ZAXIS-7 series

HITACHI

Reliable solutions

ZAXIS175/180W

WHEELED EXCAVATOR

Model code : ZX175W-7
Engine rated power : 105 kW (ISO 14396) / 100 kW (ISO 9249)
Operating weight : 17 000 – 18 500 kg
Bucket ISO heaped : 0.19 – 0.66 m³

Model code : ZX180W-7
Engine rated power : 128.4 kW (ISO 14396) / 122 kW (ISO 9249)
Operating weight : 17 700 – 19 500 kg
Bucket ISO heaped : 0.52 – 0.82 m³

SPECIFICATIONS

ENGINE

ZX175W-7

Model	DEUTZ TCD4.1L4
Type	4-cycle water-cooled, common rail direct injection
Aspiration	Turbocharged with waste gate, intercooled, cooled EGR
Aftertreatment	DOC+DPF+SCR system
No. of cylinders	4
Rated power	
ISO 14396 : 2002	105 kW at 2 000 min^{-1}
ISO 9249 : 2007	100 kW at 2 000 min^{-1}
Maximum torque	550 Nm at 1 600 min^{-1}
Piston displacement	4.038 L
Bore and stroke	101 mm x 126 mm
Batteries	2 x 12 V / 93 Ah

ZX180W-7

Model	Isuzu 4HK1X
Type	4-cycle water-cooled, common rail direct injection
Aspiration	Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment	DOC+CSF+SCR system
No. of cylinders	4
Rated power	
ISO 14396 : 2002	128.4 kW at 2 000 min^{-1}
ISO 9249 : 2007	122 kW at 2 000 min^{-1}
Maximum torque	670 Nm at 1 600 min^{-1}
Piston displacement	5.193 L
Bore and stroke	115 mm x 125 mm
Batteries	2 x 12 V / 93 Ah

HYDRAULIC SYSTEM

Hydraulic Pumps

Main pumps	2 variable displacement axial piston pumps	
Maximum oil flow	ZX175W-7	2 x 117 L/min
	ZX180W-7	2 x 152 L/min
Pilot pump	1 gear pump	
Maximum oil flow	ZX175W-7	23.4 L/min
	ZX180W-7	30.0 L/min
Steering pump	1 gear pump	
Maximum oil flow	ZX175W-7	22.8 L/min
	ZX180W-7	26.9 L/min

Hydraulic Motors

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

Relief Valve Settings

	ZX175W-7	ZX180W-7
Implement circuit	34.3 MPa	34.3 MPa
Swing circuit	33.4 MPa	31.8 MPa
Travel circuit	35.3 MPa	34.8 MPa
Pilot circuit	4.0 MPa	4.0 MPa
Power boost	36.3 MPa	36.3 MPa

Hydraulic Cylinders

ZX175W-7 Unit: mm

	Quantity	Bore	Rod diameter
Boom (2-Piece boom)	2	110	80
Arm	1	120	85
Bucket	1	100	70
Positioning (2-Piece boom)	1	145	90

ZX180W-7 Unit: mm

	Quantity	Bore	Rod diameter
Boom	2	110	80
Arm	1	120	90
Bucket	1	105	75
Positioning (2-Piece boom)	1	170	105

UPPERSTRUCTURE

Revolving Frame
D-section frame for resistance to deformation.

Swing Device
Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is singlerow. Swing parking brake is spring-set/hydraulic-released disc type.

ZX175W-7

Swing speed ..... 11.9 min^{-1}
Swing torque ..... 33 kNm

ZX180W-7

Swing speed ..... 11.5 min^{-1}
Swing torque ..... 42.8 kNm

Operator's Cab
Independent spacious cab, 1 035 mm wide by 1 675 mm high, conforming to ISO* Standards.
* International Organization for Standardization

UNDERCARRIAGE

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

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

Travel Speed (forward and reverse)

Max. travel speed	ZX175W-7	High : 35 km/h Low : 8.8 km/h Creeper : 2.0 km/h
	ZX180W-7	High : 35 km/h Low : 8.9 km/h Creeper : 2.5 km/h
Maximum traction force ...	ZX175W-7	102 kN
	ZX180W-7	102 kN

Gradeability ..... 70% (35 degree) continuous

Min. turning radius ..... 6 650 mm

Axle:
All-wheel drive.
The front axle can be locked hydraulically in any position.
Oscillating Front Axle ... ± 9°

Brakes system:
Maintenance free wet-disc brakes on axle are standard.
Fully hydraulic service brake system

ENVIRONMENT

Engine Emissions
EU Stage V

Sounds Level

ZX175W-7

Sound level in cab according to ISO 6396 : 2008 ..... LpA 73 dB(A)
External sound level according to ISO 6395 : 2008 and
EU Directive 2000/14/EC ..... LwA 100 dB(A)

ZX180W-7

Sound level in cab according to ISO 6396 : 2008..... LpA 71 dB(A)
External sound level according to ISO 6395 : 2008 and
EU Directive 2000/14/EC ..... LwA 100 dB(A)

Air Conditioning System
The air conditioning system contains fluorinated greenhouse gases.
Refrigerant type: HFC-134a, GWP: 1430, Amount: 0.75 kg, CO_2e: 1.07 ton.

SERVICE REFILL CAPACITIES

Unit: L

	ZX175W-7	ZX180W-7
Fuel tank	250.0	290.0
Engine coolant	22.7	28.0
Engine oil	14.0	23.0
Swing device	3.2	6.2
Transmission	2.5	2.5
Hydraulic system	210.0	260.0
Hydraulic oil tank	88.0	114.0
DEF/AdBlue® tank	26.0	26.0
Front differential gear (STD axle)	9.5	9.5
Rear differential gear (STD axle)	14.0	14.0
Hub reduction gear		
Front axle (STD axle)	2 x 2.5	2 x 2.5
Rear axle (STD axle)	2 x 2.5	2 x 2.5

SPECIFICATIONS

WEIGHTS

Operating Weight

Arm length	Stabilization	ZX175W-7
		2-Piece
		kg
2.10 m	Rear blade	17 000
	Rear outrigger	17 300
	Outrigger and blade	18 100
	Front and rear outrigger	18 400
2.52 m	Rear blade	17 000
	Rear outrigger	17 300
	Outrigger and blade	18 100
	Front and rear outrigger	18 400
3.01 m	Rear blade	17 100
	Rear outrigger	17 400
	Outrigger and blade	18 200
	Front and rear outrigger	18 500

Including 0.50 m³ (ISO 7451 : 2007 heaped), bucket weight (420 kg) and counterweight (3 760 kg).

Arm length	Stabilization	ZX180W-7	
		Monoblock	2-Piece
		kg	kg
2.50 m	Rear blade	–	18 200
	Rear outrigger	–	18 400
	Outrigger and blade	–	19 300
	Front and rear outrigger	–	19 500
2.58 m	Rear blade	17 700	–
	Rear outrigger	18 000	–
	Outrigger and blade	18 800	–
	Front and rear outrigger	19 100	–

Including 0.60 m³ (ISO 7451 : 2007 heaped), bucket weight (500 kg) and counterweight : standard (3 400 kg), optional (3 800 kg).

BUCKET AND ARM DIGGING FORCE

Unit: kN

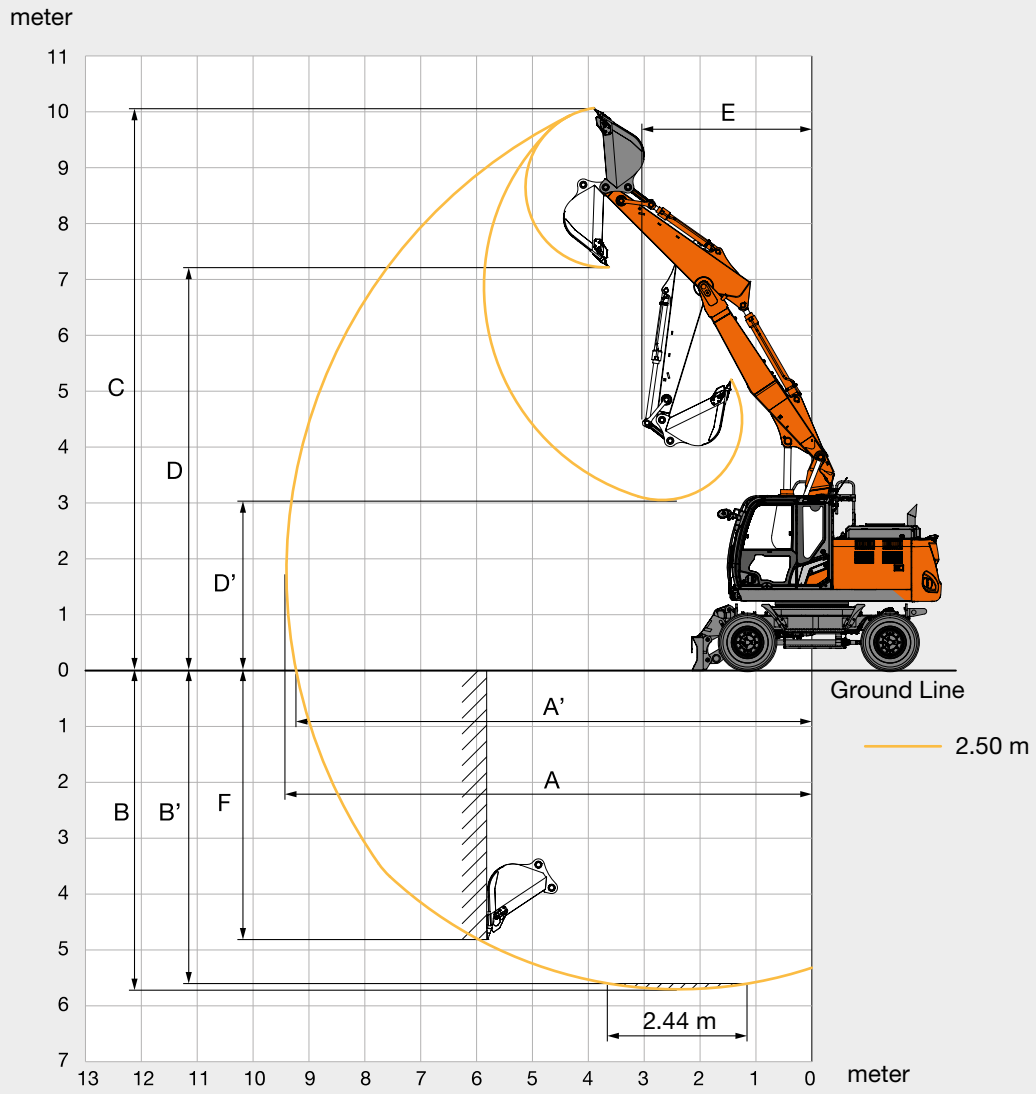
	ZX175W-7			ZX180W-7	
Boom Type	2-Piece boom			Monoblock boom	2-Piece boom
Arm length	2.10 m	2.52 m	3.01 m	2.58 m	2.50 m
Bucket digging force* ISO 6015 : 2006	104	104	104	108	108
Arm crowd force* ISO 6015 : 2006	84	75	67	87	85

* At power boost

SPECIFICATIONS

ZX180W-7

WORKING RANGES: 2-PIECE BOOM



Unit: mm

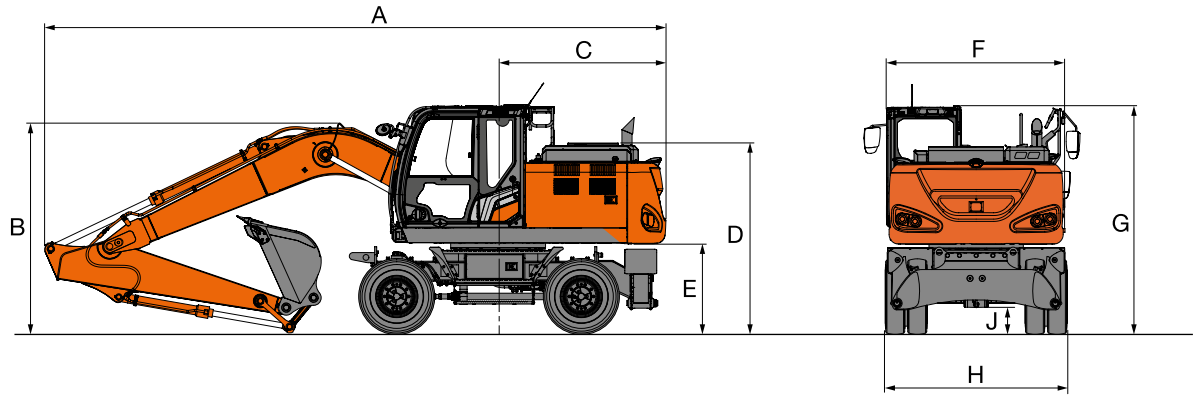
	ZX180W-7
Front type	2-Piece boom
Arm length	2.50 m
A Max. digging reach	9 450
A' Max. digging reach (on ground)	9 280
B Max. digging depth	5 720
B' Max. digging depth for 2.44 m level	5 620
C Max. cutting height	10 200
D Max. dumping height	7 340
D' Min. dumping height	3 050
E Min. swing radius	3 030
F Max. vertical wall digging depth	5 050

SPECIFICATIONS

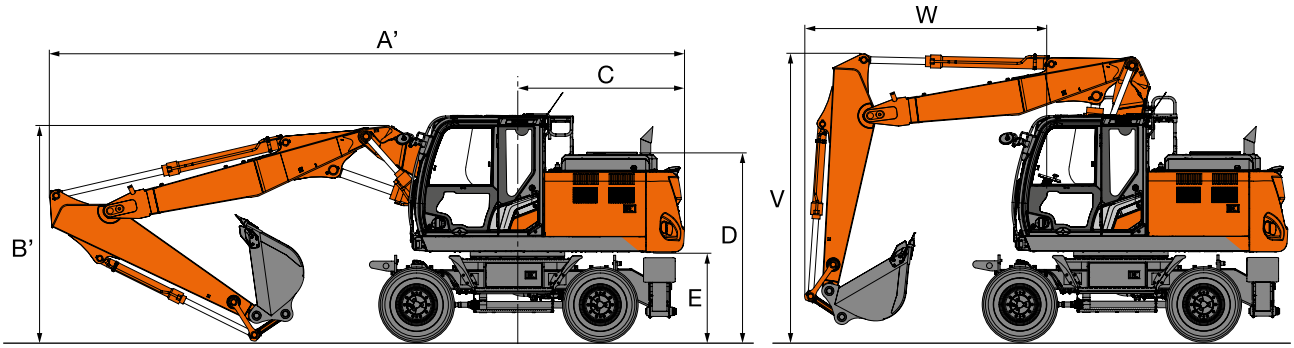
ZX180W-7

DIMENSIONS

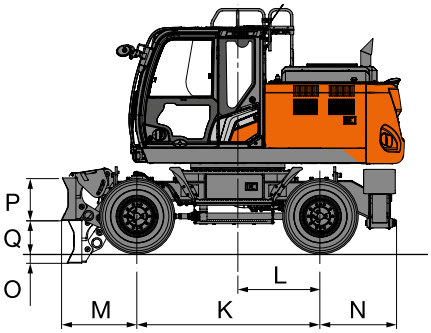
MONOBLOCK BOOM



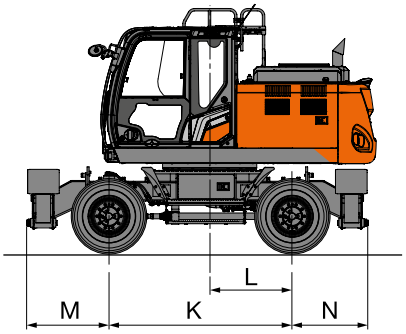
2-PIECE BOOM



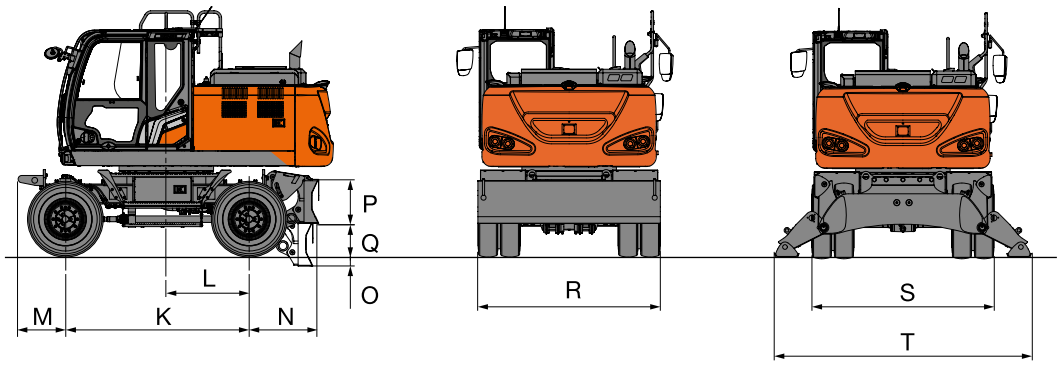
FRONT BLADE AND REAR OUTRIGGER



FRONT AND REAR OUTRIGGER



REAR BLADE



SPECIFICATIONS

ZX180W-7

DIMENSIONS

Unit: mm

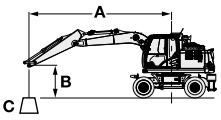
		ZX180W-7				
	Stabilizer Type	Rear BL	Rear O/R	Front BL Rear O/R	Front O/R Rear BL	Front and Rear O/R
A	Overall length (with monoblock boom)					
	Arm 2,58 m	8 580	8 580	8 580	8 580	8 580
A'	Overall length (with 2-piece boom)					
	Arm 2.50 m	8 810	8 810	8 810	8 810	8 810
B	Overall height of boom (with monoblock boom)					
	Arm 2,58 m	2 870	2 870	2 870	2 870	2 870
B'	Overall height of boom (with 2-piece boom)					
	Arm 2.50 m	3 050	3 050	3 050	3 050	3 050
C	Rear-end swing radius	2 320	2 320	2 320	2 320	2 320
D	Engine cover height	2 590	2 590	2 590	2 590	2 590
E	Counterweight clearance	1 235	1 235	1 235	1 235	1 235
F	Overall width of upper structure	2 480	2 480	2 480	2 480	2 480
G	Overall height of cabin	3 150	3 150	3 150	3 150	3 150
H	Overall width of tires	2 550 / 2 730	2 550 / 2 730	2 550 / 2 730	2 550 / 2 730	2 550 / 2 730
J	Min.ground clearance	350	350	350	350	350
K	Wheel base	2 550	2 550	2 550	2 550	2 550
L	Swing-center to rear axle	1 150	1 150	1 150	1 150	1 150
M	Front overhang	655	655	1 055	1 150	1 150
N	Rear overhang	965	1 060		965	1 060
O	Max. blade lower	145	–	145	145	–
P	Blade height	590	–	590	590	–
Q	Max. blade raise	445	–	445	445	–
R	Overall blade width	2 530 / 2 730	–	2 530 / 2 730	2 530 / 2 730	–
S	Overall Width O/R Retract	–	2 470	2 470	2 470	2 470
T	Overall Width O/R Extend	–	3 380	3 380	3 380	3 380
V	Overall boom height (traveling) (for 2-Piece boom only)					
	Arm 2.50 m	3 990	3 990	3 990	3 990	3 990
W	Front overhang (traveling) (for 2-Piece boom only)					
	Arm 2.50 m	3 440	3 440	3 440	3 440	3 440

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

MACHINE CAPACITIES

ZX180W-7

Notes:
1. Ratings are based on ISO 10567 : 2007.
2. Machine capacity 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. Each value with Rear blade up over the Front-axle side and each value with Rear blade down over the Rear-axle side respectively, and value in optimal position with positioning cylinder.
6. 0 m = Ground.



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

For machine capacities, subtract installed attachment and quick hitch weight from machine capacities.
To determine lifting capacities, apply “Rating over-side or 360 degrees” machine capacities from the table and deduct weight of installed attachment and quick hitch.
Optional feature may affect machine performance.

ZX180W-7 2-PIECE BOOM, ARM 2.50 M, 3 800 KG COUNTERWEIGHT, STANDARD GAUGE

Rating over-front or rear | Rating over-side or 360 degrees | Unit : kg

Load point height (m)	Stabilization	Load radius										At max. reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
														meter
7.5 m	Rear blade up (over front)					*4 240	*4 240					*2 430	*2 430	5.48
	Rear blade down (over rear)					*4 240	*4 240					*2 430	*2 430	
	Rear outrigger down (over rear)					*4 240	*4 240					*2 430	*2 430	
	Front outrigger and rear blade down (over rear)					*4 240	*4 240					*2 430	*2 430	
	Front blade and rear outrigger down (over rear)					*4 240	*4 240					*2 430	*2 430	
	4 outrigger down (over rear)					*4 240	*4 240					*2 430	*2 430	
6.0 m	Rear blade up (over front)					*4 320	*4 320	*4 050	3 130			*2 100	*2 100	6.76
	Rear blade down (over rear)					*4 320	*4 320	*4 050	3 550			*2 100	*2 100	
	Rear outrigger down (over rear)					*4 320	*4 320	*4 050	*4 050			*2 100	*2 100	
	Front outrigger and rear blade down (over rear)					*4 320	*4 320	*4 050	*4 050			*2 100	*2 100	
	Front blade and rear outrigger down (over rear)					*4 320	*4 320	*4 050	*4 050			*2 100	*2 100	
	4 outrigger down (over rear)					*4 320	*4 320	*4 050	*4 050			*2 100	*2 100	
4.5 m	Rear blade up (over front)			*6 530	*6 530	*5 050	4 710	*4 280	3 150	*2 140	2 040	*1 980	*1 980	7.52
	Rear blade down (over rear)			*6 530	*6 530	*5 050	*5 050	*4 280	*3 530	*2 140	*2 140	*1 980	*1 980	
	Rear outrigger down (over rear)			*6 530	*6 530	*5 050	*5 050	*4 280	4 060	*2 140	*2 140	*1 980	*1 980	
	Front outrigger and rear blade down (over rear)			*6 530	*6 530	*5 050	*5 050	*4 280	*4 280	*2 140	*2 140	*1 980	*1 980	
	Front blade and rear outrigger down (over rear)			*6 530	*6 530	*5 050	*5 050	*4 280	*4 280	*2 140	*2 140	*1 980	*1 980	
	4 outrigger down (over rear)			*6 530	*6 530	*5 050	*5 050	*4 280	*4 280	*2 140	*2 140	*1 980	*1 980	
3.0 m	Rear blade up (over front)			*7 540	*7 540	*6 180	4 560	4 600	3 120	3 270	2 030	*1 980	1 810	7.92
	Rear blade down (over rear)			*7 540	*7 540	*6 180	5 120	*4 740	3 490	*4 020	2 340	*1 980	*1 980	
	Rear outrigger down (over rear)			*7 540	*7 540	*6 180	5 920	*4 740	4 000	*4 020	2 770	*1 980	*1 980	
	Front outrigger and rear blade down (over rear)			*7 540	*7 540	*6 180	*6 180	*4 740	*4 740	*4 020	3 430	*1 980	*1 980	
	Front blade and rear outrigger down (over rear)			*7 540	*7 540	*6 180	*6 180	*4 740	*4 740	*4 020	3 510	*1 980	*1 980	
	4 outrigger down (over rear)			*7 540	*7 540	*6 180	*6 180	*4 740	*4 740	*4 020	*4 020	*1 980	*1 980	
1.5 m	Rear blade up (over front)			*9 490	7 850	*6 750	4 500	4 570	3 070	3 220	1 980	*2 060	1 720	8.02
	Rear blade down (over rear)			*9 490	8 990	*7 140	*5 060	*5 190	3 480	*4 190	2 290	*2 060	*2 000	
	Rear outrigger down (over rear)			*9 490	*9 490	*7 140	5 850	*5 190	3 990	*4 190	2 710	*2 060	*2 060	
	Front outrigger and rear blade down (over rear)			*9 490	*9 490	*7 140	*7 020	*5 190	4 740	*4 190	3 380	*2 060	*2 060	
	Front blade and rear outrigger down (over rear)			*9 490	*9 490	*7 140	*7 140	*5 190	4 830	*4 190	3 460	*2 060	*2 060	
	4 outrigger down (over rear)			*9 490	*9 490	*7 140	*7 140	*5 190	*5 190	*4 190	3 990	*2 060	*2 060	
0 m (Ground)	Rear blade up (over front)	*8 330	*8 330	*11 210	7 960	6 790	4 490	4 600	2 890	3 140	1 900	*2 260	1 750	7.82
	Rear blade down (over rear)	*8 330	*8 330	*11 210	9 120	*7 440	5 140	*5 400	3 310	*4 200	2 200	*2 260	2 040	
	Rear outrigger down (over rear)	*8 330	*8 330	*11 210	*10 800	*7 440	5 910	*5 400	3 900	*4 200	2 630	*2 260	*2 260	
	Front outrigger and rear blade down (over rear)	*8 330	*8 330	*11 210	*11 210	*7 440	*7 060	*5 400	4 820	*4 200	3 290	*2 260	*2 260	
	Front blade and rear outrigger down (over rear)	*8 330	*8 330	*11 210	*11 210	*7 440	7 190	*5 400	4 910	*4 200	3 370	*2 260	*2 260	
	4 outrigger down (over rear)	*8 330	*8 330	*11 210	*11 210	*7 440	*7 440	*5 400	5 390	*4 200	3 910	*2 260	*2 260	
-1.5 m	Rear blade up (over front)	*13 480	*13 480	*12 070	7 640	7 050	4 290	4 420	2 700			*2 650	1 930	7.29
	Rear blade down (over rear)	*13 480	*13 480	*12 070	9 050	*7 570	4 960	*5 540	3 120			*2 650	*2 240	
	Rear outrigger down (over rear)	*13 480	*13 480	*12 070	11 120	*7 570	5 920	*5 540	3 720			*2 650	*2 650	
	Front outrigger and rear blade down (over rear)	*13 480	*13 480	*12 070	*12 070	*7 570	7 270	*5 540	4 640			*2 650	*2 650	
	Front blade and rear outrigger down (over rear)	*13 480	*13 480	*12 070	*12 070	*7 570	7 380	*5 540	4 750			*2 650	*2 650	
	4 outrigger down (over rear)	*13 480	*13 480	*12 070	*12 070	*7 570	*7 570	*5 540	5 530			*2 650	*2 650	
-3.0 m	Rear blade up (over front)	*21 470	*21 470	*12 600	7 600	6 810	4 050	4 310	2 580			*3 730	2 490	6.15
	Rear blade down (over rear)	*21 470	*21 470	*12 600	9 000	*7 720	4 700	*4 550	3 000			*3 730	2 890	
	Rear outrigger down (over rear)	*21 470	*21 470	*12 600	11 170	*7 720	5 660	*4 550	3 600			*3 730	3 470	
	Front outrigger and rear blade down (over rear)	*21 470	*21 470	*12 600	*12 600	*7 720	7 180	*4 550	4 530			*3 730	*3 730	
	Front blade and rear outrigger down (over rear)	*21 470	*21 470	*12 600	*12 600	*7 720	7 380	*4 550	*4 550			*3 730	*3 730	
	4 outrigger down (over rear)	*21 470	*21 470	*12 600	*12 600	*7 720	*7 720	*4 550	*4 550			*3 730	*3 730	

ZX180W-7 2-PIECE BOOM, ARM 2.50 M, 3 800 KG COUNTERWEIGHT, WIDE GAUGE

Rating over-front or rear Rating over-side or 360 degrees Unit : kg

Load point height (m)	Stabilization	Load radius										At max. reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
														meter
7.5 m	Rear blade up (over front)					*4 240	*4 240					*2 430	*2 430	5.48
	Rear blade down (over rear)					*4 240	*4 240					*2 430	*2 430	
	Rear outrigger down (over rear)					*4 240	*4 240					*2 430	*2 430	
	Front outrigger and rear blade down (over rear)					*4 240	*4 240					*2 430	*2 430	
	Front blade and rear outrigger down (over rear)					*4 240	*4 240					*2 430	*2 430	
	4 outrigger down (over rear)					*4 240	*4 240					*2 430	*2 430	
6.0 m	Rear blade up (over front)					*4 320	*4 320	*4 050	3 440			*2 100	*2 100	6.76
	Rear blade down (over rear)					*4 320	*4 320	*4 050	3 850			*2 100	*2 100	
	Rear outrigger down (over rear)					*4 320	*4 320	*4 050	*4 050			*2 100	*2 100	
	Front outrigger and rear blade down (over rear)					*4 320	*4 320	*4 050	*4 050			*2 100	*2 100	
	Front blade and rear outrigger down (over rear)					*4 320	*4 320	*4 050	*4 050			*2 100	*2 100	
	4 outrigger down (over rear)					*4 320	*4 320	*4 050	*4 050			*2 100	*2 100	
4.5 m	Rear blade up (over front)			*6 530	*6 530	*5 050	*5 050	*4 280	3 440	*2 140	*2 140	*1 980	*1 980	7.52
	Rear blade down (over rear)			*6 530	*6 530	*5 050	*5 050	*4 280	*3 810	*2 140	*2 140	*1 980	*1 980	
	Rear outrigger down (over rear)			*6 530	*6 530	*5 050	*5 050	*4 280	*4 280	*2 140	*2 140	*1 980	*1 980	
	Front outrigger and rear blade down (over rear)			*6 530	*6 530	*5 050	*5 050	*4 280	*4 280	*2 140	*2 140	*1 980	*1 980	
	Front blade and rear outrigger down (over rear)			*6 530	*6 530	*5 050	*5 050	*4 280	*4 280	*2 140	*2 140	*1 980	*1 980	
	4 outrigger down (over rear)			*6 530	*6 530	*5 050	*5 050	*4 280	*4 280	*2 140	*2 140	*1 980	*1 980	
3.0 m	Rear blade up (over front)			*7 540	*7 540	*6 180	4 980	4 600	3 400	3 270	2 260	*1 980	*1 980	7.92
	Rear blade down (over rear)			*7 540	*7 540	*6 180	5 550	*4 740	3 760	*4 020	2 570	*1 980	*1 980	
	Rear outrigger down (over rear)			*7 540	*7 540	*6 180	*6 180	*4 740	4 600	*4 020	3 270	*1 980	*1 980	
	Front outrigger and rear blade down (over rear)			*7 540	*7 540	*6 180	*6 180	*4 740	*4 740	*4 020	3 580	*1 980	*1 980	
	Front blade and rear outrigger down (over rear)			*7 540	*7 540	*6 180	*6 180	*4 740	*4 740	*4 020	3 640	*1 980	*1 980	
	4 outrigger down (over rear)			*7 540	*7 540	*6 180	*6 180	*4 740	*4 740	*4 020	*4 020	*1 980	*1 980	
1.5 m	Rear blade up (over front)			*9 490	8 700	*6 750	*4 910	4 570	3 380	3 220	2 210	*2 060	1 930	8.02
	Rear blade down (over rear)			*9 490	*9 490	*7 140	5 470	*5 190	3 770	*4 190	2 510	*2 060	*2 060	
	Rear outrigger down (over rear)			*9 490	*9 490	*7 140	*6 770	*5 190	4 570	*4 190	3 210	*2 060	*2 060	
	Front outrigger and rear blade down (over rear)			*9 490	*9 490	*7 140	*7 140	*5 190	4 910	*4 190	3 530	*2 060	*2 060	
	Front blade and rear outrigger down (over rear)			*9 490	*9 490	*7 140	*7 140	*5 190	4 980	*4 190	3 590	*2 060	*2 060	
	4 outrigger down (over rear)			*9 490	*9 490	*7 140	*7 140	*5 190	*5 190	*4 190	4 000	*2 060	*2 060	
0 m (Ground)	Rear blade up (over front)	*8 330	*8 330	*11 210	8 830	*6 790	4 990	4 600	3 200	3 140	2 130	*2 260	1 970	7.82
	Rear blade down (over rear)	*8 330	*8 330	*11 210	10 010	*7 440	5 550	*5 400	3 620	*4 200	2 430	*2 260	*2 260	
	Rear outrigger down (over rear)	*8 330	*8 330	*11 210	*11 210	*7 440	*6 820	*5 400	4 600	*4 200	3 130	*2 260	*2 260	
	Front outrigger and rear blade down (over rear)	*8 330	*8 330	*11 210	*11 210	*7 440	7 310	*5 400	4 980	*4 200	3 450	*2 260	*2 260	
	Front blade and rear outrigger down (over rear)	*8 330	*8 330	*11 210	*11 210	*7 440	*7 390	*5 400	5 030	*4 200	3 510	*2 260	*2 260	
	4 outrigger down (over rear)	*8 330	*8 330	*11 210	*11 210	*7 440	*7 440	*5 400	5 390	*4 200	3 920	*2 260	*2 260	
-1.5 m	Rear blade up (over front)	*13 480	*13 480	*12 070	8 680	7 050	4 790	4 420	3 010			*2 650	2 160	7.29
	Rear blade down (over rear)	*13 480	*13 480	*12 070	10 180	*7 050	5 460	*5 540	3 430			*2 650	2 480	
	Rear outrigger down (over rear)	*13 480	*13 480	*12 070	*12 070	*7 050	*7 070	*5 540	4 420			*2 650	*2 650	
	Front outrigger and rear blade down (over rear)	*13 480	*13 480	*12 070	*12 070	*7 050	*7 480	*5 540	4 860			*2 650	*2 650	
	Front blade and rear outrigger down (over rear)	*13 480	*13 480	*12 070	*12 070	*7 050	7 540	*5 540	4 950			*2 650	*2 650	
	4 outrigger down (over rear)	*13 480	*13 480	*12 070	*12 070	*7 050	*7 570	*5 540	5 540			*2 650	*2 650	
-3.0 m	Rear blade up (over front)	*21 470	*21 470	*12 600	8 640	6 810	4 540	4 310	2 900			*3 730	2 790	6.15
	Rear blade down (over rear)	*21 470	*21 470	*12 600	10 130	*7 720	5 200	*4 550	3 310			*3 730	3 200	
	Rear outrigger down (over rear)	*21 470	*21 470	*12 600	*12 600	*7 720	6 840	*4 550	4 300			*3 730	*3 730	
	Front outrigger and rear blade down (over rear)	*21 470	*21 470	*12 600	*12 600	*7 720	7 550	*4 550	*4 550			*3 730	*3 730	
	Front blade and rear outrigger down (over rear)	*21 470	*21 470	*12 600	*12 600	*7 720	7 710	*4 550	*4 550			*3 730	*3 730	
	4 outrigger down (over rear)	*21 470	*21 470	*12 600	*12 600	*7 720	*7 720	*4 550	*4 550			*3 730	*3 730	

EQUIPMENT

ENGINE	ZX175W-7	ZX180W-7
Aftertreatment device	●	●
Air cleaner double filters	●	●
Alternator 100 A	●	–
Alternator 60 A	–	●
Auto idle system	●	●
Auto shut-down control	●	●
Cartridge-type engine oil filter	●	●
Cartridge-type fuel main filter	●	●
Cold fuel resistence valve	–	●
Consite OIL (sensor)*	●	●
Coolant Heater	○	○
DEF/AdBlue® tank	●	●
DEF/AdBlue® tank inlet strainer and extension filler	●	●
Dry-type air filter with evacuator valve (with air filter restriction indicator)	●	●
Dust-proof indoor net	●	●
ECO/PWR mode control	●	●
Electrical fuel feed pump	–	●
Engine oil drain coupler	●	●
Expansion tank	●	●
Fan guard	●	●
Fuel cooler	–	●
Fuel heater	○	–
Fuel pre-filter with water separator	●	●
Isolation-mounted engine	●	●
Maintenance free pre-cleaner	○	○
Radiator, oil cooler and intercooler	●	●

HYDRAULIC SYSTEM		
Auto power lift	●	●
ConSite OIL (sensor)*	●	●
Control valve with main relief valve	●	●
Extra port for control valve	●	●
High mesh full-flow filter	●	●
Hose rupture valve for arm	●	●
Hose rupture valve for boom	●	●
Pilot filter	●	●
Power boost	●	●
Restriction indicator for full-flow filter	○	○
Shockless valve in pilot circuit	●	●
Steering filter	●	●
Suction filter	●	●
Swing dampener valve	●	●
Variable reliefvalve for breaker and crusher	●	●
Work mode selector	●	●

CAB	ZX175W-7	ZX180W-7
All-weather sound suppressed steel cab	●	●
Auto control air conditioner	●	●
AUX function lever (breaker assist)	●	●
Bluetooth®* integrated DAB+radio	●	●
Console height adjustment	●	●
Control lever auto-lock	●	●
CRES VII (center pillar reinforced structure) cab	●	●
Drink holder with hot and cool function	●	●
Electric double horn	●	●
Engine shut-off switch	●	●
Equipped with reinforced, tinted (green color) glass windows	●	●
Evacuation hammer	●	●
Floor mat	●	●
Footrest	●	●
Front window washer (2 points)	●	●
Glove compartment	●	●
Hands-free calling device	●	●
Hot and cool box	●	●
Intermittent windshield wipers	●	●
Key cylinder light	●	●
Laminated round glass window	○	○
LED room light	●	●
OPG top guard Level I (ISO 10262 : 1998) compliant	●	●
OPG top guard Level II (ISO 10262 : 1998) compliant	○	○
Pilot shut-off lever	●	●
Power outlet 12 V and 24 V	●	●
Push button low idle	●	●
Rain guard (without OPG front guard)	●	●
Rear tray	●	●
Retractable seat belt	●	●
ROPS (ISO 12117-2 : 2008) compliant cab	●	●
Rubber radio antenna	●	●
Seat : air suspension seat with heater	●	●
Seat adjustment part : backrest, armrest, height and angle, slide forward / back	●	●
Seat belt reminder	●	●
Short wrist control levers	●	●
Smartphone holder	●	●
Sun visor (multi-use front or side window)	●	●
Sunscreen roller type (multi-use front or side and rear window)	○	○
Transparent roof with slide curtain	●	●
Wide view wiper	●	●
Windows on front, upper, lower and left side can be opened	●	●
2 speakers	●	●
4 fluid-filled elastic mounts	●	●
5V USB power supply	●	●
8 inch monitor	●	●

Standard and optional equipment may vary by country, so please consult your Hitachi dealer for details.
* Engine oil and hydraulic oil monitoring sensor.
**The system detects the pilot pressure and maintains the set speed by maintaining the pilot pressure.

● : Standard equipment ○ : Optional equipment — : Not applicable

MONITOR SYSTEM	ZX175W-7	ZX180W-7
Alarm buzzers: overheat, engine oil pressure, overload, SCR system trouble	●	●
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, SCR system trouble, etc	●	●
Attachment operational information	●	●
Display of meters: Speedometer, Tachometer, Tripmeter, water temperature, hour, fuel rate, clock, DEF/AdBlue® rate	●	●
Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc	●	●
35 languages selection	●	●

LIGHTS		
Additional boom LED light with cover	○	○
Additional cab roof front LED light	○	○
Additional cab roof rear LED light	○	○
Brake lamps	●	●
Clearance lamps	●	●
Hazard lamps	●	●
Headlight LED	●	●
LED lights for camera (side and rear view camera)	○	○
Licence lamp	○	○
Rotating lamp (cab)	○	○
Rotating lamp (counterweight)	○	○
Turn signal lamps	●	●
Working LED lights	●	●
Working LED Lights under arm	○	○

UPPERSTRUCTURE		
Aerial Angle® (270-degree view camera system)	●	●
Batteries 2 x 93 Ah	●	●
Battery disconnect switch	●	●
Body top guardrail	●	●
Cab top handhold	●	●
Counterweight 3 400 kg	–	●
Counterweight 3 760 kg	●	–
Counterweight 3 800 kg	–	○
Electric fuel refilling pump with auto stop and filter	●	●
Fuel level float	●	●
Hydraulic oil level gauge	●	●
Lockable fuel refilling cap	●	●
Lockable machine covers	●	●
Platform handrail	●	●
Rear view mirror (right and left side)	●	●
Rear view mirrors with heater (right and left side)	○	○
Skid-resistant plates and handrails	●	●
Swing parking brake	●	●
Undercover	●	●

UNDERCARRIAGE	ZX175W-7	ZX180W-7
Automatic transmission control	●	●
Automatic working brake control	●	●
Clamshell bracket	○	○
Cruise control**	●	●
Electric system for trailer	○	○
Front cover	●	●
Front dozer blade + rear outrigger	○	○
Front fender / rear fender	○	○
Front outrigger + rear dozer blade	○	○
Front outrigger + rear outrigger	○	○
Parking brake	●	●
Rear dozer blade	○	○
Rear dozer blade, reinforced for trailer towing	○	○
Rear outrigger, prepared for trailer towing	○	○
Toolbox: left side	●	●
Toolbox: right side	○	○
Traction pattern tires, single or twin type	○	○
Wide gauge axle	○	○
4 tie down brackets	●	●

FRONT ATTACHMENTS		
Arm tip remote lubrication	●	●
Auto-lubrication device (swing gear, boom, arm and bucket)	○	○
Casted bucket link A	●	●
Centralized lubrication system	●	●
Dirt seal on all bucket pins	●	●
Flanged pin	●	●
HN bushing	●	●
Lower arm reinforcement	○	○
Reinforced link B	○	○
Reinforced resin thrust plate	●	●
WC (tungsten-carbide) thermal spraying	●	●
Welded bucket link A	○	○

ATTACHMENT		
Accessories for 2 speed selector	○	○
Additional pump (40 L/min)	○	○
Assist piping	○	○
Breaker and crusher piping	●	●
Clamshell piping	○	○
Pilot accumulator	●	●
PTO valve	○	○

MISCELLANEOUS		
ConSite	○	○
Global e-Service	●	●
Onboard information controller	●	●
Standard tool kit	●	●
Travel direction mark on chassis frame	●	●

MEMO

MEMO

Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact your Hitachi dealer in case of questions about compliance.

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.
Before use, read and understand the Operator's Manual for proper operation.

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