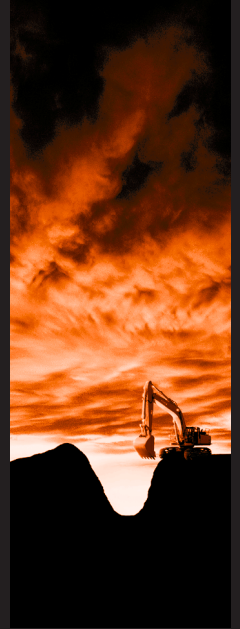
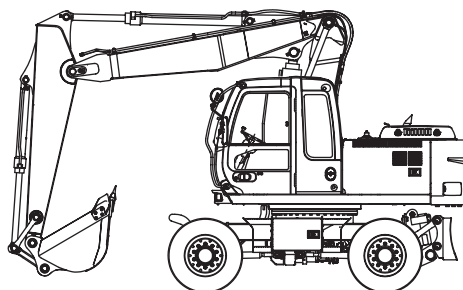


HITACHI ZAXIS160W

engine rated power
90.2 kW / 121 HP

operating weight
15 600 - 18 000 kg

bucket capacity
0.52 - 0.82 m³



HITACHI

Engine

Model	Isuzu 4BG1XABFA
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharged, intercooled
No. of cylinders	4
Rated power	
Traveling	
DIN 6271, net	90.2 kW (123 PS, 121 HP) at 2 300 min ⁻¹ (rpm)
SAE J1349, net	90.2 kW (123 PS, 121 HP) at 2 300 min ⁻¹ (rpm)
ISO 9249, net	90.2 kW (123 PS, 121 HP) at 2 300 min ⁻¹ (rpm)
ECE-R24	90.2 kW (123 PS, 121 HP) at 2 300 min ⁻¹ (rpm)
Digging	
DIN 6271, net . H/P mode	89.7 kW (122 PS, 120 HP) at 2 050 min ⁻¹ (rpm)
P mode	84.8 kW (115 PS, 114 HP) at 1 850 min ⁻¹ (rpm)
SAE J1349, netH/P mode	89.7 kW (122 PS, 120 HP) at 2 050 min ⁻¹ (rpm)
P mode	84.8 kW (115 PS, 114 HP) at 1 850 min ⁻¹ (rpm)
ISO 9249, net . H/P mode	89.7 kW (122 PS, 120 HP) at 2 050 min ⁻¹ (rpm)
P mode	84.8 kW (115 PS, 114 HP) at 1 850 min ⁻¹ (rpm)
Maximum torque	431 Nm at 1 600 min ⁻¹ (rpm)
Piston Displacement	4.329 l
Bore and stroke	105 mm x 125 mm
Batteries	2 x 12 V / 55 Ah
Governor	Mechanical speed control with stepping motor

Hydraulic system

- Work mode selector
Digging mode / Attachment mode
- Engine speed sensing system

Main pumps	2 variable displacement axial piston pumps
Maximum oil flow	2 x 184 l/min
Pilot pump	1 gear pump
Maximum oil flow	24.2 l/min
Steering pump	1 gear pump
Maximum oil flow	27.8 l/min

HYDRAULIC MOTORS

Travel	1 variable displacement axial piston motor
Swing	1 axial piston motor

RELIEF VALVE SETTINGS

Implement circuit	34.3 MPa (350 kgf/cm ² , 4 980 psi)
Swing circuit	30.4 MPa (310 kgf/cm ² , 4 410 psi)
Travel circuit	34.3 MPa (350 kgf/cm ² , 4 980 psi)
Pilot circuit	3.9 MPa (40 kgf/cm ² , 570 psi)

HYDRAULIC CYLINDERS

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.

DIMENSIONS

	Qty.	Bore	Rod diameter
Boom (2-piece boom)	2	110 mm	80 mm
Positioning (2-Piece boom)	1	170 mm	120 mm
Boom (Monoblock boom)	2	110 mm	80 mm
Arm	1	120 mm	90 mm
Bucket	1	105 mm	75 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.

Controls

Pilot controls. Hitachi's original shockless valve and quick warm-up system built in the pilot circuit. Hydraulic warm-up control system for engine and hydraulic oil.

Implement levers	2
Travel levers with pedals	2
Outrigger and/or blade lever	1
Positioning and/or Att Pedal	1

Upper structure

REVOLVING FRAME

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

SWING MECHANISM

Axial piston motor with planetary reduction gear is bathed in oil. 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 speed. 13.3 min⁻¹ (rpm)

OPERATOR'S CABIN

Independent spacious cabin, 1 005 mm wide by 1 675 mm high, conforming to ISO standards. Reinforced glass windows on 4 sides for visibility. Front windows (upper and lower) can be opened. Reclining seat with armrests; adjustable with or without control levers.

Undercarriage

Wheeled type undercarriage. The frame is of welded, stress-relieved structure.

Drive system: 2 gear power shift transmission and variable displacement axial piston type travel motor.

Travel speed (forward and reverse)

Creeper speed range	0 to 2.3 km/h
Low speed range	0 to 9.0 km/h
High speed range	0 to 32.0 km/h
Gradeability	35 degree (70%)
Min. turning radius	6 280 mm

Axle:

All-wheel drive.

The front axle can be locked hydraulically in any position.

Oscillating front axle	left: ± 6° right: ± 6°
------------------------	---------------------------

Brakes system:

Maintenance free wet-disc brakes on front axle and rear axle are standard.

Fully hydraulic service brake system.

Operating weight

ZAXIS160W WITH MONOBLOCK BOOM:

Equipped with monoblock boom, 2.58 m arm and 0.6 m³ (SAE heaped) bucket.

Stabilization	Operating weight			
	Standard gauge		Wide gauge	
	Short chassis	STD chassis	Short chassis	STD chassis
Rear Blade	15 600 kg	15 800 kg	15 700 kg	16 000 kg
Rear Outrigger	16 000 kg	16 300 kg	16 100 kg	16 400 kg
Front and Rear Outrigger	—	17 300 kg	—	17 400 kg
Outrigger and Blade	—	16 900 kg	—	17 000 kg

ZAXIS160W WITH 2-PIECE BOOM:

Equipped with 2-piece boom, 2.50 m arm and 0.6 m³ (SAE heaped) bucket.

Stabilization	Operating weight			
	Standard gauge		Wide gauge	
	Short chassis	STD chassis	Short chassis	STD chassis
Rear Blade	16 100 kg	16 400 kg	16 200 kg	16 500 kg
Rear Outrigger	16 500 kg	16 800 kg	16 600 kg	16 900 kg
Front and Rear Outrigger	—	17 900 kg	—	18 000 kg
Outrigger and Blade	—	17 400 kg	—	17 600 kg

Service refill capacities

Fuel tank	280 l
Engine coolant	19.2 l
Engine oil	15.8 l
Swing mechanism	6.2 l
Transmission	2.9 l
Front differential gear	11 l
Rear differential gear	13 l
Hub reduction gear	
Front axle	2 x 2 l
Rear axle	2 x 2 l
Hydraulic system	180 l
Hydraulic tank	100 l

Backhoe attachments

Booms and arms are of welded, box-section design. Monoblock and 2-piece booms are available.

2.22 m, 2.58 m and 3.10 m arms are available for monoblock boom.

2.21 m, 2.50 m and 3.10 m arms are available for 2 piece boom.

Bucket is of all-welded, high-strength steel structure.

BUCKETS

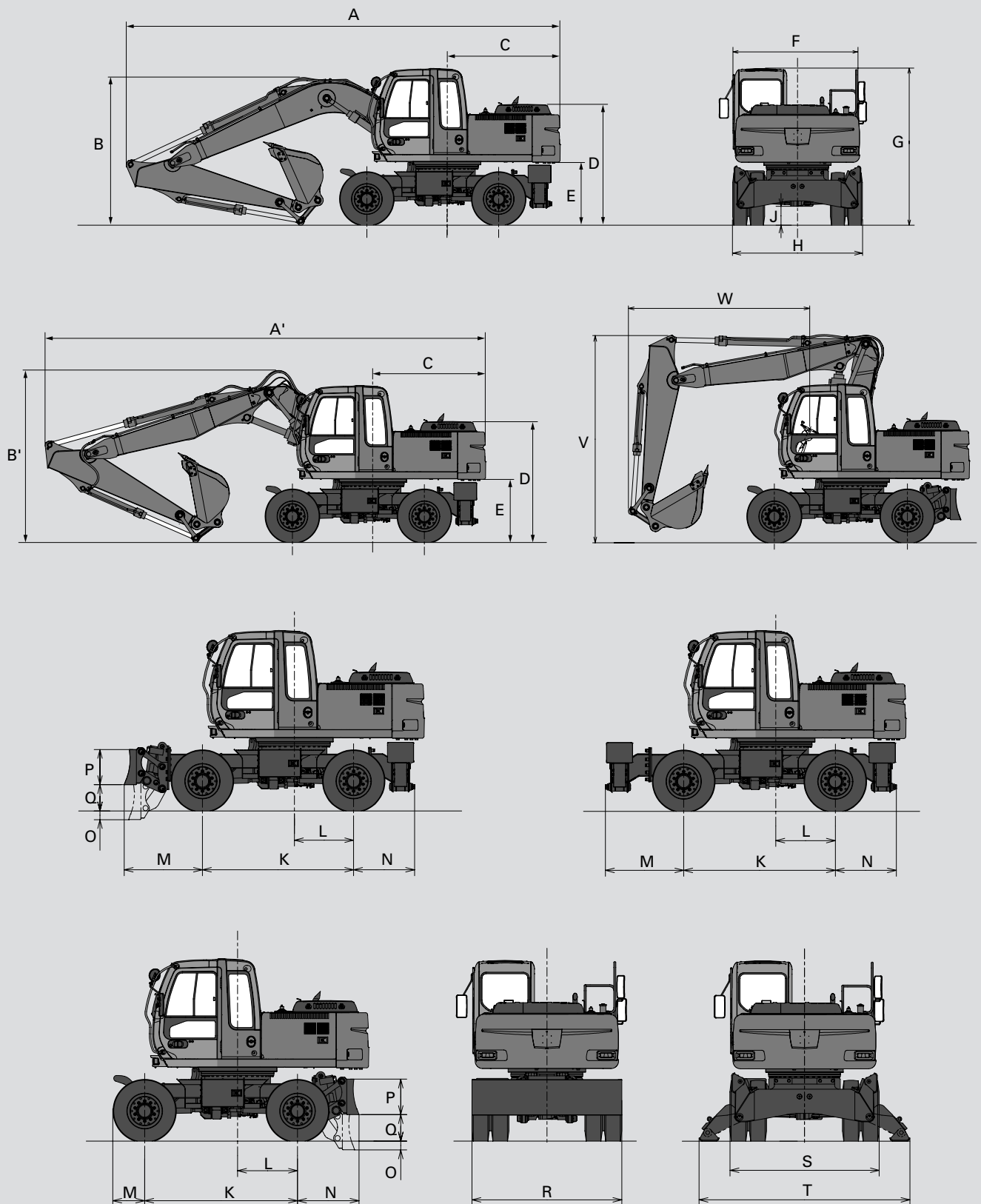
Capacity		Width		Weight	Monoblock boom			2-Piece Boom		
SAE (PCSA) heaped	CECE heaped	With side cutters	Without side cutters		2.22 m arm	2.58 m arm	3.10 m arm	2.21 m arm	2.50 m arm	3.10 m arm
0.52 m ³	0.45 m ³	910 mm	790 mm	480 kg	⊙	⊙	⊙	⊙	⊙	⊙
0.60 m ³	0.55 m ³	1 045 mm	925 mm	530 kg	⊙	⊙	○	⊙	⊙	○
0.70 m ³	0.60 m ³	1 125 mm	1005 mm	550 kg	⊙	○	□	⊙	○	□
0.82 m ³	0.70 m ³	1 260 mm	1140 mm	590 kg	○	□	—	○	□	—

⊙ Suitable for materials with density of 1 800 kg/m³ or less.

○ Suitable for materials with density of 1 600 kg/m³ or less.

□ Suitable for materials with density of 1 100 kg/m³ or less.

Dimensions



Dimensions

Unit: mm

	Standard gauge				Wide Gauge	
	Short Chassis		STD Chassis		Short Chassis	
	Rear BL	Rear O/R	Front BL Rear O/R	Front and Rear O/R	Rear BL	Rear O/R
A Overall length (with monoblock boom)						
2.22 m arm	8 510	8 510	8 510	8 510	8 510	8 510
2.58 m arm	8 410	8 410	9 090	9 090	8 410	8 410
3.10 m arm	8 440	8 440	9 120	9 120	8 440	8 440
A' Overall length (with 2 piece boom)						
2.21 m arm	8 550	8 550	8 550	8 550	8 550	8 550
2.50 m arm	8 540	8 540	9 220	9 220	8 540	8 540
3.10 m arm	8 500	8 500	9 180	180	8 500	8 500
B Overall height (with monoblock boom)						
2.22 m arm				3 210		
2.58 m arm				*3 045		
3.10 m arm				3 120		
B' Overall height (with 2 piece boom)						
2.21 m arm				3 300		
2.50 m arm				3 340		
3.10 m arm				3 610		
C Rear-end swing radius				2 190		
D Engine cover height				2 345		
E Counterweight clearance				1 215		
F Overall width of upper structure				2 465		
G Overall height of cabin				3 045		
H Overall width of tires		2 530			2 680	
J Min. ground clearance				360		
K Wheel base				2 550		
L Swing-center to rear axle				1 000		
M Front overhang	530		1 315	1 320	530	
N Rear overhang	1 025	1 030	1 030	1 030	1 025	1 030
O Max. blade lower	150	--	150	--	150	--
P Height of blade	590	--	590	--	590	--
Q Max. blade raise	440	--	440	--	440	--
R Overall width of blade	2 530	--	2 530	--	2 730	--
S Overall width of O/R retract		--	2 470		--	2 470
T Overall width of O/R extend		--	3 570		--	3 570
V Overall height of boom (traveling)						
**2.21 m arm				3 970		
**2.50 m arm				3 970		
3.10 m arm				3 710		
W Front overhang (traveling)						
**2.21 m arm				3 300		
**2.50 m arm				5 350		

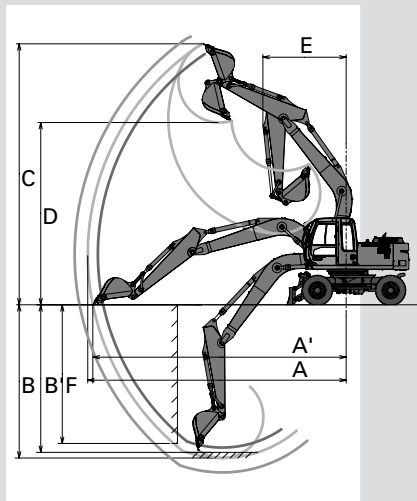
Transportation dimensions are A (A'), B (B'), H (without blade) or A (A'), B (B'), R (with blade).

* Cabin Height.

** Certified by the German Automobile Inspection.

Working ranges

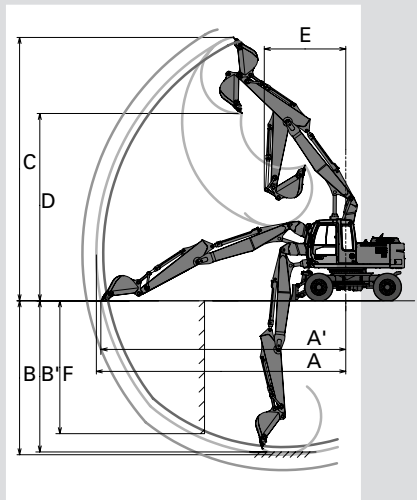
ZAXIS160W WITH MONOBLOCK BOOM



Unit: mm

Arm length	2.22 m	2.58 m	3.10 m
A Max. digging reach	8 650	9 000	9 460
A' Max. digging reach (on ground)	8 460	8 820	9 290
B Max. digging depth	4 970	5 340	5 840
B' Max. digging depth (8' level)	4 750	5 140	5 670
C Max. cutting height	8 810	9 090	9 340
D Max. dumping height	6 110	6 350	6 600
E Min. swing radius	3 340	2 900	2 920
F Max. vertical wall	4 450	4 830	5 330
Bucket digging force ISO	102 kN (10 400 kgf)	102 kN (10 400 kgf)	102 kN (10 400 kgf)
Bucket digging force SAE : PCSA	90 kN (9 200 kgf)	90 kN (9 200 kgf)	90 kN (9 200 kgf)
Arm digging force ISO	104 kN (10 600 kgf)	82 kN (8 400 kgf)	74 kN (7 600 kgf)
Arm digging force SAE : PCSA	100 kN (10 200 kgf)	80 kN (8 200 kgf)	71 kN (7 200 kgf)

ZAXIS160W WITH 2-PIECE BOOM



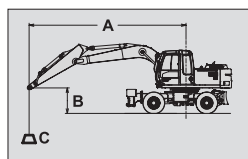
Unit: mm

Arm length	2.21 m	2.50 m	3.10 m
A Max. digging reach	9 020	9 280	9 800
A' Max. digging reach (on ground)	8 850	9 110	9 640
B Max. digging depth	5 440	5 730	6 300
B' Max. digging depth (8' level)	5 340	5 630	6 210
C Max. cutting height	9 650	9 800	10 090
D Max. dumping height	6 810	6 970	7 260
E Min. swing radius	3 070	3 030	3 430
F Max. vertical wall	4 780	5 060	5 600
Bucket digging force ISO	102 kN (10 400 kgf)	102 kN (10 400 kgf)	102 kN (10 400 kgf)
Bucket digging force SAE : PCSA	90 kN (9 200 kgf)	90 kN (9 200 kgf)	90 kN (9 200 kgf)
Arm digging force ISO	88 kN (9 000 kgf)	81 kN (8 300 kgf)	74 kN (7 600 kgf)
Arm digging force SAE : PCSA	85 kN (8 700 kgf)	78 kN (8 000 kgf)	71 kN (7 200 kgf)

LIFTING CAPACITIES

Metric measure

- Notes:
1. Ratings are based on SAE J1097.
 2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
 3. The load point is the center-line of the bucket pivot mounting pin on the arm.
 4. *Indicates load limited by hydraulic capacity.
 5. 0 m = Ground.



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

ZAXIS160W WITH MONOBLOCK BOOM, 2.58 M ARM, STANDARD GAUGE



Rating over-side or 360 degrees



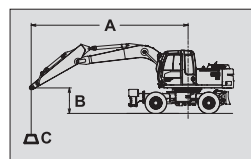
Rating over-front Unit: 1 000 kg

	Stabilization	Load radius										At max. reach		
		3 m		4 m		5 m		6 m		7 m				
														meter
6 m	Rear blade up					3.8	3.6	2.8	2.7			2.6	2.5	6.21
	Rear blade down					*4.5	4.1	*3.7	3.1			*3.2	2.9	
	Rear outrigger down					*4.5	*4.5	*3.7	*3.7			*3.2	*3.2	
	Front outrigger and rear blade down					*4.5	*4.5	*3.7	*3.7			*3.2	*3.2	
	Front blade and rear outrigger down					*4.5	*4.5	*3.7	*3.7			*3.2	*3.2	
	4 outrigger down					*4.5	*4.5	*3.7	*3.7			*3.2	*3.2	
5 m	Rear blade up					3.7	3.5	2.8	2.6			2.2	2.1	6.8
	Rear blade down					*4.7	*4.1	*4.3	*3.0			*3.1	*2.4	
	Rear outrigger down					*4.7	*4.7	*4.3	*3.7			*3.1	3.0	
	Front outrigger and rear blade down					*4.7	*4.7	*4.3	*4.3			*3.1	*3.1	
	Front blade and rear outrigger down					*4.7	*4.7	*4.3	*4.3			*3.1	*3.1	
	4 outrigger down					*4.7	*4.7	*4.3	*4.3			*3.1	*3.1	
4 m	Rear blade up	*7.6	*7.4	5.0	4.8	3.6	3.4	2.7	2.6	2.1	2.0	2.0	1.9	7.22
	Rear blade down	*7.6	*7.6	*6.0	5.5	*5.1	3.9	*4.5	3.0	*3.8	2.3	*3.1	2.2	
	Rear outrigger down	*7.6	*7.6	*6.0	*6.0	*5.1	4.8	*4.5	3.6	*3.8	2.8	*3.1	2.7	
	Front outrigger and rear blade down	*7.6	*7.6	*6.0	*6.0	*5.1	*5.1	*4.5	4.3	*3.8	3.4	*3.1	*3.1	
	Front blade and rear outrigger down	*7.6	*7.6	*6.0	*6.0	*5.1	*5.1	*4.5	*4.5	*3.8	3.6	*3.1	*3.1	
	4 outrigger down	*7.6	*7.6	*6.0	*6.0	*5.1	*5.1	*4.5	*4.5	*3.8	*3.8	*3.1	*3.1	
3 m	Rear blade up	7.1	6.7	4.7	4.5	3.4	3.2	2.6	2.5	2.1	1.9	1.8	1.7	7.46
	Rear blade down	*9.7	8.0	*6.9	5.2	*5.6	3.7	*4.8	2.9	*4.3	2.2	*3.2	2.0	
	Rear outrigger down	*9.7	*9.7	*6.9	6.5	*5.6	4.6	*4.8	3.5	4.1	2.8	*3.2	2.5	
	Front outrigger and rear blade down	*9.7	*9.7	*6.9	*6.9	*5.6	5.5	*4.8	4.2	*4.3	3.3	*3.2	3.2	
	Front blade and rear outrigger down	*9.7	*9.7	*6.9	*6.9	*5.6	*5.6	*4.8	4.4	*4.3	3.5	*3.2	3.0	
	4 outrigger down	*9.7	*9.7	*6.9	*6.9	*5.6	*5.6	*4.8	*4.8	*4.3	4.0	*3.2	*3.2	
2 m	Rear blade up			4.4	4.1	3.2	3.1	2.5	2.4	2.0	1.9	1.8	1.7	7.56
	Rear blade down			*7.7	4.9	*6.0	3.6	*5.0	2.7	*4.4	2.2	*3.4	1.9	
	Rear outrigger down			*7.7	6.1	*6.0	4.4	*5.0	3.4	4.0	2.7	*3.4	2.4	
	Front outrigger and rear blade down			*7.7	7.5	*6.0	5.3	*5.0	4.1	*4.4	3.2	*3.4	3.1	
	Front blade and rear outrigger down			*7.7	*7.7	*6.0	5.7	*5.0	4.3	*4.4	3.4	*3.4	2.9	
	4 outrigger down			*7.7	*7.7	*6.0	*6.0	*5.0	5.0	*4.4	4.0	*3.4	3.4	
1 m	Rear blade up			4.2	3.9	3.1	2.9	2.4	2.3	1.9	1.8	1.7	1.6	7.53
	Rear blade down			*8.1	4.6	*6.3	3.4	*5.2	2.7	*4.4	2.1	*3.6	1.9	
	Rear outrigger down			*8.1	5.9	*6.3	4.3	5.0	3.3	3.9	2.6	3.5	2.4	
	Front outrigger and rear blade down			*8.1	7.2	*6.3	5.2	*5.2	4.0	*4.4	3.2	*3.6	3.0	
	Front blade and rear outrigger down			*8.1	7.8	*6.3	5.5	*5.2	4.2	4.4	3.4	*3.6	2.9	
	4 outrigger down			*8.1	*8.1	*6.3	*6.3	*5.2	4.9	*4.4	3.9	*3.6	3.5	
0 m	Rear blade up	*5.6	*5.6	4.1	3.8	3.0	2.8	2.3	2.2	1.9	1.8	1.8	1.7	7.35
	Rear blade down	*5.6	*5.6	*8.1	4.5	*6.3	3.3	*5.2	2.6	*4.3	2.1	*4.0	2.0	
	Rear outrigger down	*5.6	*5.6	*8.1	5.8	*6.3	4.2	4.9	3.2	3.9	2.6	3.9	2.4	
	Front outrigger and rear blade down	*5.6	*5.6	*8.1	7.1	*6.3	5.1	*5.2	3.9	*4.3	3.1	*4.0	3.1	
	Front blade and rear outrigger down	*5.6	*5.6	*8.1	7.7	*6.3	5.4	*5.2	4.2	*4.3	3.3	*4.0	2.9	
	4 outrigger down	*5.6	*5.6	*8.1	*8.1	*6.3	*6.3	*5.2	4.8	*4.3	3.9	*4.0	3.6	
-1 m	Rear blade up	6.2	5.8	4.0	3.8	3.0	2.8	2.3	2.2	1.9	1.8	1.9	1.8	7.03
	Rear blade down	*8.3	7.0	*7.6	4.5	*6.1	3.3	*5.0	2.6	*4.0	2.1	*4.0	2.1	
	Rear outrigger down	*8.3	*8.3	*7.6	5.7	*6.1	4.1	4.9	3.2	3.9	2.6	3.9	2.6	
	Front outrigger and rear blade down	*8.3	*8.3	*7.6	7.1	*6.1	5.0	*5.0	3.9	*4.0	3.1	*4.0	3.3	
	Front blade and rear outrigger down	*8.3	*8.3	*7.6	7.6	*6.1	5.4	*5.0	4.1	*4.0	3.3	*4.0	3.1	
	4 outrigger downer down	*8.3	*8.3	*7.6	*7.6	*6.1	*6.1	*5.0	4.8	*4.0	3.9	*4.0	3.8	
-2 m	Rear blade up	6.2	5.8	4.0	3.8	3.0	2.8	2.3	2.2			2.1	2.0	6.53
	Rear blade down	*8.4	7.1	*6.8	4.5	*5.6	3.3	*4.5	2.6			*3.9	2.3	
	Rear outrigger down	*8.4	*8.4	*6.8	5.7	*5.6	4.1	*4.5	3.2			*3.9	2.9	
	Front outrigger and rear blade down	*8.4	*8.4	*6.8	*6.8	*5.6	5.0	*4.5	3.9			*3.9	3.7	
	Front blade and rear outrigger down	*8.4	*8.4	*6.8	*6.8	*5.6	5.4	*4.5	4.1			*3.9	3.5	
	4 outrigger down	*8.4	*8.4	*6.8	*6.8	*5.6	*5.6	*4.5	*4.5			*3.9	*3.9	
-3 m	Rear blade up	6.4	5.9	4.1	3.9	3.0	2.8					2.5	2.3	5.81
	Rear blade down	*6.8	*6.8	*5.7	4.6	*4.6	3.3					*3.6	2.7	
	Rear outrigger down	*6.8	*6.8	*5.7	*5.7	*4.6	4.2					*3.6	3.4	
	Front outrigger and rear blade down	*6.8	*6.8	*5.7	*5.7	*4.6	*4.6					*3.6	*3.6	
	Front blade and rear outrigger down	*6.8	*6.8	*5.7	*5.7	*4.6	*4.6					*3.6	*3.6	
	4 outriaeger down	*6.8	*6.8	*5.7	*5.7	*4.6	*4.6					*3.6	*3.6	

LIFTING CAPACITIES

Metric measure

- Notes:
1. Ratings are based on SAE J1097.
 2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
 3. The load point is the center-line of the bucket pivot mounting pin on the arm.
 4. *Indicates load limited by hydraulic capacity.
 5. 0 m = Ground.



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

ZAXIS160W WITH MONOBLOCK BOOM, 2.58 M ARM, WIDE GAUGE



Rating over-side or 360 degrees



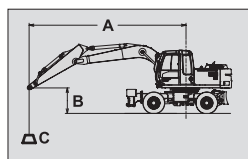
Rating over-front Unit: 1 000 kg

	Stabilization	Load radius										At max. reach		
		3 m		4 m		5 m		6 m		7 m				
														meter
6 m	Rear blade up					3.8	3.9	2.8	2.9			2.6	2.7	6.21
	Rear blade down					*4.5	4.5	*3.7	3.3			*3.2	3.1	
	Rear outrigger down					*4.5	*4.5	*3.7	*3.7			*3.2	*3.2	
	Front outrigger and rear blade down					*4.5	*4.5	*3.7	*3.7			*3.2	*3.2	
	Front blade and rear outrigger down					*4.5	*4.5	*3.7	*3.7			*3.2	*3.2	
	4 outrigger down					*4.5	*4.5	*3.7	*3.7			*3.2	*3.2	
5 m	Rear blade up					3.7	3.8	2.8	2.9			2.2	2.3	6.81
	Rear blade down					*4.7	4.4	*4.3	3.3			*3.1	2.7	
	Rear outrigger down					*4.7	*4.7	*4.3	3.8			*3.1	*3.1	
	Front outrigger and rear blade down					*4.7	*4.7	*4.3	*4.3			*3.1	*3.1	
	Front blade and rear outrigger down					*4.7	*4.7	*4.3	*4.3			*3.1	*3.1	
	4 outrigger down					*4.7	*4.7	*4.3	*4.3			*3.1	*3.1	
4 m	Rear blade up	*7.6	*7.6	5.0	5.2	3.6	3.7	2.7	2.8	2.1	2.2	2.0	2.1	7.22
	Rear blade down	*7.6	*7.6	*6.0	*6.0	*5.1	4.3	*4.5	3.2	*3.8	2.5	*3.1	2.4	
	Rear outrigger down	*7.6	*7.6	*6.0	*6.0	*5.1	5.0	*4.5	3.8	*3.8	2.9	*3.1	2.8	
	Front outrigger and rear blade down	*7.6	*7.6	*6.0	*6.0	*5.1	*5.1	*4.5	4.5	*3.8	3.5	*3.1	*3.1	
	Front blade and rear outrigger down	*7.6	*7.6	*6.0	*6.0	*5.1	*5.1	*4.5	*4.5	*3.8	3.7	*3.1	*3.1	
	4 outrigger down	*7.6	*7.6	*6.0	*6.0	*5.1	*5.1	*4.5	*4.5	*3.8	*3.8	*3.1	*3.1	
3 m	Rear blade up	7.2	7.4	4.7	4.9	3.4	3.5	2.6	2.7	2.1	2.1	1.9	1.9	7.46
	Rear blade down	*9.7	8.9	*6.9	5.7	*5.6	4.1	*4.8	3.1	*4.3	2.5	*3.2	2.2	
	Rear outrigger down	*9.7	*9.7	*6.9	6.8	*5.6	4.8	*4.8	3.6	4.1	2.9	*3.2	2.6	
	Front outrigger and rear blade down	*9.7	*9.7	6.9	*6.9	*5.6	5.6	*4.8	4.4	*4.3	3.5	*3.2	3.2	
	Front blade and rear outrigger down	*9.7	*9.7	6.9	*6.9	*5.6	*5.6	*4.8	4.6	*4.3	3.6	*3.2	*3.2	
	4 outrigger down	*9.7	*9.7	6.9	*6.9	*5.6	*5.6	*4.8	*4.8	*4.3	4.1	*3.2	*3.2	
2 m	Rear blade up			4.4	4.5	3.2	3.3	2.5	2.6	2.0	2.1	1.8	1.8	7.56
	Rear blade down			*7.7	5.4	*6.0	3.9	*5.0	3.0	*4.4	2.4	*3.4	2.1	
	Rear outrigger down			*7.7	6.4	*6.0	4.6	*5.0	3.5	4.0	2.8	*3.4	2.5	
	Front outrigger and rear blade down			*7.7	*7.7	*6.0	5.7	*5.0	4.3	*4.4	3.4	*3.4	3.0	
	Front blade and rear outrigger down			*7.7	*7.7	*6.0	5.9	*5.0	4.5	*4.4	3.6	*3.4	3.2	
	4 outrigger down			*7.7	*7.7	*6.0	*6.0	*5.0	*5.0	*4.4	4.0	*3.4	*3.4	
1 m	Rear blade up			4.2	4.3	3.1	3.2	2.4	2.5	1.9	2.0	1.8	1.8	7.35
	Rear blade down			*8.1	5.2	*6.3	3.8	*5.2	2.9	*4.4	2.3	*3.6	2.1	
	Rear outrigger down			*8.1	6.2	*6.3	4.5	5.0	3.4	4.0	2.8	3.6	2.5	
	Front outrigger and rear blade down			*8.1	7.7	*6.3	5.5	*5.2	4.2	*4.4	3.4	*3.6	3.0	
	Front blade and rear outrigger down			*8.1	*8.1	*6.3	5.8	*5.2	4.4	4.4	3.5	*3.6	3.2	
	4 outrigger down			*8.1	*8.1	*6.3	6.3	*5.2	4.9	*4.4	3.9	*3.6	3.5	
0 m	Rear blade up	*5.6	*5.6	4.1	4.2	3.0	3.1	2.4	2.4	1.9	2.0	1.8	1.8	7.35
	Rear blade down	*5.6	*5.6	*8.1	5.0	*6.3	3.7	*5.2	2.9	*4.3	2.3	*4.0	2.2	
	Rear outrigger down	*5.6	*5.6	*8.1	6.1	*6.3	4.4	4.9	3.4	3.9	2.7	3.6	2.5	
	Front outrigger and rear blade down	*5.6	*5.6	*8.1	7.6	*6.3	5.4	*5.2	4.1	*4.3	3.3	*4.0	3.1	
	Front blade and rear outrigger down	*5.6	*5.6	*8.1	8.0	*6.3	5.7	*5.2	4.3	*4.3	3.5	*4.0	3.2	
	4 outrigger down	*5.6	*5.6	*8.1	*8.1	*6.3	*6.3	*5.2	4.9	*4.3	3.9	*4.0	3.6	
-1 m	Rear blade up	6.2	6.4	4.0	4.2	3.0	3.1	2.3	2.4	1.9	2.0	1.9	1.9	7.03
	Rear blade down	*8.3	7.9	*7.6	5.0	*6.1	3.6	*5.0	2.8	*4.0	2.3	*4.0	2.3	
	Rear outrigger down	*8.3	*8.3	*7.6	6.0	*6.1	4.3	4.9	3.3	3.9	2.7	3.9	2.7	
	Front outrigger and rear blade down	*8.3	*8.3	*7.6	7.5	*6.1	5.3	*5.0	4.1	*4.0	3.3	*4.0	3.3	
	Front blade and rear outrigger down	*8.3	*8.3	*7.6	*7.6	*6.1	5.6	*5.0	4.3	*4.0	3.5	*4.0	3.4	
	4 outrigger downer down	*8.3	*8.3	*7.6	*7.6	*6.1	*6.1	*5.0	4.8	*4.0	3.9	*4.0	3.9	
-2 m	Rear blade up	6.3	6.5	4.0	4.2	3.0	3.1	2.3	2.4	2.1		2.2	6.53	5.81
	Rear blade down	*8.4	8.0	*6.8	5.0	*5.6	3.6	*4.5	2.8			*3.9	2.5	
	Rear outrigger down	*8.4	*8.4	*6.8	6.0	*5.6	4.3	*4.5	3.3			*3.9	3.0	
	Front outrigger and rear blade down	*8.4	*8.4	*6.8	*6.8	*5.6	5.3	*4.5	4.1			*3.9	3.7	
	Front blade and rear outrigger down	*8.4	*8.4	*6.8	*6.8	*5.6	5.6	*4.5	4.3			*3.9	3.8	
	4 outrigger down	*8.4	*8.4	*6.8	*6.8	*5.6	*5.6	*4.5	*4.5			*3.9	*3.9	
-3 m	Rear blade up	6.4	6.6	4.1	4.2	3.0	3.1					2.5	2.6	5.81
	Rear blade down	*6.8	*6.8	*5.7	5.1	*4.6	3.7					*3.6	3.0	
	Rear outrigger down	*6.8	*6.8	*5.7	*5.7	*4.6	4.4					*3.6	3.6	
	Front outrigger and rear blade down	*6.8	*6.8	*5.7	*5.7	*4.6	*4.6					*3.6	*3.6	
	Front blade and rear outrigger down	*6.8	*6.8	*5.7	*5.7	*4.6	*4.6					*3.6	*3.6	
	4 outrigger down	*6.8	*6.8	*5.7	*5.7	*4.6	*4.6					*3.6	*3.6	

LIFTING CAPACITIES

Metric measure

- Notes:
1. Ratings are based on SAE J1097.
 2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
 3. The load point is the center-line of the bucket pivot mounting pin on the arm.
 4. *Indicates load limited by hydraulic capacity.
 5. 0 m = Ground.



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

ZAXIS160W WITH 2-PIECE BOOM, 2.50 M ARM, STANDARD GAUGE



Rating over-side or 360 degrees



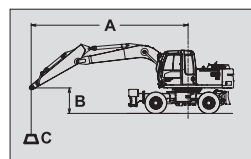
Rating over-front Unit: 1 000 kg

	Stabilization	Load radius										At max. reach		
		3 m		4 m		5 m		6 m		7 m				
														
6 m	Rear blade up					*3.7	*3.7	2.9	2.7			*2.1	*2.1	6.56
	Rear blade down					*3.7	*3.7	*3.7	3.1			*2.1	*2.1	
	Rear outrigger down					*3.7	*3.7	*3.7	*3.7			*2.1	*2.1	
	Front outrigger and rear blade down					*3.7	*3.7	*3.7	*3.7			*2.1	*2.1	
	Front blade and rear outrigger down					*3.7	*3.7	*3.7	*3.7			*2.1	*2.1	
	4 outrigger down					*3.7	3.7	*3.7	*3.7			*2.1	*2.1	
5 m	Rear blade up					3.8	3.6	2.9	2.8	2.1	2.0	*2.0	*2.0	7.13
	Rear blade down					*4.0	*4.0	*3.8	3.2	*2.7	2.3	*2.0	*2.0	
	Rear outrigger down					*4.0	*4.0	*3.8	3.7	*2.7	*2.7	*2.0	*2.0	
	Front outrigger and rear blade down					*4.0	*4.0	*3.8	*3.8	*2.7	*2.7	*2.0	*2.0	
	Front blade and rear outrigger down					*4.0	*4.0	*3.8	*3.8	*2.7	*2.7	*2.0	*2.0	
	4 outrigger down					*4.0	*4.0	*3.8	*3.8	*2.7	*2.7	*2.0	*2.0	
4 m	Rear blade up	*6.6	*6.6	5.1	4.9	3.7	3.6	*2.9	2.8	2.2	2.0	1.9	1.7	7.52
	Rear blade down	*6.6	*6.6	*5.2	*5.2	*4.4	4.0	*4.0	3.1	*3.7	2.4	*2.0	*2.0	
	Rear outrigger down	*6.6	*6.6	*5.2	*5.2	*4.4	*4.4	*4.0	3.7	*3.7	2.9	*2.0	*2.0	
	Front outrigger and rear blade down	*6.6	*6.6	*5.2	*5.2	*4.4	*4.4	*4.0	*4.0	*3.7	3.4	*2.0	*2.0	
	Front blade and rear outrigger down	*6.6	*6.6	*5.2	*5.2	*4.4	*4.4	*4.0	*4.0	*3.7	3.6	*2.0	*2.0	
	4 outrigger down	*6.6	*6.6	*5.2	*5.2	*4.4	*4.4	*4.0	*4.0	*3.7	*3.7	*2.0	*2.0	
3 m	Rear blade up	*7.1	*7.1	5.0	4.7	3.7	3.5	2.9	2.8	2.1	2.0	1.7	1.6	7.75
	Rear blade down	*7.1	*7.1	*6.2	*5.4	*5.0	4.0	*4.3	3.1	*3.9	2.4	*2.0	*2.0	
	Rear outrigger down	*7.1	*7.1	*6.2	*6.2	*5.0	4.7	*4.3	*3.7	*3.9	2.9	*2.0	*2.0	
	Front outrigger and rear blade down	*7.1	*7.1	*6.2	*6.2	*5.0	*5.0	*4.3	4.2	*3.9	3.4	*2.0	*2.0	
	Front blade and rear outrigger down	*7.1	*7.1	*6.2	*6.2	*5.0	*5.0	*4.3	*4.3	*3.9	3.6	*2.0	*2.0	
	4 outrigger down	*7.1	*7.1	*6.2	*6.2	*5.0	*5.0	*4.3	*4.3	*3.9	*3.9	*2.0	*2.0	
2 m	Rear blade up	*7.3	7.0	*4.9	4.7	3.6	*3.5	2.9	2.7	2.1	2.0	1.6	1.6	7.85
	Rear blade down	*8.6	*8.0	*7.2	5.3	*5.5	3.9	*4.6	3.1	*4.1	2.3	*2.1	1.8	
	Rear outrigger down	*8.6	*8.6	*7.2	*6.4	*5.5	4.7	*4.6	3.7	*4.1	2.8	*2.1	*2.1	
	Front outrigger and rear blade down	*8.6	*8.6	*7.2	*7.2	*5.5	5.4	*4.6	4.2	*4.1	3.4	*2.1	*2.1	
	Front blade and rear outrigger down	*8.6	*8.6	*7.2	*7.2	*5.5	*5.5	*4.6	4.4	*4.1	3.6	*2.1	*2.1	
	4 outrigger down	*8.6	*8.6	*7.2	*7.2	*5.5	*5.5	*4.6	*4.6	*4.1	*4.0	*2.1	*2.1	
1 m	Rear blade up	*7.3	7.0	4.9	4.7	3.7	3.5	2.8	2.6	2.0	1.9	1.6	1.5	7.82
	Rear blade down	*9.5	8.1	*7.7	5.3	*6.0	*3.9	*4.9	3.0	*4.2	2.3	*2.2	1.8	
	Rear outrigger down	*9.5	*9.5	*7.7	6.4	*6.0	4.7	*4.9	3.7	4.1	2.8	*2.2	*2.2	
	Front outrigger and rear blade down	*9.5	*9.5	*7.7	*7.4	*6.0	*5.4	*4.9	4.2	*4.2	3.3	*2.2	*2.2	
	Front blade and rear outrigger down	*9.5	*9.5	*7.7	*7.7	*6.0	*5.7	*4.9	4.4	*4.2	3.5	*2.2	*2.2	
	4 outrigger down	*9.5	*9.5	*7.7	*7.7	*6.0	*6.0	*4.9	*4.9	*4.2	4.0	*2.2	*2.2	
0 m	Rear blade up	7.4	7.0	4.9	4.6	3.6	3.4	2.7	2.5	2.0	1.9	1.7	1.6	7.65
	Rear blade down	*10.6	8.1	*7.9	5.4	*6.2	3.9	*5.1	2.9	*4.3	2.2	*2.3	1.8	
	Rear outrigger down	*10.6	*10.0	*7.9	6.4	*6.2	4.7	5.0	3.6	4.0	2.7	*2.3	2.3	
	Front outrigger and rear blade down	*10.6	*10.6	*7.9	7.5	*6.2	5.4	*5.1	4.2	*4.3	3.2	*2.3	*2.3	
	Front blade and rear outrigger down	*10.6	*10.6	*7.9	7.8	*6.2	5.7	*5.1	4.5	*4.3	3.4	*2.3	*2.3	
	4 outrigger down	*10.6	*10.6	*7.9	*7.9	*6.2	*6.2	*5.1	5.0	*4.3	4.0	*2.3	*2.3	
-1 m	Rear blade up	7.2	6.8	4.7	4.5	3.5	3.3	2.5	2.4	1.9	1.8	1.7	1.6	7.34
	Rear blade down	*11.1	8.1	*8.0	5.2	*6.2	3.8	*5.1	2.8	*4.2	2.1	*2.6	1.9	
	Rear outrigger down	*11.1	10.2	*8.0	6.6	*6.2	4.7	*5.1	3.4	3.9	2.6	*2.6	2.4	
	Front outrigger and rear blade down	*11.1	*11.1	*8.0	*7.6	*6.2	*5.6	*5.1	4.1	*4.2	3.2	*2.6	*2.6	
	Front blade and rear outrigger down	*11.1	*11.1	*8.0	7.9	*6.2	*5.8	*5.1	4.4	*4.2	3.4	*2.6	*2.6	
	4 outrigger downer down	*11.1	*11.1	*8.0	*8.0	*6.2	*6.2	*5.1	5.1	*4.2	3.9	*2.6	*2.6	
-2 m	Rear blade up	7.1	6.6	4.6	4.4	3.3	3.1	2.4	2.3			1.9	1.8	6.86
	Rear blade down	*11.3	7.9	*8.1	5.1	*6.4	3.6	*5.1	2.7			*3.0	2.1	
	Rear outrigger down	*11.3	10.3	*8.1	6.4	*6.4	4.5	5.0	3.3			*3.0	2.7	
	Front outrigger and rear blade down	*11.3	*11.3	*8.1	7.8	*6.4	5.4	*5.1	4.0			*3.0	*3.0	
	Front blade and rear outrigger down	*11.3	*11.3	*8.1	*8.1	*6.4	5.8	*5.1	4.3			*3.0	*3.0	
	4 outrigger down	*11.3	*11.3	*8.1	*8.1	*6.4	*6.4	*5.1	5.0			*3.0	*3.0	
-3 m	Rear blade up	7.1	6.6	4.5	4.2	3.1	3.0	2.4	2.2			2.3	2.2	6.12
	Rear blade down	*11.7	7.9	*8.4	5.0	*6.2	3.5	*4.2	2.6			*3.7	2.5	
	Rear outrigger down	*11.7	10.3	*8.4	6.3	*6.2	4.4	*4.2	3.3			*3.7	3.2	
	Front outrigger and rear blade down	*11.7	*11.7	*8.4	7.7	*6.2	5.3	*4.2	3.9			*3.7	*3.7	
	Front blade and rear outrigger down	*11.7	*11.7	*8.4	8.2	*6.2	5.6	*4.2	4.2			*3.7	*3.7	
	4 outrigger down	*11.7	*11.7	*8.4	*8.4	*6.2	*6.2	*4.2	*4.2			*3.7	*3.7	

LIFTING CAPACITIES

Metric measure

- Notes:
1. Ratings are based on SAE J11097.
 2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
 3. The load point is the center-line of the bucket pivot mounting pin on the arm.
 4. *Indicates load limited by hydraulic capacity.
 5. 0 m = Ground.



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

ZAXIS160W WITH 2-PIECE BOOM, 2.50 M ARM, WIDE GAUGE



Rating over-side or 360 degrees



Rating over-front Unit: 1 000 kg

	Stabilization	Load radius										At max. reach		
		3 m		4 m		5 m		6 m		7 m				
														
6 m	Rear blade up					*3.7	*3.7	2.9	3.0			*2.1	*2.1	6.56
	Rear blade down					*3.7	*3.7	*3.7	3.4			*2.1	*2.1	
	Rear outrigger down					*3.7	*3.7	*3.7	*3.7			*2.1	*2.1	
	Front outrigger and rear blade down					*3.7	*3.7	*3.7	*3.7			*2.1	*2.1	
	Front blade and rear outrigger down					*3.7	*3.7	*3.7	*3.7			*2.1	*2.1	
	4 outrigger down					*3.7	*3.7	*3.7	*3.7			*2.1	*2.1	
5 m	Rear blade up					3.8	3.9	2.9	3.0	2.2	2.2	*2.0	*2.0	7.13
	Rear blade down					*4.0	*4.0	*3.8	3.4	*2.7	2.6	*2.0	*2.0	
	Rear outrigger down					*4.0	*4.0	*3.8	*3.8	*2.7	*2.7	*2.0	*2.0	
	Front outrigger and rear blade down					*4.0	*4.0	*3.8	*3.8	*2.7	*2.7	*2.0	*2.0	
	Front blade and rear outrigger down					*4.0	*4.0	*3.8	*3.8	*2.7	*2.7	*2.0	*2.0	
	4 outrigger down					*4.0	*4.0	*3.8	*3.8	*2.7	*2.7	*2.0	*2.0	
4 m	Rear blade up	*6.6	*6.6	*5.1	*5.2	3.7	3.8	2.9	3.0	2.2	2.2	1.9	1.9	7.52
	Rear blade down	*6.6	*6.6	*5.2	*5.2	*4.4	4.3	*4.0	3.4	*3.7	2.6	*2.0	*2.0	
	Rear outrigger down	*6.6	*6.6	*5.2	*5.2	*4.4	*4.4	*4.0	3.8	*3.7	3.0	*2.0	*2.0	
	Front outrigger and rear blade down	*6.6	*6.6	*5.2	*5.2	*4.4	*4.4	*4.0	*4.0	*3.7	3.6	*2.0	*2.0	
	Front blade and rear outrigger down	*6.6	*6.6	*5.2	*5.2	*4.4	*4.4	*4.0	*4.0	*3.7	*3.7	*2.0	*2.0	
	4 outrigger down	*6.6	*6.6	*5.2	*5.2	*4.4	*4.4	*4.0	*4.0	*3.7	*3.7	*2.0	*2.0	
3 m	Rear blade up	*7.1	*7.1	5.0	5.1	3.7	3.8	2.9	3.0	2.2	2.2	1.7	1.8	7.75
	Rear blade down	*7.1	*7.1	*6.2	5.8	*5.0	4.3	*4.3	*3.3	*3.9	2.6	*2.0	*2.0	
	Rear outrigger down	*7.1	*7.1	*6.2	*6.2	*5.0	*4.9	*4.3	3.8	*3.9	3.0	*2.0	*2.0	
	Front outrigger and rear blade down	*7.1	*7.1	*6.2	*6.2	*5.0	*5.0	*4.3	*4.3	*3.9	3.6	*2.0	*2.0	
	Front blade and rear outrigger down	*7.1	*7.1	*6.2	*6.2	*5.0	*5.0	*4.3	*4.3	*3.9	3.7	*2.0	*2.0	
	4 outrigger down	*7.1	*7.1	*6.2	*6.2	*5.0	*5.0	*4.3	*4.3	*3.9	*3.9	*2.0	*2.0	
2 m	Rear blade up	7.3	7.5	4.9	5.0	3.7	*3.7	2.9	2.9	2.1	2.2	1.7	1.7	7.85
	Rear blade down	*8.6	*8.6	*7.2	5.7	*5.5	4.2	*4.6	3.3	*4.1	2.5	*2.1	2.0	
	Rear outrigger down	*8.6	*8.6	*7.2	*6.6	*5.5	4.8	*4.6	3.8	*4.1	2.9	*2.1	*2.1	
	Front outrigger and rear blade down	*8.6	*8.6	*7.2	*7.2	*5.5	*5.5	*4.6	4.4	*4.1	3.6	*2.1	*2.1	
	Front blade and rear outrigger down	*8.6	*8.6	*7.2	*7.2	*5.5	*5.5	*4.6	*4.6	*4.1	3.7	*2.1	*2.1	
	4 outrigger down	*8.6	*8.6	*7.2	*7.2	*5.5	*5.5	*4.6	*4.6	*4.1	*4.1	*2.1	*2.1	
1 m	Rear blade up	7.3	7.5	4.9	5.0	3.7	3.7	2.8	2.9	2.1	2.1	1.6	1.7	7.82
	Rear blade down	*9.5	8.8	*7.7	5.7	*6.0	4.2	*4.9	3.3	*4.2	2.5	*2.2	2.0	
	Rear outrigger down	*9.5	*9.5	*7.7	6.6	*6.0	4.8	*4.9	3.8	4.1	2.9	*2.2	*2.2	
	Front outrigger and rear blade down	*9.5	*9.5	*7.7	*7.7	*6.0	5.6	*4.9	*4.4	*4.2	3.5	*2.2	*2.2	
	Front blade and rear outrigger down	*9.5	*9.5	*7.7	*7.7	*6.0	5.8	*4.9	4.6	*4.2	3.6	*2.2	*2.2	
	4 outrigger down	*9.5	*9.5	*7.7	*7.7	*6.0	*6.0	*4.9	*4.9	*4.2	4.1	*2.2	*2.2	
0 m	Rear blade up	7.4	7.6	4.9	5.1	3.6	3.7	2.7	2.7	2.0	2.0	1.7	1.7	7.65
	Rear blade down	*10.6	8.9	*7.9	5.8	*6.2	4.3	*5.1	3.2	*4.3	2.4	*2.3	2.0	
	Rear outrigger down	*10.6	*10.4	*7.9	6.7	*6.2	4.9	*5.0	3.7	4.0	2.8	*2.3	2.3	
	Front outrigger and rear blade down	*10.6	*10.6	*7.9	7.8	*6.2	5.7	*5.1	4.5	*4.3	3.4	*2.3	*2.3	
	Front blade and rear outrigger down	*10.6	*10.6	*7.9	*7.9	*6.2	5.9	*5.1	4.6	*4.3	3.6	*2.3	*2.3	
	4 outrigger down	*10.6	*10.6	*7.9	*7.9	*6.2	*6.2	*5.1	5.0	*4.3	4.0	*2.3	*2.3	
-1 m	Rear blade up	7.2	7.5	4.7	4.9	3.5	3.6	2.5	2.6	1.9	2.0	1.8	1.8	7.34
	Rear blade down	*11.1	9.1	*8.0	5.8	*6.2	4.2	*5.1	3.1	*4.2	2.3	*2.6	2.1	
	Rear outrigger down	*11.1	10.5	*8.0	*6.8	*6.2	4.9	*5.1	3.6	4.0	2.7	*2.6	2.5	
	Front outrigger and rear blade down	*11.1	*11.1	*8.0	7.9	*6.2	5.8	*5.1	4.3	*4.2	3.4	*2.6	*2.6	
	Front blade and rear outrigger down	*11.1	*11.1	*8.0	*8.0	*6.2	6.0	*5.1	4.5	*4.2	3.5	*2.6	*2.6	
	4 outrigger downer down	*11.1	*11.1	*8.0	*8.0	*6.2	*6.2	*5.1	*5.1	*4.2	3.9	*2.6	*2.6	
-2 m	Rear blade up	7.1	7.3	4.6	4.8	3.3	3.4	2.4	2.5			1.9	2.0	6.86
	Rear blade down	*11.3	8.9	*8.1	5.7	*6.4	4.0	*5.1	2.9			*3.0	2.4	
	Rear outrigger down	*11.3	10.8	*8.1	6.7	*6.4	4.7	5.1	3.5			*3.0	2.8	
	Front outrigger and rear blade down	*11.3	*11.3	*8.1	*8.1	*6.4	5.7	*5.1	4.2			*3.0	*3.0	
	Front blade and rear outrigger down	*11.3	*11.3	*8.1	*8.1	*6.4	*6.0	*5.1	4.4			*3.0	*3.0	
	4 outrigger down	*11.3	*11.3	*8.1	*8.1	*6.4	*6.4	*5.1	5.0			*3.0	*3.0	
-3 m	Rear blade up	7.1	7.3	4.5	4.6	3.2	3.3	2.4	2.4			2.3	2.4	6.12
	Rear blade down	*11.7	8.9	*8.4	5.5	*6.2	3.8	*4.2	2.9			*3.7	2.8	
	Rear outrigger down	*11.7	10.9	*8.4	6.6	*6.2	4.6	*4.2	3.4			*3.7	3.3	
	Front outrigger and rear blade down	*11.7	*11.7	*8.4	8.2	*6.2	5.6	*4.2	4.2			*3.7	*3.7	
	Front blade and rear outrigger down	*11.7	*11.7	*8.4	*8.4	*6.2	5.9	*4.2	*4.2			*3.7	*3.7	
	4 outrigger down	*11.7	*11.7	*8.4	*8.4	*6.2	*6.2	*4.2	*4.2			*3.7	*3.7	

Standard Equipment

Standard equipment may vary by country, so please consult your Hitachi dealer for details.

ENGINE

- The engine conforms to EU stage II standards
- Turbocharged, intercooled
- The radiator, oil cooler and intercooler are all made of aluminum
- H/P mode control
- E mode control
- 50 A alternator
- Dry-type air filter with evacuator valve (with safety element)
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Radiator and oil cooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system
- Auto acceleration system

HYDRAULIC SYSTEM

- Work mode selector
- Engine speed sensing system
- E-P control system
- Quick warm-up system for pilot circuit
- Shockless valve in pilot circuit
- Boom-arm anti-drift valve
- Brake valves for travel circuits
- Accumulator in pilot circuit
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter

- Steering filter
- Outriggers are individually controlled

CABIN

- CRES (Center pillar Reinforced Structure) cabin
- All-weather sound-suppressed steel cabin
- Reinforced, tinted (green color) glass windows
- 4 fluid-filled elastic mounts
- Windows on upper, lower-front and left side can be opened
- Intermittent windshield retractable wipers
- Front window washer
- Transparency roof (with roll curtain)
- Adjustable suspension seat with armrests
- Footrest
- Electric double horn
- AM - FM radio with digital clock
- Auto-idle / acceleration selector
- Seat belt
- Drink holder
- Cigar lighter
- Ashtray
- Storage box
- Glove compartment
- Floor mat
- Pilot control shut-off lever
- Engine stop knob
- Information controller
- Auto control air conditioner

MONITOR SYSTEM

- Meters: Speedometer, hourmeter and tripmeter, engine coolant temperature gauge, hydraulic brake pressure gauge, fuel gauge
- Warning lamps: Alternator charge, brake pressure warning indicator, engine oil pressure, engine overheat, travel motor warning indicator, air filter restriction and minimum fuel level
- Pilot lamps: Work light, auto-idle and auto-acceleration, digging mode and attachment mode, engine preheat, turn signals, head light high beam, parking brake, digging brake, axle lock, hazard warning signals, shift lever (N/D/L), clearance light, outrigger/dozer, blade operation
- Alarm buzzers: Front attachment operation while parking brake is on, engine oil pressure, engine overheat, and brake pressure

LIGHTS AND SIGNALS

- Two headlights
- Working light
- Combination lamps
- Turn signal lamps
- Brake lamps
- Clearance lamps
- Hazard lamps

UPPER STRUCTURE

- Undercover
- Fuel level float
- Hydraulic oil level gauge
- Rearview mirrors, left and right
- Swing parking brake
- Swing lock

UNDERCARRIAGE

- Parking brake
- Toolbox; left chassis
- Traction type pattern tires (10.00-20-14 PR)
- Tire spacer

FRONT ATTACHMENTS

- HN bushing
- WC thermal spraying
- Reinforced resin thrust plate
- Flanged pin
- Bucket clearance adjust mechanism
- Centralized lubrication system
- Dirt seal on all bucket pins

MISCELLANEOUS

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

Optional Equipment

Optional equipment may vary by country, so please consult your Hitachi dealer for details.

CABIN

- Full seat screw on the cabin
- Roof guard for cabin
- Upper front guard for cabin
- Low front guard for cabin
- Suspension seat with heater
- Air suspension seat with heater
- Immobilizer key
- 12 V power source
- Vandal cover for cabin
- Rotating lamp
- OPG top and front guard level 2 (ISO) compliant cabin

LIGHTS

- Additional cabin roof front light
- Additional cabin roof rear light
- Additional boom light with cover

FRONT ATTACHMENTS

- 2-piece boom
- 2.21 m arm (2-piece boom)
- 2.50 m arm (2-piece boom)
- 3.10 m arm (2-piece boom)
- Monoblock boom
- 2.22 m arm (monoblock boom)
- 2.58 m arm (monoblock boom)
- 3.10 m arm (monoblock boom)
- Other variety buckets
- Reinforced arm

UNDERCARRIAGE

- Short chassis
- Rear dozer blade
- Rear outriggers

- Front dozer blade + rear outriggers
- Front outriggers + rear dozer blade
- Front outriggers + rear outriggers
- Right tool box
- Wide gauge axle
- Wide dozer blade
- Twin tire 11:00-20
- Single tire 600/40-22.5

ATTACHMENT

- Parts for hammer and crusher
- Hammer and crusher piping
- Assist piping
- Clamshell piping
- Quick coupler piping

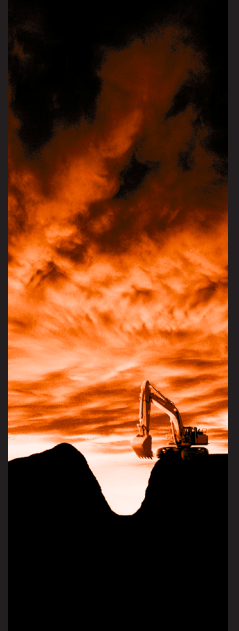
OTHERS

- Hose rupture valve (Boom) with overload warning device
- Hose rupture valve (arm)
- Hose rupture valve (positioning)
- Pre-cleaner
- Fuel double filter
- Biodegradable oil
- High-performance full flow filter (with restriction indicator)
- Electric fuel refilling pump

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new
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