

# HITACHI

## ZAXIS 350

### Forester®

**Rated Engine**  
Isuzu AA-6HK1X, 247 hp (180 kW)

**Applications**  
Log Loader, Road Builder,  
Harvester, Delimber Carrier



# ZAXIS 350

## ENGINE

Type.....	Isuzu AA-6HK1X
Rated power.....	247 hp (180 kW) @ 2,000 rpm
Cylinders.....	6
Displacement.....	475 cu-in (7,790 L)
Maximum net torque.....	644 lb-ft (89 kgfm) @ 1,700 rpm
Fuel consumption, typical.....	6 to 10 gal/hr (23 to 38 L/h)
Cooling fan.....	suction-type drive
Electrical system.....	24 volt with 45-amp alternator
Batteries (two 12 volt).....	reserve capacity: 180 min

## HYDRAULIC SYSTEM

Main pumps.....	2 variable-displacement axial-piston open center
Maximum flow.....	2 x 77 gpm (2 x 292 L/min)
Minimum flow.....	2 x 21 gpm (2 x 79 L/min)
Pilot pump.....	one gear
Maximum rated flow.....	8.5 gpm (32 L/min)
Pressure setting.....	570 psi (3 923 kPa)
System operating pressure	
Implement circuits.....	4,550 psi (32 000 kPa)
Travel circuits.....	5,050 psi (34 820 kPa)
Swing circuits.....	4,550 psi (32 000 kPa)
Oil filtration.....	one 10-micron full-flow return filter with by-pass / one pilot oil filter / one suction filter

## CYLINDERS – ROADBUILDER / HARVESTER

Bore	
Boom (2).....	5.91-in (150 mm)
Arm (1).....	6.69-in (170 mm)
Bucket (1).....	5.71-in (145 mm)

## CYLINDERS – LOG LOADER

Bore	
Boom (2).....	6.69-in (170 mm)
Arm (1).....	7.48-in (190 mm)
Heel (1).....	5.71-in (145 mm)

## SWING MECHANISM

Swing Mechanism		<b>High Swing Torque Option</b>
Swing speed.....	11.6 rpm	9.2 rpm
Swing Torque.....	82,800-ft-lb (112.4 kN)	109,500-ft-lb (148.5 kN)

## UNDERCARRIAGE

	<b>Standard U/D, 8-ft 10-in (2,69 m)</b>	<b>High Drawbar U/D, 8-ft 10-in (2,69 m) / 9-in 7-in (2,91 m)</b>
Carrier rollers (per side).....	2	2
Track rollers (per side).....	9	8
Double-bar grouser shoes (per side).....	48	45
Track guides.....	full length	full length
Track adjustment.....	hydraulic	hydraulic
Travel speed:		
Low.....	0-2.4 mph (0-3.8 km/h)	0-2 mph (0-3.2 km/h)
High.....	0-3.3 mph (0-5.3 km/h)	0-3.3 mph (0-5.3 km/h)
Drawbar pull.....	56,074 lb (25 435 kg)	79,590 lb (36 101 kg)

## GROUND PRESSURE DATA – ROADBUILDER / HARVESTER

	<b>Standard U/D, 8-ft 10-in (2,69 m)</b>	<b>High Drawbar U/D, 8-ft 10-in (2,69 m)</b>
Average ground pressure with 8-ft 10-in (2,69 m) standard undercarriage and 28-in (700 mm) double-bar grouser shoes.....	9.1 psi (62.4 kPa)	
Average ground pressure with 8-ft 10-in (2,69 m) high-drawbar undercarriage and 28-in (700 mm) double-bar grouser shoes.....		9.8 psi (68 kPa)

## GROUND PRESSURE DATA – LOG LOADER

	<b>High Drawbar U/D, 9-ft 7-in (2,91M)</b>
Average ground pressure with 9-ft 7-in (2,91 m) high-drawbar undercarriage and 28-in (700 mm) double-bar grouser shoes.....	10.4 psi (71.7 kPa)

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## CAPACITIES

	<b>Standard U/D, 8-ft 10-in (2,69 m)</b>	<b>High Drawbar U/D, 8-ft 10-in (2,69 m) / 9-in 7-in (2,91 m)</b>
Fuel tank.....	269 gal (1018 L)	269 gal (1018 L)
Cooling system		
with 7-in (178 mm) riser.....	9.2 gal (35 L)	9.2 gal (35 L)
with 4-ft (1 219 mm) riser.....	9.2 gal (35 L)	9.2 gal (35 L)
with 6-ft (1 829 mm) riser.....	9.2 gal (35 L)	9.2 gal (35 L)
Engine lubrication, including filter.....	9.5 gal (36 L)	9.5 gal (36 L)
Hydraulic tank.....	85 gal (322 L)	85 gal (322 L)
Propel gearbox (each).....	8 qt (7 L)	9.5 qt (9 L)
Swing drive.....	15 qt (14 L)	15 qt (14 L)

## OPERATING WEIGHTS – ROADBUILDER / HARVESTER

	<b>Standard U/D, 8-ft 10-in (2,69 m)</b>	<b>High Drawbar U/D, 8-ft 10-in (2,69 m)</b>
With full 1,910 lb (855 kg) fuel tank, 175 lb (79 kg) operator, 10-ft 6-in (3,2 m) arm and 28-in (700mm) double-bar grouser shoes, less bucket.....	85,700 lb (38 873 kg)	91,375 lb (41 447 kg)

## OPERATING WEIGHTS – DELIMBER CARRIER

	<b>Standard U/D, 8-ft 10-in (2,69 m)</b>	<b>High Drawbar U/D, 8-ft 10-in (2,69 m)</b>
With full 1,910 lb (855 kg) fuel tank, 175 lb (79 kg) operator and 28-in (700 mm) double-bar grouser shoes, less arm, boom and boom cylinders.....	72,000 lb (32 659 kg)	77,675 lb (35 233 kg)

## OPERATING WEIGHTS – LOG LOADER

		<b>High Drawbar U/D, 9-in 7-in (2,91 m)</b>
With full 1,910 lb (855 kg) fuel tank, 175 lb (79 kg) operator, 28-in (700 mm) double-bar grouser shoes and side entry forestry cab with 4-ft tilt riser.		
Live heel front less grapple.....	99,240 lb (45 014 kg)	
Butt -n-top grapple front less grapple.....	96,820 lb (43 002 kg)	

## OPERATING INFORMATION – ROADBUILDER / HARVESTER with 10-ft 6-in (3.2 m) arm

	<b>Arm Length 8-ft 9-in (2,66 m)</b>	<b>Arm Length 10-ft 6-in (3,20 m)</b>	<b>Arm Length 13-ft 1-in (4,00 m)</b>
Arm force with 54-in (1 370 mm) general-purpose bucket*	43,000 lb (191,3 kN)	36,060 lb (160,4 kN)	30,880 lb (137,4 kN)
Bucket tangential force with 54-in (1 370 mm) 2.3-cu yd (1,76 m <sup>3</sup> ) general-purpose bucket*	46,620 lb (207,4 kN)	46,620 lb (207,4 kN)	46,620 lb (207,4 kN)
Lifting capacity over front @ ground level 20-ft (6,1 m) reach*	28,280 lb (12 828 kg)	27,856 lb (12 635 kg)	26,613 lb (12 072 kN)
<b>A</b> Max. reach	34-ft 6-in (10,51 m)	36-ft 3-in (11,04 m)	38-ft 9-in (11,80 m)
<b>A'</b> Max. reach @ ground level	33-ft 9-in (10,30 m)	35-ft 7-in (10,84 m)	38-ft 1-in (11,67 m)
<b>B</b> Max. digging depth <sup>§</sup>	22-ft 2-in (6,77 m)	23-ft 11-in (7,30 m)	26-ft 7-in (8,10 m)
<b>B'</b> Max. digging depth @ 8-ft (2,44 m) flat bottom <sup>§</sup>	21-ft 7-in (6,57 m)	23-ft 5-in (7,14 m)	26-ft 2-in (7,97 m)
<b>C</b> Max. cutting height <sup>†</sup>	32-ft 3-in (9,83 m)	33-ft 5-in (10,19 m)	34-ft 8-in (10,58 m)
<b>D</b> Max. dumping height <sup>†</sup>	22-ft 8-in (6,91 m)	23-ft 8-in (7,21 m)	24-ft 10-in (7,58 m)
<b>E</b> Min. swing radius	15-ft 3-in (4,65 m)	14-ft 9-in (4,49 m)	14-ft 11-in (4,54 m)
<b>F</b> Max. vertical wall <sup>§</sup>	18-ft 2-in (5,54 m)	21-ft (6,40 m)	23-ft 11-in (7,29 m)

\*Maximum digging force with Power Boost.

<sup>§</sup>High and wide undercarriage subtracts 7-in (178 mm).

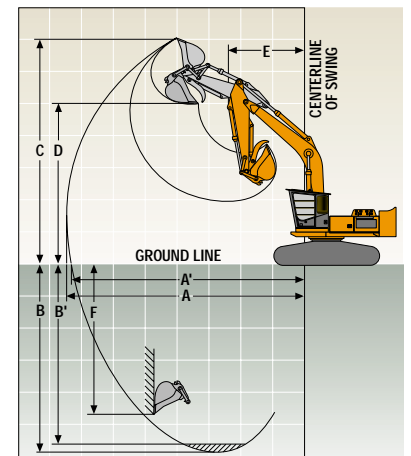
<sup>†</sup>High and wide undercarriage adds 7-in (178 mm).

## OPERATING INFORMATION – LOG LOADER

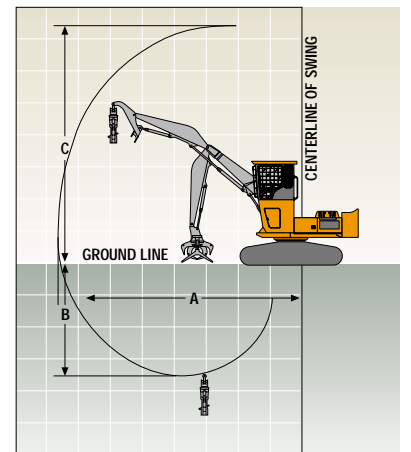
	<b>Live-Heel Front Front Length</b>	<b>Butt-Top Front Length</b>
Lifting capacity over front @ ground level 20-ft (6.1 m) reach*.....	46,600 lb (207,3 kN)	47,400 lb (216,8 kN)
<b>A</b> Max. reach @ ground level.....	43-ft (13,10 m)	39-ft (11,89 m)
<b>B</b> Max. depth below ground <sup>▲</sup> .....	24-ft 3-in (7,4 m)	17-ft 6-in (5,3 m)
<b>C</b> Max. height <sup>▲</sup> .....	33-ft 10-in (10,3 m)	33-ft 6-in (10,2 m)

\*Maximum lift force with Power Boost, grapple not included. /

<sup>▲</sup>Level log with typical grapple: dimension is dependent on grapple make and model.



ROAD BUILDER / HARVESTER

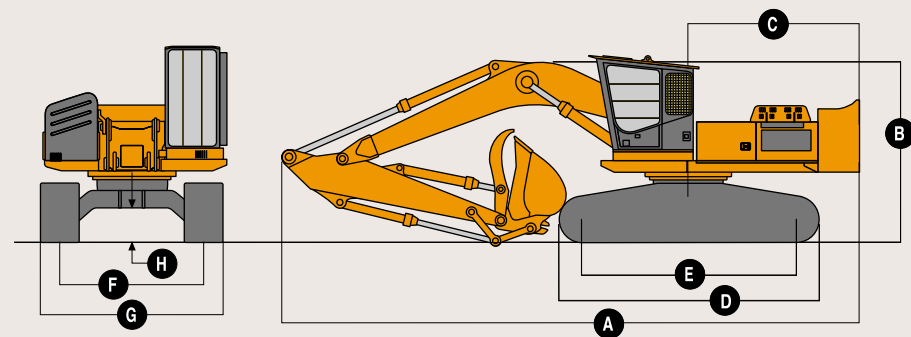


LOG LOADER

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## DIMENSIONS - ROADBUILDER / HARVESTER

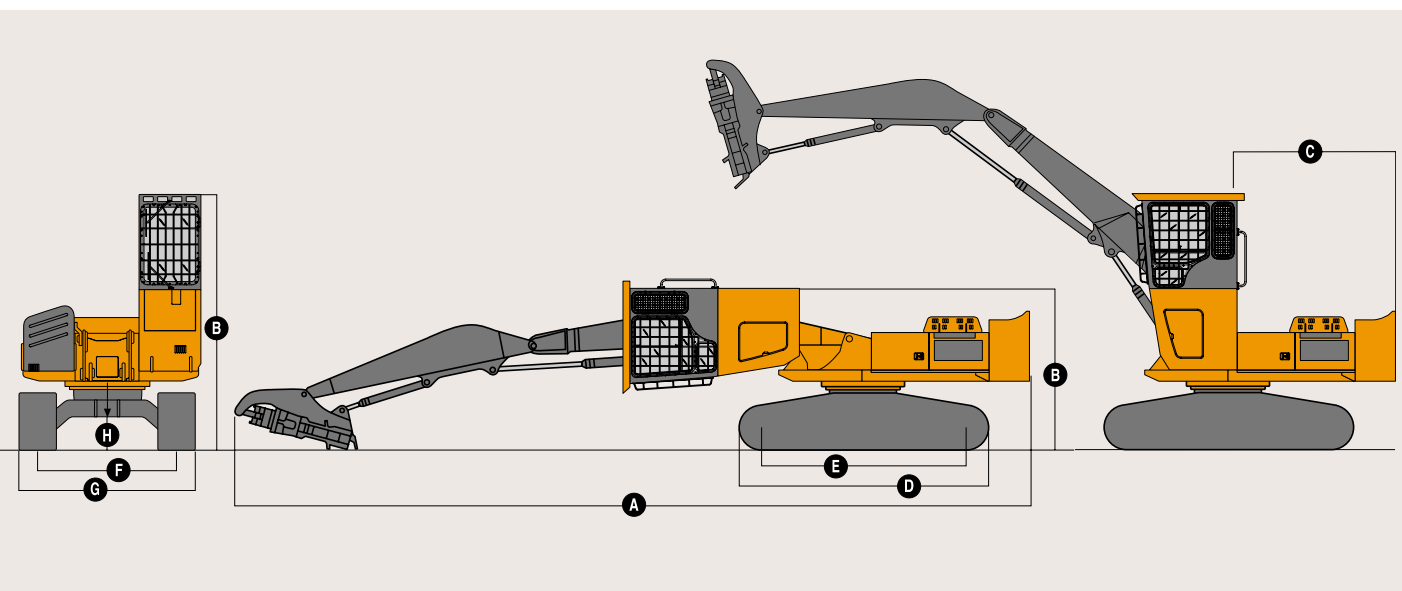
	Standard U/D, 8-ft 10-in (2,69 m)	High Drawbar U/D, 8-ft 10-in (2,69 m)
A Shipping length.....	36-ft 6-in (11,114 m)	36-ft 6-in (11,114 m)
B Operating position.....	12-ft 7-in (3,832 m)	12-ft 7-in (3,832 m)
C Tail swing.....	11-ft 9-in (3,580 m)	11-ft 9-in (3,580 m)
D Overall track length.....	16-ft 2-in (4,928 m)	16-ft 7-in (5,055 m)
E Idler to sprocket distance.....	13-ft 3-in (4,039 m)	13-ft 3-in (4,039 m)
F Track gauge.....	8-ft 10-in (2,69 m)	8-ft 10-in (2,69 m)
G Overall undercarriage width 28-in pads.....	11-ft 2-in (3,404 m)	11-ft 2-in (3,404 m)
H Ground clearance.....	28-in (711 mm)	28-in (711 mm)



## DIMENSIONS - LOG LOADER, LIVE HEEL FRONT

Side entry cab with 4-ft (1 219mm) tilt riser or Rear entry cab with 6-ft (1 829mm) tilt riser, High Drawbar U/D, 9-ft 7-in (2,91 m)

	Live Heel Front	Butt-n-Top Grapple Front
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)
48° riser re cab	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 (700 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 (687 mm)	28-in (687 mm)



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## LIFT CAPACITIES - ROADBUILDER / HARVESTER

**Boldface italic** type indicates hydraulic-limited capacities with Power Boost on; **lightface** type indicates stability-limited capacities, in lb. (kg). Ratings at bucket lift hook. Machine equipped with 2.3-cu-yd (1,76 m³) 54-in (1 370 mm) wide, 2,557-lb (1 160 kg) bucket with 28-in (700 mm) shoes and 8-ft 10-in (3,20 m) arm; and 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.

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		
lbs x 10³ (kg x 10³)												
20-ft (6,10 m)									<b>14.54 (6,6)</b>	<b>14.54 (6,6)</b>	<b>9.38 (4,3)</b>	<b>9.38 (4,3)</b>
15-ft (4,57 m)									<b>16.07 (7,3)</b>	14.58 (6,6)	<b>14.89 (6,8)</b>	10.5 (4,8)
10-ft (3,05 m)				<b>32.56 (14,8)</b>	30.24 (13,7)				<b>18.22 (8,3)</b>	13.85 (6,3)	<b>15.89 (7,2)</b>	10.15 (4,6)
5-ft (1,52 m)									<b>20.33 (9,2)</b>	13.14 (6,0)	16.27 (7,4)	9.77 (4,4)
Ground Line				<b>21.24 (9,6)</b>	21.24 (9,6)				<b>28.42 (12,9)</b>	17.61 (8,0)	21.21 (9,6)	15.95 (7,2)
-5-ft (-1,52 m)	<b>16.75 (7,6)</b>	<b>16.75 (7,6)</b>	<b>19.85 (9,0)</b>	<b>19.85 (9,0)</b>	<b>28.51 (12,9)</b>				17.31 (7,9)	20.92 (9,5)	12.35 (5,6)	15.8 (7,2)
-10-ft (-3,05 m)	<b>25.68 (11,6)</b>	<b>25.68 (11,6)</b>	<b>26.72 (12,1)</b>	<b>26.72 (12,1)</b>	<b>26.7 (12,1)</b>				17.37 (7,9)	<b>20.77 (9,4)</b>	12.36 (5,6)	9.47 (4,3)
-15-ft (-4,57 m)	<b>21.05 (9,5)</b>	<b>21.05 (9,5)</b>	<b>28.39 (12,9)</b>	28.12 (12,8)	<b>22.43 (10,2)</b>				17.77 (8,1)	<b>16.53 (7,5)</b>	12.76 (5,8)	

## LIFT CAPACITIES - LOG LOADER (LIVE HEEL FRONT)

**Boldface italic** type indicates hydraulic-limited capacities with Power Boost on; **lightface** type indicates stability-limited capacities, in lb. (kg). Ratings at grapple attachment point. Machine equipped with 9-ft 7-in (2,92 m) gauge high-wide undercarriage with 28-in shoes and situated on firm, uniform supporting surface. Total load does not include weight of grapple. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

Load Point Height	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 m)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
lbs x 10³ (kg x 10³)												
40-ft (12,19 m)	<b>32.9 (14,9)</b>	<b>32.9 (14,9)</b>	<b>29 (13,2)</b>	<b>29 (13,2)</b>	<b>21.1 (9,6)</b>	<b>21.1 (9,6)</b>						
35-ft (10,67 m)			<b>27.5 (12,5)</b>	<b>27.5 (12,5)</b>	<b>24.8 (11,2)</b>	<b>24.8 (11,2)</b>						
30-ft (9,14 m)			<b>26.2 (11,9)</b>	<b>26.2 (11,9)</b>	<b>24 (10,9)</b>	<b>24 (10,9)</b>	21.6 (9,8)	21.1 (9,6)	15 (6,8)			
25-ft (7,62 m)			<b>23.4 (10,6)</b>	<b>23.4 (10,6)</b>	<b>24.4 (11,1)</b>	<b>24.4 (11,1)</b>	21.8 (9,9)	21.4 (9,7)	15.4 (7,0)	<b>15.7 (7,1)</b>	11.8 (5,4)	
20-ft (6,10 m)			<b>27.3 (12,4)</b>	<b>27.3 (12,4)</b>	<b>25.6 (11,6)</b>	<b>25.6 (11,6)</b>	21.5 (9,8)	21.4 (9,7)	15.3 (6,9)	15.9 (7,2)	11.2 (5,1)	12.8 (5,8)
15-ft (4,57 m)			<b>33.3 (15,1)</b>	31 (14,1)	<b>27.2 (12,3)</b>	<b>27.2 (12,3)</b>	20.9 (9,5)	21 (9,5)	15 (6,8)	16.1 (7,3)	11.3 (5,1)	12.8 (5,8)
10-ft (3,05 m)			<b>33.9 (15,4)</b>	29.2 (13,2)	28.2 (12,8)	20.1 (9,1)	20.6 (9,3)	14.6 (6,6)	16.1 (7,3)	11.3 (5,1)	12.7 (5,8)	8.7 (3,9)
5-ft (1,52 m)			<b>38.6 (17,5)</b>	27.7 (12,6)	27.3 (12,4)	19.3 (8,8)	19.4 (8,8)	14.4 (6,5)	15.5 (7,0)	11.1 (5,0)	12.5 (5,7)	8.6 (3,8)
Ground Line			38.6 (17,5)	26.7 (12,1)	26.9 (12,2)	18.9 (8,6)	20 (9,1)	14.1 (6,4)	15.5 (7,0)	10.8 (4,9)	12.3 (5,6)	8.4 (3,8)
-5-ft (-1,52 m)			<b>35.8 (16,2)</b>	25.9 (11,7)	26.3 (11,9)	18.3 (8,3)	19.6 (8,9)	13.7 (6,2)	15.3 (6,9)	10.6 (4,8)	<b>10.8 (4,9)</b>	8.4 (3,8)
-10-ft (-3,05 m)			<b>29.9 (13,6)</b>	25.7 (11,7)	<b>24.1 (10,9)</b>	18.1 (8,2)	<b>18.8 (8,5)</b>	13.5 (6,1)	<b>13.4 (6,1)</b>	10.5 (4,8)		
-15-ft (-4,57 m)					<b>17.5 (7,9)</b>	<b>17.5 (7,9)</b>						

## LIFT CAPACITIES - ARTICULATED GRAPPLE

**Boldface italic** type indicates hydraulic-limited capacities with Power Boost on; **lightface** type indicates stability-limited capacities, in lb. (kg). Ratings at grapple attachment point. Machine equipped with 9-ft 7-in (2,92 m) gauge high-wide undercarriage with 28-in shoes and situated on firm, uniform supporting surface. Total load does not include weight of grapple. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

Load Point Height	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)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
lbs x 10³ (kg x 10³)										
40-ft (12,19 m)	<b>30.1 (13,7)</b>	<b>30.1 (13,7)</b>	<b>21.7 (9,8)</b>	<b>21.7 (9,8)</b>						
35-ft (12,19 m)			<b>27.1 (12,3)</b>	<b>27.1 (12,3)</b>	<b>21.3 (9,7)</b>	20 (9,1)				
30-ft (12,19 m)			<b>26.7 (12,1)</b>	<b>26.7 (12,1)</b>	<b>23.7 (10,8)</b>	20.5 (9,3)	<b>18 (8,2)</b>	14 (6,4)		
25-ft (12,19 m)			<b>27.2 (12,3)</b>	<b>27.2 (12,3)</b>	<b>23.8 (10,8)</b>	20.4 (9,3)	<b>21.1 (9,6)</b>	14.2 (6,4)		
20-ft (12,19 m)	<b>23.9 (10,8)</b>	<b>23.9 (10,8)</b>	<b>29.3 (13,3)</b>	<b>29.3 (13,3)</b>	<b>24.8 (11,2)</b>	<b>20 (9,1)</b>	20.1 (9,1)	14 (6,4)	14.8 (6,7)	10 (4,5)
15-ft (12,19 m)	<b>29.7 (13,5)</b>	<b>29.7 (13,5)</b>	<b>32.3 (14,7)</b>	<b>32.3 (14,7)</b>	<b>26.2 (11,9)</b>	19.3 (8,8)	19.7 (8,9)	13.7 (6,2)	14.7 (6,7)	9.9 (4,5)
10-ft (12,19 m)			<b>35.3 (16,0)</b>	<b>35.3 (16,0)</b>	27.2 (12,3)	26.5 (12,0)	18.5 (8,4)	19.2 (8,7)	13.2 (6,0)	14.4 (6,5)
5-ft (12,19 m)	<b>52.2 (23,7)</b>	41.5 (18,8)	<b>37.1 (16,8)</b>	<b>37.1 (16,8)</b>	25.8 (11,7)	25.7 (11,7)	17.7 (8,0)	18.8 (8,5)	12.8 (5,8)	14.2 (6,4)
Ground Line	<b>50.3 (22,8)</b>	39.8 (18,1)	<b>36.4 (16,5)</b>	<b>36.4 (16,5)</b>	24.8 (11,2)	25 (11,3)	17.1 (7,8)	18.4 (8,3)	12.5 (5,7)	14.1 (6,4)
-5-ft (12,19 m)	<b>43.7 (19,8)</b>	39.2 (17,8)	<b>32.7 (14,8)</b>	<b>32.7 (14,8)</b>	24.3 (11,0)	24.7 (11,2)	16.8 (7,6)	18.2 (8,3)	12.3 (5,6)	10.9 (4,9)
-10-ft (-3,05 m)	<b>33.2 (15,1)</b>	<b>33.2 (15,1)</b>	<b>25.9 (11,7)</b>	<b>25.9 (11,7)</b>	24.2 (11,0)	<b>19.3 (8,8)</b>	16.7 (7,6)	<b>12.8 (5,8)</b>	12.3 (5,6)	

## BUCKETS - ROADBUILDER

A full line of buckets is offered to meet a wide variety of applications. The buckets have an adjustable bushing for side clearance, with the exception of the ditching bucket. Tooth selection includes either the John Deere Fanggs®, Standard, Tiger, Twin Tiger, Abrasion panel, or Flare tooth, or the ESCO (Vertalok) Standard, Tiger, Twin Tiger, or Flare tooth. Replaceable cutting edges are available through John Deere parts. Optional side cutters add 6 inches (150 mm) to bucket widths.

Type Bucket	Bucket Width		Bucket Capacity*		Weight		Bucket Dig Force		Arm Dig Force 8-ft 9-in (2,7 m)		Arm Dig Force 10-ft 6-in (3,2 m)		Arm Dig Force 13-ft 1-in (4,0 m)		Bucket Tip Radius		No Teeth
	in	mm	cu yd	m³	lb	kg	lb	kN	lb	kN	lb	kN	lb	kN	in	mm	
Heavy-Duty	30	762	1.26	0,96	2,516	1 141	42,251	187,9	41,389	184,1	34,859	155,1	29,997	133,4	69,5	1 765	4
High Capacity	36	914	1.56	1,19	2,781	1 261	42,251	187,9	41,389	184,1	34,859	155,1	29,997	133,4	69,5	1 765	4
	42	1 067	1.85	1,41	3,120	1 415	42,251	187,9	41,389	184,1	34,859	155,1	29,997	133,4	69,5	1 765	5
	48	1 219	2.15	1,64	3,318	1 505	42,251	187,9	41,389	184,1	34,859	155,1	29,997	133,4	69,5	1 765	6
	54	1 372	2.45	1,87	3,562	1 616	42,251	187,9	41,389	184,1	34,859	155,1	29,997	133,4	69,5	1 765	6
Heavy-Duty	36	915	1.48	1,13	2,138	970	41,620	185,1	36,970	164,4	30,645	136,3	26,340	117,2	62,5	1 588	4
Plate Lip	42	1 065	1.75	1,34	2,210	1 002	41,620	185,1	36,970	164,4	30,645	136,3	26,340	117,2	62,5	1 588	5
	48	1 220	2.03	1,55	2,324	1 054	41,620	185,1	36,970	164,4	30,645	136,3	26,340	117,2	62,5	1 588	6
	54	1 370	2.30	1,76	2,557	1 160	41,620	185,1	36,970	164,4	30,645	136,3	26,340	117,2	62,5	1 588	6
Severe-Duty	30	760	1.26	0,96	2,850	1 292	35,150	156,3	34,595	153,9	28,885	128,5	25,030	111,3	74,0	1 880	3
Plate Lip	36	915	1.56	1,19	3,024	1 371	35,150	156,3	34,595	153,9	28,885	128,5	25,030	111,3	74,0	1 880	4
	42	1 065	1.85	1,41	3,343	1 516	35,150	156,3	34,595	153,9	28,885	128,5	25,030	111,3	74,0	1 880	4
	48	1 220	2.15	1,64	3,522	1 597	35,150	156,3	34,595	153,9	28,885	128,5	25,030	111,3	74,0	1 880	5

\*All capacities are SAE heaped ratings.

# ZAXIS 350

## OPTIONAL EQUIPMENT

Key: ● Standard equipment ▲ Optional or special equipment

### ENGINE

- H/P mode control
- E mode control
- 50 A alternator
- Dry-type air double filters with evacuator valve (with safety element)
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Radiator and oil cooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system
- Auto acceleration system

### 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 circuit
- Boom-arm anti-drift valve
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter

### UNDERCARRIAGE

- Purpose built forestry undercarriage
- Cast bearing tower
- Double-bar grouser track shoes, 28-in (700 mm)
- Forestry propel motor shields
- Forestry under-tower center guard
- Full length 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
- Tow loop, front and rear
- ▲ Slides in place of upper rollers
- ▲ High drawbar pull undercarriage with larger class components

### UPPERSTRUCTURE

- Purpose built forestry main frame with walkways and under house protection
- Large Forester right front corner tool box
- Log deflector
- Safety 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

- ▲ Less front
- ▲ Road builder fronts
- ▲ 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, 80 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 / tow mounted on top rear of riser

### OPERATOR'S STATION

- Purpose built forestry cab mounted on seven inch riser with integral FOPS, FOGS, and operator protection Meets US OSHA and BC WCB requirements

See your Hitachi dealer for further information.

### OPERATOR'S STATION (continued)

- 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
- 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 glass
- Heavy duty 24- to 12-volt D.C. converter with two 12V power outlets (20 amp intermittent, 10 amp continuous)
- ▲ Alternate pilot control pattern
- ▲ 4-ft hydraulically tilting riser
- ▲ Rear entry cab on 4-ft riser
- ▲ Rear entry cab on 6-ft 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

Hitachi Forestry Products  
P.O. Box 8806 • 1515 5th Avenue • Moline, IL 61265

SER0535 (03-03)

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-wide (11-ft. 11-in.) undercarriages, standard cabs with 48-in. risers, operator guarding, live-heel logging fronts with 43-ft. reach, additional counterweights, full fuel tanks, and 175-lb. (79 kg) operators.