

Zaxis800

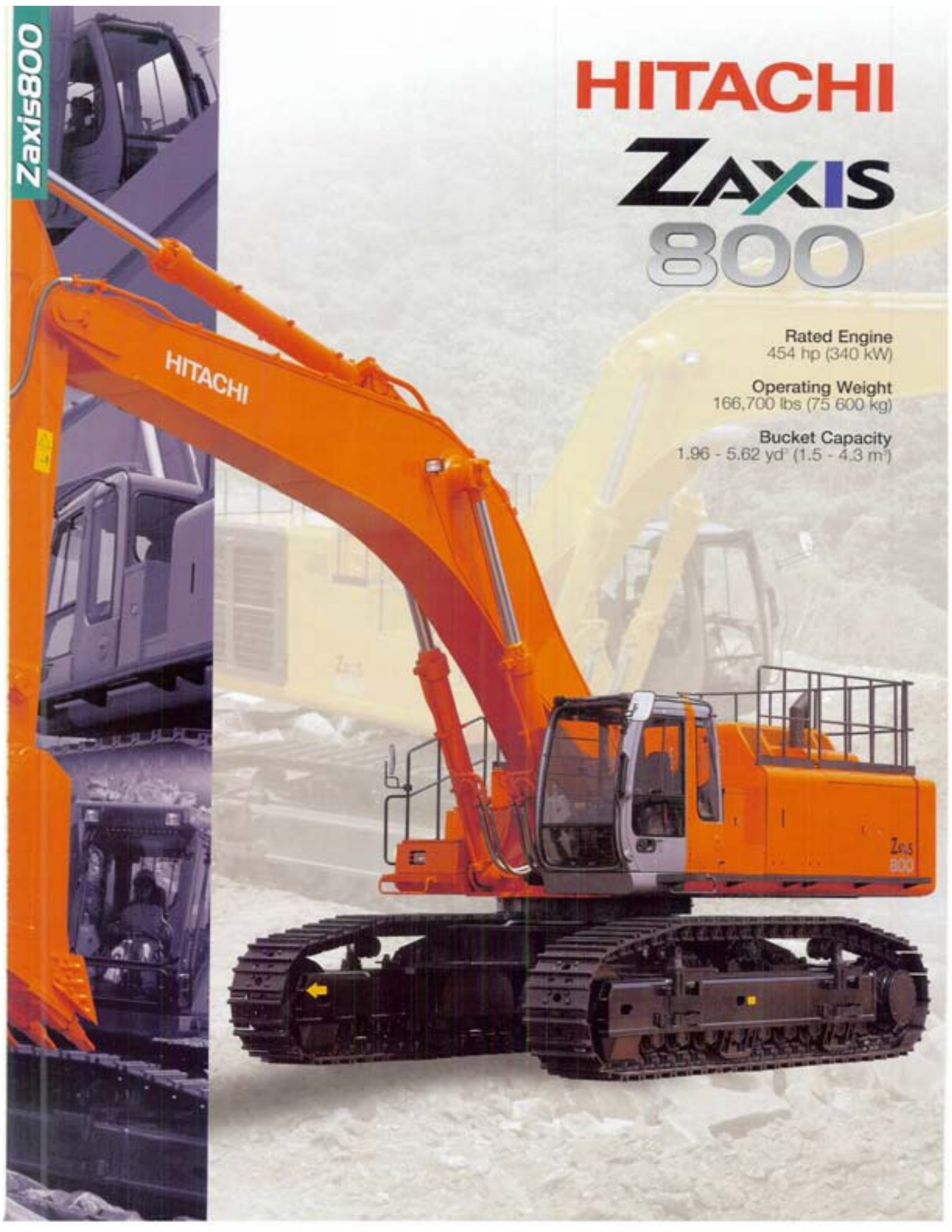
HITACHI

Zaxis 800

Rated Engine
454 hp (340 kW)

Operating Weight
166,700 lbs (75,600 kg)

Bucket Capacity
1.96 - 5.62 yd³ (1.5 - 4.3 m³)



Smarter, faster, more productive yet more efficient – the versatile Hitachi Zaxis 800 can be found at construction sites, demolition sites, scrap yards and quarries. Boasting a cleaner yet more powerful engine and a host of new items as well as significant refinements, Zaxis is the next generation in excavator development.

High-Power Engine

The Isuzu BB-6WG1T generates

- 454 hp @ 1,800 rpm (340 kW/min⁻¹)
- 1,370 lbf•ft max. torque @ 1,500 rpm (190 kgf•m/min⁻¹)

and meets all Tier II emissions regulations.



Rigid Undercarriage

A reshaped box design with X-beams helps disperse stress and boosts the overall rigidity of the entire undercarriage.

Onboard ICX
(Information Controller)

PC



Information Services for Equipment

- Operation record
- Error record
- Alarm record
- Frequency distribution
Radiator coolant/hydraulic temperature etc.
- and others.



e-Information Technology

The onboard ICX information controller tracks the operational status of the excavator. This information is easily downloaded so you can analyze how well your machine is performing.



One POWERFUL Solution

Safety, Comfort, and Convenience

The operator's compartment is designed for both comfort and operating efficiency.



Durable

Extensive steps have been taken to improve basic performance and overall durability.

Multi-function Operations

The Zaxis 800 continues the Hitachi tradition of smooth, multi-functioning excavators. Executing combined operations such as simultaneous swinging and traveling are easy with Zaxis.



THE ZAXIS ADVANTAGE

Higher Productivity

Zaxis uses the latest technologies to achieve lower total operational costs while boosting productivity. The bucket digging force (SAE:PCSA) is an impressive 76,940 lbf (34 900 kgf). H/P mode increases production 5% over the EX750.

Cab Comfort

The Auto-control air conditioner allows you to set a specific temperature, then forget it. Bi-level air ducts are positioned throughout the cab to promote even air flow. A reshaped X-beam track frame, D-type frame and rigid cab bed work together with the 6 silicone-filled rubber cushions to reduce noise and vibration.

Cab Safety

The CRES (Center pillar Reinforced Structure) rigid cab is designed with safety in mind. The closed-section pillar and reinforcing members at central areas withstand vertical and horizontal external forces. This can help reduce the potential of operator injury in the event of an accident.

Operator Command

For increased productivity in heavy-duty operations, select the H/P mode to automatically boost engine output. Four work modes increase overall performance.

Boom Mode Selector

The Boom Mode switch allows you to dampen the amount that the body can be lifted or pulled by the front of the machine. This reduces vibration and shock while contributing to a longer component service life.



Auto Acceleration

Engine speed is automatically controlled in response to the amount of lever operation. This helps reduce fuel consumption, especially during light-load work.

A low-noise muffler and the Isuzu Tier 2 emissions control engine ensure a quieter, more environmentally friendly excavator. Plastic parts are labeled for easy recycling. Wiring is lead-free.



Lower Operating Costs

Strengthened components, longer lubrication intervals, reduced fuel consumption, 4,000-hour hydraulic oil and 1000-hour hydraulic oil filters extend Zaxis durability while reducing running and repair costs.

Work Mode Selection

Four work modes include: General Purpose, Trench Digging, Attachment, and Precision.

ICX Monitoring

Zaxis excavators monitor and store a variety of operational data. This includes: alarms given, error records, hours of operation, engine speed distribution, average pump pressure distribution for digging and travel, radiator coolant temperature, fuel level, swing, travel and front operation, and more. This data can be downloaded in the field to a palm-type computer, then uploaded onto your office PC for analysis.



The powerful engine and hydraulic system work together to bring the maximum amount of excavating forces to the toughest of job sites.

Easy-to-read monitor panel.



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



ENGINE

Model	Isuzu BB-6WG1T
Type	4-cycle water-cooled, direct injection & aftercooled
Aspiration	Turbocharged
No. of cylinders	6
Rated power	
SAE J1349, net	454 hp (340 kW) @ 1,800 rpm (min ⁻¹)
Maximum torque	1 370 lbf•ft (190 kgf•m) @ 1,500 rpm (min ⁻¹)
Piston Displacement	957 in ³ (15.681 L)
Bore and stroke	5.7" x 6.1" (147 mm x 154 mm)
Batteries	2 x 12 V, 170 AH
Governor	Mechanical speed control by stepping motor

HYDRAULIC SYSTEM

Work mode selector allows operator to choose between Digging mode, Attachment mode, and Precision or Heavy Lift mode. Engine speed sensing system.

Main pumps	2 variable displacement axial piston pumps
Max. oil flow	2 x 133 US gpm (2 x 502 L/min, 2 x 110 imp gpm)
Pilot pump	1 gear pump
Max. oil flow	8.0 US gpm (1 x 30.2 L/min, 6.6 imp gpm)

Hydraulic Motors

Travel	2 axial piston motors with parking brake
Swing	2 axial piston motors

Relief Valve Settings

Implement circuit	4,620 psi (325 kgf/cm ²)
Swing circuit	4,120 psi (290 kgf/cm ²)
Travel circuit	4,980 psi (350 kgf/cm ²)
Pilot circuit	570 psi (40 kgf/cm ²)

Hydraulic Cylinders

High-strength piston rod and tubes. Cylinder cushion mechanisms provided in all cylinders to absorb shocks at stroke ends.

Dimensions:

Backhoe

	Qty.	Bore	Rod Diameter
Boom	2	7.87" (200 mm)	5.51" (140 mm)
Arm	1	8.46" (215 mm)	5.91" (150 mm)
Bucket	1	7.48" (190 mm)	5.51" (140 mm)

Hydraulic Filters

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in the suction line and full-flow filters in the return line and swing/travel motor drain lines.

UPPERSTRUCTURE

Revolving Frame

Welded, sturdy box construction, using heavy-gauge steel plates for ruggedness, D-section frame for resistance to deformation.

Swing Mechanism

Swing circle is single-row, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type. Swing cushion valve built in swing motor absorbs shocks when stopping swings.

Swing speed 8.2 rpm (min⁻¹)

Operator's Cab

Independent roomy cab, 40" (1 000 mm) wide by 66" (1 675 mm) high, conforming to ISO Standards. Reinforced glass windows on 4 sides for visibility. Front windows (upper and lower) can be opened. Adjustable, reclining seat with armrests and seat belt. Right and control levers can be tilted forwards and backwards.

CONTROLS

Pilot controls for all functions. Hitachi's original shockless valve and quick warm-up system built in the pilot circuit.	
Implement levers	2
Travel levers with pedals	2

UNDERCARRIAGE

Tracks

Tractor-type undercarriage. Welded track frame using selected materials. Side frame bolted to track frame. Lubricated track rollers, idlers, and sprockets with floating seals. Track shoes with double grousers made of induction-hardened rolled alloy. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

Number of Rollers and Shoes on Each Side

Upper rollers	3
Lower rollers	9
Track shoes	51
Track guard	2

Traction Device

Each track driven by axial piston motor through reduction gears for counter-rotation of the tracks. Sprockets are replaceable. Parking brake is spring-set/hydraulic-released disc type.

Travel speeds	High: 0-2.7 mph (4.3 km/h)
	Low: 0-1.9 mph (3.1 km/h)
Maximum traction force	126,000 lbf (57 100 kgf)
Gradeability	35° (70%) continuous

SERVICE REFILL CAPACITIES

	US gal	Liters	Imp gal
Fuel tank	238.0	901.0	198.2
Engine coolant	28.3	107.0	23.5
Engine oil	14.5	55.0	12.1
Pump Drive	1.8	7.0	1.5
Swing mechanism (each side)	4.0	15.0	3.3
Travel final device (each side)	5.6	21.0	4.6
Hydraulic system	177.0	670.0	147.4
Hydraulic tank	85.6	324.0	71.3

WEIGHTS/GROUND PRESSURE

Standard North America backhoe model:

27' 0" (8.25 m) boom, 11' 10" (3.60 m) arm, 4.45 yd³ (3.4 m³)

PCSA heaped bucket, 35° (900 mm) double grouser shoes.

Weight: 166,700 lb (75 600 kg)

Ground pressure: 10.7 psi (0.75 kgf/cm²)

Other models available include 26" (650 mm) and 30" (750 mm)

double grouser shoes, Heavy-Duty (reinforced front, cab with integrated overhead guard) and loading shovel versions.

BACKHOE ATTACHMENTS

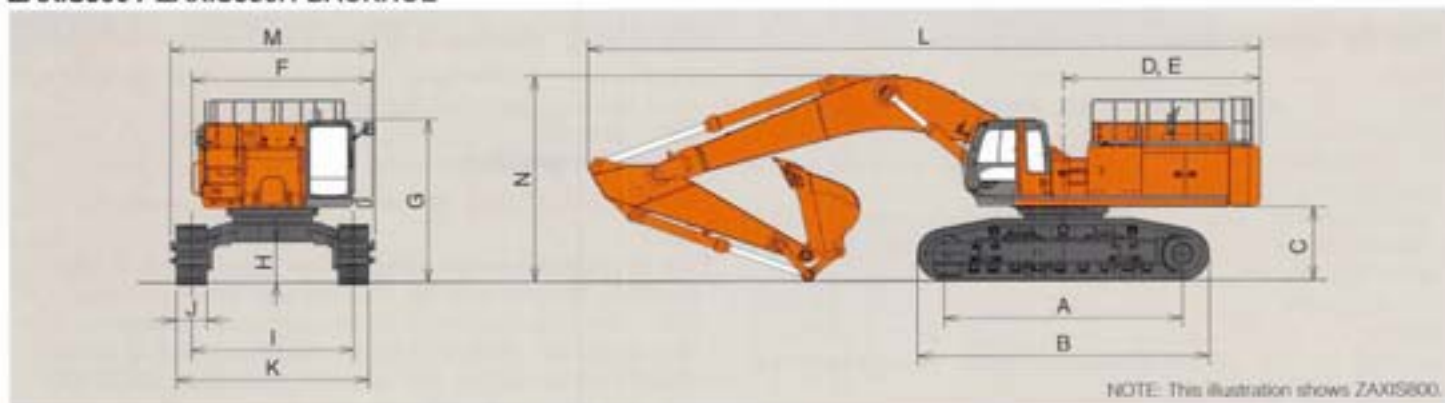
Boom and arms of all-welded, box-section design. 23'4" (7.1 m) BE, 27'1" (8.25 m), 32'10" (10.0 m) booms and 9'8" (2.95 m) BE, 11'10" (3.6 m), 14'5" (4.4 m), 17'9" (5.4 m), 31'2" (9.5 m) arms are available. Bucket is all-welded, high-strength steel structure. Side clearance adjust mechanism provided on the bucket joint bracket.

LOADING SHOVEL ATTACHMENTS

Boom and arm are of all-welded, box section design. Efficient, automatic level crowding achieved by one-lever control because the parallel link mechanism keeps the bucket digging angle constant, and the level cylinder circuit maintains the bucket height constant.

DIMENSIONS

ZAXIS800 / ZAXIS850H BACKHOE



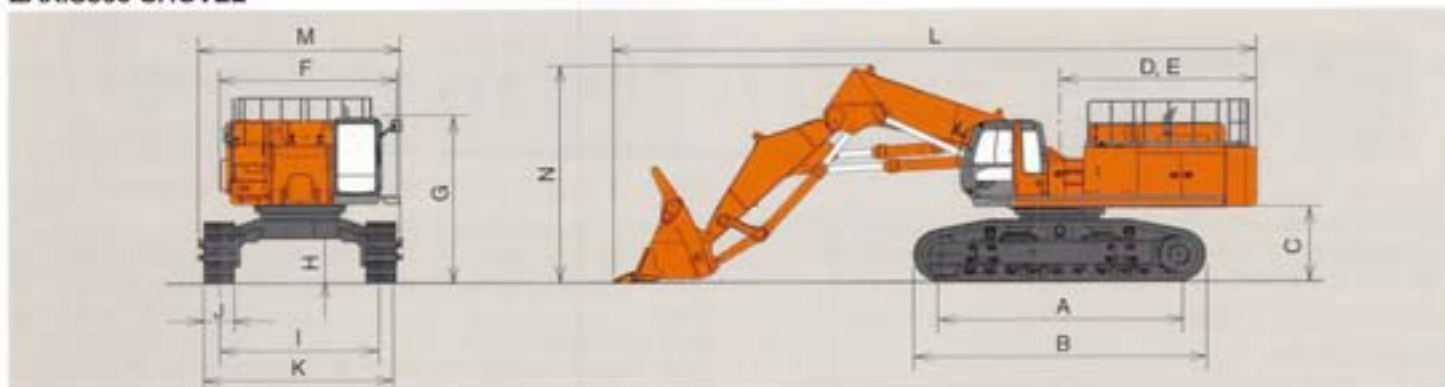
NOTE: This illustration shows ZAXIS800.

Unit: ft in (mm)

	ZAXIS800	ZAXIS850H
A Distance between tumbler	16'9" (5 110)	16'9" (5 110)
B Undercarriage length	20'10" (6 350)	20'10" (6 350)
*C Counterweight clearance	5'3" (1 590)	5'3" (1 590)
D Rear-end swing radius	14'1" (4 300)	14'1" (4 300)
E Rear-end length	13'10" (4 220)	13'10" (4 220)
F Overall width of upperstructure	12'8" (3 850)	12'8" (3 850)
G Overall height of Cab	11'7" (3 520)	11'11" (3 640)
*H Min. ground clearance	2'11" (880)	2'11" (880)
I Track gauge	11'4" (3 450)	11'4" (3 450)
J Track shoe width	26" (650)	26" (650)
K Undercarriage width Extended/Retracted	13'5" (4 100) / 11'5" (3 480)	13'5" (4 100) / 11'5" (3 480)
L Overall length	46'12" (14 320)	46'12" (14 320)
M Overall width	14'4" (4 360)	14'4" (4 360)
N Overall height of boom	14'8" (4 480)	15'2" (4 630)

* Excluding track shoe lug.

ZAXIS800 SHOVEL



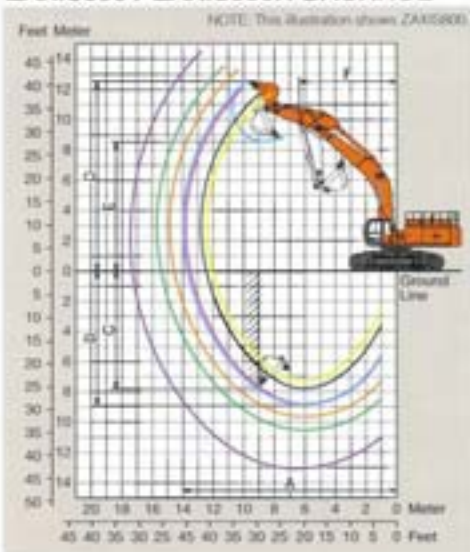
Unit: ft in (mm)

	ZAXIS800
A Distance between tumbler	16'9" (5 110)
B Undercarriage length	20'10" (6 350)
*C Counterweight clearance	5'3" (1 590)
D Rear-end swing radius	14'1" (4 300)
E Rear-end length	13'10" (4 220)
F Overall width of upperstructure	12'8" (3 850)
G Overall height of Cab	11'11" (3 640)
*H Min. ground clearance	2'11" (880)
I Track gauge	11'4" (3 450)
J Track shoe width	26" (650)
K Undercarriage width Extended/Retracted	13'5" (4 100) / 11'5" (3 480)
L Overall length	45'5" (13 850)
M Overall width	14'4" (4 360)
N Overall height of boom	16'1" (4 900)

* Excluding track shoe lug.

WORKING RANGES

ZAXIS800 / ZAXIS850H BACKHOE

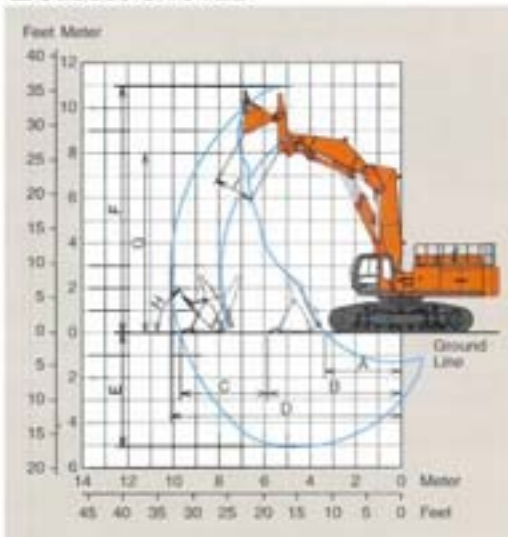


Unit: ft in (mm)

	ZAXIS800				ZAXIS850H		
	20'4" (7.1 m)	27'1" (8.25 m)	32'10" (10.0 m)	29'4" (7.1 m)	26'11" (8.20 m)	26'11" (8.20 m)	26'11" (8.20 m)
Boom	20'4" (7.1 m)	27'1" (8.25 m)	32'10" (10.0 m)	29'4" (7.1 m)	26'11" (8.20 m)	26'11" (8.20 m)	26'11" (8.20 m)
Arm	9'8" (2.95 m)	11'10" (3.60 m)	14'5" (4.4 m)	17'9" (5.40 m)	9'8" (2.95 m)	11'10" (3.60 m)	11'10" (3.60 m)
A Max. digging reach	40'9" (12.410)	45'1" (13.900)	48'9" (14.870)	51'6" (15.700)	57'3" (17.440)	40'9" (12.410)	42'0" (12.790)
B Max. digging depth	23'9" (7.240)	29'2" (8.890)	31'0" (9.670)	34'7" (10.550)	39'7" (12.060)	23'9" (7.240)	25'7" (7.800)
C Max. vertical wall	14'3" (4.340)	25'7" (7.790)	29'5" (8.970)	30'2" (9.200)	34'0" (10.350)	14'3" (4.340)	18'6" (5.640)
D Max. cutting height	38'4" (11.680)	41'1" (12.530)	43'6" (13.310)	44'4" (13.520)	47'7" (14.490)	38'4" (11.680)	39'4" (12.000)
E Max. dumping height	25'9" (7.820)	28'0" (8.530)	30'3" (9.210)	32'1" (9.770)	35'5" (10.790)	25'9" (7.820)	27'2" (8.270)
F Min. swing radius	18'1" (5.520)	20'10" (6.360)	20'6" (6.240)	20'6" (6.240)	25'0" (7.620)	18'1" (5.520)	20'10" (6.340)

* Excluding track shoe lug

ZAXIS800 SHOVEL



Unit: ft in (mm)

	ZAXIS800	
	Bottom Dump Type	Tilt Dump Type
A Min. digging distance	11'0" (3.350)	10'4" (3.160)
B Min. level crowding distance	19'0" (5.780)	19'0" (5.780)
C Level crowding distance	12'6" (3.820)	12'6" (3.820)
D Max. digging reach	32'10" (10.000)	32'10" (10.000)
E Max. digging depth	16'7" (5.060)	16'7" (5.060)
F Max. cutting height	35'7" (10.850)	35'7" (10.850)
G Max. dumping height	25'11" (7.900)	16'3" (4.960)
H Max. bucket tilting angle on the ground (°)	55	49
I Max. bucket opening width	5'3" (1.600)	—

BACKHOE BUCKETS

Capacity		Width		No. of teeth	Weight	Recommendation					
PCSA heaped	CECE heaped	Without side cutters	With side cutters			ZAXIS800			ZAXIS850H		
						22'4" (7.1 m) BE-front BE-boom	27'1" (8.25 m) boom	32'10" (10.0 m) boom	22'4" (7.1 m) BE-front BE-boom	26'11" (8.20 m) H-front H-boom	26'11" (8.20 m) H-front H-boom
1.96 yd ³ (1.5 m ³)	1.3 m ³	50"	50"	5	2,400 lb (1,130 kg)	X	X	X	X	X	X
2.35 yd ³ (1.8 m ³)	1.6 m ³	48"	54"	5	4,120 lb (1,870 kg)	X	X	O	X	X	X
2.88 yd ³ (2.2 m ³)	2.0 m ³	52"	60"	5	4,720 lb (2,140 kg)	X	X	O	X	X	X
3.14 yd ³ (2.4 m ³)	2.2 m ³	56"	61"	5	5,190 lb (2,350 kg)	X	O	O	X	O	—
3.66 yd ³ (2.8 m ³)	2.4 m ³	60"	67"	5	5,290 lb (2,400 kg)	X	O	O	X	O	—
4.45 yd ³ (3.4 m ³)	3.0 m ³	72"	80"	5	5,040 lb (2,280 kg)	X	O	—	X	O	—
5.62 yd ³ (4.3 m ³)	3.8 m ³	—	84"	5	7,890 lb (3,580 kg)	O	X	X	X	O	X
7.45 yd ³ (5.7 m ³)	5.0 m ³	—	76"	5	7,620 lb (3,460 kg)	X	—	—	X	X	●
7.71 yd ³ (5.9 m ³)	5.2 m ³	—	77"	5	7,690 lb (3,490 kg)	X	—	—	X	X	●
8.67 yd ³ (6.6 m ³)	5.8 m ³	—	84"	5	9,040 lb (4,100 kg)	—	X	X	X	●	X
10.49 yd ³ (7.9 m ³)	7.0 m ³	—	90"	3	9,040 lb (4,100 kg)	X	—	—	X	X	●
10.88 yd ³ (8.2 m ³)	7.2 m ³	—	82"	3	9,480 lb (4,300 kg)	—	X	X	X	●	X
One-point Ripper				1	5,730 lb (2,600 kg)	—	X	X	X	●	●

O Rock bucket
● Ripper bucket

O Suitable for materials with density of 3,000 lb/yd³ (1,800 kg/m³) or less ● Heavy-duty service — Not applicable X Can't install

SHOVEL BUCKETS

Capacity	Max. width	No. of teeth	Weight	Type
4.71 yd ³ (3.6 m ³)	7'7" (2,300 mm)	6	13,410 lb (6,060 kg)	Bottom dump type rock bucket
5.23 yd ³ (4.0 m ³)	8'1" (2,460 mm)	6	12,390 lb (5,620 kg)	Bottom dump type general purpose bucket
5.23 yd ³ (4.0 m ³)	7'9" (2,360 mm)	6	10,980 lb (4,980 kg)	Tilt dump type rock bucket
5.75 yd ³ (4.4 m ³)	8'3" (2,520 mm)	6	10,210 lb (4,630 kg)	Tilt dump type general purpose bucket

LIFTING CAPACITIES (ENGLISH)

- Notes: 1. Ratings are based on SAE J1337.
 2. Lifting capacity of the ZAXIS Series does not exceed 75% of lifting load with the machine on firm, level ground or 87% full hydraulic capacity.
 3. The load point is a hook (not standard equipment) located on the back of the bucket.
 4. *Indicates load limited by hydraulic capacity.



A: Load point
 B: Load point height
 C: Lifting capacity

Conditions	Load point height	Load radius																At max. reach			
		10 ft		15 ft		20 ft		25 ft		30 ft		35 ft		40 ft		45 ft		ft in			
		☺	☹	☺	☹	☺	☹	☺	☹	☺	☹	☺	☹	☺	☹	☺	☹				
ZAXIS800 Boom 27'1" Arm 11'10" Bucket PCSA: 4.45 yd³ Shoes 35"	30 ft																		112.4	112.4	39'1"
	25 ft										20.1	20.1							112.2	112.2	41'6"
	20 ft									21.9	21.9	20.6	20.6						112.4	112.4	43'1"
	15 ft									24.6	24.6	23.2	23.2						113.8	113.8	
	10 ft									32.9	32.9	31.5	31.5	22.0	22.0				117.9	117.9	42'11"
	5 ft									43.0	43.0	41.6	41.6	30.7	30.7	17.8	17.8	21.7	113.1	113.1	44'1"
	0 (Ground)									48.3	48.3	46.9	46.9	35.4	35.4	22.0	22.0	17.8	14.8	14.8	47'
	-5 ft									36.2	36.2	34.8	34.8	27.4	27.4	21.4	21.4	17.0	15.4	15.4	42'5"
	-10 ft									30.8	30.8	29.4	29.4	23.8	23.8	17.8	17.8	15.0	14.8	14.8	40'5"
	-15 ft									26.2	26.2	24.8	24.8	20.2	20.2	15.0	15.0	12.5	12.2	12.2	37'6"
-20 ft									22.0	22.0	20.6	20.6	16.6	16.6	12.5	12.5	10.9	10.6	10.6	33'3"	
ZAXIS800 Boom 27'1" Arm 14'5" Bucket PCSA: 3.66 yd³ Shoes 35"	30 ft																		16.4	16.4	5'6"
	25 ft																		18.2	18.2	5'8"
	20 ft																		17.7	17.7	5'4"
	15 ft																		20.0	20.0	5'5"
	10 ft																		19.6	19.6	5'4"
	5 ft																		21.1	21.1	5'8"
	0 (Ground)																		22.4	22.4	6'0"
	-5 ft																		20.4	20.4	5'8"
	-10 ft																		18.2	18.2	5'4"
	-15 ft																		15.8	15.8	4'10"
ZAXIS800 Boom 27'1" Arm 17'9" Bucket PCSA: 2.88 yd³ Shoes 35"	30 ft																		9.8	9.8	3'2"
	25 ft																		11.1	11.1	3'3"
	20 ft																		14.0	14.0	4'3"
	15 ft																		16.2	16.2	4'7"
	10 ft																		18.9	18.9	5'7"
	5 ft																		18.7	18.7	5'6"
	0 (Ground)																		21.1	21.1	6'0"
	-5 ft																		19.6	19.6	5'7"
	-10 ft																		16.2	16.2	4'7"
	-15 ft																		13.9	13.9	4'11"
ZAXIS800 BE-boom 23'4" BE-arm 9'8" Bucket PCSA: 5.62 yd³ Shoes 35"	30 ft																		22.5	22.5	22'1"
	25 ft																		24.8	24.8	20'11"
	20 ft																		25.5	25.5	17'9"
	15 ft																		29.8	29.8	14'9"
	10 ft																		33.8	33.8	11'5"
	5 ft																		36.4	36.4	8'3"
	0 (Ground)																		35.1	35.1	5'3"
	-5 ft																		30.8	30.8	4'3"
	-10 ft																		26.2	26.2	3'5"
	-15 ft																		22.0	22.0	2'7"

LIFTING CAPACITIES (METRIC)

- Notes: 1. Ratings are based on SAE J1107.
 2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with the machine on firm, level ground at 87% full hydraulic capacity.
 3. The load point is a hook (not standard equipment) located on the back of the bucket.
 4. *Indicates load limited by hydraulic capacity.



A: Load radius
 B: Load point height
 C: Lifting capacity

Heavy-lifting system Rating over-side or 360 degrees Rating over-front Unit: 1,000 kg

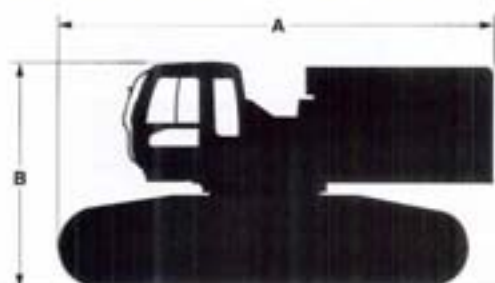
Conditions	Load point height	Load radius												At max. reach			
		4 m		6 m		8 m		10 m		12 m		14 m		meter			
		☺	☹	☺	☹	☺	☹	☺	☹	☺	☹	☺	☹				
ZAXIS800 Boom 8.25 m Arm 3.6 m Bucket PCSA: 3.4 m ² Shoes 900 mm	8 m							9.0	9.0					9.5	9.5	12.5	
	6 m							10.1	10.1					9.5	9.5	13.1	
	4 m					13.3	13.3	10.8	10.8	8.5	8.5			9.9	9.9	13.4	
	2 m					15.9	15.9	11.3	11.3	12.2	8.7	10.7			8.4	10.4	13.4
	0 (Ground)					16.1	17.8	11.3	11.3	13.7	8.2	11.0			8.7	11.1	12.9
	-2 m			21.7	25.6	14.9	18.3	10.5	13.8						7.9	9.6	12.1
	-4 m	24.2	24.2	23.9	23.9	15.0	17.6	10.5	13.7						8.8	9.9	10.7
		25.3	25.3	20.9	26.5	15.0	19.7	10.5	14.8						9.8	10.4	
		27.1	27.1	20.4	20.4	15.7	15.7										
		30.2	30.2	22.8	22.8	15.4	17.0										

ZAXIS800 Boom 8.25 m Arm 4.4 m Bucket PCSA: 2.8 m ² Shoes 900 mm	10 m													14.0	14.0	12.4		
	8 m													14.5	14.5			
	6 m							16.7	16.7	13.4	13.4			13.8	13.8	13.4		
	4 m					16.7	16.7	11.1	12.1	10.0	8.7	9.8			13.9	13.9	14.3	
	2 m					18.6	18.6	13.5	13.5	11.7	11.2	8.7	10.1			14.5	14.5	14.2
	0 (Ground)					14.9	14.9	11.5	11.5	12.9	8.3	9.7			14.7	14.7	13.8	
	-2 m			20.0	20.0	15.5	17.1	10.9	12.8	8.0	10.4				14.7	14.7	13.8	
	-4 m	23.8	23.8	23.9	23.9	15.1	17.1	10.9	12.8	8.0	11.8				14.4	14.4	13.1	
		25.8	25.8	20.8	20.8	15.0	18.1	10.5	13.6	7.8	10.8				15.6	15.6	12.1	
		27.8	27.8	21.7	21.7	14.9	18.0	10.4	13.8		12.2				16.2	16.2	11.8	

ZAXIS800 Boom 8.25 m Arm 5.4 m Bucket PCSA: 2.2 m ² Shoes 900 mm	10 m													19.2	19.2	13.4		
	8 m									16.8	16.8			13.0	13.0	14.3		
	6 m									17.6	17.6			13.0	13.0	14.9		
	4 m							19.2	19.2	14.3	14.4	14.4			13.1	13.1	15.1	
	2 m					20.2	20.2	13.8	13.8	10.9	10.9	8.7	9.3	9.6	9.6	13.4	13.4	15.1
	0 (Ground)					24.2	24.2	15.9	16.3	11.3	11.4	8.3	10.2	9.0	9.0	13.8	13.8	14.7
	-2 m	10.2	10.2	23.7	25.0	15.7	17.9	10.8	13.5	8.0	10.8				14.4	14.4	14.0	
	-4 m	10.9	10.9	23.7	26.7	15.2	19.9	10.8	15.1	8.0	12.2				15.0	15.0	12.9	
		11.4	11.4	23.6	25.8	14.9	18.3	10.5	13.8	7.9	10.8				15.4	15.4	11.2	
		19.4	19.4	20.6	19.6	14.9	20.4	10.5	15.5	7.9	12.2				16.1	16.1	11.2	

ZAXIS800 BE-Boom 7.10 m BE-Arm 2.95 m Bucket PCSA: 4.3 m ² Shoes 900 mm	8 m					10.7	10.7							16.7	16.7	10.8
	6 m					10.0	10.0							17.5	17.5	11.5
	4 m					11.4	11.4							17.4	17.4	11.8
	2 m					11.4	11.4	11.0	11.3					17.7	17.7	11.7
	0 (Ground)					11.1	15.7	10.5	12.3					17.4	17.4	11.7
	-2 m					14.7	17.2	10.1	13.0					18.3	18.3	11.2

TRANSPORTATION



Basic machine (without front attachment, counterweight) : Backhoe

	Shoe width	A	B	Overall width	Weight
ZAXIS800	26" (650 mm)	22'1" (6 720mm)	11'8" (3 570 mm)	11'5" (3 490 mm)	102 100 lb (46 300 kg)
	30" (750 mm)	22'1" (6 720mm)	11'8" (3 570 mm)	11'9" (3 580 mm)	103 600 lb (47 000 kg)
ZAXIS850H	26" (650 mm)	22'1" (6 720mm)	12'1" (3 690 mm)	11'5" (3 490 mm)	102 700 lb (46 600 kg)

Basic machine (without front attachment, counterweight) : Loading Shovel

	Shoe width	A	B	Overall width	Weight
ZAXIS800	26" (650 mm)	22'1" (6 600mm)	11'8" (3 570 mm)	11'5" (3 490 mm)	102 100 lb (45 700 kg)
	30" (750 mm)	22'1" (6 600mm)	11'8" (3 570 mm)	11'9" (3 580 mm)	103 600 lb (46 400 kg)
ZAXIS850H	26" (650 mm)	22'1" (6 600mm)	12'1" (3 690 mm)	11'5" (3 490 mm)	102 700 lb (46 600 kg)

Basic machine (without front attachment, side frame, steps on the hydraulic oil tank and hand rails on the right-hand frame)

	A	B	Overall width	Weight
ZAXIS800	18'11" (5 760 mm)	9'6" (2 890 mm)	10'6" (3 200 mm)	50 900 lb (23 100 kg)
ZAXIS850H	18'10" (5 730 mm)	9'6" (2 890 mm)	10'6" (3 200 mm)	51 100 lb (23 200 kg)

Loading Shovel Front Attachment

Bucket capacity (PCSA heaped)	Weight	Overall width
4.71 yd ³ (3.6 m ³)	38 600 lb (17 500 kg)	7'10" (2 400 mm)
5.23 yd ³ (4.0 m ³)	37 500 lb (17 500 kg)	8'5" (2 560 mm)

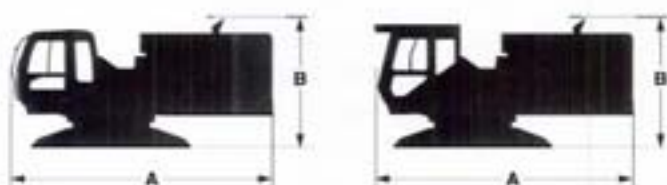
Loading Shovel Front Attachment (Without Bucket)

Weight : 25 200 lb (11 450 kg)
Overall width : 4'9" (1 450 mm)



Loading Shovel Bucket

Bucket capacity	A ft in (mm)	B ft in (mm)	Max. width ft in (mm)	Weight lb (kg)	Type
4.70 yd ³ (3.6 m ³)	7'6" (2 280)	8'5" (2 570)	7'7" (2 300)	13 410 (6 080)	Bottom dump type rock bucket
5.23 yd ³ (4.0 m ³)	7'7" (2 300)	8'5" (2 570)	8'1" (2 460)	12 390 (5 620)	Bottom dump type general purpose bucket
5.23 yd ³ (4.0 m ³)	7'6" (2 290)	8'5" (2 560)	7'9" (2 380)	10 980 (4 980)	Tilt dump type rock bucket
5.75 yd ³ (4.4 m ³)	7'6" (2 290)	8'5" (2 560)	8'3" (2 520)	10 210 (4 630)	Tilt dump type general purpose bucket



Boom cylinders: 700 kg (1 540 lb) x 2





Boom

	A	B	Overall width	Weight
23'4" (7.10 m) BE-boom	24'7" (7 500 mm)	8'0" (2 450 mm)	4'8" (1 420 mm)	15 900 lb (7 200 kg)
27'1" (8.25 m)	27'11" (8 500 mm)	6'3" (1 900 mm)	4'8" (1 420 mm)	15 600 lb (7 090 kg)
26'11" (8.20 m) H-boom	28'3" (8 620 mm)	8'0" (2 440 mm)	4'8" (1 420 mm)	16 800 lb (7 610 kg)
32'10" (10.0 m)	33'10" (10 310 mm)	7'7" (2 320 mm)	4'8" (1 420 mm)	17 700 lb (8 020 kg)



Arm

	A	B	Overall width	Weight
9'8" (2.95 m) BE-arm	14'6" (4 410 mm)	5'7" (1 700 mm)	2'9" (840 mm)	9 600 lb (4 350 kg)
11'10" (3.60 m)	16'7" (5 065 mm)	3'11" (1 190 mm)	2'9" (840 mm)	7 900 lb (3 590 kg)
11'10" (3.60 m) H-arm	16'7" (5 065 mm)	3'11" (1 190 mm)	2'9" (840 mm)	8 800 lb (4 010 kg)
14'5" (4.40 m)	19'1" (5 820 mm)	4'4" (1 320 mm)	2'9" (840 mm)	8 600 lb (3 900 kg)
17'9" (5.40 m)	22'5" (6 820 mm)	4'2" (1 270 mm)	2'9" (840 mm)	8 800 lb (3 990 kg)



Bucket

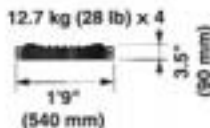
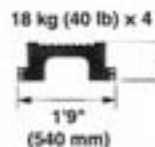
Capacity		A	B	Overall width	Weight
PCSA heaped	CECE heaped				
1.96 yd ³ (1.5 m ³)	1.3 m ³	6'1" (1 860 mm)	4'5" (1 430 mm)	4'7" (1 400 mm)	2 490 lb (1 130 kg)
2.35 yd ³ (1.8 m ³)	1.6 m ³	6'11" (2 115 mm)	5'8" (1 735 mm)	4'6" (1 360 mm)	4 120 lb (1 870 kg)
2.62 yd ³ (2.0 m ³)	1.8 m ³	6'11" (2 115 mm)	5'8" (1 735 mm)	4'11" (1 490 mm)	4 540 lb (2 060 kg)
2.88 yd ³ (2.2 m ³)	2.0 m ³	6'11" (2 120 mm)	5'9" (1 740 mm)	5'3" (1 590 mm)	4 720 lb (2 140 kg)
3.14 yd ³ (2.4 m ³)	2.2 m ³	7'3" (2 210 mm)	6'2" (1 870 mm)	5'1" (1 560 mm)	5 180 lb (2 350 kg)
3.66 yd ³ (2.8 m ³)	2.4 m ³	7'3" (2 210 mm)	6'2" (1 870 mm)	5'7" (1 700 mm)	5 290 lb (2 400 kg)
4.45 yd ³ (3.4 m ³)	3.0 m ³	7'3" (2 210 mm)	6'2" (1 870 mm)	6'8" (2 040 mm)	5 840 lb (2 650 kg)
5.62 yd ³ (4.3 m ³)	3.8 m ³	7'9" (2 350 mm)	6'5" (1 950 mm)	7'0" (2 130 mm)	7 890 lb (3 580 kg)
4.45 yd ³ (3.4 m ³)	3.0 m ³	7'5" (2 260 mm)	6'4" (1 930 mm)	6'4" (1 940 mm)	7 630 lb (3 460 kg)
4.71 yd ³ (3.6 m ³)	3.2 m ³	7'5" (2 260 mm)	6'4" (1 930 mm)	6'5" (1 960 mm)	7 690 lb (3 490 kg)
5.62 yd ³ (4.3 m ³)	3.8 m ³	7'9" (2 350 mm)	6'5" (1 950 mm)	7'0" (2 130 mm)	9 040 lb (4 100 kg)

Counterweight: 27 600 lb (12 500 kg)
Overall height: 4'9" (1 440 mm)



Step:

Overall Height: 4.9" (125 mm)

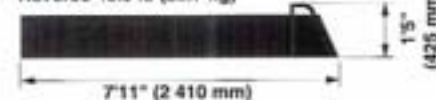


Left sidewalk:

Front 44.5 lb (20.2 kg)



Reverse 45.5 lb (20.7 kg)



Side frame

	Shoe width	A	B	Overall width	Weight
ZAXIS800	26" (650 mm)	20'10" (6 350 mm)	4'10" (1 470 mm)	2'6" (820 mm)	25 600 lb (11 600 kg)
	30" (750 mm)	20'10" (6 350 mm)	4'10" (1 470 mm)	2'8" (820 mm)	26 300 lb (11 950 kg)
ZAXIS850H	26" (650 mm)	20'10" (6 350 mm)	4'10" (1 470 mm)	2'8" (820 mm)	25 800 lb (11 700 kg)

EQUIPMENT

STANDARD 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
- Quick-idle system

HYDRAULIC SYSTEM

- Work mode selector
- Engine speed sensing system
- E-P control system
- Power boost
- Boom mode selector system
- Quick warm-up system for pilot circuit
- Shockless valve in pilot circuit
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter

CAB

- CRFS (Center pillar Reinforced Structure) design
- All-weather sound-suppressed steel cab
- Tinted (bronze color) glass windows
- 6 fluid-filled elastic mounts
- Upper and lower front windows and left side windows that open
- Intermittent windshield retractable wipers
- Front window washer
- Adjustable reclining suspension seat with adjustable armrests
- Footrest
- Electric double horn
- AM-FM radio with digital clock
- Auto-idle/acceleration selector
- Seat belt
- Drink holder

- Cigarette lighter
- Ashtray
- Storage box
- Glove compartment
- Floor mat
- Auto-control air conditioning
- Pilot control shut-off lever
- Engine stop knob

MONITOR SYSTEM

- Meters:
 - Hourmeter, trip meter, engine coolant temperature gauge, and fuel gauge
- Warning lamps:
 - Alternator charge, engine oil pressure, engine overheat, air filter restriction, and minimum fuel level
- Pilot lamps:
 - Engine preheat, engine oil level, engine coolant level, auto-idle, auto-acceleration, digging mode, trench digging mode, attachment mode, and precision (or heavy-lift) mode.
- Alarm buzzers:
 - Engine oil pressure and engine overheat

UPPERSTRUCTURE

- Undercover
- 27,600 lb (12,500 kg) counterweight
- Fuel level float
- Hydraulic oil level gauge
- Utility space
- Rearview mirror (right and left side)
- Swing parking brake

UNDERCARRIAGE

- Travel parking brake
- Travel motor covers
- Track guards and hydraulic track adjuster
- Idler track guard
- Bolt-on sprocket
- Upper rollers and lower rollers
- Reinforced track links with pin seats
- 35" (900 mm) double grouser shoes

FRONT ATTACHMENTS

- Flanged pin
- Bucket clearance adjust mechanism
- Monolithically cast bucket link A
- Centralized lubrication system
- Dust seal on all bucket pins
- 27' 1" (8.25 m) boom
- 11' 10" (3.6 m) arm
- 4.45 yd³ (3.4 m³) PCSA heaped bucket

MISCELLANEOUS

- Standard tool kit
- Lockable machine covers
- Lockable fuel filling cap
- Skid-resistant tapes, plates, handrails, and sidewalk
- Travel direction mark on track frame

OPTIONAL EQUIPMENT

- Hose rupture valves
- Electric fuel refilling pump
- Swing motion alarm device with lamps
- Auto-grease lubricator system
- Electric grease gun with hose-reel
- Travel motion alarm device
- Attachment basic piping
- Accessories for breaker
- Accessories for breaker and crusher
- Accessories for 2-speed selector
- Front glass lower guard
- Front glass upper guard
- Headguard integrated cab
- 26" (660 mm) double grouser shoes
- 30" (760 mm) double grouser shoes
- H-track guard (dual type)
- Full track guard
- Counterweight removal device
- Right sidewalk
- 2 cab lights

These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features.

HITACHI

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