HITACHI

ZAXIS FORESTER 240-3

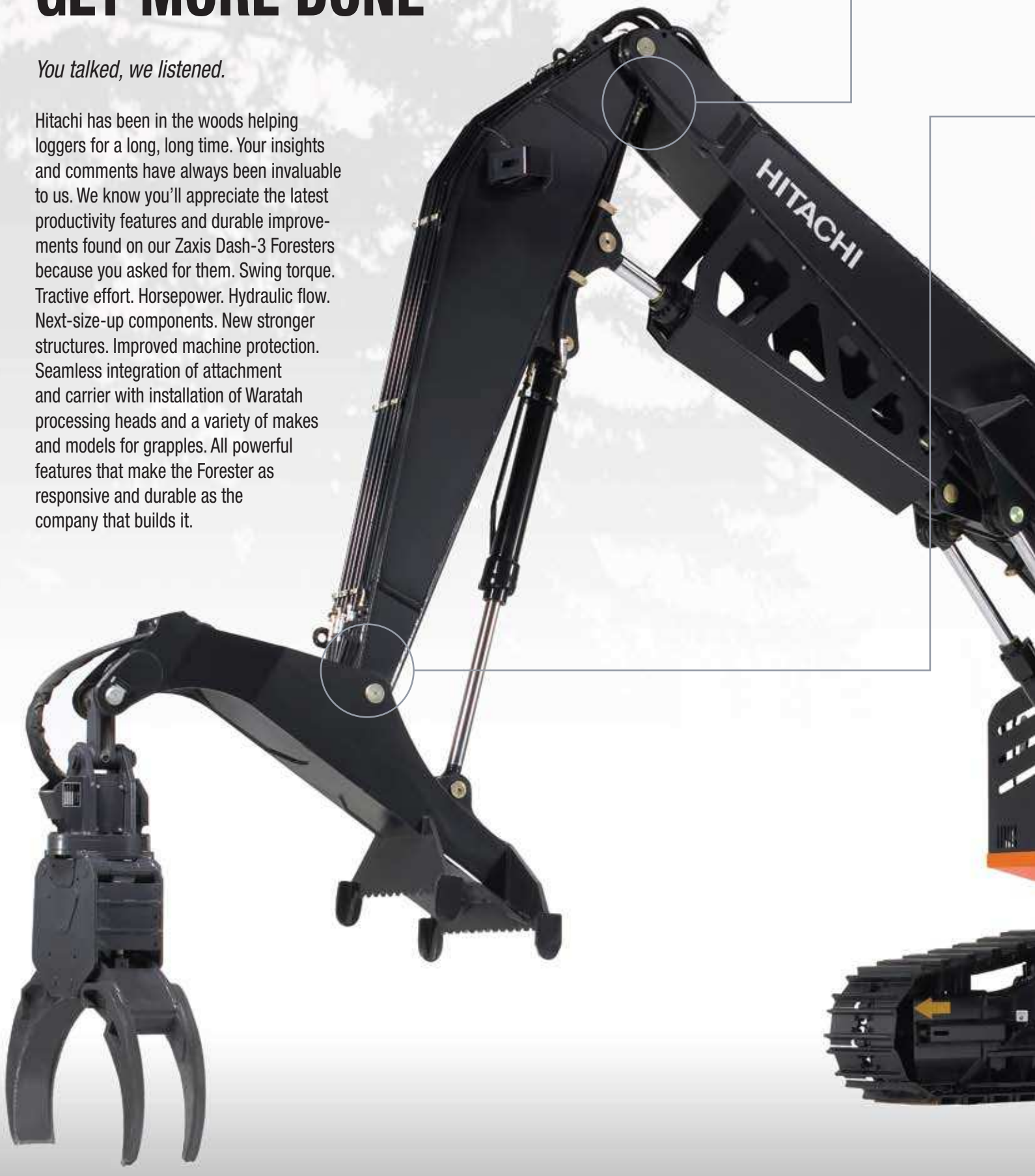
- **Engine Net Power:** 182 hp (136 kW) @ 2,100 rpm
- **Road Builder, Processor, Live Heel, Butt & Top, and Power Clam Models**

Courtesy of Crane.Market

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.



Courtesy of Crane.Market

■ **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.

Courtesy of Crane.Market

Engine

Manufacturer and Model ..... Isuzu AH-4HK1XYSA-03, water-cooled with direct injection certified to EPA Tier-3 emissions
Cylinders 4
Displacement ..... 317 cu. in. (5.2 L)
Net Power (ISO9249) ..... 182 hp (136 kW) @ 2,100 rpm
Maximum Net Torque ..... 499 lb•ft (676 Nm) @ 1,500 rpm
Engine Bore and Stroke ..... 4.53 x 4.92 in. (115 x 125 mm)
Aspiration ..... turbocharged, air-to-air charge air cooler
Fuel Filter ..... double filter with water separator, remote mounted
Oil Filter ..... full flow, remote mounted

Cooling

Designed to match the engine, direct drive fan with reversing option, engine coolant and hydraulic oil coolers are now arranged side by side, external debris protection
Engine Coolant Rating ..... -34 °F (-37 °C)

Powertrain

Two-Speed Propel with Automatic Shift
Travel Speed Low, Maximum Speed ..... 2.1 mph (3.3 km/h)
Travel Speed High, Maximum Speed ..... 3.4 mph (5.5 km/h)

Controls

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

Brake

Swing Brake Multiple Wet Disc, Spring Applied, Hydraulically Released
Propel Brake, Spring Applied, Hydraulic Release

Hydraulics

Open Center, Load Sensing
Main Pumps ..... two variable-displacement pumps
Maximum Rated Flow ..... 2 x 65.5 gpm (2 x 248 L/m)
Pilot Pump ..... one gear
Maximum Rated Flow ..... 8.9 gpm (34 L/m)
System Relief Pressure ..... 566 psi (3900 kPa)

System Operating Pressure

Implement Circuits ..... 4,980 psi (34 336 kPa)
Travel Circuits ..... 4,980 psi (34 336 kPa)
Swing Circuits ..... 4,700 psi (32 405 kPa)
Power Boost ..... 5,260 psi (36 266 kPa)
Pilot Circuits @ 8.9 gpm (34 L/m) ..... 566 psi (3900 kPa)

Oil Filtration Full-Flow Return with Bypass and One Pilot Oil Filter

Cylinders

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

	Bore	Rod Diameter	Stroke
Boom (2)	4.9 in. (125 mm)	3.5 in. (90 mm)	54.7 in. (1390 mm)
Arm (1)	5.5 in. (140 mm)	3.9 in. (100 mm)	63.4 in. (1610 mm)
Bucket (1)	5.1 in. (130 mm)	3.5 in. (90 mm)	42.3 in. (1075 mm)

Electrical

Voltage ..... 24 volt
Number of Batteries ..... 2 x 12 volt
Reserve Capacity ..... 440 minutes
Alternator Rating ..... 80 amp
Optional Alternator Rating ..... 130 amp

Undercarriage

Carrier Rollers (per side)	2
Track Rollers (per side)	8
Shoes, Double Grousers (per side)	45
Track Shoe Width, Standard	28 in. (700 mm)
Drawbar Pull	56,075 lb. (25 435 kg)
Track Adjustment	hydraulic
Track Guides	full length “ski” type

Upperstructure

Counterweight, Standard	10,633 lb. (4823 kg)

Swing Mechanism

Swing Speed	12.6 rpm
Swing Torque	56,896 lb•ft (77 140 Nm)

Ground Pressure

28-in. (700 mm) Double-Grouser Shoes	7.80 psi (53.8 kPa)

Operator Station Monitor

	Indicator Light	*Audible Warning*	*Gauge*	*Digital Display*
Alarm Indicator	X			
Alternator, Low Charge	X			
Auto-Idle	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	
Hourmeter				X
Work Mode Indicator	X			

Serviceability

Hinged, Swing-Out Coolers for easy cleanout, Centralized Lube Banks, and “O” Ring Face Seal Connectors on most hydraulic hoses

Diagnostics

Machine Information Center (MIC), Computerized In-Cab Monitor Information, and Fluid Sampling Ports

Fluid Change Interval, Hours

Engine Oil	500
Hydraulic Oil	5,000

Filters	*Filtration (microns)*	*Service Hours*	*Vertically Mounted*
Engine Oil Filter, Remote Mounted		500	yes
Fuel Filter, Remote Mounted		500	yes
Hydraulic Filter		2,000	yes
Return Oil Filter	10		

Sight Gauges

Hydraulic Reservoir

Engine-Oil Sampling Valve

Serviceability (continued)

Refill Capacities

Fuel Tank	277 gal. (1050 L)
Cooling System	7 gal. (26 L)
Engine Oil with Filter	6 gal. (23 L)
Hydraulic Tank	64 gal. (243 L)
Hydraulic System	74 gal. (280 L)
Swing Drive	8.0 qt. (7.6 L)
Propel Gearbox (each)	9.0 qt. (8.5 L)
Pump Drive Gearbox	1.2 qt. (1.1 L)

Operating Weights

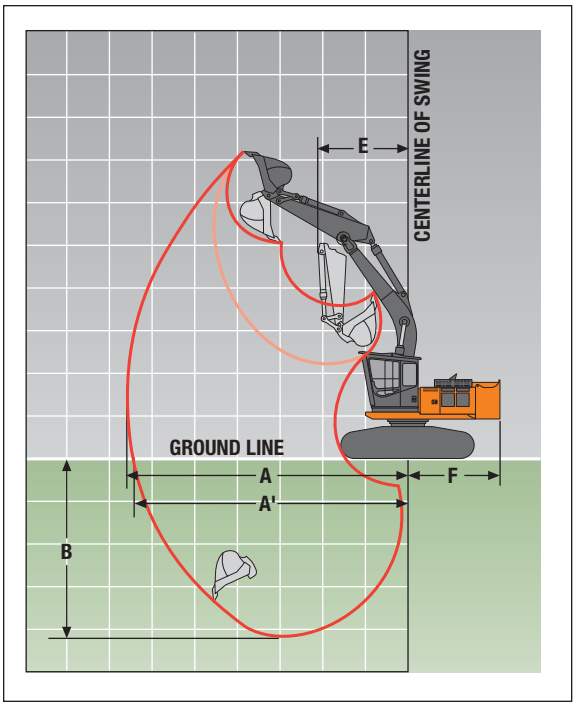
With 1818-lb. (840 kg) Full Fuel Tank; 175-lb. (79 kg) Operator; 1.38-cu.-yd. (1.06 m^3), 42-in. (1065 mm), 2,195-lb. (996 kg) Bucket; 9-ft. 9-in. (2.96 m) Arm; 10,633-lb. (4823 kg) Counterweight; and 28-in. (700 mm) Double-Grouser Shoes

SAE Operating Weight	68,824 lb (31 218 kg)

Operating Dimensions

Arm Length 9 ft. 9 in. (2.96 m)

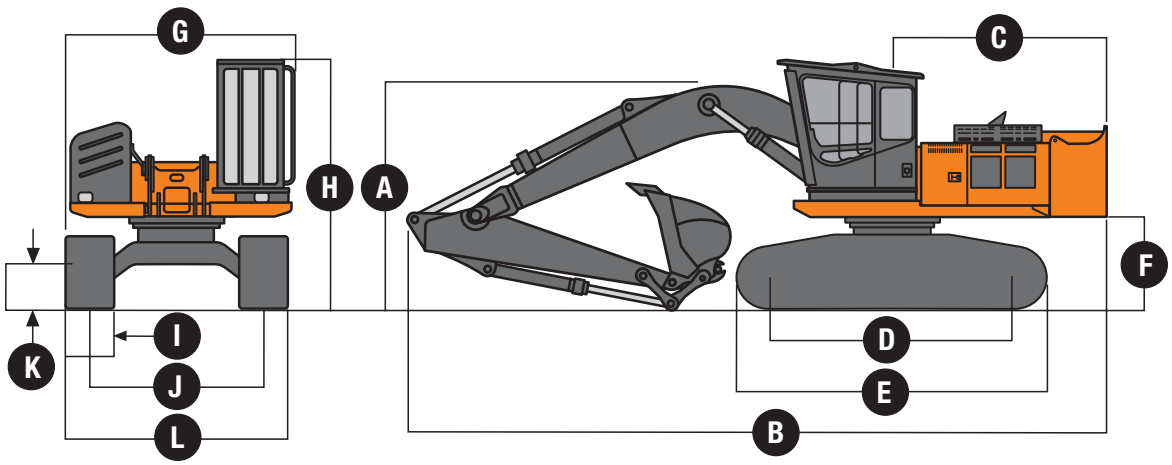
	Arm Force with 28-in. (700 mm)	
	Double-Grouser Shoes (with power boost)	27,629 lb. (122.9 kN)
	Bucket Digging Force with 28-in. (700 mm)	
	Double-Grouser Shoes (with power boost)	37,543 lb. (167.0 kN)
	Lifting Capacity Over Front at Ground Level	
	20-ft (6.1 m) Reach (with power boost)	17,721 lb. (8038 kg)
A	Maximum Reach	33 ft. 2 in. (10.10 m)
A'	Maximum Reach at Ground Level	32 ft. 4 in. (9.86 m)
B	Maximum Depth	20 ft. 4 in. (6.20 m)
C	Maximum Height	—
D	Maximum Level Log Height	—
E	Minimum Swing Radius	10 ft. 5 in. (3.17 m)
F	Tail Swing Radius	10 ft. 10 in. (3.30 m)



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

Machine Dimensions

ZAXIS FORESTER 240-3 ROAD BUILDER



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

A	Height	12 ft. 4 in. (3.74 m)
B	Overall Length	34 ft. 4 in. (10.46 m)
C	Rear-End Length/Swing Radius	10 ft. 8 in. (3.25 m)
D	Distance Between Idler/Sprocket Centerline	12 ft. 3 in. (3.73 m)
E	Undercarriage Length	15 ft. 5 in. (4.69 m)
F	Counterweight Clearance	4 ft. 7 in. (1.40 m)
G	Maximum Shipping Width	11 ft. 2 in. (3.39 m)
H	Cab Height (transport)	12 ft. 5 in. (3.77 m)
I	Track Width, Double-Grouser Shoes	28 in. (0.71 m)
J	Gauge Width	8 ft. 7 in. (2.62 m)
K	Ground Clearance	2 ft. 4 in. (0.71 m)
L	Undercarriage Width	10 ft. 11 in. (3.32 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.

Load Point	5 ft. (1.5 m)		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)	
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
With 9-ft. 9-in. (2.96 m) Arm, 1.38-cu.-yd (1.06 m³) Bucket, and 28-in. (700 mm) Double-Grouser Shoes												
20 ft. (6.1 m)									***8,240***	***8,240***		
									(3738)	***(3738)***		
15 ft. (4.6 m)							***10,540***	***10,540***	***9,890***	9,020		
							(4781)	***(4781)***	***(4486)***	(4091)		
10 ft. (3.1 m)					***17,520***	***17,520***	***13,050***	12,590	***11,070***	8,630	***7,210***	6,110
					(7947)	***(7947)***	***(5919)***	(5711)	***(5021)***	(3915)	***(3270)***	(2771)
5 ft. (1.5 m)					***23,160***	18,060	***15,760***	11,720	***12,480***	8,180	***9,210***	5,920
					(10 505)	(8192)	***(7149)***	(5316)	***(5661)***	(3710)	***(4178)***	(2685)
Ground Line					***25,630***	17,210	***17,720***	11,100	12,590	7,830	***9,240***	5,750
					(11 626)	(7806)	***(8038)***	(5035)	(5711)	(3552)	***(4191)***	(2608)
–5 ft. (–1.5 m)			***12,760***	***12,760***	***25,650***	17,050	17,710	10,820	12,370	7,630		
			(5788)	***(5788)***	***(11 635)***	(7734)	(8033)	(4908)	(5611)	(3461)		
–10 ft. (–3.1 m)			***19,350***	***19,350***	***24,120***	17,200	17,710	10,820	12,390	7,650		
			(8777)	***(8777)***	***(10 941)***	(7802)	(8033)	(4908)	(5620)	(3470)		
–15 ft. (–4.6 m)			***27,600***	***27,600***	***20,730***	17,630	***15,490***	11,110				
			(12 519)	***(12 519)***	***(9403)***	(7997)	***(7026)***	(5039)				

Engine

Manufacturer and Model ..... Isuzu AH-4HK1XYSA-03, water-cooled with direct injection certified to EPA Tier-3 emissions
Cylinders 4
Displacement ..... 317 cu. in. (5.2 L)
Net Power (ISO9249) ..... 182 hp (136 kW) @ 2,100 rpm
Maximum Net Torque ..... 499 lb•ft (676 Nm) @ 1,500 rpm
Engine Bore and Stroke ..... 4.53 x 4.92 in. (115 x 125 mm)
Aspiration ..... turbocharged, air-to-air charge air cooler
Fuel Filter ..... double filter with water separator, remote mounted
Oil Filter ..... full flow, remote mounted

Cooling

Designed to match the engine, direct drive fan with reversing option, engine coolant and hydraulic oil coolers are now arranged side by side, external debris protection
Engine Coolant Rating ..... -34 °F (-37 °C)

Powertrain

Two-Speed Propel with Automatic Shift
Travel Speed Low, Maximum Speed ..... 2.1 mph (3.3 km/h)
Travel Speed High, Maximum Speed ..... 3.4 mph (5.5 km/h)

Controls

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

Brake

Swing Brake Multiple Wet Disc, Spring Applied, Hydraulically Released
Propel Brake, Spring Applied, Hydraulic Release

Hydraulics

Open Center, Load Sensing
Main Pumps ..... two variable-displacement pumps
Maximum Rated Flow ..... 2 x 65.5 gpm (2 x 248 L/m)
Pilot Pump ..... one gear
Maximum Rated Flow ..... 8.9 gpm (34 L/m)
System Relief Pressure ..... 566 psi (3900 kPa)

System Operating Pressure

Implement Circuits ..... 4,980 psi (34 336 kPa)
Travel Circuits ..... 4,980 psi (34 336 kPa)
Swing Circuits ..... 4,700 psi (32 405 kPa)
Power Boost ..... 5,260 psi (36 266 kPa)
Pilot Circuits @ 8.9 gpm (34 L/m) ..... 566 psi (3900 kPa)

Oil Filtration Full-Flow Return with Bypass and One Pilot Oil Filter

Cylinders

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

	Bore	Rod Diameter	Stroke
Boom (2)	4.9 in. (125 mm)	3.5 in. (90 mm)	54.7 in. (1390 mm)
Arm (1)	5.5 in. (140 mm)	3.9 in. (100 mm)	63.4 in. (1610 mm)

Electrical

Voltage ..... 24 volt
Number of Batteries ..... 2 x 12 volt
Reserve Capacity ..... 440 minutes
Alternator Rating ..... 80 amp
Optional Alternator rating ..... 130 amp

Undercarriage

Carrier Rollers (per side)	2
Track Rollers (per side)	8
Shoes, Double Grousers (per side)	45
Track Shoe Width, Standard	28 in. (700 mm)
Drawbar Pull	56,075 lb (25 435 kg)
Track Adjustment	hydraulic
Track Guides	full length “ski” type

Upperstructure

Counterweight, Standard	10,633 lb. (4823 kg)

Swing Mechanism

Swing Speed	12.6 rpm
Swing Torque	56,896 lb•ft (77 140 Nm)

Ground Pressure

28-in. (700 mm) Double-Grouser Shoes	8.37 psi (57.7 kPa)

Operator Station Monitor

	Indicator Light	*Audible Warning*	*Gauge*	*Digital Display*
Alarm Indicator				
Alternator, Low Charge	X			
Auto-Idle	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	
Hourmeter				X
Work Mode Indicator	X			

Serviceability

Hinged, Swing-Out Coolers for easy cleanout, Centralized Lube Banks, and “O” Ring Face Seal Connectors on most hydraulic hoses

Diagnostics

Machine Information Center (MIC), Computerized In-Cab Monitor Information, and Fluid Sampling Ports

Fluid Change Interval, Hours

Engine Oil	500
Hydraulic Oil	5,000

Filters	*Filtration (microns)*	*Service Hours*	*Vertically Mounted*
Engine Oil Filter, Remote Mounted		500	yes
Fuel Filter, Remote Mounted		500	yes
Hydraulic Filter		2,000	yes
Return Oil Filter	10		

Sight Gauges

Hydraulic Reservoir

Engine-Oil Sampling Valve

Serviceability (continued)

Refill Capacities

Fuel Tank	277 gal. (1050 L)
Cooling System	8 gal. (30.3 L)
Engine Oil with Filter	7 gal. (24.6 L)
Hydraulic Tank	64 gal (243 L)
Hydraulic System	74 gal. (280 L)
Swing Drive	8.0 qt. (7.6 L)
Propel Gearbox (each)	9.0 qt. (8.5 L)
Pump Drive Gearbox	1.2 qt. (1.1 L)

Operating Weights

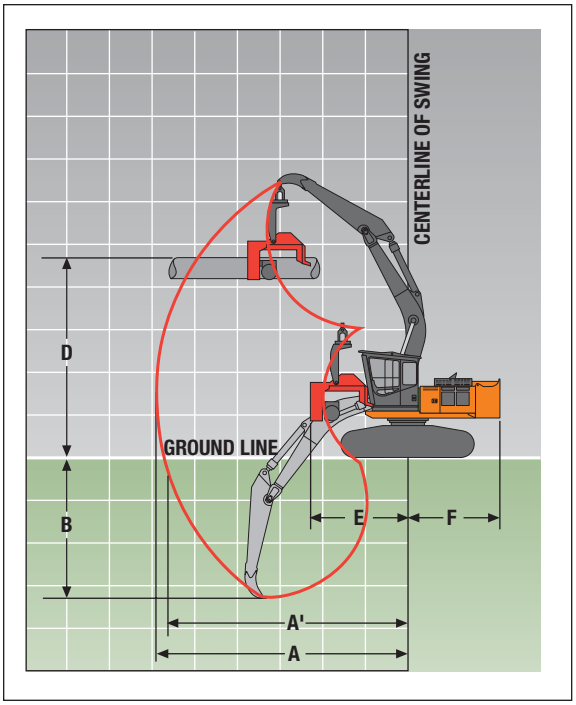
With 1,818-lb. (840 kg) Full Fuel Tank; 175-lb. (79 kg) Operator; 4,800-lb. (2177 kg) Processor Head, 10,633-lb. (4823 kg) Counterweight; and 28-in. (700 mm) Double-Grouser Shoes

SAE Operating Weight	73,833 lb. (33 490 kg)

Operating Dimensions

Arm Length 11 ft. 3 in. (3.43 m)

	Lifting Capacity Over Front at Ground Level	
	20-ft. (6.1 m) Reach (with power boost)	14,533 lb. (6592 kg)
A	Maximum Reach	29 ft. 4 in. (8.94 m)
A'	Maximum Reach at Ground Level	28 ft. 5 in. (8.66 m)
B	Maximum Depth	16 ft. 2 in. (4.92 m)
C	Maximum Height	—
D	Maximum Level Log Height	23 ft. 3 in. (7.08 m)
E	Minimum Swing Radius	11 ft. 5 in. (3.47 m)
F	Tail Swing Radius	10 ft. 10 in. (3.30 m)



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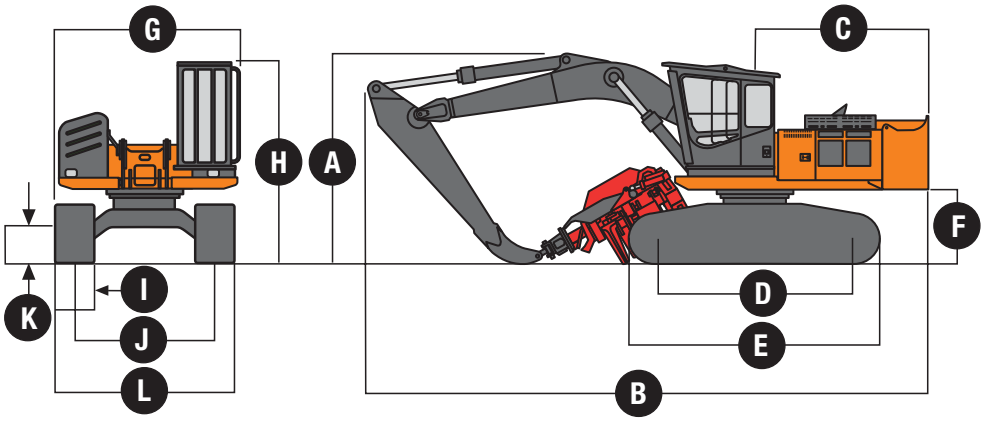
Machine Dimensions

ZAXIS FORESTER 240-3 PROCESSOR



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

A	Height	13 ft. 1 in. (3.99 m)
B	Overall Length	35 ft. 4 in. (10.77 m)
C	Rear-End Length/Swing Radius	10 ft. 8 in. (3.25 m)
D	Distance Between Idler/Sprocket Centerline	12 ft. 3 in. (3.73 m)
E	Undercarriage Length	15 ft. 5 in. (4.69 m)
F	Counterweight Clearance	4 ft. 7 in. (1.40 m)
G	Maximum Shipping Width	11 ft. 2 in. (3.39 m)
H	Cab Height (transport)	12 ft. 5 in. (3.77 m)
I	Track Width, Double-Grouser Shoes	28 in. (0.71 m)
J	Gauge Width	8 ft. 7 in. (2.62 m)
K	Ground Clearance	2 ft. 4 in. (0.71 m)
L	Undercarriage Width	10 ft. 11 in. (3.32 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.

Load Point Height	5 ft. (1.5 m)		10 ft. (3.1 m)		15 ft. (4.6 m)		20 ft. (6.1 m)		25 ft. (7.6 m)		28.6 ft. (8.7 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
With Processor Arm, 4,800-lb. (2177 kg) Attachment, and 28-in. (700 mm) Double-Grouser Shoes												
25 ft. (7.6 m)							6,800	6,800				
							(3084)	***(3084)***				
20 ft. (6.1 m)							***7,500***	***7,500***	***7,500***	***7,500***		
							(3402)	***(3402)***	***(3402)***	***(3402)***		
15 ft. (4.6 m)			***15,700***	***15,700***	***11,200***	***11,200***	***9,200***	***9,200***	***8,300***	***8,300***		
			(7121)	***(7121)***	***(5080)***	***(5080)***	***(4173)***	***(4173)***	***(3765)***	***(3765)***		
10 ft. (3.1 m)			***29,800***	***29,800***	***16,300***	***16,300***	***11,700***	***11,700***	***9,500***	***9,500***		
			(13 517)	***(13 517)***	***(7394)***	***(7394)***	***(5307)***	***(5307)***	***(4309)***	***(4309)***		
5 ft. (1.5 m)			***38,200***	***38,200***	***20,800***	***20,800***	***14,100***	***14,100***	***10,800***	10,200	9,100	7,500
			(17 327)	***(17 327)***	***(9435)***	***(9435)***	***(6396)***	***(6396)***	***(4899)***	(4627)	(4128)	(3402)
Ground Line			***38,800***	***38,800***	***23,200***	***23,200***	***15,700***	14,700	***11,700***	9,900		
			(17 600)	***(17 600)***	***(10 523)***	***(10 523)***	***(7121)***	(6668)	***(5307)***	(4491)		
–5 ft. (–1.5 m)	***66,600***	***66,600***	***37,200***	***37,200***	***23,600***	***23,600***	***16,300***	14,500	11,800	9,800		
	(30 210)	***(30 210)***	***(16 874)***	***(16 874)***	***(10 705)***	***(10 705)***	***(7394)***	(6577)	(5352)	(4445)		
–10 ft. (–3.1 m)	***61,500***	***61,500***	***33,700***	***33,700***	***22,200***	***22,200***	***15,500***	14,500				
	(27 896)	***(27 896)***	***(15 286)***	***(15 286)***	***(10 070)***	***(10 070)***	***(7031)***	(6577)				
–15 ft. (–4.6 m)			***27,400***	***27,400***	***18,300***	***18,300***						
			(12 429)	***(12 429)***	***(8301)***	***(8301)***						

Engine

Manufacturer and Model ..... Isuzu AH-4HK1XYSA-03, water-cooled with direct injection certified to EPA Tier-3 emissions
Cylinders 4
Displacement ..... 317 cu. in. (5.2 L)
Net Power (ISO9249) ..... 182 hp (136 kW) @ 2,100 rpm
Maximum Net Torque ..... 499 lb•ft (676 Nm) @ 1,500 rpm
Engine Bore and Stroke ..... 4.53 x 4.92 in. (115 x 125 mm)
Aspiration ..... turbocharged, air-to-air charge air cooler
Fuel Filter ..... double filter with water separator, remote mounted
Oil Filter ..... full flow, remote mounted

Cooling

Designed to match the engine, direct drive fan with reversing option, engine coolant and hydraulic oil coolers are now arranged side by side, external debris protection
Engine Coolant Rating ..... -34 °F (-37 °C)

Powertrain

Two-Speed Propel with Automatic Shift
Travel Speed Low, Maximum Speed ..... 2.1 mph (3.3 km/h)
Travel Speed High, Maximum Speed ..... 3.4 mph (5.5 km/h)

Controls

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

Brake

Swing Brake Multiple Wet Disc, Spring Applied, Hydraulically Released
Propel Brake, Spring Applied, Hydraulic Release

Hydraulics

Open Center, Load Sensing
Main Pumps ..... two variable-displacement pumps
Maximum Rated Flow ..... 2 x 65.5 gpm (2 x 248 L/m)
Pilot Pump ..... one gear
Maximum Rated Flow ..... 8.9 gpm (34 L/m)
System Relief Pressure ..... 566 psi (3900 kPa)

System Operating Pressure

Implement Circuits ..... 4,980 psi (34 336 kPa)
Travel Circuits ..... 4,980 psi (34 336 kPa)
Swing Circuits ..... 4,700 psi (32 405 kPa)
Power Boost ..... 5,260 psi (36 266 kPa)
Pilot Circuits @ 8.9 gpm (34 L/m) ..... 566 psi (3900 kPa)

Oil Filtration Full-Flow Return with Bypass and One Pilot Oil Filter

Cylinders

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

	Bore	Rod Diameter	Stroke
Boom (2)	5.5 in. (140 mm)	3.9 in. (100 mm)	52.8 in. (1340 mm)
Arm (1)	6.7 in. (170 mm)	4.5 in. (115 mm)	68.5 in. (1740 mm)
Heel (1)	5.3 in. (135 mm)	3.5 in. (90 mm)	42.1 in. (1070 mm)

Electrical

Voltage ..... 24 volt
Number of Batteries ..... 2 x 12 volt
Reserve Capacity ..... 440 minutes
Alternator Rating ..... 80 amp
Optional Alternator Rating ..... 130 amp

Undercarriage

Carrier Rollers (per side)	2
Track Rollers (per side)	8
Shoes, Double Grousers (per side)	45
Track Shoe Width, Standard	28 in. (700 mm)
Drawbar Pull	56,075 lb. (25 435 kg)
Track Adjustment	hydraulic
Track Guides	full length “ski” type

Upperstructure

Counterweight, Standard	11,332 lb. (5140 kg)

Swing Mechanism

Swing Speed	10.6 rpm
Swing Torque	79,560 lb•ft (107 869 Nm)

Ground Pressure

28-in. (700 mm) Double-Grouser Shoes	8.82 psi (60.8 kPa)

Operator Station Monitor

	Indicator Light	*Audible Warning*	*Gauge*	*Digital Display*
Alarm Indicator	X			
Alternator, Low Charge	X			
Auto-Idle	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	
Hourmeter				X
Work Mode Indicator	X			

Serviceability

Hinged, Swing-Out Coolers for easy cleanout, Centralized Lube Banks, and “O” Ring Face Seal Connectors on most hydraulic hoses

Diagnostics

Machine Information Center (MIC), Computerized In-Cab Monitor Information, and Fluid Sampling Ports

Fluid Change Interval, Hours

Engine Oil	500
Hydraulic Oil	5,000

Filters	*Filtration (microns)*	*Service Hours*	*Vertically Mounted*
Engine Oil Filter, Remote Mounted		500	yes
Fuel Filter, Remote Mounted		500	yes
Hydraulic Filter		2,000	yes
Return Oil Filter	10		

Sight Gauges

Hydraulic Reservoir

Engine-Oil Sampling Valve

Serviceability (continued)

Refill Capacities

Fuel Tank	277 gal. (1050 L)
Cooling System	7 gal. (26 L)
Engine Oil with Filter	6 gal. (23 L)
Hydraulic Tank	64 gal. (243 L)
Hydraulic System	82 gal. (310 L)
Swing Drive	8.0 qt. (7.6 L)
Propel Gearbox (each)	9.0 qt. (8.5 L)
Pump Drive Gearbox	1.2 qt. (1.1 L)

Operating Weights

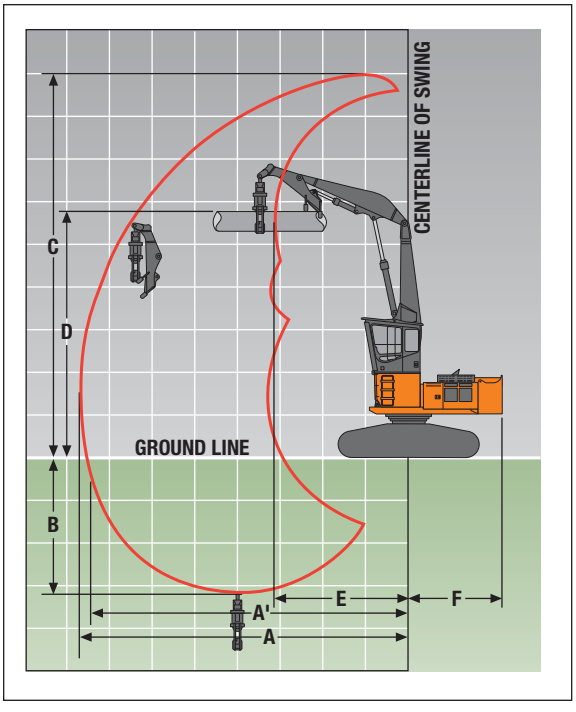
With 1818-lb. (840 kg) Full Fuel Tank; 175-lb (79 kg) Operator; 11,332-lb. (5140 kg) Counterweight; 1,800-lb. (816 kg) Grapple; and 28-in. (700 mm) Double-Grouser Shoes

SAE Operating Weight	77,823 lb. (35 300 kg)

Operating Dimensions

Lifting Capacity Over Front at Ground Level

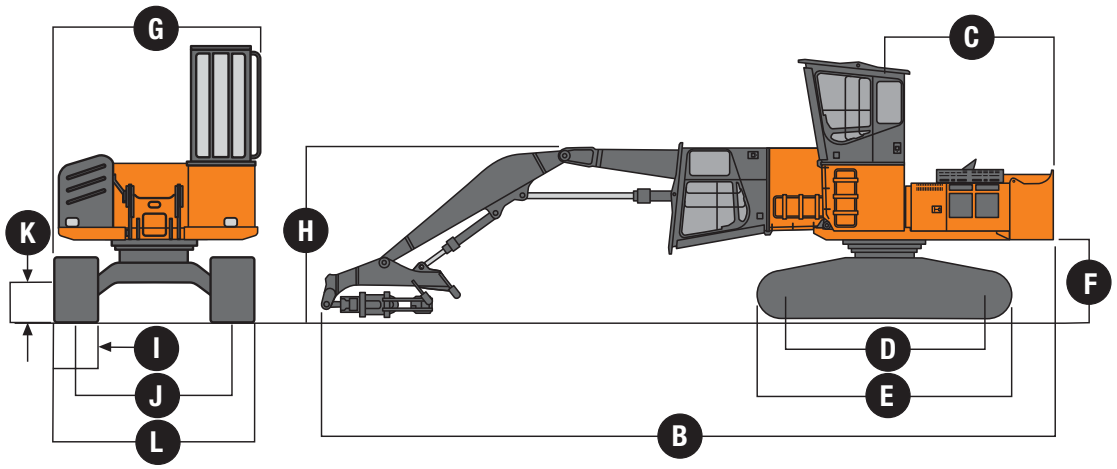
	20-ft. (6.1 m) Reach (with power boost)	22,796 lb. (10 340 kg)
A	Maximum Reach	38 ft. 3 in. (11.67 m)
A'	Maximum Reach at Ground Level	37 ft. 6 in. (11.43 m)
B	Maximum Depth	15 ft. 10 in. (4.82 m)
C	Maximum Height	44 ft. 10 in. (13.67 m)
D	Maximum Level Log Height	28 ft. 11 in. (8.82 m)
E	Minimum Swing Radius	15 ft. 8 in. (4.77 m)
F	Tail Swing Radius	10 ft. 10 in. (3.30 m)



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

Machine Dimensions

ZAXIS FORESTER 240-3 LIVE HEEL



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

A Height.....—
B Overall Length.....47 ft. (14.32 m)
C Rear-End Length/Swing Radius.....10 ft. 8 in. (3.25 m)
D Distance Between Idler/Sprocket Centerline.....12 ft. 3 in. (3.73 m)
E Undercarriage Length.....15 ft. 5 in. (4.69 m)
F Counterweight Clearance.....4 ft. 10 in. (1.46 m)
G Maximum Shipping Width.....11 ft. 9 in. (3.58 m)
H Cab Height (transport).....11 ft. 6 in. (3.52 m)
I Track Width, Double-Grouser Shoes.....28 in. (0.71 m)
J Gauge Width.....9 ft. 2 in. (2.79 m)
K Ground Clearance.....2 ft. 6 in. (0.76 m)
L Undercarriage Width.....11 ft. 6 in. (3.49 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.

Load Point Height	15 ft. (4.6 m) Over Front	15 ft. (4.6 m) Over Side	20 ft. (6.1 m) Over Front	20 ft. (6.1 m) Over Side	25 ft. (7.6 m) Over Front	25 ft. (7.6 m) Over Side	30 ft. (9.1 m) Over Front	30 ft. (9.1 m) Over Side	35 ft. (10.7 m) Over Front	35 ft. (10.7 m) Over Side	38.3 ft. (11.7 m) Over Front	38.3 ft. (11.7 m) Over Side
With 1,800-lb. (812.2 kg) Grapple and 28-in. (700 mm) Double-Grouser Shoes												
40 ft. (12.2 m)	25,300	25,300										
	(11 476)	***(11 476)***										
35 ft. (10.7 m)	***20,300***	***20,300***	***17,600***	***17,600***	***15,600***	12,100						
	(9208)	***(9208)***	***(7983)***	***(7983)***	***(7076)***	(5489)						
30 ft. (9.1 m)			***16,500***	***16,500***	***14,700***	12,600	12,700	9,200				
			(7484)	***(7484)***	***(6668)***	(5715)	(5761)	(4173)				
25 ft. (7.6 m)			***16,600***	***16,600***	***14,600***	13,000	12,200	8,700				
			(7530)	***(7530)***	***(6623)***	(5897)	(5534)	(3946)				
20 ft. (6.1 m)			***17,700***	***17,700***	***15,100***	12,900	12,300	8,800	9,400	6,600		
			(8029)	***(8029)***	***(6849)***	(5851)	(5579)	(3992)	(4264)	(2994)		
15 ft. (4.6 m)			***19,100***	***19,100***	***16,000***	12,700	12,300	8,800	9,400	6,600		
			(8664)	***(8664)***	***(7258)***	(5761)	(5579)	(3992)	(4264)	(2994)		
10 ft. (3.1 m)			***20,400***	18,700	16,900	12,200	12,200	8,700	9,200	6,400		
			(9253)	(8482)	(7666)	(5534)	(5534)	(3946)	(4173)	(2903)		
5 ft. (1.5 m)					16,400	12,000	12,000	8,500	9,000	6,300	7,600	5,200
					(7439)	(5443)	(5443)	(3856)	(4082)	(2858)	(3447)	(2359)
Ground Line			***22,800***	16,600	16,000	11,400	11,700	8,300	8,900	6,100		
			(10 342)	(7530)	(7258)	(5171)	(5307)	(3765)	(4037)	(2767)		
–5 ft. (–1.5 m)			***20,900***	16,100	15,700	11,100	11,500	8,100	***7,400***	6,100		
			(9480)	(7303)	(7121)	(5035)	(5216)	(3674)	***(3357)***	(2767)		
–10 ft. (–3.1 m)			***16,800***	16,100	***12,800***	11,100	***8,840***	8,100				
			(7620)	(7303)	***(5806)***	(5035)	***(4010)***	(3674)				

Engine

Manufacturer and Model ..... Isuzu AH-4HK1XYSA-03, water-cooled with direct injection certified to EPA Tier-3 emissions
Cylinders 4
Displacement ..... 317 cu. in. (5.2 L)
Net Power (ISO9249) ..... 182 hp (136 kW) @ 2,100 rpm
Maximum Net Torque ..... 499 lb•ft (676 Nm) @ 1,500 rpm
Engine Bore and Stroke ..... 4.53 x 4.92 in. (115 x 125 mm)
Aspiration ..... turbocharged, air-to-air charge air cooler
Fuel Filter ..... double filter with water separator, remote mounted
Oil Filter ..... full flow, remote mounted

Cooling

Designed to match the engine, direct drive fan with reversing option, engine coolant and hydraulic oil coolers are now arranged side by side, external debris protection
Engine Coolant Rating ..... -34 °F (-37 °C)

Powertrain

Two-Speed Propel with Automatic Shift
Travel Speed Low, Maximum Speed ..... 2.1 mph (3.3 km/h)
Travel Speed High, Maximum Speed ..... 3.4 mph (5.5 km/h)

Controls

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

Brake

Swing Brake Multiple Wet Disc, Spring Applied, Hydraulically Released
Propel Brake, Spring Applied, Hydraulic Release

Hydraulics

Open Center, Load Sensing
Main Pumps ..... two variable-displacement pumps
Maximum Rated Flow ..... 2 x 65.5 gpm (2 x 248 L/m)
Pilot Pump ..... one gear
Maximum Rated Flow ..... 8.9 gpm (34 L/m)
System Relief Pressure ..... 566 psi (3900 kPa)

System Operating Pressure

Implement Circuits ..... 4,980 psi (34 336 kPa)
Travel Circuits ..... 4,980 psi (34 336 kPa)
Swing Circuits ..... 4,700 psi (32 405 kPa)
Power Boost ..... 5,260 psi (36 266 kPa)
Pilot Circuits @ 8.9 gpm (34 L/m) ..... 566 psi (3900 kPa)

Oil Filtration Full-Flow Return with Bypass and One Pilot Oil Filter

Cylinders

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

	Bore	Rod Diameter	Stroke
Boom (2)	5.5 in. (140 mm)	3.9 in. (100 mm)	52.8 in. (1340 mm)
Arm (1)	6.7 in. (170 mm)	4.5 in. (115 mm)	68.5 in. (1740 mm)
Tilt (1)	4.5 in. (115 mm)	3.1 in. (80 mm)	41.7 in. (1060 mm)

Electrical

Voltage ..... 24 volt
Number of Batteries ..... 2 x 12 volt
Reserve Capacity ..... 440 minutes
Alternator Rating ..... 80 amp
Optional Alternator Rating ..... 130 amp

Undercarriage

Carrier Rollers (per side)....2
Track Rollers (per side)....8
Shoes, Double Grousers (per side)....45
Track Shoe Width, Standard....28 in. (700 mm)
Drawbar Pull....56,075 lb. (25 435 kg)
Track Adjustment....hydraulic
Track Guides....full length “ski” type

Upperstructure

Counterweight, Standard....11,332 lb. (5140 kg)

Swing Mechanism

Swing Speed....10.6 rpm
Swing Torque....79,560 lb•ft (107 869 Nm)

Ground Pressure

28-in. (700 mm) Double-Grouser Shoes....8.85 psi (61 kPa)

Operator Station Monitor

	Indicator Light	*Audible Warning*	*Gauge*	*Digital Display*
Alarm Indicator				
Alternator, Low Charge	X			
Auto-Idle	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	
Hourmeter				X
Work Mode Indicator	X			

Serviceability

Hinged, Swing-Out Coolers for easy cleanout, Centralized Lube Banks, and “O” Ring Face Seal Connectors on most hydraulic hoses

Diagnostics

Machine Information Center (MIC), Computerized In-Cab Monitor Information, and Fluid Sampling Ports

Fluid Change Interval, Hours

Engine Oil....500
Hydraulic Oil....5,000

Filters	*Filtration (microns)*	*Service Hours*	*Vertically Mounted*
Engine Oil Filter, Remote Mounted		500	yes
Fuel Filter, Remote Mounted		500	yes
Hydraulic Filter		2,000	yes
Return Oil Filter	10		

Sight Gauges

Hydraulic Reservoir
Engine-Oil Sampling Valve

Serviceability (continued)

Refill Capacities

Fuel Tank	277 gal. (1050 L)
Cooling System	7 gal. (26 L)
Engine Oil with Filter	6 gal. (23 L)
Hydraulic Tank	64 gal. (243 L)
Hydraulic System	82 gal. (310 L)
Swing Drive	8.0 qt. (7.6 L)
Propel Gearbox (each)	9.0 qt. (8.5 L)
Pump Drive Gearbox	1.2 qt. (1.1 L)

Operating Weights

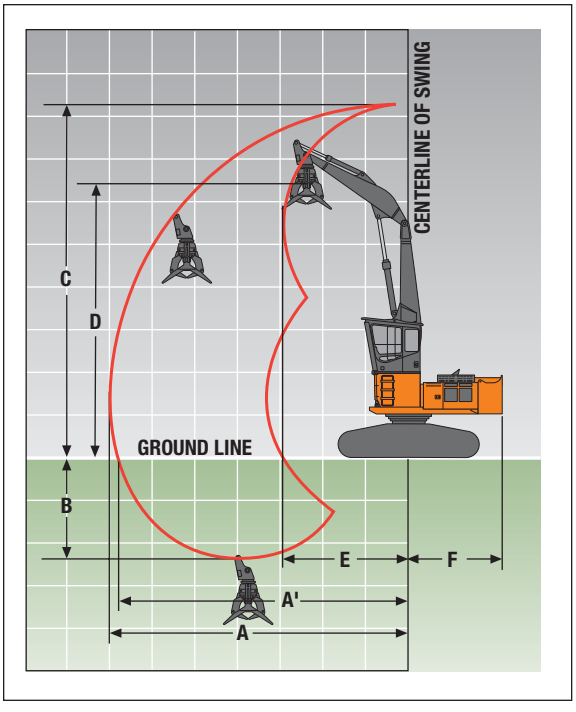
With 1818-lb. (840 kg) Full Fuel Tank; 175-lb. (79 kg) Operator; 11,332-lb. (5140 kg) Counterweight; 4,500-lb. (2041 kg) Grapple; and 28-in. (700 mm) Double-Grouser Shoes

SAE Operating Weight	77,978 lb. (35 370 kg)

Operating Dimensions

Lifting Capacity Over Front at Ground Level

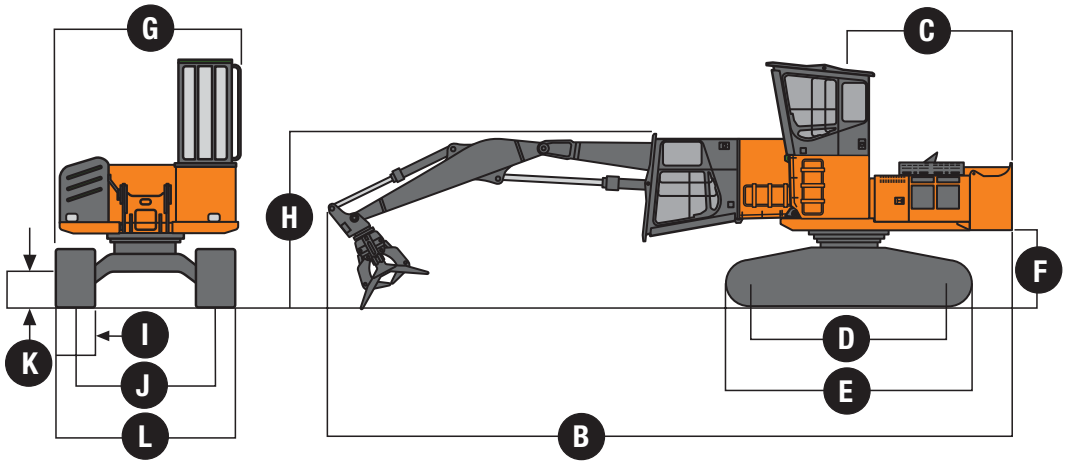
	20-ft. (6.1 m) Reach (with power boost)	21,400 lb. (9707 kg)
A	Maximum Reach	35 ft. (10.68 m)
A'	Maximum Reach at Ground Level	34 ft. 3 in. (10.43 m)
B	Maximum Depth	12 ft. 1 in. (3.68 m)
C	Maximum Height	41 ft. 10 in. (12.76 m)
D	Maximum Level Log Height	32 ft. 6 in. (9.91 m)
E	Minimum Swing Radius	14 ft. 8 in. (4.47 m)
F	Tail Swing Radius	10 ft. 10 in. (3.30 m)



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

Machine Dimensions

ZAXIS FORESTER 240-3 BUTT & TOP



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

A Height.....—
B Overall Length.....47 ft. 4 in. (14.44 m)
C Rear-End Length/Swing Radius.....10 ft. 8 in. (3.25 m)
D Distance Between Idler/Sprocket Centerline.....12 ft. 3 in. (3.73 m)
E Undercarriage Length.....15 ft. 5 in. (4.69 m)
F Counterweight Clearance.....4 ft. 10 in. (1.46 m)
G Maximum Shipping Width.....11 ft. 9 in. (3.58 m)
H Cab Height (transport).....11 ft. 6 in. (3.52 m)
I Track Width, Double-Grouser Shoes.....28 in. (0.71 m)
J Gauge Width.....9 ft. 2 in. (2.79 m)
K Ground Clearance.....2 ft. 6 in. (0.76 m)
L Undercarriage Width.....11 ft. 6 in. (3.49 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.

Load Point Height	10 ft. (3.1 m) Over Front	10 ft. (3.1 m) Over Side	15 ft. (4.6 m) Over Front	15 ft. (4.6 m) Over Side	20 ft. (6.1 m) Over Front	20 ft. (6.1 m) Over Side	25 ft. (7.6 m) Over Front	25 ft. (7.6 m) Over Side	30 ft. (9.1 m) Over Front	30 ft. (9.1 m) Over Side	35 ft. (10.7 m) Over Front	35 ft. (10.7 m) Over Side
With 4,500-lb. (2041 kg) Grapple and 28-in. (700 mm) Double-Grouser Shoes												
40 ft. (12.2 m)	35,600	35,600										
	(16 148)	***(16 148)***										
35 ft. (10.7 m)			***21,200***	***21,200***	***18,500***	***17,800***						
			(9616)	***(9616)***	***(8392)***	***(8074)***						
30 ft. (9.1 m)			***19,200***	***19,200***	***16,600***	***16,600***	***14,900***	11,700				
			(8709)	***(8709)***	***(7530)***	***(7530)***	***(6759)***	(5307)				
25 ft. (7.6 m)			***19,200***	***19,200***	***16,500***	***16,500***	***14,400***	12,000	11,300	7,800		
			(8709)	***(8709)***	***(7484)***	***(7484)***	***(6532)***	(5443)	(5126)	(3538)		
20 ft. (6.1 m)			***21,100***	***21,100***	***17,400***	***17,400***	***14,700***	11,800	11,400	8,000		
			(9571)	***(9571)***	***(7893)***	***(7893)***	***(6668)***	(5352)	(5171)	(3629)		
15 ft. (4.6 m)			***24,600***	***24,600***	***19,000***	17,600	***15,400***	11,500	11,300	7,800		
			(11 158)	***(11 158)***	***(8618)***	(7983)	***(6985)***	(5216)	(5126)	(3538)		
10 ft. (3.1 m)					***20,800***	16,700	15,600	11,000	11,100	7,600	***4,600***	***4,600***
					(9435)	(7575)	(7076)	(4990)	(5035)	(3447)	***(2087)***	***(2087)***
5 ft. (1.5 m)					***21,900***	15,800	15,100	10,600	10,800	7,400	***4,800***	***4,800***
					(9934)	(7167)	(6849)	(4808)	(4899)	(3357)	***(2177)***	***(2177)***
Ground Line			***30,200***	24,800	***21,400***	15,200	14,800	10,200	10,700	7,200	***4,700***	***4,700***
			(13 699)	(11 249)	***(9707)***	(6895)	(6713)	(4627)	(4853)	(3266)	***(2132)***	***(2132)***
–5 ft. (–1.5 m)	***35,200***	***35,200***	***25,900***	24,400	***18,800***	14,900	***13,500***	10,100	***8,600***	7,200		
	(15 967)	***(15 967)***	***(11 748)***	(11 068)	***(8528)***	(6759)	***(6124)***	(4581)	***(3901)***	(3266)		
–10 ft. (–3.1 m)			***18,700***	***18,700***	***13,900***	***13,900***	***9,200***	***9,200***				
			(8482)	***(8482)***	***(6305)***	***(6305)***	***(4173)***	***(4173)***				

Engine

Manufacturer and Model ..... Isuzu AH-4HK1XYSA-03, water-cooled with direct injection certified to EPA Tier-3 emissions
Cylinders 4
Displacement ..... 317 cu. in. (5.2 L)
Net Power (ISO9249) ..... 182 hp (136 kW) @ 2,100 rpm
Maximum Net Torque ..... 499 lb•ft (676 Nm) @ 1,500 rpm
Engine Bore and Stroke ..... 4.53 x 4.92 in. (115 x 125 mm)
Aspiration ..... turbocharged, air-to-air charge air cooler
Fuel Filter ..... double filter with water separator, remote mounted
Oil Filter ..... full flow, remote mounted

Cooling

Designed to match the engine, direct drive fan with reversing option, engine coolant and hydraulic oil coolers are now arranged side by side, external debris protection
Engine Coolant Rating ..... -34 °F (-37 °C)

Powertrain

Two-Speed Propel with Automatic Shift
Travel Speed Low, Maximum Speed ..... 2.1 mph (3.3 km/h)
Travel Speed High, Maximum Speed ..... 3.4 mph (5.5 km/h)

Controls

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

Brake

Swing Brake Multiple Wet Disc, Spring Applied, Hydraulically Released
Propel Brake, Spring Applied, Hydraulic Release

Hydraulics

Open Center, Load Sensing
Main Pumps ..... two variable-displacement pumps
Maximum Rated Flow ..... 2 x 65.5 gpm (2 x 248 L/m)
Pilot Pump ..... one gear
Maximum Rated Flow ..... 8.9 gpm (34 L/m)
System Relief Pressure ..... 566 psi (3900 kPa)

System Operating Pressure

Implement Circuits ..... 4,980 psi (34 336 kPa)
Travel Circuits ..... 4,980 psi (34 336 kPa)
Swing Circuits ..... 4,700 psi (32 405 kPa)
Power Boost ..... 5,260 psi (36 266 kPa)
Pilot Circuits @ 8.9 gpm (34 L/m) ..... 566 psi (3900 kPa)

Oil Filtration Full-Flow Return with Bypass and One Pilot Oil Filter

Cylinders

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

	Bore	Rod Diameter	Stroke
Boom (2)	5.5 in. (140 mm)	3.9 in. (100 mm)	52.8 in. (1340 mm)
Arm (1)	6.7 in. (170 mm)	4.5 in. (115 mm)	68.5 in. (1740 mm)
Tilt (1)	4.5 in. (115 mm)	3.1 in. (80 mm)	41.7 in. (1060 mm)

Electrical

Voltage ..... 24 volt
Number of Batteries ..... 2 x 12 volt
Reserve Capacity ..... 440 minutes
Alternator Rating ..... 80 amp
Optional Alternator Rating ..... 130 amp

Undercarriage

Carrier Rollers (per side)....2
Track Rollers (per side)....8
Shoes, Double Grousers (per side)....45
Track Shoe Width, Standard....28 in. (700 mm)
Drawbar Pull....56,075 lb. (25 435 kg)
Track Adjustment....hydraulic
Track Guides....full length “ski” type

Upperstructure

Counterweight, Standard....11,332 lb. (5140 kg)

Swing Mechanism

Swing Speed....10.6 rpm
Swing Torque....79,560 lb•ft (107 869 Nm)

Ground Pressure

28-in. (700 mm) Double-Grouser Shoes....9.57 psi (66.0 kPa)

Operator Station Monitor

	Indicator Light	*Audible Warning*	*Gauge*	*Digital Display*
Alarm Indicator				
Alternator, Low Charge	X			
Auto-Idle	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	
Hourmeter				X
Work Mode Indicator	X			

Serviceability

Hinged, Swing-Out Coolers for easy cleanout, Centralized Lube Banks, and “O” Ring Face Seal Connectors on most hydraulic hoses

Diagnostics

Machine Information Center (MIC), Computerized In-Cab Monitor Information, and Fluid Sampling Ports

Fluid Change Interval, Hours

Engine Oil....500
Hydraulic Oil....5,000

Filters	*Filtration (microns)*	*Service Hours*	*Vertically Mounted*
Engine Oil Filter, Remote Mounted		500	yes
Fuel Filter, Remote Mounted		500	yes
Hydraulic Filter		2,000	yes
Return Oil Filter	10		

Sight Gauges

Hydraulic Reservoir
Engine-Oil Sampling Valve

Serviceability (continued)

Refill Capacities

Fuel Tank	277 gal. (1050 L)
Cooling System	7 gal. (26 L)
Engine Oil with Filter	6 gal. (23 L)
Hydraulic Tank	64 gal. (243 L)
Hydraulic System	82 gal. (310 L)
Swing Drive	8.0 qt. (7.6 L)
Propel Gearbox (each)	9.0 qt. (8.5 L)
Pump Drive Gearbox	1.2 qt. (1.1 L)

Operating Weights

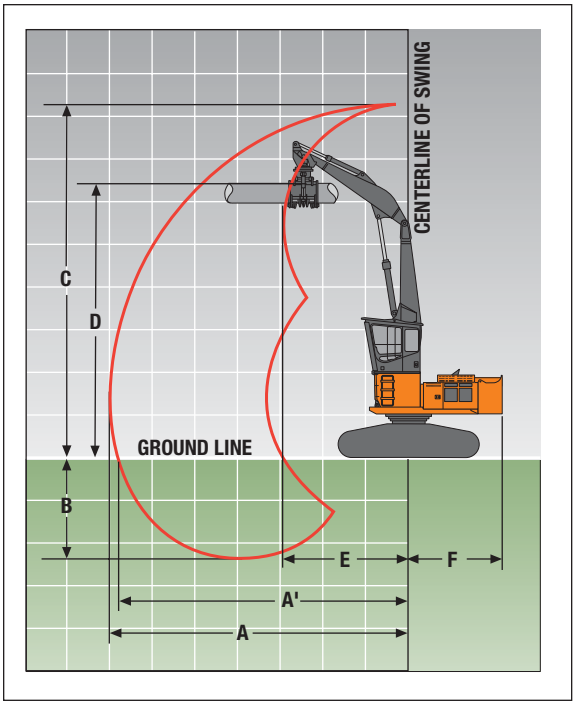
With 1818-lb. (840 kg) Full Fuel Tank; 175-lb. (79 kg) Operator; 11,332-lb. (5140 kg) Counterweight; 4,500-lb. (2041 kg) Grapple; and 28-in. (700 mm) Double-Grouser Shoes

SAE Operating Weight	77,978 lb. (35 370 kg)

Operating Dimensions

Lifting Capacity Over Front at Ground Level

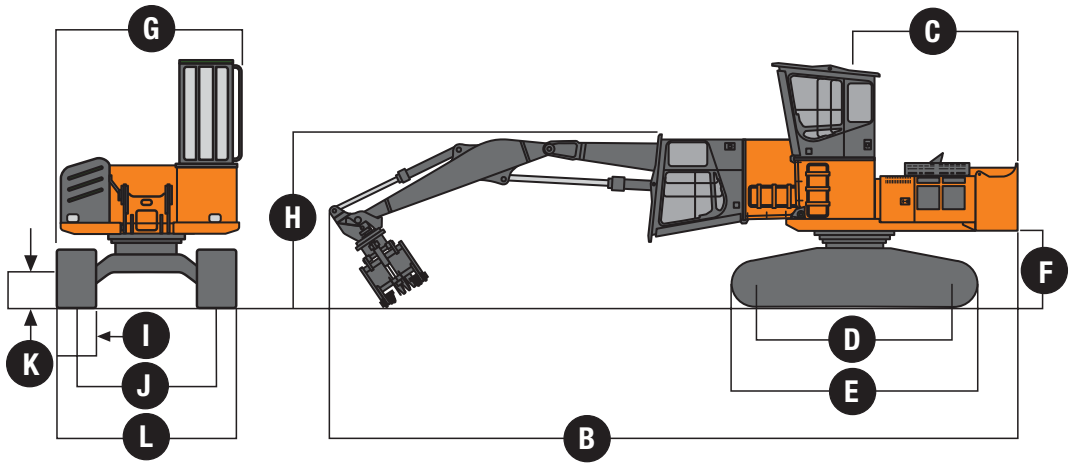
	20-ft. (6.1 m) Reach (with power boost)	21,400 lb. (9707 kg)
A	Maximum Reach	35 ft. (10.68 m)
A'	Maximum Reach at Ground Level	34 ft. 3 in. (10.43 m)
B	Maximum Depth	12 ft. 1 in. (3.68 m)
C	Maximum Height	41 ft. 10 in. (12.76 m)
D	Maximum Level Log Height	29 ft. 3 in. (8.91 m)
E	Minimum Swing Radius	14 ft. 8 in. (4.47 m)
F	Tail Swing Radius	10 ft. 10 in. (3.30 m)



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

Machine Dimensions

ZAXIS FORESTER 240-3 POWER CLAM



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

A	Height	—
B	Overall Length	47 ft. 4 in. (14.44 m)
C	Rear-End Length/Swing Radius	10 ft. 8 in. (3.25 m)
D	Distance Between Idler/Sprocket Centerline	12 ft. 3 in. (3.73 m)
E	Undercarriage Length	15 ft. 5 in. (4.69 m)
F	Counterweight Clearance	4 ft. 10 in. (1.46 m)
G	Maximum Shipping Width	11 ft. 9 in. (3.58 m)
H	Cab Height (transport)	11 ft. 6 in. (3.52 m)
I	Track Width, Double-Grouser Shoes	28 in. (0.71 m)
J	Gauge Width	9 ft. 2 in. (2.79 m)
K	Ground Clearance	2 ft. 6 in. (0.76 m)
L	Undercarriage Width	11 ft. 6 in. (3.49 m)

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.

DKAF240HT Litho in U.S.A. (08-11)

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