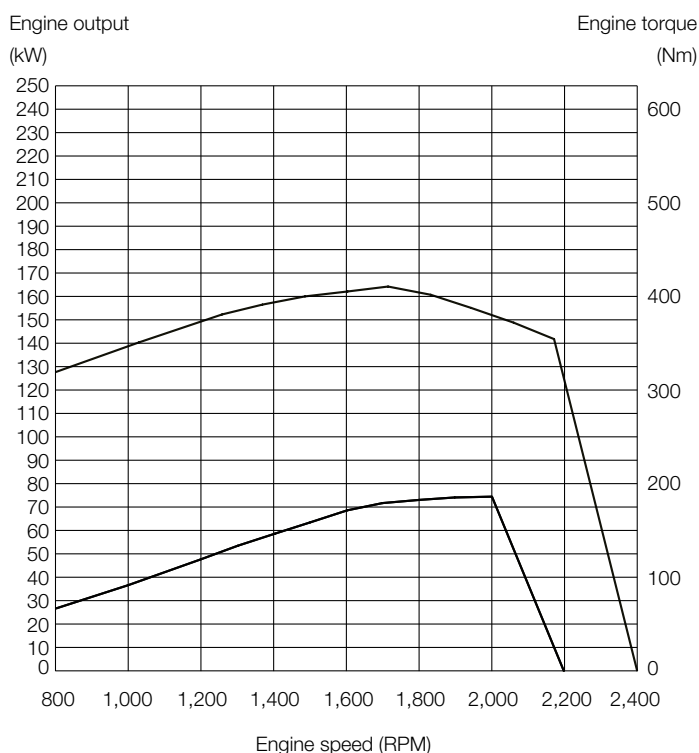


ENGINE

Model	DEUTZ TCD3.6L4F
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharger and intercooled
Aftertreatment	DOC and SCR system
No. of cylinders	4
Maximum rated power	
ISO 14396, gross	101 hp (74 kW) at 2,000 min ⁻¹ (rpm)
ISO 9249, net	96 hp (71 kW) at 2,000 min ⁻¹ (rpm)
Maximum torque	400 Nm at 1,600 min ⁻¹ (rpm)
Bore and stroke	3.9 in x 4.7 in (98 mm x 120 mm)
Piston displacement	221 in ³ (3.621 L)
Batteries	2 x 12 V
Air cleaner	Two element dry type with restriction indicator
Emission	Complies with EU stage IV and US EPA Tier 4 Final



POWERTRAIN

Transmission	Electrical-controlled 1 motor hydrostatic transmission with gear box, Gear box: Fixed gear ratio, powershift countershaft type
Cooling method	Forced circulation type
Travel speed* Forward/Reverse	
1st	11.5/7.1 km/mph
2nd	21.4/34.5 km/mph
* With 17.5-25-12PR (L-2) tire	

AXLE AND FINAL DRIVE

Drive system	Four-wheel drive system
Front & rear axle	Semi-floating
Front	Fixed to the front frame
Rear	Trunnion support
Reduction and differential gear	Two stage reduction with torque proportional differential
Oscillation angle	Total 20° (+10°, -10°)
Final drives	Heavy-duty planetary, mounted inboard

BRAKES

Service brakes	Inboard mounted fully hydraulic 4 wheel wet disc brakes. Front & rear independent brake circuit, HST (Hydro Static Transmission) system provides additional hydraulic braking capacity
Parking brakes	Spring applied, hydraulically released, wet disc type

STEERING SYSTEM

Type	Articulated frame steering
Steering angle	Each direction 40°; total 80°
Cylinders	Double-acting piston type
No. x Bore x Stroke	2 x 2.4 in x 15.6 in (2 x 60 mm x 395 mm)

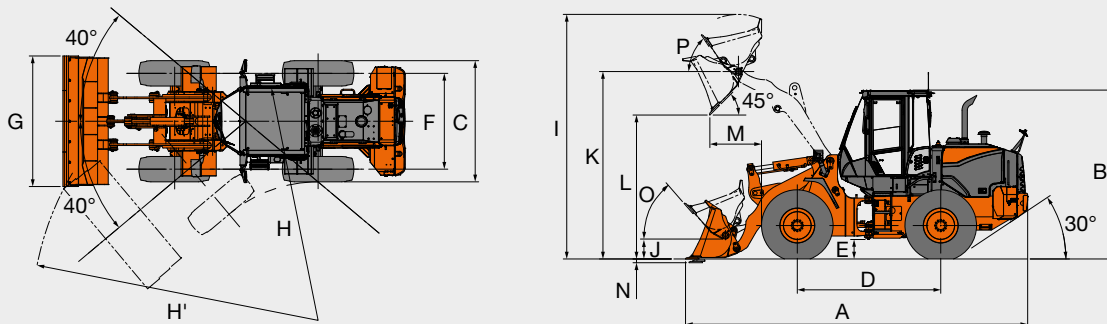
HYDRAULIC SYSTEM

Arm and bucket are controlled by multi function control lever	
Arm controls	Four position valve; Raise, hold, lower, float
Bucket controls with automatic bucket return to-dig control	
.....	Three position valve; Roll back, hold, dump
Main pump (Load & steer)	
.....	Gear type 32.0 gal/min (121 L/min) at 2,000 min ⁻¹ (rpm) at 20.6 MPa (210 kgf/cm ²)
Relief pressure setting	20.6 MPa (210 kgf/cm ²)
HST charging pump	Gear type 10.4 gal/min (39.2 L/min) at 2,000 min ⁻¹ (rpm) at 2.5 MPa (25 kgf/cm ²)
Transmission charging pump	
.....	Gear type 5.9 gal/min (22 L/min) at 2,000 min ⁻¹ (rpm) at 1.8 MPa (18 kgf/cm ²)
Hydraulic cylinders	
Type	Double acting type
No. x Bore x Stroke ...	Arm: 2 x 4.1 in x 28.0 in (2 x 105 mm x 710 mm) Bucket: 1 x 4.9 in x 17.5 in (1 x 125 mm x 445 mm)
Filters	Full-flow 10 micron return filter in reservoir
Hydraulic cycle times	
Lift arm raise	6.6 s
Lift arm lower	2.7 s
Bucket dump	1.6 s
Total	10.9 s

SERVICE REFILL CAPACITIES

Fuel tank	39.62 gal (150 L)
Engine coolant	4.20 gal (16 L)
Engine oil	2.80 gal (10.5 L)
Front axle differential & wheel hubs	3.70 gal (14 L)
Rear axle differential & wheel hubs	3.70 gal (14 L)
Hydraulic oil tank	19.8 gal (75 L)
DEF/AdBlue® tank	4.50 gal (17 L)

DIMENSIONS & SPECIFICATIONS



Bucket type			Standard arm		High lift arm
			General purpose		General purpose
			Bolt-on cutting edge		
Bucket capacity	ISO heaped	yd ³ (m ³)	2.0 (1.5)	2.4 (1.8)	2.0 (1.5)
	ISO struck	yd ³ (m ³)	1.6 (1.2)	1.5 (1.4)	1.6 (1.2)
A Overall length		ft (mm)	21.0 (6,545)	21.3 (6,650)	21.0 (7,105)
B Overall height		ft (mm)		10.5 (3,210)	
C Width over tires		ft (mm)		7.4 (2,270)	
D Wheel base		ft (mm)		8.9 (2,725)	
E Ground clearance		in (mm)		14.6 (370)	
F Tread		ft (mm)		6.0 (1,820)	
G Bucket width		ft (mm)		8.0 (2,450)	
H Turning radius (Centerline of outside tire)		ft (mm)		16.2 (4,915)	
H' Loader clearance circle, bucket in carry position		ft (mm)	17.8 (5,430)	17.9 (5,460)	18.4 (5,610)
I Overall operating height		ft (mm)	15.3 (4,650)	15.6 (4,760)	16.4 (4,990)
J Carry Height of bucket pin		ft (mm)	1.5 (455)	1.5 (455)	1.5 (455)
K Height to bucket hinge pin, fully raised		ft (mm)	11.7 (3,560)	11.7 (3,560)	12.8 (3,900)
L Dumping clearance 45 degree, full height		ft (mm)	8.9 (2,705)	8.6 (2,630)	10.0 (3,040)
M Reach, 45 degree dump, full height		ft (mm)	3.3 (1,010)	3.5 (1,080)	3.9 (1,190)
N Digging depth (Horizontal digging angle)		in (mm)	2.8 (70)	2.8 (70)	8.3 (210)
O Max. roll back at carry position		deg	49		50
P Roll back angle at full height		deg	56		52
Static tipping load *	Straight	lb (kg)	14,330 (6,500)	14,200 (6,440)	12,940 (5,870)
	Full 40 degree turn	lb (kg)	12,390 (5,620)	12,240 (5,550)	11,140 (5,050)
Breakout force		lbf (kgf)	16,840 (7,520)	14,970 (6,790)	16,590 (7,520)
		kN	74.9	66.6	73.8
Operating weight *		lb (kg)	18,590 (8,430)	18,760 (8,510)	19,850 (9,000)

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:2009 and ISO 7546:1983

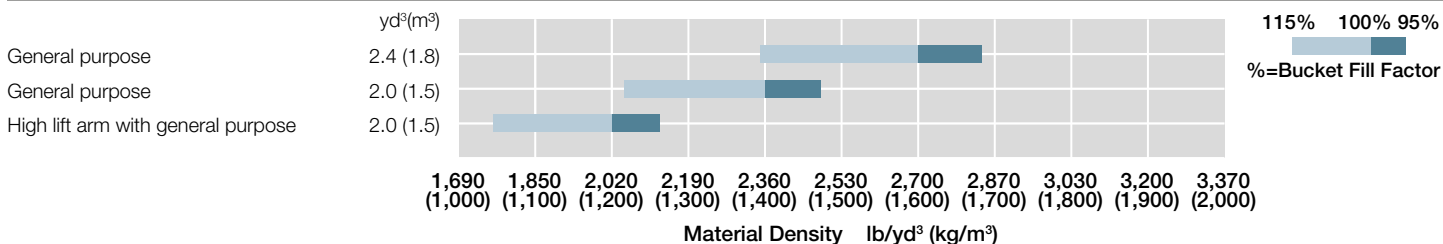
: Static tipping load and operating weight marked with include 17.5-25-12PR (L-2) tires (No ballast) with lubricants, full fuel tank and operator.

Machine stability and operating weight depend on counterweight, tire size and other attachments.

WEIGHT & SPECIFICATION CHANGES

Option item		Operating weight lb (kg)	Tipping load lb (kg)		Overall width in (mm) (outside tire)	Overall height in (mm)	Overall length in (mm)
			Straight	Full turn			
Tire	17.5R25	±0	±0	±0	±0	±0	±0
Belly guard		+154 (70)	+132 (60)	+110 (50)	±0	±0	±0

BUCKET SELECTION GUIDE



STANDARD EQUIPMENT

ENGINE

Air cleaner, double element
Cold start (glow plug)
Cooler, wide fin
Deutz TCD36 diesel engine
EGR system
Fuel filter (main), w/water separator
Fuel pre-filter, w/water separator
SCR catalyst and DOC
Work mode selector

POWERTRAIN

Brakes, service
Enclosed wet disc
Dual system
Inboard mounted
Brake, parking
Spring applied
Oil pressure released
Wet disc type
Differential, torque proportioning (F/R)
Drive shafts, low maintenance
Hydrostatic transmission
Inching pedal
Maximum speed adjuster for 1st speed
Traction control

HYDRAULIC SYSTEM

Boom kick-out, dual (operator adjustable in cab)
Bucket positioner
Control lever, single, pilot-assisted
Control lever lock (electric)
Control valve, 3-spool ready, parallel control
Ride control w/load sensing valve and automatic shut-off
Quick coupler control, lines and controls
Pump, gear, fixed displacement
Steering, orbitrol

ELECTRICAL

24-volt electrical system
Back-up alarm
Battery disconnect switch
Converter, 12V/15 Amp
Horn, dual electric
Instrument panel, LCD, color
Lights:
2 Headlights (halogen)
2 Forward working lights (halogen)
4 Rear working lights (halogen)
2 Stop/tail/backup (LED)
Turn signal w/4-way flashers/marker

CAB

ROPS cab: Enclosed cab with sound suppression, front & rear wipers and washers, two rear view and side mirrors, tinted glass, full view latch-back doors, sliding side windows.
Accessory outlet, 12V,
Adjustable armrest/console, (fore/aft sliding)
Air conditioner/heater/pressurizer
AM/FM/WB radio with AUX input
Ashtray
Cab dome lamps (2)
Cigarette lighter
Coat hook
Cooler box storage area
Cup holder (2)
Floormat
Retractable seat belt (3 inch)
ROPS/FOPS certified
Seat, air suspension, fabric
Steering column, telescoping and tilting w/quick-release pedal
Storage box (heated/cooled)
Sun visor

OTHERS

Articulation locking bar
Counterweight
Drawbar
Global e-Service, telematic monitoring system (GSM-version w/4 yrs. service)
Ladders, inclined
Lifting eyes
Linkage pins, HN bushing
Neutral safety start
Steps, rear
Z-bar loader linkage

ALARMS, GAUGES, INDICATORS

Alarms (visual & audible)	Brake oil low pressure
	Engine oil low pressure
Gauges	DEF/AdBlue® Level
	Engine coolant temperature
	Fuel gauge
	Overheat (engine coolant)
Indicators	Aftertreatment Device
	Air cleaner element
	Air conditioner display
	Battery discharge warning
	Cold start
	Control lever lock
	Eco-operating status
	Emergency steering
	Engine warning
	Fan reverse rotation
	Fuel filter (water in fuel)
	High beam
	HST oil temperature
	HST warning
	Maintenance
	Operating mode (Normal, Power)
	Parking brake
	Ride control
	Service
	Speedometer
	Time/operating hour/ODO
	Traction control switch
	Turn signal w/4-way flashers/marker
	Work light

OPTIONAL EQUIPMENT

Belly guard, front chassis, transmission (rear)
Bolt-on cutting edge & segments
Camera, rear view
Fenders, rear, full, w/mudflap
HID work lights
High lift boom arm
Hydraulic system, 3rd function control
LED work lights
Pre-cleaner (turbine type)
Quick coupler & attachments
Seat, heated
Secondary steering

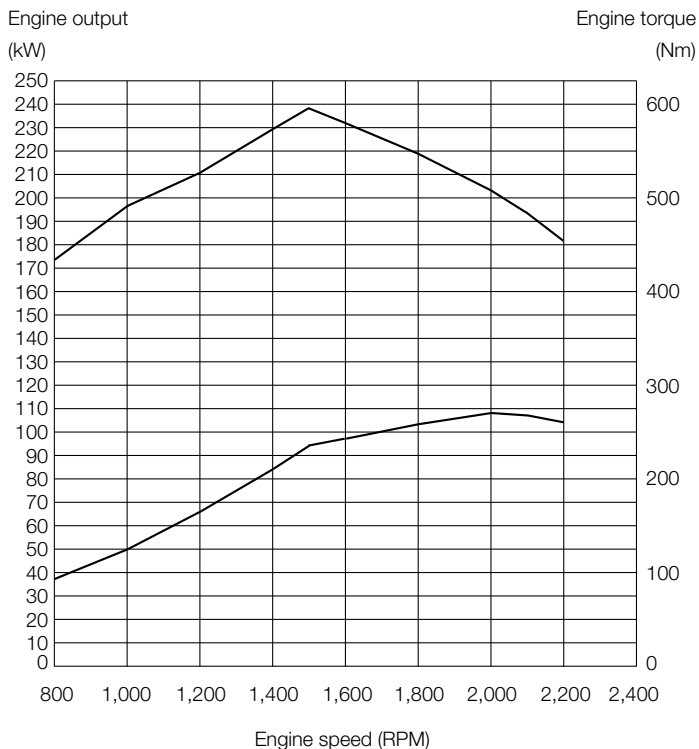
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SPECIFICATIONS

ZW140-6/ZW150-6/ZW150PL-6

ENGINE

Model	CUMMINS QSB4.5
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharger and intercooled
Aftertreatment	DOC and SCR system
No. of cylinders	4
Maximum rated power	
ISO 14396, gross	141 hp (104 kW) at 2,200 min ⁻¹ (rpm)
ISO 9249, net	140 hp (103 kW) at 2,200 min ⁻¹ (rpm)
Maximum torque	597 Nm at 1 500 min ⁻¹ (rpm)
Bore and stroke	4.2 in x 4.9 in (107 mm x 124 mm)
Piston displacement	272.1 in ³ (4.460 L)
Batteries	2 x 12 V
Air cleaner	Two element dry type with restriction indicator
Emission	Complies with EU stage IV and US EPA Tier 4 Final



POWERTRAIN

Transmission	Electrical-controlled 2 motor hydrostatic transmission with summation gear box, Gear box: Fixed gear ratio, powershift countershaft type
Cooling method	Forced circulation type
Travel speed* Forward/Reverse	
1st	7.0/4.3 km/mph
2nd	13.0/8.0 km/mph
3rd	20.0/12.42 km/mph
4th	39.0/24.2 km/mph
* With 20.5 R25 (L3) tires	

AXLE AND FINAL DRIVE

Drive system	Four-wheel drive system
Front & rear axle	Semi-floating
Front	Fixed to the front frame
Rear	Trunnion support
Reduction and differential gear	Two stage reduction with limited slip differential
Oscillation angle	Total 20° (+10°, -10°)
Final drives	Heavy-duty planetary, mounted inboard

BRAKES

Service brakes	Inboard mounted fully hydraulic 4 wheel wet disc brakes. Front & rear independent brake circuit, HST (Hydro Static Transmission) system provides additional hydraulic braking capacity
Parking brakes	Spring applied, hydraulically released, wet disc type

STEERING SYSTEM

Type	Articulated frame steering
Steering angle	Each direction 40°; total 80°
Cylinders	Double-acting piston type
No. x Bore x Stroke	2 x 2.6 in x 16.5 in (2 x 65 mm x 419 mm)

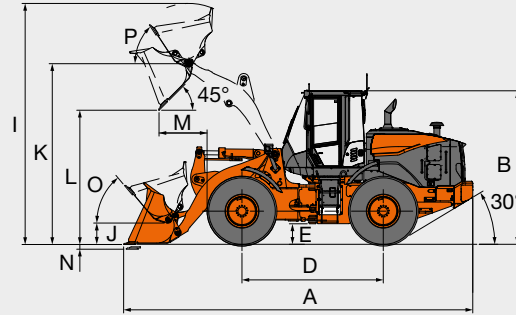
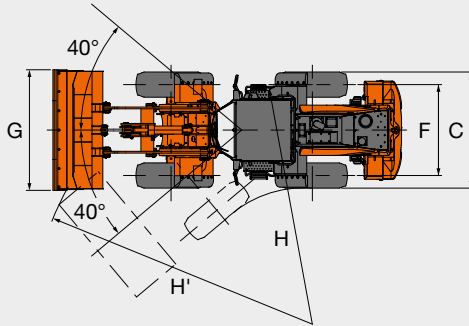
HYDRAULIC SYSTEM

Arm and bucket are controlled by multi function control lever		
Arm controls	Four position valve; Raise, hold, lower, float	
Bucket controls with automatic bucket return to-dig control	Three position valve; Roll back, hold, dump	
Main pump (Load & steer)		
.....	Gear type 51.2 gal/min (194 L/min) at 2 200 min ⁻¹ (rpm) at 20.6 MPa (210 kgf/cm ²)	
Relief pressure setting	20.6 MPa (210 kgf/cm ²)	
HST charging pump	Gear type 14.2 gal/min (53.9 L/min) at 2,200 min ⁻¹ (rpm) at 2.45 MPa (25 kgf/cm ²)	
Transmission charging pump		
.....	Gear type 4.6 gal/min (17.6 L/min) at 2,200 min ⁻¹ (rpm) at 1.96 MPa (20 kgf/cm ²)	
ZW140-6/ZW150-6 Hydraulic cylinders		
Type	Double acting type	
No. x Bore x Stroke ...	Arm: 2 x 4.9 in x 29.9 in (2 x 125 mm x 760 mm) Bucket: 1 x 5.9 in x 19.5 in (1 x 150 mm x 495 mm)	
ZW150PL-6 Hydraulic cylinders		
Type	Double acting type	
No. x Bore x Stroke ...	Arm: 2 x 4.9 in x 29.9 in (2 x 125 mm x 760 mm) Bucket: 2 x 4.3 in 39.6 in (2 x 110 mm x 1 005 mm)	
Filters	Full-flow 10 micron return filter in reservoir	
Hydraulic cycle times	ZW140-6/ZW150-6	ZW150PL-6
Lift arm raise	6.0 s	6.0 s
Lift arm lower	4.5 s	3.4 s
Bucket dump	1.4 s	3.4 s
Total	11.9 s	12.8 s

SERVICE REFILL CAPACITIES

Fuel tank	50.2 gal (190 L)
Engine coolant	2.6 gal (10 L)
Engine oil	4.2 gal (16 L)
Front axle differential & wheel hubs	6.6 gal (25 L)
Rear axle differential & wheel hubs	6.6 gal (25 L)
Hydraulic oil tank	21.1 gal (80 L)
DEF/AdBlue® tank	3.2 gal (12 L)

DIMENSIONS & SPECIFICATIONS



Bucket type			Standard arm		High lift arm
			General purpose	General purpose	General purpose
			Bolt-on cutting edge	Bolt-on cutting edge	Bolt-on cutting edge
Bucket capacity	ISO heaped	yd ³ (m ³)	2.7 (2.1)	3.1 (2.4)	2.7 (2.1)
	ISO struck	yd ³ (m ³)	2.4 (1.8)	2.6 (2.0)	2.4 (1.8)
A Overall length		ft (mm)	23.9 (7,290)	24.2 (7,370)	25.7 (7,840)
B Overall height		ft (mm)		10.7 (3,265)	
C Width over tires		ft (mm)		8.2 (2,490)	
D Wheel base		ft (mm)		9.8 (3,000)	
E Ground clearance		in (mm)		16.9 (430)	
F Tread		ft (mm)		6.3 (1,930)	
G Bucket width		ft (mm)		8.4 (2,560)	
H Turning radius (Centerline of outside tire)		ft (mm)	16.7 (5,085)	17.6 (5,355)	17.6 (5,355)
H' Loader clearance circle, bucket in carry position		ft (mm)	19.5 (5,940)	19.5 (5,950)	20.0 (6,100)
I Overall operating height		ft (mm)	16.6 (5,050)	16.9 (5,150)	17.8 (5,420)
J Carry Height of bucket pin		ft (mm)	1.7 (515)	1.7 (515)	1.7 (515)
K Height to bucket hinge pin, fully raised		ft (mm)	12.6 (3,835)	12.6 (3,835)	13.8 (4,200)
L Dumping clearance 45 degree, full height		ft (mm)	9.5 (2,890)	9.3 (2,830)	10.7 (3,255)
M Reach, 45 degree dump, full height		ft (mm)	3.2 (975)	3.4 (1,040)	3.8 (1,170)
N Digging depth (Horizontal digging angle)		in (mm)	3.7 (95)	3.7 (95)	11.0 (280)
O Max. roll back at carry position		deg		50	
P Roll back angle at full height		deg	55	55	50
Static tipping load *	Straight	lb (kg)	20,260 (9,190)	19,970 (9,060)	16,230 (7,360)
	Full 40 degree turn	lb (kg)	17,570 (7,970)	17,310 (7,850)	14,000 (6,350)
Breakout force		lb (kgf)	24,054 (10,910)	22,031 (10,446)	23,380 (10,604)
		kN	107	98	104
Operating weight *		lb (kg)	25,661 (11,640)	25,790 (11,700)	26,150 (11,860)

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:2009 and ISO 7546:1983

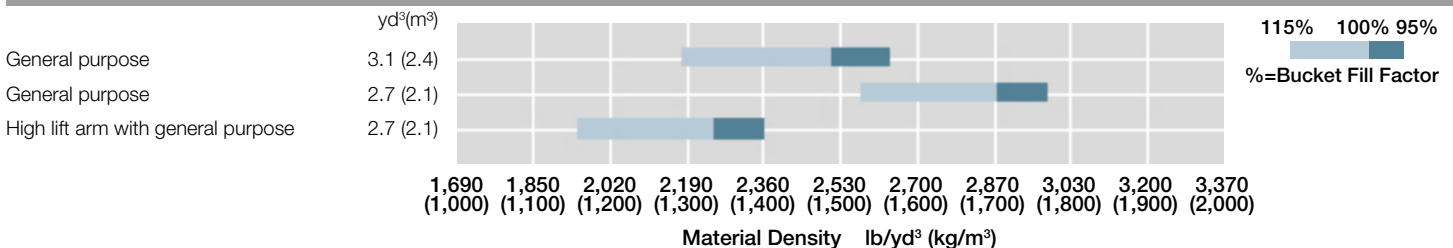
: Static tipping load and operating weight marked with include 20.5R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator.

Machine stability and operating weight depend on counterweight, tire size and other attachments.

WEIGHT & SPECIFICATION CHANGES

Option item		Operating weight lb (kg)	Tipping load lb (kg)		Overall width in (mm) (outside tire)	Overall height in (mm)	Overall length in (mm)
			Straight	Full turn			
Tire	17.5-25-12PR (L2)	-1,230 (-560)	-440 (-200)	-400 (-180)	-3.7 (-95)	-3.0 (-75)	2.4 (+60)
	17.5-25-12PR (L3)	-1,040 (-470)	-220 (-100)	-260 (-120)	-3.7 (-95)	-3.0 (-75)	2.4 (+60)
	20.5R25 (L3)	±0	±0	±0	±0	±0	±0
Belly guard		+150 (70)	+70 (30)	+90 (40)	±0	±0	±0

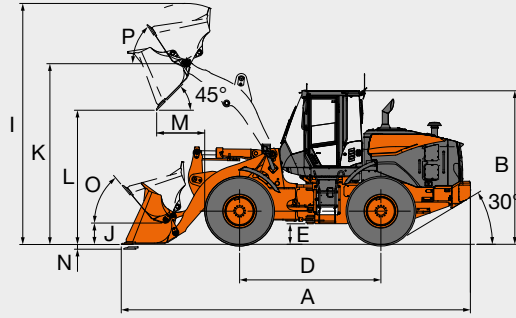
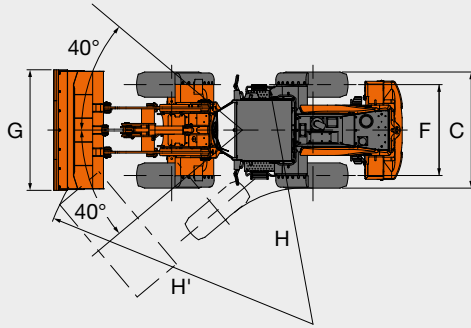
BUCKET SELECTION GUIDE



SPECIFICATIONS

ZW150-6

DIMENSIONS & SPECIFICATIONS



Bucket type			Standard arm		High lift arm
			General purpose	General purpose	General purpose
			Bolt-on cutting edge	Bolt-on cutting edge	Bolt-on cutting edge
Bucket capacity	ISO heaped	yd ³ (m ³)	3.1 (2.4)	3.5 (2.7)	3.1 (2.4)
	ISO struck	yd ³ (m ³)	2.6 (2.0)	2.9 (2.2)	2.6 (2.0)
A Overall length		ft (mm)	24.3 (7,420)	24.7 (7,540)	26.0 (7,935)
B Overall height		ft (mm)		10.7 (3,265)	
C Width over tires		ft (mm)	8.2 (2,490)	8.1 (2,465)	8.2 (2,490)
D Wheel base		ft (mm)		9.8 (3,000)	
E Ground clearance		in (mm)		16.9 (430)	
F Tread		ft (mm)		76.0 (1,930)	
G Bucket width		ft (mm)		8.4 (2,560)	
H Turning radius (Centerline of outside tire)		ft (mm)	19.5 (5,955)	16.7 (5,085)	17.6 (5,355)
H' Loader clearance circle, bucket in carry position		ft (mm)	16.7 (5,085)	16.7 (5,085)	16.7 (5,085)
I Overall operating height		ft (mm)	17.03 (5,190)	17.15 (5,230)	18.2 (5,555)
J Carry Height of bucket pin		ft (mm)		1.2 (380)	
K Height to bucket hinge pin, fully raised		ft (mm)	12.6 (3,835)	12.6 (3,835)	13.8 (4,200)
L Dumping clearance 45 degree, full height		ft (mm)	9.3 (2,830)	8.9 (2,720)	10.5 (3,205)
M Reach, 45 degree dump, full height		ft (mm)	3.4 (1,040)	3.4 (1,025)	4.0 (1,220)
N Digging depth (Horizontal digging angle)		in (mm)	3.7 (95)	3.7 (95)	11.0 (280)
O Max. roll back at carry position		deg		50	
P Roll back angle at full height		deg	57	57	52
Static tipping load *	Straight	lb (kg)	22,950 (10,410)	20,233 (9,178)	18,250 (8,280)
	Full 40 degree turn	lb (kg)	19,930 (9,040)	22,708 (10,300)	15,760 (7,150)
Breakout force		lb (kgf)	22,031 (10,446)	19,709 (8,940)	21,356 (9,686)
		kN	98	90	95
Operating weight *		lb (kg)	27,029 (12,260)	39.7 (12,110)	27,540 (12,490)

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:2009 and ISO 7546:1983

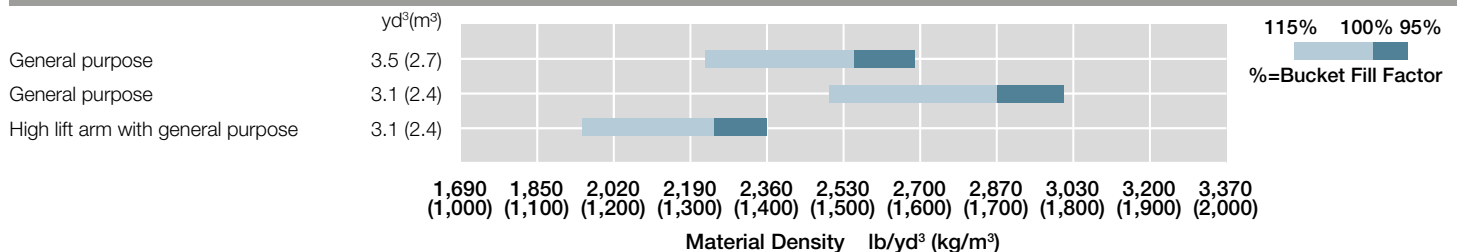
: Static tipping load and operating weight marked with include 20.5R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator.

Machine stability and operating weight depend on counterweight, tire size and other attachments.

WEIGHT & SPECIFICATION CHANGES

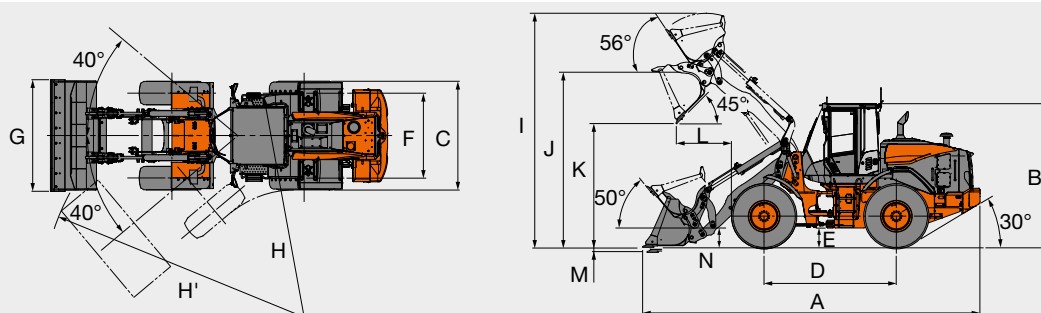
Option item		Operating weight lb (kg)	Tipping load kg (lb)		Overall width mm (in) (outside tire)	Overall height mm (in)	Overall length mm (in)
			Straight	Full turn			
Tire	20.5-25-12PR (L2)	-400 (-180)	-240 (-110)	-260 (-120)	±0	±0	±0
	20.5-25-12PR (L3)	-400 (-180)	-240 (-110)	-260 (-120)	±0	±0	±0
	20.5R25 (L3)	±0	±0	±0	±0	±0	±0
Belly guard		+150 (70)	+70 (30)	+90 (40)	±0	±0	±0

BUCKET SELECTION GUIDE



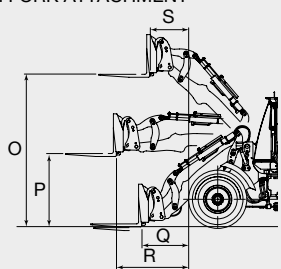
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DIMENSIONS & SPECIFICATIONS



Bucket type			General purpose	
			Bolt-on cutting edge	Weld-on adaptor & teeth
Bucket capacity	ISO heaped	yd³ (m³)	2.7 (2.1)	2.6 (2.0)
	ISO struck	yd³ (m³)	2.2 (1.7)	2.2 (1.7)
A Overall length		ft (mm)	24.8 (7,735)	26.1 (7,980)
B Overall height		ft (mm)		10.7 (3,265)
C Width over tires		ft (mm)		8.2 (2,490)
D Wheel base		ft (mm)		9.8 (3,000)
E Ground clearance		in (mm)		16.9 (430)
F Tread		ft (mm)		6.3 (1,930)
G Bucket width		ft (mm)		8.3 (2,535)
H Turning radius (Centerline of outside tire)		ft (mm)		16.7 (5,085)
H' Loader clearance circle, bucket in carry position		ft (mm)	19.6 (5,980)	19.8 (6,030)
I Overall operating height		ft (mm)		17.4 (5,290)
J Height to bucket hinge pin, fully raised		ft (mm)		12.6 (3,975)
K Dumping clearance 45 degree, full height		ft (mm)	9.2 (2,800)	8.8 (2,680)
L Reach, 45 degree dump, full height		ft (mm)	3.4 (1,280)	4.5 (1,380)
M Digging depth (Horizontal digging angle)		in (mm)	4.3 (110)	3.9 (100)
N Carry height of bucket pin		in (mm)		20.7 (525)
Bucket weight		lb (kg)	2,840 (1,290)	2,730 (1,240)
Static tipping load *	Straight	lb (kg)	20,128 (9,130)	19,910 (9,030)
	Full 40 degree turn	lb (kg)	17,394 (7,890)	17,200 (7,800)
Breakout force		lbf (kgf)	24,030 (10,900)	21,080 (9,560)
		kN	106.9	93.7
Operating weight *		lb (kg)	27,010 (12,830)	28,780 (13,050)

WITH FORK ATTACHMENT



Attachment type			Fork
O	Max. stacking height	ft (mm)	12.3 (3,740)
P	Height of fork at maximum reach	ft (mm)	5.9 (1,810)
Q	Reach at ground level	ft (mm)	3.8 (1,170)
R	Max. reach	ft (mm)	5.9 (1,790)
S	Reach at max. stacking height	ft (mm)	3.2 (990)
Static tipping load	Straight	lbf (kgf)	18,120 (8,220)
	Full 40 degree turn	lbf (kgf)	15,720 (7,130)
Max. payload per EN 474-3, 80 %		lb (kg)	12,350 (5,600)
Max. payload per EN 474-3, 60 %		lb (kg)	9,260 (4,200)
Fork tine length		ft (mm)	4.0 (1,220)
Operating weight *		lb (kg)	28,440 (12,900)

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:1997, ISO 7546:1983 and ISO 8313:1989

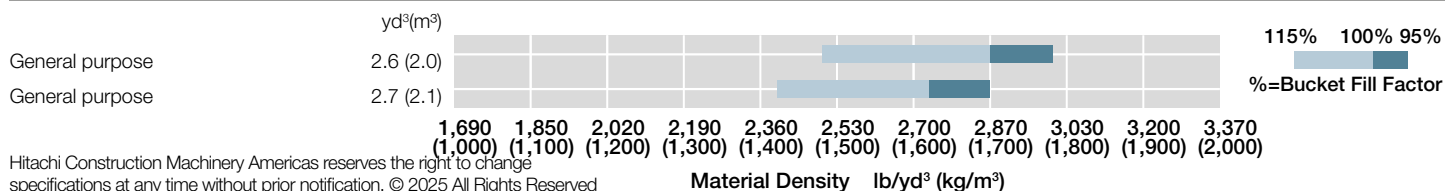
: Static tipping load and operating weight marked with include 20.5R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator.

Machine stability and operating weight depend on counterweight, tire size and other attachments.

WEIGHT & SPECIFICATION CHANGES

Option item		Operating weight lb (kg)	Tipping load lb (kg)		Overall width in (mm) (outside tire)	Overall height in (mm)	Overall length in (mm)
			Straight	Full turn			
Tire	20.5-25-12PR (L2)	-400 (-180)	-240 (-110)	-260 (-120)	±0	±0	±0
	20.5-25-12PR (L3)	-400 (-180)	-240 (-110)	-260 (-120)	±0	±0	±0
	20.5R25 (L3)	±0	±0	±0	±0	±0	±0
Belly guard		+150 (70)	+70 (30)	+90 (40)	±0	±0	±0

BUCKET SELECTION GUIDE



STANDARD EQUIPMENT

ENGINE

Air cleaner, double element
Auto idle shut down
Cold start (air intake heater)
Cooling fan, automatic reversible
Cummins QSB4.5
EGR system
Fuel filter (main), w/water separator
Fuel pre-filter, w/water separator
SCR system and DOC
VGT (Variable Geometry Turbocharger)
Work mode selector

POWERTRAIN

Brakes, service
Enclosed wet disc
Dual system
Inboard mounted
Brake, parking
Spring applied
Oil pressure released
Wet disc type
Coolers, wide fin
Differential, limited slip (F/R)
Drive shafts, low maintenance
F-R direction selector (2-column mounted/HYD-control lever mounted)
Hydrostatic transmission
Inching pedal
Maximum speed adjuster for 1st speed
Traction control
Universal joints, sealed

HYDRAULIC SYSTEM

Boom kick-out, dual (operator adjustable in cab)
Bucket positioner
Control lever, single, pilot-assisted w/1 aux lever for 3rd spool control
Control lever lock (electric)
Control valve, 3-spool, parallel and tandem control
Pump, gear, fixed displacement
Quick coupler control lines and controls
Ride control w/Load sensing valve and automatic shut-off
Steering, orbitrol

ELECTRICAL

24-volt electrical system
Back-up alarm
Batteries (2), 12V, 565 CCA
Battery disconnect switch
Converter, 12V/15 Amp
Horn, dual electric
Instrument panel, LCD, color
Lights:
2 Headlights (halogen)
2 Forward working lights (halogen)
4 Rear working lights (halogen)
2 Stop/tail/backup (LED)
Turn signal w/4-way flashers/marker

CAB

ROPS cab: Enclosed cab with sound suppression, front & rear wipers and washers, two rear view and side mirrors, tinted glass, full view latch-back doors, sliding side windows.
Accessory outlet, 12V,
Adjustable armrest/console, (fore/aft sliding)
Air conditioner/heater/pressurizer
AM/FM/WB radio with AUX input
Ashtray
Cab dome lamps (2)
Cigarette lighter
Coat hook
Cooler box storage area
Cup holder (2)
Floor mat
Retractable seat belt (3 inch)
ROPS/FOPS certified
Seat, air suspension, fabric
Steering column, telescoping and tilting w/quick-release pedal
Storage box (heated/cooled)
Sun visor

OTHERS

Articulation locking bar
Counterweight
Drawbar
Fenders, front, w/mudflap
Fenders, rear, deck-type, w/mudflap
Global e-Service, telematic monitoring system (GSM-version w/4 yrs. service)
Ladders, inclined
Lifting eyes
Linkage pins, HN bushing
Neutral safety start
Rear grill, steel
Steps, rear
Vandalism protection
Z-bar loader linkage

ALARMS, GAUGES, INDICATORS

Alarms (visual & audible)	Air cleaner element
	Aftertreatment device
	Brake oil low pressure
	Engine oil low pressure
	Emergency steering alarm
	Engine trouble
	Engine warning
	Fuel filter (water in fuel)
	Hydraulic oil level
	Hydraulic oil temperature
	Overheat (engine coolant)
	Steering oil low pressure
Gauges	DEF/AdBlue® Level
	Engine coolant temperature
	Fuel gauge
	Speedometer
Indicators	Air conditioner display
	Cold start
	Control lever lock
	Eco-operating status
	Engine warning
	Fan reverse rotation
	F-N-R selection
	F-N-R switch enable
	Fuel filter (plugged filter)
	Fuel filter (water in fuel)
	High beam
	HST oil temperature
	HST warning
	Low fuel level
	Maintenance
	Operating mode (Normal, Power)
	Parking brake
	Ride control
	Time/operating hour/ODO
	Traction control switch
	Turn signal w/4-way flashers/marker
	Work light

OPTIONAL EQUIPMENT

Belly guard, front chassis, transmission (rear)
Bolt-on cutting edge & segments
Bucket teeth
Camera, rear view
Cooling system cores, narrow fin
Dual lever hydraulic control
Fenders, rear, full, w/mudflap
HID work lights
High lift boom arm
LED work lights
Pre-cleaner (turbine type)
Quick coupler & attachments
Quick coupler, ISO
Seat, heated

STANDARD EQUIPMENT

ENGINE

Air cleaner, double element
 Auto idle shut down
 Cold start (glow plug)
 Cooling fan, automatic reversible
 Cummins QSB4.5 diesel engine
 EGR system
 Fuel filter (main), w/water separator
 Fuel pre-filter, w/water separator
 SCR catalyst and DOC
 VGT (Variable Geometry Turbocharger)
 Work mode selector

POWERTRAIN

Brakes, service
 Enclosed wet disc
 Dual system
 Inboard mounted
 Brake, parking
 Spring applied
 Oil pressure released
 Wet disc type
 Cooling system cores, wide-fin
 Differential, limited slip (F/R)
 Drive shafts, low maintenance
 F-R direction selector (2-column mounted/HYD-control lever mounted)
 Hydrostatic transmission
 Inching pedal
 Maximum speed adjuster for 1st speed
 Traction control
 Universal joints, sealed

HYDRAULIC SYSTEM

Boom kick-out, dual (operator adjustable in cab)
 Bucket positioner
 Quick coupler control lines and controls
 Control Lever, single, pilot-assisted w/1 aux Lever for 3rd spool control
 Control lever lock (electric)
 Control valve, 3-spool, parallel control
 Pump, gear, fixed displacement
 Quick coupler control lines and controls
 Ride control w/load sensing valve and automatic shut-off
 Steering, orbitrol

ELECTRICAL

24-volt electrical system
 Back-up alarm
 Batteries (2), 12V, 565 CCA
 Battery disconnect switch
 Converter, 12V/15 Amp
 Horn, dual electric
 Instrument panel, LCD, monochrome
 Lights:
 2 Headlights (halogen)
 2 Forward working lights (halogen)
 4 Rear working lights (halogen)
 2 Stop/tail/backup (LED)
 Turn signal w/4-way flashers/marker

CAB

ROPS cab: Enclosed cab with sound suppression, front & rear wipers and washers, two rear view and side mirrors, tinted glass, full view latch-back doors, sliding side windows.
 Accessory outlet, 12V,
 Adjustable armrest/console, (fore/aft sliding)
 Air conditioner/heater/pressurizer
 AM/FM/WB radio with AUX input
 Ashtray
 Cab dome lamps (2)
 Cigarette lighter
 Coat hook
 Cooler box storage area
 Cup holder (2)
 Floor mat
 Retractable seat belt (3 inch)
 ROPS/FOPS certified
 Seat, air suspension, fabric
 Steering column, telescoping and tilting w/quick-release pedal
 Storage box (heated/cooled)
 Sun visor

OTHERS

Articulation locking bar
 Counterweight
 Drawbar
 Fenders, front, w/mudflap
 Fenders, rear, deck-type, w/mudflap
 Global e-Service, telematic monitoring system (GSM-version w/4 yrs. service)
 Ladders, inclined
 Lifting eyes
 Linkage pins, HN bushing
 Neutral safety start
 Rear grill, steel
 Steps, rear
 Vandalism protection
 Z-bar loader linkage

ALARMS, GAUGES, INDICATORS

Alarms (visual & audible)	Brake oil low pressure Engine oil low pressure Hydraulic oil level Overheat (engine coolant) Steering oil low pressure
Gauges	DEF/AdBlue® Level Engine coolant temperature Fuel gauge HST oil temperature
Indicators	Aftertreatment Device Air cleaner element Air conditioner display Battery discharge warning Cold start Control lever lock Eco-operating status Emergency steering Engine warning Fan reverse rotation F-N-R selection F-N-R switch enable Fuel filter (plugged filter) Fuel filter (water in fuel) High beam HST oil temperature HST warning Maintenance Operating mode (Normal, Power) Parking brake Ride control Service Speedometer Time/operating hour/ODO Traction control switch Turn signal w/4-way flashers/marker Work light

OPTIONAL EQUIPMENT

Belly guard, front chassis, transmission (rear)
 Bolt-on cutting edge & segments
 Bucket teeth
 Camera, rear view
 Dual lever hydraulic control
 Fenders, rear, full, w/mudflap
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 High lift boom arm
 LED work lights
 Pre-cleaner (turbine type)
 Quick coupler & attachments
 Quick coupler, ISO

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 VGT (Variable Geometry Turbocharger)
 Work mode selector

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 Enclosed wet disc
 Dual system
 Inboard mounted
 Brake, parking
 Spring applied
 Oil pressure released
 Wet disc type
 Coolers, wide fin spacing
 Differential, limited slip (F/R)
 Drive shafts, low maintenance
 F-R direction selector (2-column mounted/HYD-control lever mounted)
 Hydrostatic transmission
 Inching pedal
 Maximum speed adjuster for 1st speed
 Traction control
 Universal joints, sealed

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 Cooler box storage area
 Cup holder (2)
 Floor mat
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 Storage box (heated/cooled)
 Sun visor

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 Fenders, rear, deck-type, w/mudflap
 Global e-Service, telematic monitoring system (GSM-version w/4 yrs. service)
 Ladders, inclined
 Lifting eyes
 Linkage, parallel, sealed
 Linkage pins, HN bushing
 Neutral safety start
 Rear grill, steel
 Steps, rear
 Vandalism protection
 Quick coupler

ALARMS, GAUGES, INDICATORS

Alarms (visual & audible)	Brake oil low pressure Engine oil low pressure Hydraulic oil level Overheat (engine coolant) Steering oil low pressure
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 LED work lights
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 Seat, heated

Lined area for writing notes.