (3.00 m)	9 ft. 10 in. (3.00 m)
D Overall track length .....	14 ft. 8 in. (4.46 m)	14 ft. 8 in. (4.46 m)
E With 28 in. (711 mm) double-bar grouser shoes .....	11 ft. 11 in. (3.63 m)	11 ft. 6 in. (3.5 m)
F Ground clearance .....	2 ft. 4 in. (711 mm)	2 ft. 4 in. (711 mm)

LOG LOADER (LIVE HEEL FRONT)	Standard	Swamp Logger	High and Wide
DIMENSIONS 250			
A Shipping length .....	–	46 ft. 2 in. (14.07 m)	50 ft. 7 in. (15.42 m)
B With 7 in. (178 mm) riser .....	–	12 ft. 5 in. (3.78 m)	–
With 48 in. (1 219 mm) riser .....	–	–	15 ft. 10 in. (4.83 m)
Operating position .....	–	–	11 ft. 3 in. (3.43 m)
Transport position .....	–	–	10 ft. 8 in. (3.25 m)
C Tail swing .....	–	10 ft. 8 in. (3.25 m)	10 ft. 8 in. (3.25 m)
D Overall track length .....	–	16 ft. 6 in. (5.03 m)	16 ft. 6 in. (5.03 m)
E With 28 in. (711 mm) double-bar grouser shoes .....	–	–	11 ft. 11 in. (3.63 m)
With 36 in. (914 mm) triple grouser pads .....	–	11 ft. 11 in. (3.63 m)	–
F Ground clearance .....	–	2 ft. 4 in. (710 mm)	2 ft. 4 in. (710 mm)

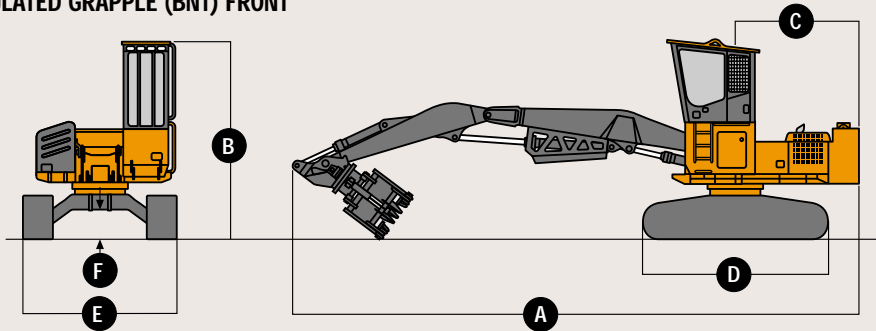
LOG LOADER ARTICULATING GRAPPLE (BNT) FRONT	High Drawbar	High and Wide
DIMENSIONS 250		
A Shipping length .....	–	48 ft. 2 in. (14.68 m)
B With 48 in. (1 219 mm) riser .....	–	15 ft. 10 in. (4.83 m)
Operating position .....	–	11 ft. 3 in. (3.43 m)
Transport position .....	–	18 ft. (5.48 m)
With 72 in. (1 829 mm) rear entry cab .....	–	10 ft. 8 in. (3.25 m)
C Tail swing .....	–	16 ft. 6 in. (5.03 m)
D Overall track length .....	–	–
E With 28 in. (711 mm) double-bar grouser shoes .....	–	11 ft. 11 in. (3.63 m)
F Ground clearance .....	–	2 ft. 4 in. (711 m)

DIMENSIONS

350 LOG LOADER (LIVE-HEEL FRONT)



350 LOG LOADER ARTICULATED GRAPPLE (BNT) FRONT

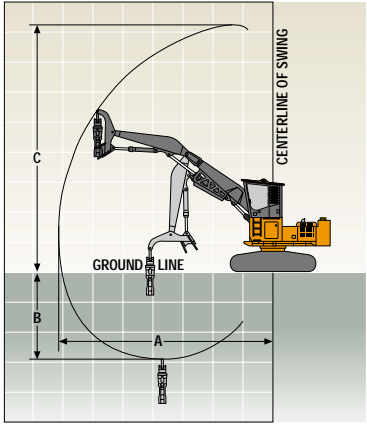


LOG LOADER (LIVE HEEL FRONT)

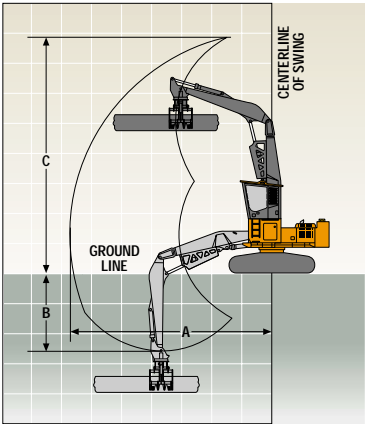
DIMENSIONS 350

	Live-Heel Front	Butt-n-Top Grapple Front
Side entry cab with 48 in. (1 219 mm) tilt riser or rear entry cab with 72 in. (1 829 mm) tilt riser, High Drawbar U/D, 9 ft. 7 in. (2.92 m)		
A Shipping length	54 ft. 8 in. (16.67 m)	51 ft. 8 in. (15.76 m)
B Operating position	18 ft. 0 in. (5.47 m)	18 ft. 0 in. (5.47 m)
With 48 in. (1 219 mm) riser	16 ft. 4 in. (4.96 m)	16 ft. 4 in. (4.96 m)
Transport position	11 ft. 7 in. (3.54 m)	11 ft. 7 in. (3.54 m)
C Tail swing	11 ft. 9 in. (3.56 m)	11 ft. 9 in. (3.56 m)
D Overall track length	16 ft. 9 in. (5.09 m)	16 ft. 9 in. (5.09 m)
E Idler to sprocket distance	13 ft. 3 in. (4.05 m)	13 ft. 3 in. (4.05 m)
F 9 ft. 7 in. (2.92 m) gauge high wide	9 ft. 7 in. (2.92 m)	9 ft. 7 in. (2.92 m)
G With 28 in. (711 mm) track shoes		
9 ft. 7 in. (2.92 m) gauge high wide	11 ft. 11 in. (3.62 m)	11 ft. 11 in. (3.62 m)
H Ground clearance	28 in. (711 mm)	28 in. (711 mm)

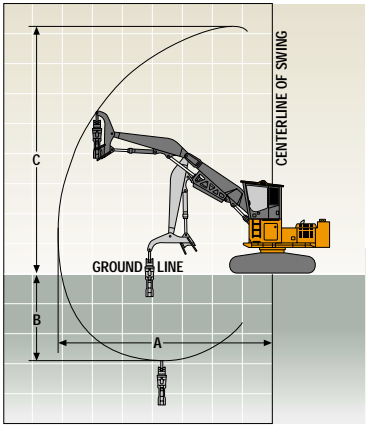
WORKING RANGES



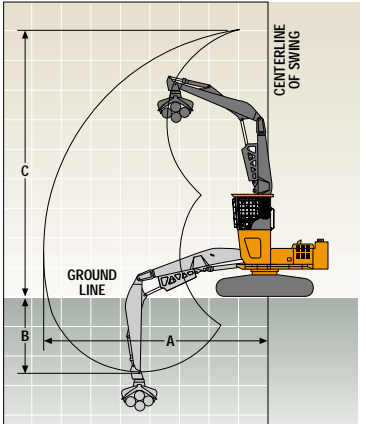
200/250 LIVE-HEEL FRONT



200/250 ARTICULATING GRAPPLE (BNT) FRONT



350 LIVE-HEEL FRONT



350 ARTICULATING GRAPPLE (BNT) FRONT

LOG LOADER

WORKING RANGES 200

	Live Heel	Articulating Grapple (BNT)
	Front Length	Front Length
Lifting capacity over front @		
ground level 20 ft. (6.1 m) reach*	21,100 lbs. (8 346 kg)	21,400 lbs. (9 700 kg)
A Maximum reach @ ground level	36 ft. (11.00 m)	34 ft. (10.36 m)
B Maximum depth below ground	21 ft. 3 in. (6.48 m)	19 ft. 3 in. (5.86 m)
C Maximum height	41 ft. 3 in. (12.57 m)	39 ft. 3 in. (11.96 m)
*Maximum lift force with Power Boost, grapple not included.		

LOG LOADER

WORKING RANGES 250

	Live Heel	Swamp Logger	Articulating Grapple (BNT)
	Front Length	Heeler Type	Front Length
Lifting capacity over front @			
ground level 20 ft. (6.1 m) reach*	28,400 lbs. (12 900 kg)	23,900 lbs. (10,800 kg)	29,500 lbs. (13 400 kg)
A Maximum reach @ ground level	40 ft. (12.19 m)	36 ft. 7 in. (11.15 m)	36 ft. (10.97 m)
B Maximum depth below ground	17 ft. (5.19 m)	15 ft. 7 in. (4.57 m)	17 ft. (5.18 m)
C Maximum height	46 ft. 5 in. (14.15 m)	43 ft. 6 in. (13.26 m)	42 ft. (12.92 m)
*Maximum lift force with Power Boost, grapple not included.			

LOG LOADER

WORKING RANGES 350

	Live Heel	Articulating Grapple (BNT)
	Front Length	Front Length
Lifting capacity over front @		
ground level 20 ft. (6.1 m) reach*	40,000 lbs. (18 100 kg)	40,500 lb (18 300 kg)
A Maximum reach @ ground level	43 ft. (13.10 m)	39 ft. (11.89 m)
B Maximum depth below ground	24 ft. 3 in. (7.4 m)	17 ft. 6 in. (5.3 m)
C Maximum height	49 ft. 5 in. (15.06 m)	45 ft. 5 in. (13.8 m)
*Maximum lift force with Power Boost, grapple not included.		



LIFTING CAPACITIES

200 LIFT CAPACITIES – LOG LOADER LIVE-HEEL FRONT (IIS IN. GAUGE)

**Boldface italic** Boldface italic type indicates hydraulic-limited capacities with Power Boost on; lightface type indicates stability-limited capacities, in lb. (kg). Machine situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

9 ft. 7 in. (2.92 m) GA. with 28 in. (71 cm) Shoes Lift capacities in 1,000 lbs. (1,000 kg)

Load Point	15 ft. (4.57 m)		20 ft. (6.10 m)		25 ft. (7.62 m)		30 ft. (9.14 m)		35 ft. (10.67 m)	
Height	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
35 ft. (10.67 m)	20.2 (9.2)	20.2 (9.2)	18.0 (8.3)	17.6 (8)						
30 ft. (9.14 m)			16.1 (7.3)	16.1 (7.3)	15.0 (6.8)	12.3 (5.6)				
25 ft. (7.62 m)			15.7 (7.1)	15.7 (7.1)	14.3 (6.5)	12.9 (5.9)	11.5 (5.2)	9.3 (4.2)		
20 ft. (6.10 m)			16.3 (7.4)	16.3 (7.4)	14.5 (6.6)	13 (5.9)	11.6 (5.3)	9.3 (4.2)		
15 ft. (4.75 m)			17.7 (8)	17.7 (8)	115.2 (6.9)	12.9 (5.9)	11.6 (5.3)	9.4 (4.3)		
10 ft. (3.05 m)			19.4(8.8)	18.1 (8.2)	15.6 (7.1)	12.6 (5.7)	11.6 (5.3)	9.4 (4.3)	9.1 (4.1)	7.3 (3.3)
5 ft. (1.52 m)			21.0 (9.5)	17.4 (7.9)	15.2 (6.9)	12.3 (5.6)	11.5 (5.2)	9.4 (4.3)	9 (4.1)	7.2 (3.3)
Ground			21.1 (9.6)	16.8 (7.6)	15 (6.8)	12 (5.4)	11.3 (5.1)	8.9 (4)	9 (4.1)	7.2 (3.3)
–5 ft. (–1.52 m)			20.0 (9.1)	16.4 (7.4)	14.7 (6.7)	11.8 (5.4)	11.2 (5.4)	9 (4.1)		
–10 ft. (–3.05 m)			16.4 (7.4)	16.3 (7.4)	12.5 (5.7)	11.7 (5.3)	8.2 (3.7)	8.2 (4.3)		

Notes: Lift capacity ratings are based on SAE Standard J2417. \*Hydraulic limited capacities with Power Boost. Lifting point is at the heel to grapple pin.

200 LIFT CAPACITIES – LOG LOADER ARTICULATING GRAPPLE (BNT) FRONT

9 ft. 7 in. (2.92 m) GA. with 28 in. (71 cm) Shoes Lift capacities in 1,000 lbs. (1,000 kg)

Load Point	15 ft. (4.57 m)		20 ft. (6.10 m)		25 ft. (7.62 m)		30 ft. (9.14 m)		35 ft. (10.67 m)	
Height	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
35 ft. (10.67 m)	21.5 (9.8)	21.5 (9.8)								
30 ft. (9.14 m)			17.2 (7.8)	17.2 (7.8)						
25 ft. (7.62 m)			16.6 (7.5)	16.6 (7.5)	15.4 (7)	13.8 (6.3)				
20 ft. (6.10 m)			17.1 (7.8)	17 (7.8)	15.4 (7)	13.8 (6.3)	12.5 (5.7)	10.3 (4.7)		
15 ft. (4.75 m)	21.5 (9.8)	21.5 (9.8)	18.3 (8.3)	18.3 (8.3)	15.9 (7.2)	13.6 (6.2)	12.4(5.6)	10.2 (4.6)		
10 ft. (3.05 m)			20 (9.1)	18.5 (8.4)	16.2 (7.3)	13.2 (6)	12.2 (5.5)	10 (4.5)		
5 ft. (1.52 m)			21.4 (9.7)	17.8 (8.1)	15.7 (7.1)	12.8 (5.8)	12 (5.4)	9.8 (4.4)		
Ground	29.8 (13.5)	26.2 (11.9)	21.4 (9.7)	17.1 (7.8)	15.4 (7)	12.5 (5.7)	11.9 (5.4)	9.7 (4.4)		
–5 ft. (–1.52 m)	27.7 (12.6)	25.6 (11.6)	20.5 (9.3)	16.7 (7.6)	15.2 (6.9)	12.3 (5.6)	11.2 (5.1)	9.6 (4.4)		
–10 ft. (–3.05 m)	22.5 (10.2)	22.5 (10.2)	16.9 (7.7)	16.6 (7.5)	12.3 (5.6)	12.2 (5.5)				

Notes: Lift capacity ratings are based on SAE Standard J2417. \*Hydraulic limited capacities with Power Boost. Lifting point is at the heel to grapple pin.

250 LIFT CAPACITIES – LOG LOADER LIVE-HEEL FRONT

9 ft. 7 in. GA U/C. with 28 in. shoes. Lift in 1,000 lb. (1 000 kg)

Load Point	15 ft. (4.57 m)		20 ft. (6.10 m)		25 ft. (7.62 m)		30 ft. (9.14 m)		35 ft. (10.67 m)		40 ft. (12.19)	
Height	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
40 ft. (12.19 m)	23.2 (10.5)	23.2 (10.5)	17.3 (7.8)	17.3 (7.8)								
35 ft. (10.67 m)			20.1 (9.1)	20.1 (9.1)	16.1 (7.3)	16.1 (7.3)						
30 ft. (9.14 m)			19.5 (8.8)	19.5 (8.8)	18.3 (8.3)	18.1 (8.2)	14.4 (6.5)	13.4 (6.0)				
25 ft. (7.62 m)			18.1 (8.2)	18.1 (8.2)	18.3 (8.3)	18.3 (8.3)	16.4 (7.4)	13.2 (5.9)	11.4 (5.0)	10.4 (4.7)		
20 ft. (6.10 m)			20.5 (9.2)	20.5 (9.2)	19.0 (8.6)	18.3 (8.3)	16.7 (7.5)	13.3 (6.0)	14.1 (6.3)	10.2 (4.6)		
15 ft. (4.57 m)			17.0 (7.7)	17.0 (7.7)	17.1 (7.7)	17.1 (7.7)	13.1 (5.9)	14.1 (6.3)	10.2 (4.6)			
10 ft. (3.05 m)			18.2 (8.2)	18.2 (8.2)	21.2 (9.6)	17.4 (7.8)	17.6 (7.9)	12.9 (5.8)	14 (6.3)	10.2 (4.6)	9.8 (4.4)	8.0 (3.6)
5 ft. (1.52 m)			27.5 (12.4)	24.1 (10.9)	22.0 (9.97)	16.8 (7.62)	17.6 (7.9)	12.7 (5.7)	13.8 (6.2)	10.0 (4.6)	11.1 (5.0)	7.9 (3.6)
Ground Line			28.4 (12.8)	22.8 (10.3)	21.9 (9.9)	16.4 (7.4)	17.3 (7.8)	12.4 (5.6)	13.6 (6.1)	9.7 (4.3)		
–5 ft. (–1.52 m)			26.7 (12.1)	22.1 (10.0)	20.9 (9.4)	15.9 (7.2)	16.5 (7.4)	12.1 (5.4)	12.5 (5.6)	9.6 (4.3)		
–10 ft. (–3.05 m)			22.6 (10.2)	21.9 (9.93)	18.0 (8.1)	15.7 (7.1)	13.9 (6.3)	12.0 (5.4)	9.4 (4.2)	9.4 (4.2)		
–15 ft. (–4.57 m)					13.1 (5.9)	13.1 (5.9)						

Notes: Lift capacity ratings are based on SAE Standard J1097. \*Hydraulic limited capacities with Power Boost. Lifting point is at the heel to grapple pin.

250 LIFT CAPACITIES – SWAMP LOG LOADER (HEELER TYPE)

8 ft. 10 in. GA U/C. with 28 in. shoes. Lift in 1,000 lb. (1 000 kg)

Load Point	15 ft. (4.57 m)		20 ft. (6.10 m)		25 ft. (7.62 m)		30 ft. (9.14 m)		35 ft. (10.67 m)	
Height	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
35 ft. (10.67 m)	21.1 (9.6)	21.1 (9.6)	19.1 (8.7)	19.1 (8.7)						
30 ft. (9.14 m)			17.5 (7.9)	17.5 (7.9)	16.2 (7.4)	13.9 (6.3)				
25 ft. (7.62 m)			17.5 (7.9)	17.5 (7.9)	15.9 (7.2)	14.2 (6.4)	14.5 (6.6)	10.2 (4.8)		
20 ft. (6.10 m)			18.4 (8.3)	18.4 (8.3)	16.3 (7.4)	14.2 (6.4)	14.4 (6.5)	10.4 (4.7)		
15 ft. (4.57 m)			20.2 (9.2)	20.1 (9.1)	17.1 (7.8)	14.0 (6.4)	14.7 (6.7)	10.4 (4.7)	12.3 (5.6)	8.2 (3.7)
10 ft. (3.05 m)			22.2 (10.1)	19.4 (8.8)	18.0 (8.2)	13.7 (6.2)	15.0 (6.8)	10.3 (4.7)	12.2 (5.5)	8.1 (3.7)
5 ft. (1.52 m)			23.7 (10.8)	18.6 (8.4)	18.6 (8.4)	13.4 (6.1)	15.0 (6.8)	10.2 (4.6)	12.0 (5.4)	8.0 (3.6)
Ground Line			23.9 (10.8)	18.0 (8.2)	18.6 (8.4)	13.1 (5.9)	14.6 (6.6)	10.0 (4.5)	10.7 (4.9)	7.9 (3.6)
–5 ft. (–1.52 m)			22.0 (10.0)	17.7 (8.0)	17.7 (8.0)	12.8 (5.8)	13.0 (5.9)	9.8 (4.4)		
–10 ft. (–3.05 m)			17.9 (8.1)	17.6 (8.0)	14.0 (6.4)	12.8 (5.8)	9.6 (4.4)			

Notes: Lift capacity ratings are based on SAE Standard J1097. Capacities shown are 87 percent in hydraulic or 75 percent in stability over front and side.

\*Hydraulic limited capacities with Power Boost. Lifting point is at the heel to grapple pin.

LIFTING CAPACITIES

250 LIFT CAPACITIES – LOG LOADER ARTICULATING GRAPPLE (BNT) FRONT

**Boldface italic** Boldface italic type indicates hydraulic-limited capacities with Power Boost on; lightface type indicates stability-limited capacities, in lb. (kg). Machine situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

9 ft. 7 in. GA U/C. with 28 in. shoes. Lift in 1,000 lb. (1 000 kg)

Load Point	15 ft. (4.57 m)		20 ft. (6.10 m)		25 ft. (7.62 m)		30 ft. (9.14 m)		35 ft. (10.67 m)	
Height	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
35 ft. (10.67 m)	24.1 (10)	24.1 (10)	20.4 (9.2)	20.4 (9.2)						
30 ft. (9.14 m)			22.6 (10)	22.6 (10)	19.0 (8.6)	19.0 (8.6)				
25 ft. (7.62 m)			23.4 (10)	23.4 (10)	21.0 (9.5)	19.6 (8.8)	16.2 (7.3)	14.5 (6.5)		
20 ft. (6.10 m)	22.5 (10)	22.5 (10)	24.5 (11)	24.5 (11)	21.4 (9.7)	19.4 (8.7)	19.0 (8.6)	14.6 (6.6)		
15 ft. (4.57 m)	26.0 (11)	26.0 (11)	26.4 (11)	26.4 (11)	22.3 (10)	19.0 (8.6)	19.2 (8.7)	14.4 (6.5)		
10 ft. (3.05 m)			28.6 (12)	25.5 (12)	23.2 (10)	18.4 (8.3)	18.9 (8.5)	14.1 (6.3)	15.0 (6.8)	11.2 (5.0)
5 ft. (1.52 m)			29.9 (13)	24.4 (11)	23.6 (10)	17.8 (8.0)	18.6 (8.4)	13.8 (6.2)	14.9 (6.7)	11.1 (5.0)
Ground Line	39.7 (18)	35.9 (16)	29.5 (13)	23.6 (10)	23.0 (10)	17.3 (7.8)	18.2 (8.3)	13.5 (6.1)	13.0 (5.8)	11.0 (4.9)
–5 ft. (–1.52 m)	35.1 (15)	35.1 (15)	26.9 (12)	23.2 (10)	20.9 (9.4)	17.1 (7.7)	15.9 (7.2)	13.4 (6.0)		
–10 ft. (–3.05 m)	27.5 (12)	27.5 (12)	21.9 (9.9)	21.9 (9.9)	16.8 (7.6)	16.8 (7.6)				

Notes: Lift capacity ratings are based on SAE Standard J1097. \*Hydraulic limited capacities with Power Boost. Lifting point is at the heel to grapple pin.

350 LIFT CAPACITIES – LOG LOADER LIVE-HEEL FRONT

9 ft. 7 in. GA. with 28 in. shoes. Lift in 1000 lbs. (1000 kg)

Load Point	15 ft. (4.57 m)		20 ft. (6.10 m)		25 ft. (7.62 m)		30 ft. (9.14 m)		35 ft. (10.67 m)		40 ft. (12.19)	
Height	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
40 ft. (12.19 m)	37.0 (16.7)	37.0 (16.7)	32.1 (14.5)	31.8 (14.4)	25.5 (11.5)	22.9 (10.3)						
35 ft. (10.67 m)			29.4 (13.3)	29.4 (13.3)	26.7 (12.1)	22.5 (10.2)	23.3 (10.5)	17.2 (7.80)				
30 ft. (9.14 m)			28.8 (13.0)	28.8 (13.0)	25.9 (11.7)	23.2 (10.5)	22.6 (10.2)	16.6 (7.52)	18.1 (8.21)	13.3 (6.0)		
25 ft. (7.62 m)			28.0 (12.7)	28.0 (12.7)	26.2 (11.8)	23.4 (10.6)	23.0 (10.4)	17.0 (7.71)	17.3 (7.84)	12.5 (5.6)		
20 ft. (6.10 m)			29.2 (13.2)	29.2 (13.2)	27.4 (12.4)	23.1 (10.4)	22.9 (10.3)	16.9 (7.66)	17.5 (7.93)	12.7 (5.7)	14.4 (6.53)	10.5 (4.7)
15 ft. (4.57 m)			35.2 (15.9)	32.6 (14.7)	29.1 (13.1)	22.5 (10.2)	22.6 (10.2)	16.6 (7.52)	17.7 (8.02)	12.9 (5.8)	14.4 (6.53)	10.5 (4.7)
10 ft. (3.05 m)			38.4 (17.4)	30.7 (13.9)	29.7 (13.4)	21.6 (9.7)	22.1 (10.0)	16.2 (7.3)	17.7 (8.02)	12.9 (5.8)	14.2 (6.44)	10.3 (4.6)
5 ft. (1.52 m)			40.4 (18.3)	29.2 (13.2)	28.9 (13.1)	20.9 (9.4)	22.0 (9.97)	16.0 (7.2)	17.4 (7.89)	12.6 (5.7)	14.1 (6.39)	10.1 (4.5)
Ground Line			40.0 (18.1)	28.2 (12.7)	28.4 (12.8)	20.4 (9.2)	21.6 (9.79)	15.6 (7.0)	17.1 (7.75)	12.3 (5.5)	13.9 (6.30)	10.0 (4.5)
–5 ft. (–1.52 m)			37.6 (17.0)	27.4 (12.4)	27.8 (12.6)	19.8 (8.9)	21.2 (9.61)	15.2 (6.8)	16.8 (7.62)	12.1 (5.4)	12.7 (5.76)	10.0 (4.5)
–10 ft. (–3.05 m)			31.7 (14.3)	27.2 (12.3)	25.9 (11.7)	19.6 (8.8)	20.6 (9.34)	15.1 (6.8)	15.2 (6.89)	12.1 (5.4)		
–15 ft. (–4.57 m)					19.3 (17.0)	19.3 (12.0)						

Notes: Lift capacity ratings are based on SAE Standard J1097. \*Hydraulic limited capacities with Power Boost. Lifting point is at the heel to grapple pin.

350 LIFT CAPACITIES – LOG LOADER ARTICULATING GRAPPLE (BNT) FRONT

9 ft. 7 in. GA. with 28 in. shoes. Lift in 1000 lbs. (1000 kg)

Load Point	15 ft. (4.57 m)		20 ft. (6.10 m)		25 ft. (7.62 m)		30 ft. (9.14 m)		35 ft. (10.67 m)	
Height	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
40 ft. (12.19 m)	38.4 (17.4)	38.4 (17.4)	29.2 (13.2)	29.2 (13.2)						
35 ft. (10.67 m)			32.5 (14.7)	32.5 (14.7)	28.7 (13.0)	24.1 (10.9)				
30 ft. (9.14 m)			31.5 (14.2)	31.5 (14.2)	28.5 (12.9)	24.6 (11.1)	24.1 (10.9)	18.1 (8.2)		
25 ft. (7.62 m)			32.1 (14.5)	32.1 (14.5)	28.6 (12.9)	24.5 (11.1)	24.3 (11.0)	18.3 (8.3)		
20 ft. (6.10 m)	31.7 (14.3)	31.7 (14.3)	34.1 (15.4)	34.1 (15.4)	29.6 (13.4)	24.1 (10.9)	24.2 (10.9)	18.2 (8.2)	18.9 (8.5)	14.1 (6.3)
15 ft. (4.57 m)	38.0 (17.2)	38.0 (17.2)	37.1 (16.8)	32.8 (14.8)	31.0 (14.0)	23.4 (10.6)	23.8 (10.7)	17.8 (8.0)	18.8 (8.5)	14.0 (6.3)
10 ft. (3.05 m)			40.1 (18.1)	31.3 (14.1)	30.6 (13.8)	22.6 (10.2)	23.3 (10.5)	17.4 (7.8)	18.5 (8.3)	13.8 (6.2)
5 ft. (1.52 m)	56.9 (25.8)	45.5 (20.6)	41.7 (18.9)	29.8 (13.5)	29.8 (13.5)	21.8 (9.8)	22.8 (10.3)	16.9 (7.6)	18.3 (8.3)	13.6 (6.1)
Ground Line	55.0 (24.9)	43.8 (19.8)	40.5 (18.3)	28.8 (13.0)	29.1 (13.1)	21.2 (9.6)	22.5 (10.2)	16.6 (7.5)	18.2 (8.2)	13.5 (6.1)
−5 ft. (−1.52 m)	48.4 (21.9)	43.2 (19.5)	37.5 (17.0)	28.3 (12.8)	28.7 (13.0)	20.9 (9.4)			15.7 (7.1)	13.5 (6.1)
−10 ft. (−3.05 m)	37.9 (17.1)	37.9 (17.1)	30.7 (13.9)	28.2 (12.7)	24.1 (10.9)	20.8 (9.4)				



EQUIPMENT

Key: ● Standard equipment ▲ Optional or special equipment

200	250	350	ENGINE
●	●	●	Meets EPA tier II off road emissions regulations
●	●	●	H/P control mode
●	●	●	E mode control
●	●	●	Dry type air double filters with evacuator valve
●	●	●	Remote cartridge-type engine oil filter
●	●	●	Cartridge type fuel filter
●	●	●	Fan guard - conforms to SAE J1308
●	●	●	Auto-idle system
●	●	●	Auto acceleration system
●	●	●	Easily removal radiator trash screen

HYDRAULIC SYSTEM

●	●	●	Work Mode selector
●	●	●	Engine speed sensing system
●	●	●	E-P control system
●	●	●	Power Boost
●	●	●	Auto power lift
●	●	●	Quick warm-up system for pilot circuit
●	●	●	Shockless valve in pilot system
●	●	●	Boom arm reduced drift valve
●	●	●	Suction filter
●	●	●	Flow-flow filter
●	●	●	Pilot filter
▲	▲	▲	Aux pilot and electric controls
▲	▲	▲	Hydraulic tank pressure dump
▲	▲	▲	Hydraulics for two function grapple on excavator front
▲	▲	▲	Hydraulics for thumb on excavator front
▲	▲	▲	Hydraulics for processing heads on excavator front

UNDERCARRIAGE

●	●	●	Purpose-built forestry undercarriage
●	●	●	Forged bearing tower
●	●	●	Double-bar grouser track shoes, 28 in. (711 mm)
●	●	●	Forestry propel motor shields
●	●	●	Forestry under-tower center guard
●	●	●	Full length bolt-on track guides, ski type
●	●	●	Two-speed propel with automatic shift
●	●	●	Double pedestal upper rollers
●	●	●	Reinforced idler area
●	●	●	Stronger idler spring tension
●	●	●	Upper track guides over idler
●	●	●	Upper track rollers with supports
●	●	●	Tow loop, front and rear
▲	▲	▲	Slides in place of upper rollers
▲	▲	▲	High drawbar pull undercarriage with larger class components

200	250	350	UPPERSTRUCTURE
●	●	●	Purpose built forestry main frame with integral catwalks and under house protection
●	●	●	Large logger right front corner tool box
●	●	●	Log deflector
●	●	●	Safety approved hand holds and steps
●	●	●	Right-hand and left-hand mirrors
●	●	●	6 mm side doors with provision for padlocks
●	●	●	Strengthened bulkheads to support 6 mm doors
●	●	●	269 gallon fuel tank integral to counterweight
●	●	●	Provision for padlocks on: fuel cap / service doors / toolbox
●	●	●	Anti skid walk surfaces
▲	▲	▲	Secondary swing motor

FRONT ATTACHMENTS

▲	▲	▲	Dirt seals on all bucket pins
▲	▲	▲	Less front
▲	▲	▲	Road builder front
▲	▲	▲	Live heel logging front
▲	▲	▲	BNT or articulating grapple front
▲	▲	▲	Boom cylinder lift adaptors
▲	▲	▲	Attachment quick couplers
▲	▲	▲	Buckets: Heavy-duty / High capacity / Severe-duty, cast lip / Severe-duty, plate lip / Side cutters and teeth
▲	▲	▲	Grapple, one- and two-pin single
▲	▲	▲	Grapple, short wood
▲	▲	▲	Grapple, articulating
▲	▲	▲	Grapple, articulating, with cutoff saw
▲	▲	▲	Grapple, Butt-n-Top
▲	▲	▲	Grapple, live-heel
▲	▲	▲	Hydraulic clamps, progressive style
▲	▲	▲	Hydraulic clamps, direct style

ELECTRICAL

●	●	●	Blade-type multi-fused circuits
●	●	●	By-pass start safety cover on starter
●	●	●	Positive terminal battery covers
▲	▲	▲	Heavy-duty alternator, 100 amps
▲	▲	▲	Additional HD 24-volt to 12-volt converter

LIGHTS

▲	▲	▲	Work lights: Halogen, 33,000 candlepower (375 757 lux) / Two mounted on arm with guarding / One mounted on log deflector / One mounted in riser / Four mounted on top front of cab / Two mounted on top rear of riser
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See your Hitachi dealer for further information.

200	250	350	OPERATOR'S STATION
●	●	●	Purpose-built forestry cab mounted on seven-inch riser with integral FOPS, FOGS, and operator protection. Meets SAE, US OSHA, Oregon OSHA, and BC WCB requirements
●	●	●	Secondary exit
●	●	●	Adjustable independent control positions (levers-to-seat, seat-to-pedals)
●	●	●	Auto control air conditioning and heater with pressurizer
●	●	●	AM/FM radio
●	●	●	Built-in Operator's Manual storage compartment and manual
▲	▲	▲	Cab, rear entry, with tilting high riser
●	●	●	Coat hook
●	●	●	Large beverage holder
●	●	●	Deluxe suspension cloth seat with reclining backrest, adjustable armrests and headrest
●	●	●	Fire extinguisher
●	●	●	Front windshield wiper with constant or intermittent speeds
●	●	●	Gauges (illuminated): Engine coolant / Fuel
●	●	●	Horn, electric
●	●	●	Hourmeter, electric
●	●	●	Hydraulic shutoff lever, all controls
●	●	●	Hydraulic warm-up control
●	●	●	Instrument and interior lights
●	●	●	Mode selectors (illuminated): Power modes – four / Travel modes – two with automatic shift / Work modes – four
●	●	●	Monitor system with alarm features: Auto-idle / Auto-acceleration indicator light / Engine air cleaner restriction indicator light / Engine check / Engine coolant temperature indicator light with audible alarm / Engine oil pressure indicator light with audible alarm / Fluid level: Engine coolant level indicator light, engine oil level indicator light, and hydraulic oil level indicator light / Low alternator charge indicator light / Low fuel indicator light / Wiper mode indicator / Work lights on indicator / Work mode indicator light
●	●	●	Motion alarm with cancel switch – Conforms to SAE J994
●	●	●	Power boost switch on right control lever
●	●	●	Propel pedals and levers
●	●	●	Seat belt, 2 in. (51 mm)
▲	▲	▲	Seat belt, 3 in. (76 mm)
●	●	●	Tinted windows
●	●	●	Heavy-duty 24- to 12-volt D.C. converter with two 12V power outlets (20 amp intermittent, 10 amp continuous)
▲	▲	▲	Alternate pilot control pattern
▲	▲	▲	48 in. (1 219 mm) hydraulically tilting riser
▲	▲	▲	Rear entry cab on 48 in. (1 219 mm) riser
▲	▲	▲	Rear entry cab on 72 in. (1 829 mm) riser

CONTROL OWNING AND OPERATING COSTS

Customer Personal Service (CPS) is part of Hitachi's proactive, fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce stress. Included in this comprehensive lineup of ongoing programs and services are:

**Fluid analysis program** – tells you what's going on inside *all* of your machine's major components so you'll know if there's a problem *before* you see a decline in performance. Fluid analysis is included in most extended coverage and preventive-maintenance agreements.

**Component life-cycle data** – give you vital information on the projected life span of components and let you make informed decisions on machine maintenance by telling you approximately how many hours of use you can expect from an engine, transmission, or hydraulic pump. This information can be used to preempt catastrophic downtime by servicing major components at about 80 percent of their life cycle.

**Preventive Maintenance (PM) agreements** – give you a fixed cost for maintaining a machine for a given

period of time. They also help you avoid downtime by ensuring that critical maintenance work gets done right and on schedule. On-site preventive maintenance service performed where and when you need it helps protect you from the expense of catastrophic failures and lets you avoid waste-disposal hassles.

**Extended coverage** – gives you a fixed cost for machine repairs for a given period of time so you can effectively manage costs. Whether you work in a severe-service setting or just want to spread the risk of doing business, this is a great way to custom-fit coverage for your operation. And an extended coverage contract also travels well because it's backed by the company and is honored by all Hitachi Forestry dealers.

**Customer Support Advisors (CSAs)** – The CSA program lends a personal quality to Customer Personal Service (CPS). Certified CSAs have the knowledge and skills for helping make important decisions on machine maintenance and repair. Their mission is to help you implement a plan that's right for *your* business and take the burden of machine maintenance off your shoulders.

HITACHI

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P.O. Box 8806 • 1515 5th Avenue • Moline, IL 61265  
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DKAF200HT (04-10)

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 6270B, using No. 2-D fuel at 35 API gravity. No derating is required up to 10,000 ft. (3050 m) altitude. Gross power is without cooling fan.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with PCSA and SAE standards. Except where otherwise noted, these specifications are based on units with High and Wide (11 ft. 11 in.) undercarriages, standard cabs with 48 in. (1 219 mm) risers, operator guarding, live-heel logging fronts with 43 ft. (13.1 m) reach, additional counterweights, full fuel tanks, and 175 lb (79 kg) operators.