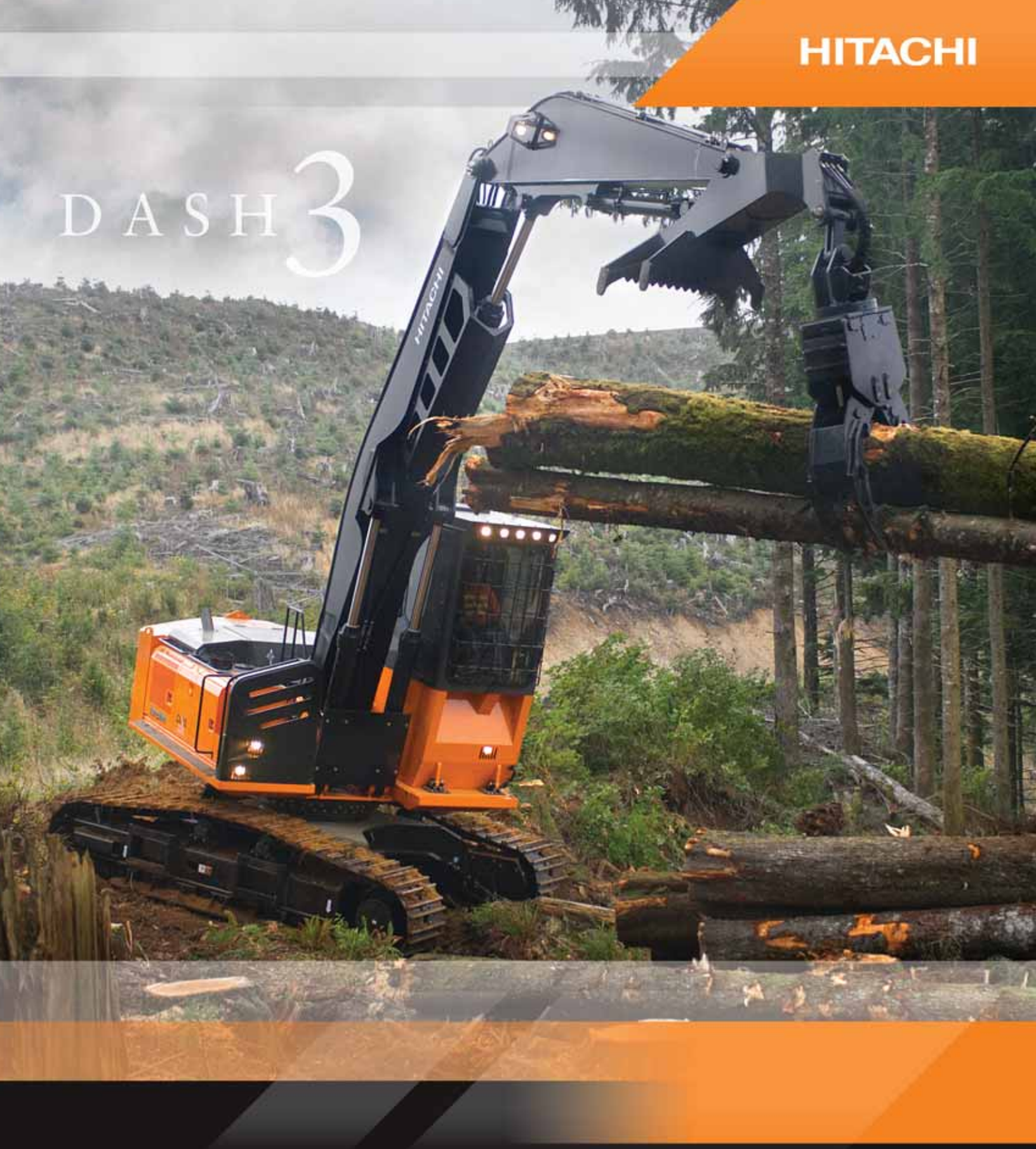
HITACHI



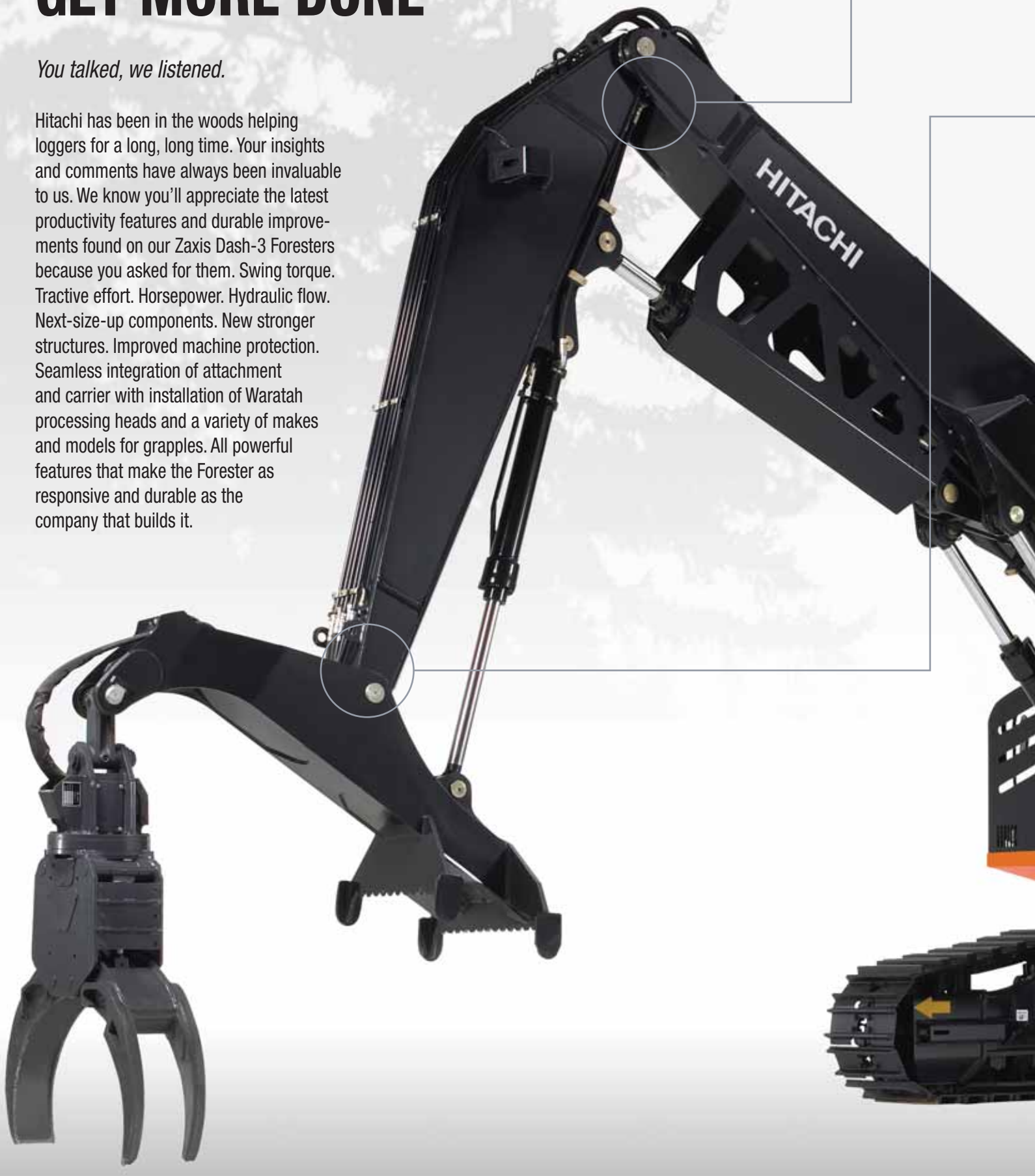
ZAXIS FORESTER 370-3

- **Engine Net Power:** 271 hp (202 kW) @ 1,900 rpm
- **Road Builder, Live Heel, and Butt & Top Models**

GET MORE DONE

You talked, we listened.

Hitachi has been in the woods helping loggers for a long, long time. Your insights and comments have always been invaluable to us. We know you'll appreciate the latest productivity features and durable improvements found on our Zaxis Dash-3 Foresters because you asked for them. Swing torque. Tractive effort. Horsepower. Hydraulic flow. Next-size-up components. New stronger structures. Improved machine protection. Seamless integration of attachment and carrier with installation of Waratah processing heads and a variety of makes and models for grapples. All powerful features that make the Forester as responsive and durable as the company that builds it.



■ **Robust Booms and Arms:**
New heavy-duty booms and arms are ready to take on all applications, whether it be building roads or processing or handling trees.

■ **Attachments Integration:**
Purpose-built processing fronts and integrated attachments are delivered straight from the factory.

■ **Ease of Service:**
Remote-mounted engine and hydraulic oil filters and dynamic test ports.

■ **Cooling Package Design:**
Laid out side by side by side with swing-out fuel cooler and condenser to make servicing the system a breeze.

■ **Debris Management:**
External screening, sealed cooler compartment, and optional automatic reversing fan help eliminate the downtime associated with cooling system servicing.

■ **Tier-3-Compliant Isuzu Engines:**
Provide the horsepower required to get the job done while delivering excellent fuel efficiency.

■ **Improved Component Protection:**
Three-piece heavy-duty engine enclosure, new under-house protection system, new hydraulic filter guard and muffler protection, and heavier right rear door all work to keep the machine's valuable components safe from damage.

■ **Robust Upper Frame:**
Strong boom-tower arrangement, thick base plates, after-welding machining in critical areas, and large-diameter swing bearings make these machines extremely durable.

■ **Durable Undercarriage:**
Robust structures; next-size-up components and drive systems; and heavy-duty track chains deliver on both productivity and durability.

Engine

Manufacturer and Model ..... Isuzu AH-6HK1XYSA-01, 4-cycle water cooled with direct injection
Non-Road Emission Standards ..... certified to EPA Tier-3 emissions
Cylinders 6
Displacement ..... 475 cu in. (8 L)
SAE Net Rated Power (SAE J1349) @ 1,900 rpm ..... H/P mode: 271 hp (202 kW)
Aspiration ..... turbocharged, intercooled

Cooling

Direct–drive, suction-type fan with remote-mounted drive.
Engine Coolant Rating ..... -34 °F (-37 °C)

Powertrain

Two Speed Propel with Automatic Shift
Travel Speed Low, Maximum Speed ..... 2.1 mph (3.4 km/h)
Travel Speed High, Maximum Speed ..... 3.4 mph (5.5 km/h)

Controls

Pilot Levers, Short Stroke, Low Effort Hydraulic Pilot Controls with Shut-Off Lever

Hydraulics

Open Center, Load Sensing
Main Pumps ..... two variable-displacement axial-piston pumps
Pump Flow, Maximum ..... 2 x 76.1 gpm (2 x 288 L/m)
Pilot Pump ..... one gear
Pilot Pump Maximum Rated Flow ..... 8.9 gpm (34 L/m)
Pilot Pump System Relief Pressure ..... 580 psi (4000 kPa)
System Operating Pressure
Implement Circuits ..... 4,980 psi (34 300 kPa)
Travel Circuits ..... 4,980 psi (34 300 kPa)
Swing Circuits ..... 4,700 psi (32 400 kPa)
Power Boost ..... 5,260 psi (36 300 kPa)
Auxiliary Hydraulic-Flow Adjustable Through Monitor

Cylinders

Heat treated, chrome-plated, polished cylinder rods, hardened steel (replaceable bushings) pivot pins

	Bore	Rod Diameter	Stroke
Boom (2)	5.7 in. (145 mm)	3.9 in. (100 mm)	59.8 in. (1,520 mm)
Arm (1)	6.7 in. (170 mm)	4.5 in. (115 mm)	69 in. (1,740 mm)
Bucket (1)	5.5 in. (140 mm)	3.7 in. (95 mm)	49.2 in. (1,250 mm)

Electrical

Voltage ..... 24 volt
Number of Batteries (12 volt) 2
Reserve Capacity ..... 440 minutes
Alternator Rating ..... 80 amp
Optional Work Lights ..... 14 Halogen, two mounted on boom, two right front corner, one right side, one in riser, eight on cab

Undercarriage

Carrier Rollers (each side) 2
Track Rollers (each side) 8
Shoes, Double Grousers (each side) 49
Drawbar Pull ..... 79,590 lb. (36 102 kg)
Track Adjustment ..... hydraulic
Track Guides ..... front and center

Upperstructure

Counterweight Standard ..... 13,702 lb. (6215 kg)

Swing Mechanism

Swing Speed (standard) ..... 10.7 rpm
Swing Torque (standard) ..... 82,012 lb. ft. (111 194 Nm)

Ground Pressure

28-in. (700 mm) Double Grouser Shoes ..... 9.26 psi (63.8 kPa)

Operator Station

Multiple Language Capable, Digital Display	*Indicator Light*	*Audible Warning*	*Digital Display*
Alarm Indicator	X		
Alternator, Low Charge	X		
Auto-Idle	X		
Auxilliary Hydraulics			X
Clock			X
Engine Air Cleaner Restriction	X		
Engine Service Required	X		
Engine Coolant Temperature	X	X	X
Engine Oil Pressure		X	X
Engine Preheat	X		
Engine RPM			X
Fault Code Alert	X		
Fuel Level	X		X
Fuel Rate Display			X
Hourmeter			X
Wiper-Mode Indicator	X		
Work Mode Indicator	X		
Digital Display *(with Diagnostic and Multi-Language Capability)*			X

Serviceability

Hinged, swing-out coolers for easy cleanout, Centralized lube banks, and “O” Ring Face Seal Connectors on hydraulic hoses

Refill Capacities

Fuel Tank ..... 277 gal. (1,050 L)
Cooling System ..... 33.8 qt. (32 L)
Engine Oil with Filter ..... 43.3 qt. (41 L)
Hydraulic Tank ..... 52 gal. (195 L)
Hydraulic System ..... 90 gal. (340 L)
Swing Drive ..... 12.5 qt. (12 L)
Propel Gearbox (each) ..... 9 qt. (9 L)
Pump Drive Gearbox ..... 1.2 qt. (1 L)

Operating Weights

With Full Fuel Tank; 175-lb. (79 kg) Operator; 2.3-cu-yd. (1.76 m^3), 54-in. (1370 mm),
2,557-lb. (1160 kg) Bucket; 10-ft. 6-in. (3.2 m) Arm; 13,702-lb. (6215 kg) Counterweight; and 28-in. (700 mm) Double Grouser Shoes
SAE Operating Weight .....90,116 lb. (40 876 kg)

Optional Components

Undercarriage
- 28-in. (700 mm) Double Grouser Shoes .....37,364 lb. (16 948 kg)

One-Piece Boom (with arm cylinder) .....6,682 lb. (3031 kg)
Arm with Bucket Cylinder and Linkage .....
- 10 ft. 6 in. (3.2 m) .....3,876 lb. (1758 kg)

Boom Lift Cylinders (2) Total Weight.....1,376 lb. (624 kg)
- 2.3-cu-yd. (1.76 m^3) 54-in. (1370 mm)
- Heavy-Duty Bucket.....2,557 lb. (1160 kg)

Counterweight Standard.....13,702 lb. (6215 kg)

Operating Dimensions

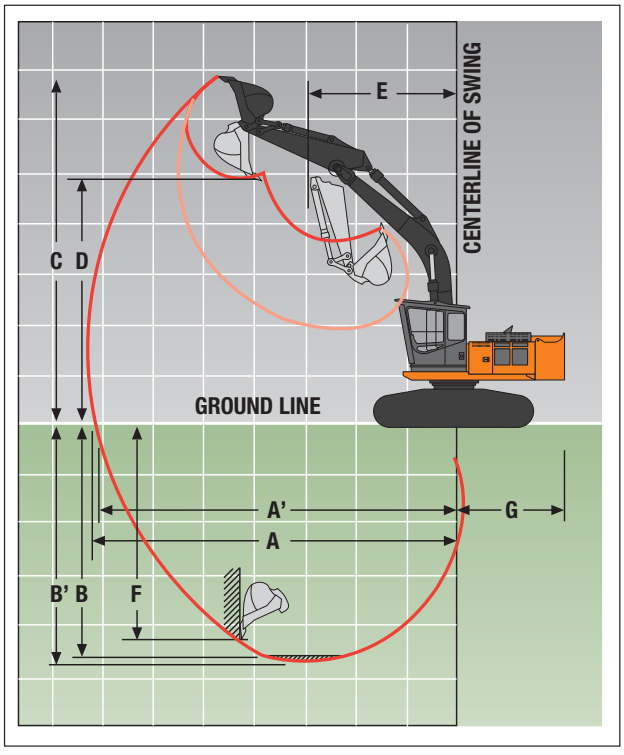
Arm Length 10 ft. 6 in. (3.2 m)

Arm Force with 54-in. (1370 mm)
- Heavy-Duty Bucket with Power Boost .....38,028 lb. (169 kN)

Bucket Digging Force with 54-in. (1370 mm)
- Heavy-Duty Bucket with Power Boost .....48,218 lb. (214 kN)

Lifting Capacity Over Front at Ground Level 20 ft. (6.1 m)
- Reach (with Power Boost) .....27,597 lb. (12 518 kg)

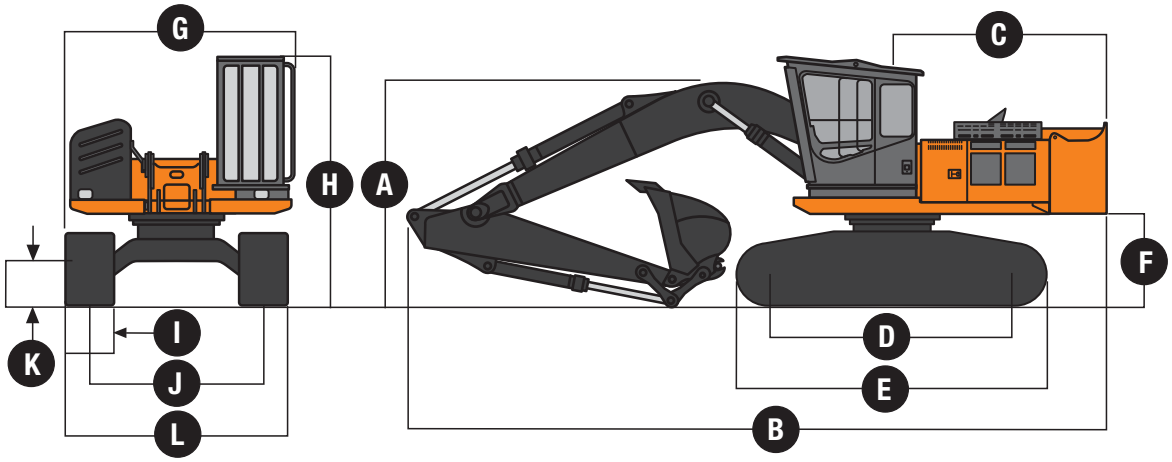
A Maximum Reach.....36 ft. 5 in. (11.10 m)
A' Maximum Reach at Ground Level .....35 ft. 9 in. (10.89 m)
B Maximum Digging Depth .....24 ft. 3 in. (7.38 m)
B' Maximum Digging Depth at 8 ft. (2.44 m) Flat Bottom.....23 ft. 8 in. (7.21 m)
C Maximum Cutting Height .....34 ft. (10.36 m)
D Maximum Dumping Height .....23 ft. 9 in. (7.24 m)
E Minimum Swing Radius .....14 ft. 8 in. (4.46 m)
F Maximum Vertical Wall .....21 ft. 1 in. (6.42 m)
G Tail Swing Radius .....12 ft. (3.66 m)



Machine not exactly as shown. Illustration for dimensioning purposes only.

Machine Dimensions

ZAXIS FORESTER 370-3 ROAD BUILDER



A	Height	11 ft. 1 in. (3.37 m)
B	Overall Length	36 ft. 9 in. (11.21 m)
C	Rear-End Length/Swing Radius	12 ft. (3.66 m)
D	Distance Between Idler/Sprocket Centerline	13 ft. 3 in. (4.05 m)
E	Undercarriage Length	16 ft. 9 in. (5.10 m)
F	Counterweight Clearance	4 ft. 9 in. (1.45 m)
G	Maximum Shipping Width	11 ft. 6 in. (3.49 m)
H	Cab Height	12 ft. 6 in. (3.80 m)
I	Track Width Double Grouser Shoes	28 in. (0.70 m)
J	Gauge Width	8 ft. 10 in. (2.69 m)
K	Ground Clearance	2 ft. 5 in. (0.73 m)
L	Undercarriage Width	11 ft. 1 in. (3.39 m)

Machine not exactly as shown.
Illustration for dimensioning purposes only.

Lift Chart

Boldface italic type indicates hydraulic-limited capacities with Power Boost on; lightface type indicates stability-limited capacities, in. lb. (kg).
Figures do not exceed 87 percent of hydraulic capacity or 75 percent of weight needed to tip machine. Shown capacities are net figures (Bucket weight is deducted).

Load Point Height	10 ft. (3.1 m)		15 ft. (4.6 m)		20 ft. (6.1 m)		25 ft. (7.6 m)		30 ft. (9.1 m)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
25 ft. (7.6 m)							***10,000 (4536)***	***10,000 (4536)***		
20 ft. (6.1 m)							***14,639 (6640)***	13,905 (6307)	***9,471 (4296)***	***9,471 (4296)***
15 ft. (4.6 m)							***16,151 (7326)***	13,371 (6065)	***15,044 (6824)***	9,511 (4314)
10 ft. (3.1 m)			***32,448 (14 718)***	27,999 (12 700)	***22,606 (10 254)***	18,133 (8225)	***18,338 (8318)***	12,639 (5733)	15,199 (6894)	9,158 (4154)
5 ft. (1.5 m)					***26,577 (12 055)***	16,793 (7617)	19,917 (9034)	11,916 (5405)	14,778 (6703)	8,768 (3977)
Ground line			***19,238 (8726)***	***19,238 (8726)***	27,597 (12 518)	15,968 (7243)	19,312 (8760)	11,371 (5158)	14,438 (6549)	8,457 (3836)
–5 ft. (–1.5 m)	***17,183 (7794)***	***17,183 (7794)***	***18,735 (8498)***	***18,735 (8498)***	27,227 (12 350)	15,646 (7097)	18,999 (8618)	11,091 (5031)	14,275 (6475)	8,309 (3769)
–10 ft. (–3.1 m)	***23,872 (10 828)***	***23,872 (10 828)***	***24,350 (11 045)***	***24,350 (11 045)***	27,280 (12 374)	15,693 (7118)	18,997 (8617)	11,089 (5030)		
–15 ft. (–4.6 m)	***18,398 (8345)***	***18,398 (8345)***	***29,436 (13 352)***	25,622 (11 622)	***23,226 (10 535)***	16,081 (7294)	***17,271 (7834)***	11,462 (5199)		

Engine

Manufacturer and Model ..... Isuzu AH-6HK1XYSA-01, 4-cycle water cooled with direct injection
Non-Road Emission Standards ..... certified to EPA Tier-3 emissions
Cylinders 6
Displacement ..... 475 cu in. (8 L)
SAE Net Rated Power (SAE J1349) @ 1,900 rpm ..... H/P mode: 271 hp (202 kW)
Aspiration ..... turbocharged, intercooled

Cooling

Direct–drive, suction-type fan with remote-mounted drive.
Engine Coolant Rating ..... -34 °F (-37 °C)

Powertrain

Two Speed Propel with Automatic Shift
Travel Speed Low, Maximum Speed ..... 2.1 mph (3.4 km/h)
Travel Speed High, Maximum Speed ..... 3.4 mph (5.5 km/h)

Controls

Pilot Levers, Short Stroke, Low Effort Hydraulic Pilot Controls with Shut-Off Lever

Hydraulics

Open Center, Load Sensing
Main Pumps ..... two variable-displacement axial-piston pumps
Pump Flow, Maximum ..... 2 x 76.1 gpm (2 x 288 L/m)
Pilot Pump ..... one gear
Pilot Pump Maximum Rated Flow ..... 8.9 gpm (34 L/m)
Pilot Pump System Relief Pressure ..... 580 psi (4000 kPa)

System Operating Pressure

Implement Circuits ..... 4,980 psi (34 300 kPa)
Travel Circuits ..... 4,980 psi (34 300 kPa)
Swing Circuits ..... 4,700 psi (32 400 kPa)
Power Boost ..... 5,260 psi (36 300 kPa)

Auxiliary Hydraulic-Flow Adjustable Through Monitor

Cylinders

Heat treated, chrome-plated, polished cylinder rods, hardened steel (replaceable bushings) pivot pins

	Bore	Rod Diameter	Stroke
Boom (2)	6.7 in. (170 mm)	4.5 in. (115 mm)	57.7 in. (1,465 mm)
Arm (1)	7.5 in. (190 mm)	5.1 in. (130 mm)	66.9 in. (1,700 mm)
Heel (1)	5.7 in. (145 mm)	3.7 in. (95 mm)	49.2 in. (1,250 mm)

Electrical

Batteries ..... 2 x 12 volt
Number of Batteries (12 volt) 2
Reserve Capacity ..... 440 minutes
Alternator Rating ..... 80 amp
Optional Work Lights ..... 14 Halogen, two mounted on boom, two right front corner, one right side, one in riser, eight on cab

Undercarriage

Carrier Rollers (each side) 2
Track Rollers (each side) 8
Shoes, Double Grousers (each side) 49
Drawbar Pull ..... 79,590 lb. (36 102 kg)
Track Adjustment ..... hydraulic
Track Guides ..... front and center

Upperstructure

Counterweight Standard.....18,620 lb. (8446 kg)

Swing Mechanism

Swing Speed (standard) .....11 rpm
Swing Torque (standard) .....82,012 lb. ft. (111 194 Nm)
Swing Torque (optional).....109,500 lb. ft. (148 462 Nm)

Ground Pressure

28-in. (700 mm) Double Grouser Shoes.....10.80 psi (63.8 kPa)

Operator Station

Multiple Language Capable, Digital Display	*Indicator Light*	*Audible Warning*	*Digital Display*
Alarm Indicator	X		
Alternator, Low Charge	X		
Auto-Idle	X		
Auxilliary Hydraulics			X
Clock			X
Engine Air Cleaner Restriction	X		
Engine Service Required	X		
Engine Coolant Temperature	X	X	X
Engine Oil Pressure		X	X
Engine Preheat	X		
Engine RPM			X
Fault Code Alert	X		
Fuel Level	X		X
Fuel Rate Display			X
Hourmeter			X
Wiper-Mode Indicator	X		
Work Mode Indicator	X		
Digital Display *(with Diagnostic and Multi-Language Capability)*			X

Serviceability

Hinged, swing-out coolers for easy cleanout, Centralized lube banks, and “O” Ring Face Seal Connectors on hydraulic hoses

Refill Capacities

Fuel Tank .....277 gal. (1,050 L)
Cooling System.....33.8 qt. (32 L)
Engine Oil with Filter.....43.3 qt. (41 L)
Hydraulic Tank .....52 gal. (195 L)
Hydraulic System.....90 gal. (340 L)
Swing Drive.....12 qt. (12 L)
Propel Gearbox (each).....9 qt. (9 L)
Pump Drive Gearbox.....1 qt. (1 L)

Operating Weights

With Full Fuel Tank; 175-lb. (79 kg) Operator; 18,620-lb. (8446 kg) Counterweight;
2,200-lb. (998 kg) Grapple and 28-in. (700 mm) Double Grouser Shoes
SAE Operating Weight .....105,079 lb. (47 663 kg)

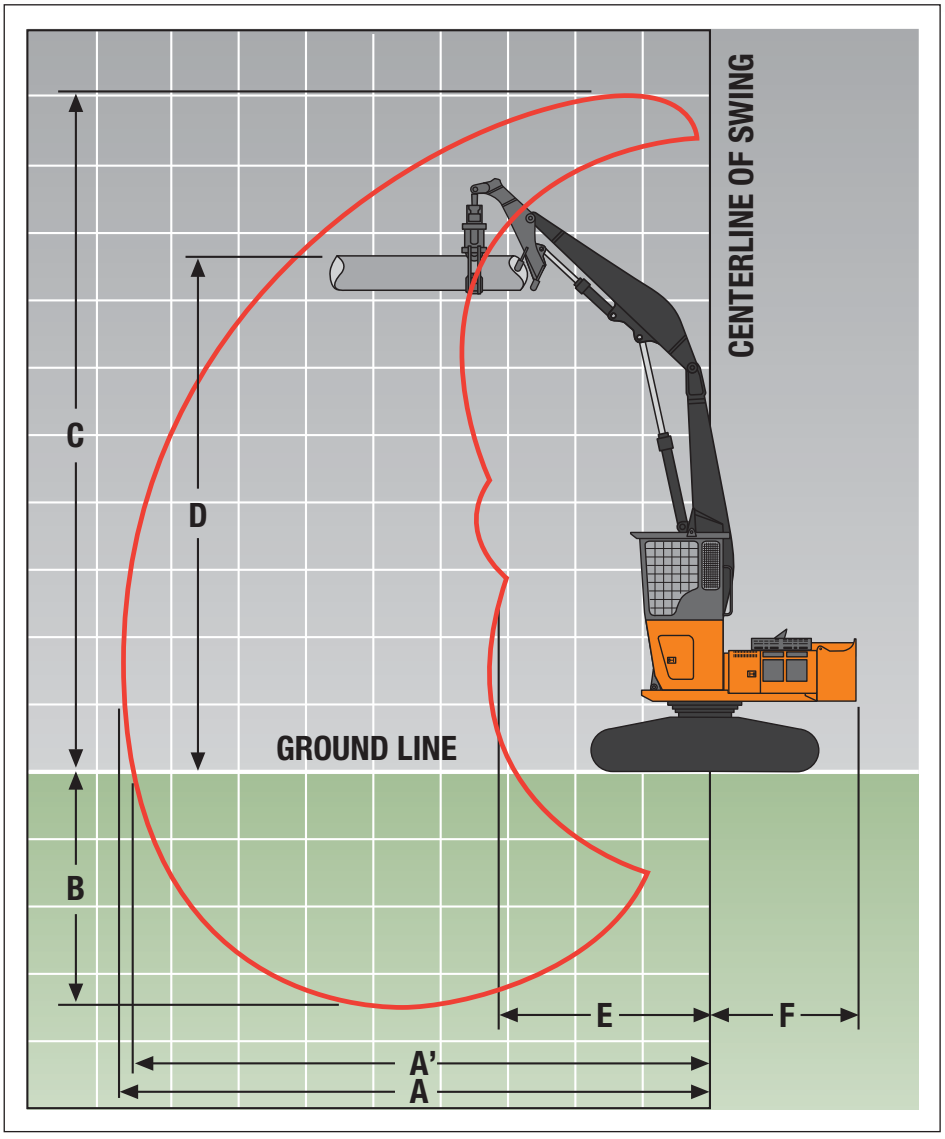
Optional Components

Undercarriage
28-in. (700 mm) Double Grouser Shoes .....38,129 lb. (17 295 kg)
Counterweight Standard.....18,620 lb. (8446 kg)

Operating Dimensions

Lifting Capacity Over Front at Ground Level 20 ft. (6.1 m)
Reach (with Power Boost).....38,700 lb. (17 554 kg)

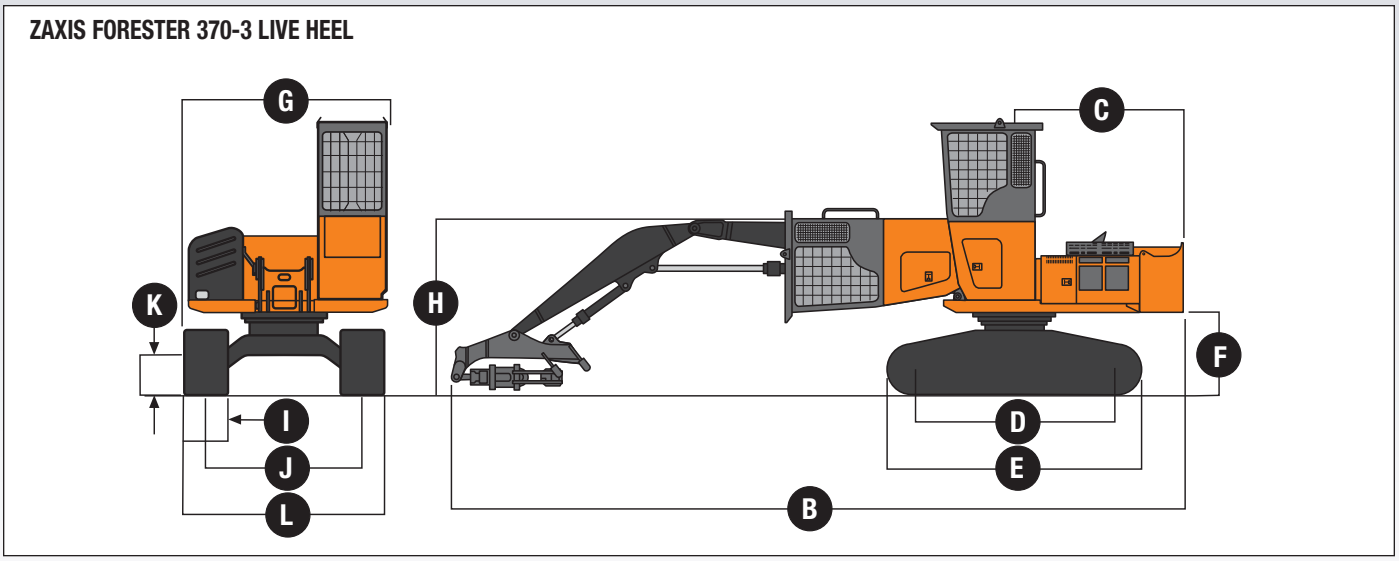
A Maximum Reach.....43 ft. (13.12 m)
A' Maximum Reach at Ground Level .....42 ft. 4 in. (12.90 m)
B Maximum Depth.....17 ft. 2 in. (5.24 m)
C Maximum Height .....49 ft. 11 in. (15.21 m)
D Maximum Level Log Height.....37 ft. 3 in. (11.35 m)
E Minimum Swing Radius.....15 ft. 9 in. (4.80 m)
F Tail Swing Radius.....12 ft. (3.66 m)



Machine not exactly as shown. Illustration for dimensioning purposes only.

Machine Dimensions

ZAXIS FORESTER 370-3 LIVE HEEL



Machine not exactly as shown.
Illustration for dimensioning purposes only.

- **B** Overall Length .....54 ft. 6 in. (16.62 m)
- **C** Rear-End Length/Swing Radius .....11 ft. 12 in. (3.66 m)
- **D** Distance Between Idler/Sprocket Centerline.....13 ft. 3 in. (4.05 m)
- **E** Undercarriage Length .....16 ft. 9 in. (5.10 m)
- **F** Counterweight Clearance.....4 ft. 10 in. (1.47 m)
- **G** Maximum Shipping Width.....12 ft. 2 in. (3.70 m)
- **H** Cab Height (Transport) .....11 ft. 7 in. (3.54 m)
- **I** Track Width Double Grouser Shoes.....28 in. (0.70 m)
- **J** Gauge Width.....9 ft. 7 in. (2.91 m)
- **K** Ground Clearance.....2 ft. 5 in. (0.74 m)
- **L** Undercarriage Width.....11 ft. 11 in. (3.61 m)

Lift Chart

Boldface italic type indicates hydraulic-limited capacities with Power Boost on; lightface type indicates stability-limited capacities, in. lb. (kg).
Figures do not exceed 87 percent of hydraulic capacity or 75 percent of weight needed to tip machine. Shown capacities are net figures (Grapple weight is deducted).

Load Point	15 ft. (4.6 m)		20 ft. (6.1 m)		25 ft. (7.6 m)		30 ft. (9.1 m)		35 ft. (10.7 m)		40 ft. (12.2 m)		43 ft. (13.1 m)	
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	Over Front	Over Side
40 ft. (12.2 m)			***32,190*** ***(14 601)***	30,220 (13 708)	***25,660*** ***(11 639)***	21,260 (9643)								
35 ft. (10.7 m)			***29,220*** ***(13 254)***	***29,220*** ***(13 254)***	***26,340*** ***(11 948)***	21,020 (9535)	21,360 (9689)	15,250 (6917)						
30 ft. (9.1 m)			***28,570*** ***(12 959)***	***28,570*** ***(12 959)***	***25,520*** ***(11 576)***	21,760 (9870)	21,080 (9562)	14,980 (6795)	16,530 (7498)	11,680 (5298)				
25 ft. (7.6 m)			***28,620*** ***(12 982)***	***28,620*** ***(12 982)***	***26,020*** ***(11 803)***	21,830 (9902)	21,410 (9712)	15,300 (6940)	15,660 (7103)	10,850 (4922)				
20 ft. (6.1 m)			***29,280*** ***(13 281)***	***29,280*** (13 281)	***27,300*** ***(12 383)***	21,530 (9766)	21,360 (9689)	15,240 (6913)	15,890 (7208)	11,080 (5026)	12,760 (5788)	8,780 (3983)		
15 ft. (4.6 m)			***35,570*** ***(16 134)***	31,200 (14 152)	***29,030*** ***(13 168)***	20,920 (9489)	21,090 (9566)	14,990 (6799)	16,070 (7289)	11,250 (5103)	12,780 (5797)	8,800 (3992)		
10 ft. (3.1 m)			***29,610*** ***(13 431)***	***29,610*** ***(13 431)***	28,330 (12 850)	20,140 (9135)	20,640 (9362)	14,570 (6609)	16,100 (7303)	11,270 (5112)	12,620 (5724)	8,640 (3919)		
5 ft. (1.5 m)			***40,210*** ***(18 239)***	28,280 (12 828)	27,410 (12 433)	19,300 (8754)	20,460 (9281)	14,400 (6532)	15,820 (7176)	11,010 (4994)	12,430 (5638)	8,460 (3837)	10,910 (4949)	7,300 (3311)
Ground line	***56,420*** ***(25 592)***	42,150 (19 119)	38,690 (17 550)	26,690 (12 107)	26,930 (12 215)	18,850 (8550)	20,010 (9076)	13,980 (6341)	15,450 (7008)	10,660 (4835)	12,270 (5566)	8,310 (3769)		
–5 ft. (–1.5 m)	***53,820*** ***(24 413)***	40,140 (18 207)	37,680 (17 092)	25,790 (11 698)	26,240 (11 902)	18,220 (8265)	19,600 (8891)	13,580 (6160)	15,220 (6904)	10,440 (4736)	***11,580*** ***(5253)***	8,280 (3756)		
–10 ft. (–3.1 m)	***46,770*** ***(21 215)***	39,420 (17 881)	***32,180*** ***(14 597)***	25,520 (11 576)	***25,830*** ***(11 716)***	17,950 (8142)	19,400 (8800)	13,410 (6083)	***14,370*** ***(6518)***	10,400 (4717)				
–15 ft. (–4.6 m)	***35,550*** ***(16 125)***	***35,550*** ***(16 125)***	***27,600*** ***(12 519)***	24,830 (11 263)	***18,980*** ***(8609)***	18,030 (8178)	***13,990*** ***(6346)***	13,500 (6124)						

Engine

Manufacturer and Model ..... Isuzu AH-6HK1XYSA-01, 4-cycle water cooled with direct injection
Non-Road Emission Standards ..... certified to EPA Tier-3 emissions
Cylinders 6
Displacement ..... 475 cu in. (8 L)
SAE Net Rated Power (SAE J1349) @ 1,900 rpm ..... H/P mode: 271 hp (202 kW)
Aspiration ..... turbocharged, intercooled

Cooling

Direct–drive, suction-type fan with remote-mounted drive.
Engine Coolant Rating ..... -34 °F (-37 °C)

Powertrain

Two Speed Propel with Automatic Shift
Travel Speed Low, Maximum Speed ..... 2.1 mph (3.4 km/h)
Travel Speed High, Maximum Speed ..... 3.4 mph (5.5 km/h)

Controls

Pilot Levers, Short Stroke, Low Effort Hydraulic Pilot Controls with Shut-Off Lever

Hydraulics

Open Center, Load Sensing
Main Pumps ..... two variable-displacement axial-piston pumps
Pump Flow, Maximum ..... 2 x 76.1 gpm (2 x 288 L/m)
Pilot Pump ..... one gear
Pilot Pump Maximum Rated Flow ..... 8.9 gpm (34 L/m)
Pilot Pump System Relief Pressure ..... 580 psi (4000 kPa)

System Operating Pressure

Implement Circuits ..... 4,980 psi (34 300 kPa)
Travel Circuits ..... 4,980 psi (34 300 kPa)
Swing Circuits ..... 4,700 psi (32 400 kPa)
Power Boost ..... 5,260 psi (36 300 kPa)
Auxiliary Hydraulic-Flow Adjustable Through Monitor

Cylinders

Heat treated, chrome-plated, polished cylinder rods, hardened steel (replaceable bushings) pivot pins

	Bore	Rod Diameter	Stroke
Boom (2)	6.7 in. (170 mm)	4.5 in. (115 mm)	57.7 in. (1,465 mm)
Arm (1)	7.5 in. (190 mm)	5.1 in. (130 mm)	66.9 in. (1,700 mm)
Tilt (1)	4.53 in. (115 mm)	3.15 in. (80 mm)	41.73 in. (1060 mm)

Electrical

Batteries ..... 2 x 12 volt
Number of Batteries (12 volt) 2
Reserve Capacity ..... 440 minutes
Alternator Rating ..... 80 amp
Optional Work Lights ..... 14 Halogen, two mounted on boom, two right front corner, one right side, one in riser, eight on cab

Undercarriage

Carrier Rollers (each side) 2
Track Rollers (each side) 8
Shoes, Double Grousers (each side) 49
Drawbar Pull ..... 79,590 lb. (36 102 kg)
Track Adjustment ..... hydraulic
Track Guides ..... front and center

Upperstructure

Counterweight Standard.....18,620 lb. (8446 kg)

Swing Mechanism

Swing Speed (standard) .....11 rpm)
Swing Torque (standard) .....82,012 lb. ft. (111 194 Nm)
Swing Torque (optional).....109,500 lb. ft. (148 462 Nm)

Ground Pressure

28-in. (700 mm) Double Grouser Shoes.....10.80 psi (63.8 kPa)

Operator Station

Multiple Language Capable, Digital Display	*Indicator Light*	*Audible Warning*	*Digital Display*
Alarm Indicator	X		
Alternator, Low Charge	X		
Auto-Idle	X		
Auxilliary Hydraulics			X
Clock			X
Engine Air Cleaner Restriction	X		
Engine Service Required	X		
Engine Coolant Temperature	X	X	X
Engine Oil Pressure		X	X
Engine Preheat	X		
Engine RPM			X
Fault Code Alert	X		
Fuel Level	X		
Fuel Rate Display			X
Hourmeter			X
Wiper-Mode Indicator	X		
Work Mode Indicator	X		
Digital Display *(with Diagnostic and Multi-Language Capability)*			X

Serviceability

Hinged, swing-out coolers for easy cleanout, Centralized lube banks, and “O” Ring Face Seal Connectors on hydraulic hoses

Refill Capacities

Fuel Tank .....277 gal. (1,050 L)
Cooling System.....33.8 qt. (32 L)
Engine Oil with Filter.....43.3 qt. (41 L)
Hydraulic Tank .....52 gal. (195 L)
Hydraulic System.....90 gal. (340 L)
Swing Drive.....12 qt. (12 L)
Propel Gearbox (each).....9 qt. (9 L)
Pump Drive Gearbox.....1 qt. (1 L)

Operating Weights

With Full Fuel Tank; 175-lb. (79 kg) Operator; 18,620-lb. (8446 kg) Counterweight;
5,600-lb. (2540 kg) Grapple and 28-in. (700 mm) Double Grouser Shoes
SAE Operating Weight .....105,740 lb. (47 963 kg)

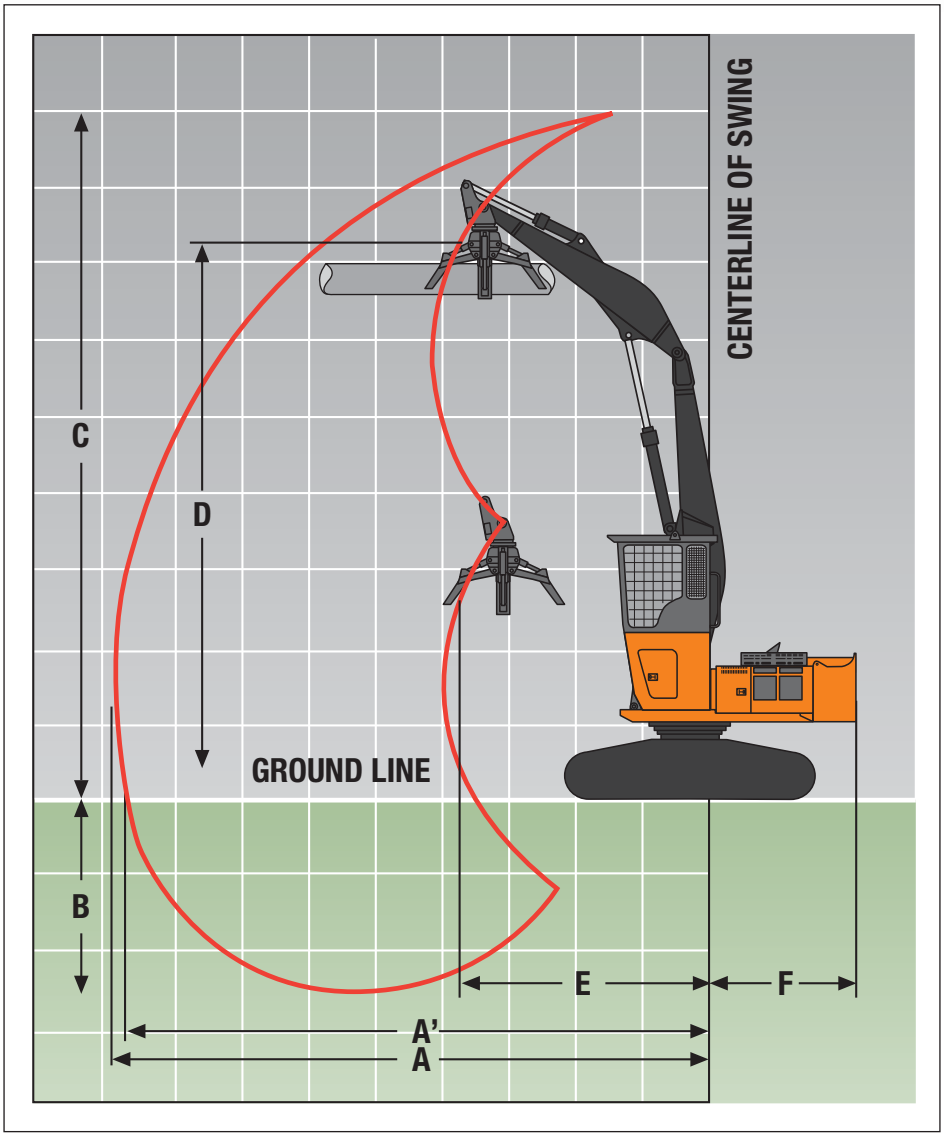
Optional Components

Undercarriage
28-in. (700 mm) Double Grouser Shoes .....38,129 lb. (17 295 kg)
Counterweight Standard.....18,620 lb. (8446 kg)

Operating Dimensions

Lifting Capacity Over Front at Ground Level 20 ft. (6.1 m)
Reach (with Power Boost).....36,636 lb. (16 618 kg)

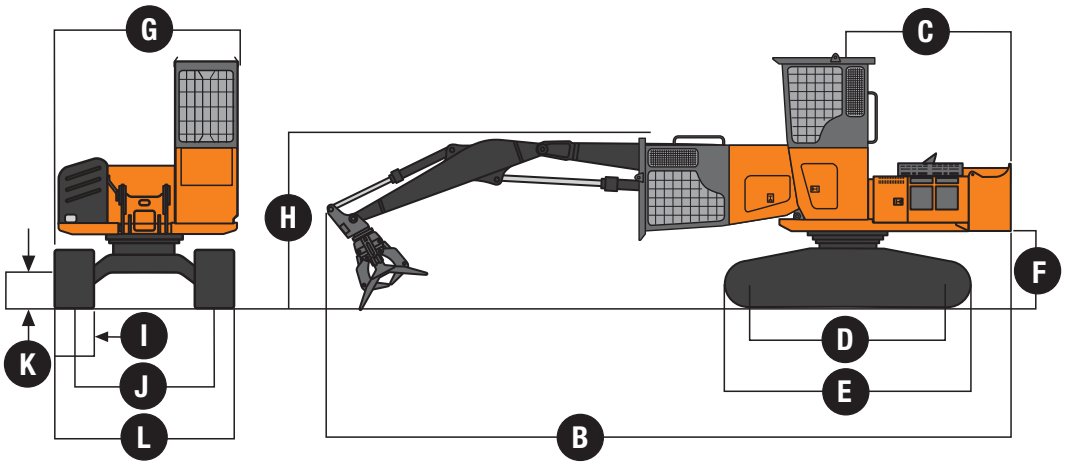
A Maximum Reach.....38 ft. 4 in. (11.70 m)
A' Maximum Reach at Ground Level .....37 ft. 7 in. (11.45 m)
B Maximum Depth.....12 ft. 6 in. (3.82 m)
C Maximum Height .....45 ft. 3 in. (13.78 m)
D Maximum Level Log Height.....35 ft. 10 in. (10.91 m)
E Minimum Swing Radius.....15 ft. 7 in. (4.76 m)
F Tail Swing Radius.....12 ft. (3.66 m)



Machine not exactly as shown. Illustration for dimensioning purposes only.

Machine Dimensions

ZAXIS FORESTER 370-3 BUTT & TOP



B	Overall Length	52 ft. 6 in. (15.99 m)
C	Rear-End Length/Swing Radius	11 ft. 12 in. (3.66 m)
D	Distance Between Idler/Sprocket Centerline	13 ft. 3 in. (4.05 m)
E	Undercarriage Length	16 ft. 9 in. (5.10 m)
F	Counterweight Clearance	4 ft. 10 in. (1.47 m)
G	Maximum Shipping Width	12 ft. 2 in. (3.70 m)
H	Cab Height (Transport)	11 ft. 7 in. (3.54 m)
I	Track Width Double Grouser Shoes	28 in. (0.70 m)
J	Gauge Width	9 ft. 7 in. (2.91 m)
K	Ground Clearance	2 ft. 5 in. (0.74 m)
L	Undercarriage Width	11 ft. 11 in. (3.61 m)

Machine not exactly as shown.
Illustration for dimensioning purposes only.

Lift Chart

Boldface italic type indicates hydraulic-limited capacities with Power Boost on; lightface type indicates stability-limited capacities, in. lb. (kg).
Figures do not exceed 87 percent of hydraulic capacity or 75 percent of weight needed to tip machine. Shown capacities are net figures (Grapple weight is deducted).

Load Point	15 ft. (4.6 m)		20 ft. (6.1 m)		25 ft. (7.6 m)		30 ft. (9.1 m)		35 ft. (10.7 m)		38.3 ft. (11.7 m)	
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. (12.2 m)	***36,810 (16 697)***	***36,810 (16 697)***	***26,620 (12 075)***	***26,620 (12 075)***								
35 ft. (10.7 m)			***29,890 (13 558)***	***29,890 (13 558)***	***26,260 (11 911)***	20,100 (9 117)						
30 ft. (9.1 m)			***28,800 (13 064)***	***28,800 (13 064)***	***25,620 (11 621)***	20,650 (9367)	20,150 (9140)	14,080 (6387)				
25 ft. (7.6 m)			***29,430 (13 349)***	***29,430 (13 349)***	***25,720 (11 667)***	20,600 (9344)	20,390 (9249)	14,310 (6491)				
20 ft. (6.1 m)	***30,720 (13 935)***	***30,720 (13 935)***	***31,530 (14 302)***	30,290 (13 739)	***26,730 (12 125)***	20,170 (9149)	20,210 (9167)	14,140 (6414)	14,850 (6736)	10,060 (4563)		
15 ft. (4.6 m)	***38,490 (17 459)***	***38,490 (17 459)***	***34,680 (15 731)***	28,970 (13 141)	27,630 (12 533)	19,460 (8827)	19,830 (8995)	13,780 (6251)	14,740 (6686)	9,960 (4518)		
10 ft. (3.1 m)			***37,870 (17 178)***	27,370 (12 415)	26,710 (12 116)	18,610 (8441)	19,330 (8768)	13,310 (6037)	14,520 (6586)	9,750 (4423)		
5 ft. (1.5 m)			37,820 (17 155)	25,860 (11 730)	25,830 (11 716)	17,800 (8074)	18,850 (8550)	12,860 (5833)	14,290 (6482)	9,530 (4323)	12,110 (5493)	7,920 (3592)
Ground line	***53,420 (24 231)***	39,800 (18 053)	36,640 (16 620)	24,800 (11 249)	25,150 (11 408)	17,170 (7788)	18,470 (8378)	12,500 (5670)	14,130 (6409)	9,380 (4255)		
–5 ft. (–1.5 m)	***46,240 (20 974)***	39,180 (17 772)	***34,810 (15 790)***	24,270 (11 009)	24,760 (11 231)	16,810 (7625)	18,280 (8292)	12,320 (5588)	***11,780 (5343)***	9,390 (4259)		
–10 ft. (–3.1 m)	***35,040 (15 894)***	***35,040 (15 894)***	***27,500 (12 474)***	24,210 (10 982)	***20,600 (9344)***	16,780 (7611)	***13,670 (6201)***	12,380 (5616)				

HITACHI

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 – gives you vital information on the projected life span of components and lets 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 Hitachi and is honored by all Hitachi construction dealers.

Customer Support Advisors (CSAs) – Hitachi believes 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.

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