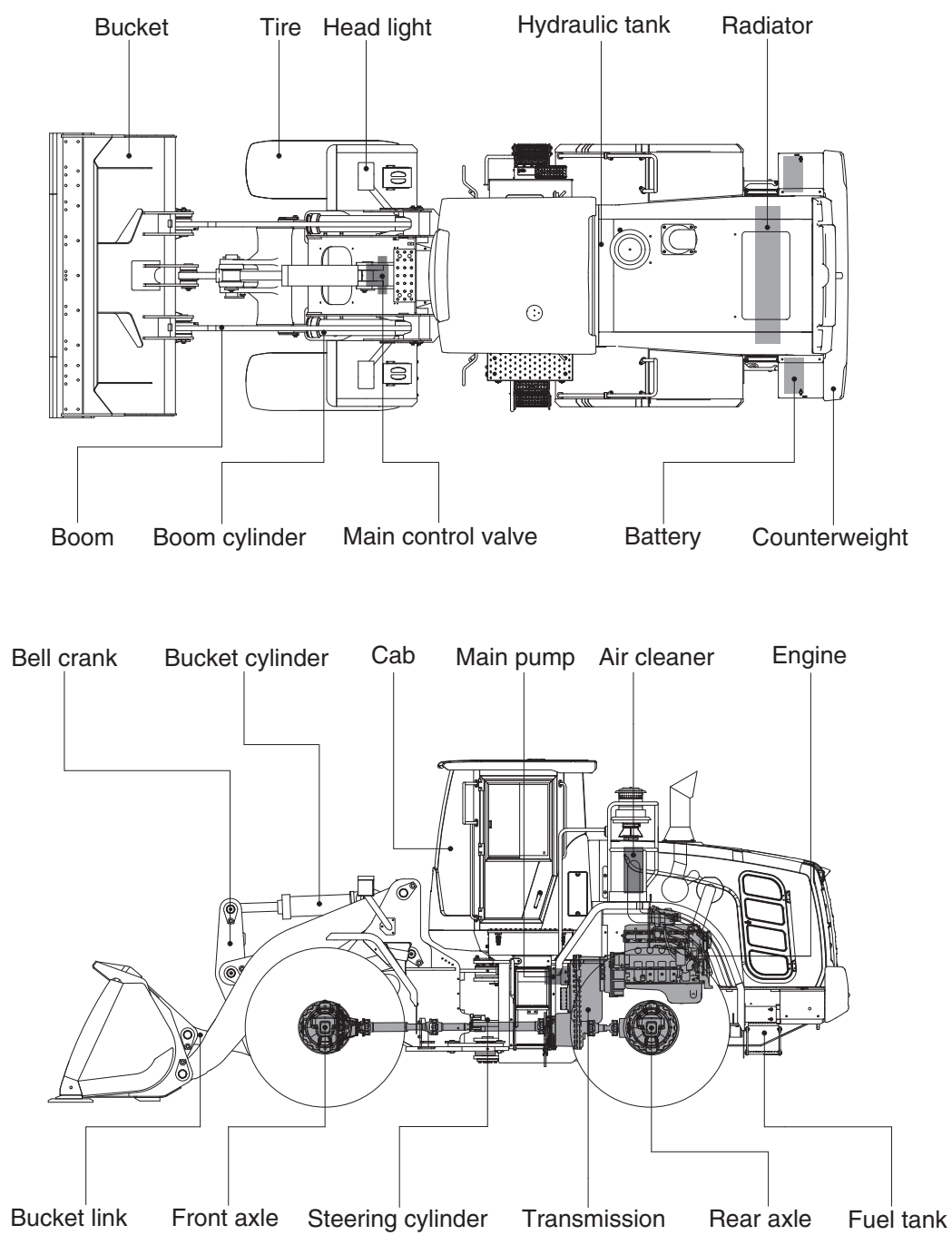


## 2. SPECIFICATIONS

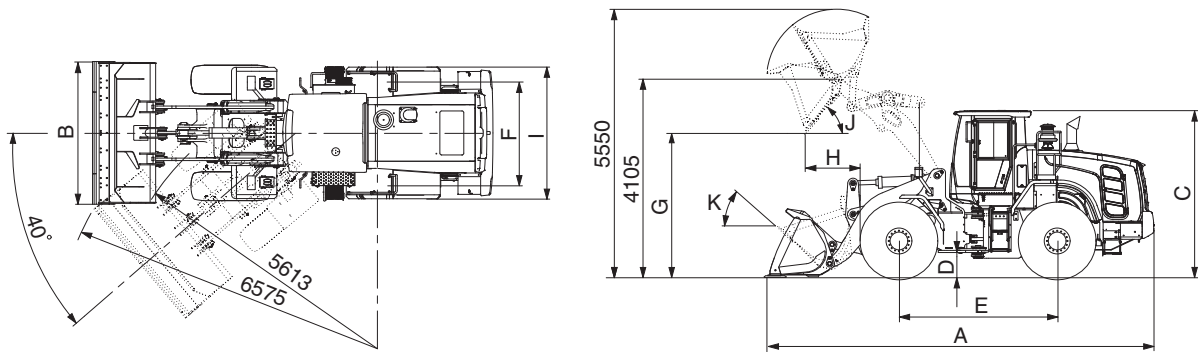
### 1. MAJOR COMPONENTS



760F2SE01

## 2. SPECIFICATIONS

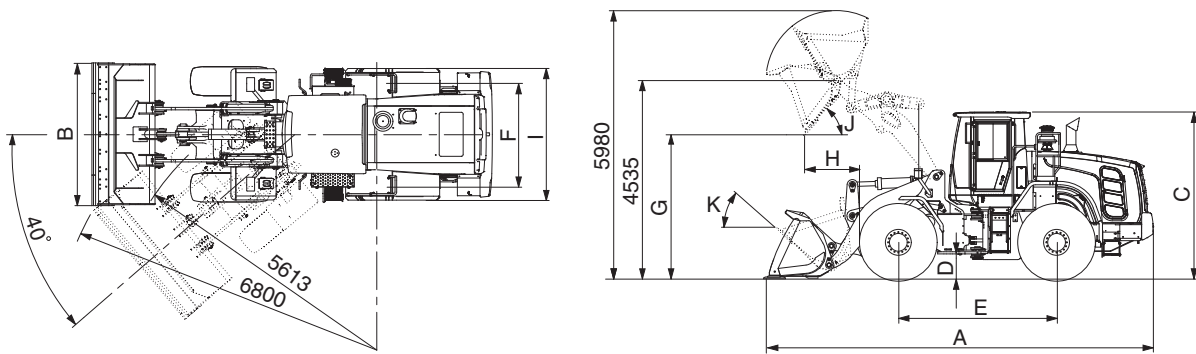
### 1) WITH BOLT-ON CUTTING EDGE TYPE BUCKET (HL960HD)



760F2SE03

Description			Unit	Specification
Operating weight			kg (lb)	19300 (42550)
Bucket capacity	Struck		m³ (yd³)	2.9 (3.8)
	Heaped			3.3 (4.3)
Overall length	A		mm (ft-in)	8140 (26' 8")
Overall width	B			2900 (9' 6")
Overall height	C			3450 (11' 4")
Ground clearance	D			410 (1' 4")
Wheelbase	E			3300 (10' 10")
Tread	F			2160 (7' 1")
Dump clearance at 45°	G			2935 (9' 8")
Dump reach (full lift)	H			1285 (4' 2")
Width over tires	I			2770 (9' 1")
Dump angle	J			degree (°)
Roll back angle (carry position)	K		47	
Cycle time	Lift (with load)		sec	5.9
	Dump (with load)			1.3
	Lower (empty)			3.1
Maximum travel speed			km/hr (mph)	38.9 (24.2)
Braking distance			m (ft-in)	12.2 (40' 0")
Minimum turning radius (center of outside tire)				5.61 (18' 5")
Gradeability			degree (°)	30
Breakout force			kg (lb)	16670 (36750)
Travel speed	Forward	First gear	km/hr (mph)	6.3 (3.9)
		Second gear		11.9 (7.4)
		Third gear		24.0 (14.9)
		Fourth gear		38.9 (24.2)
	Reverse	First gear		6.6 (4.1)
		Second gear		12.6 (7.8)
		Third gear		25.3 (15.7)

## WITH BOLT-ON CUTTING EDGE TYPE BUCKET (HL960HD XT)

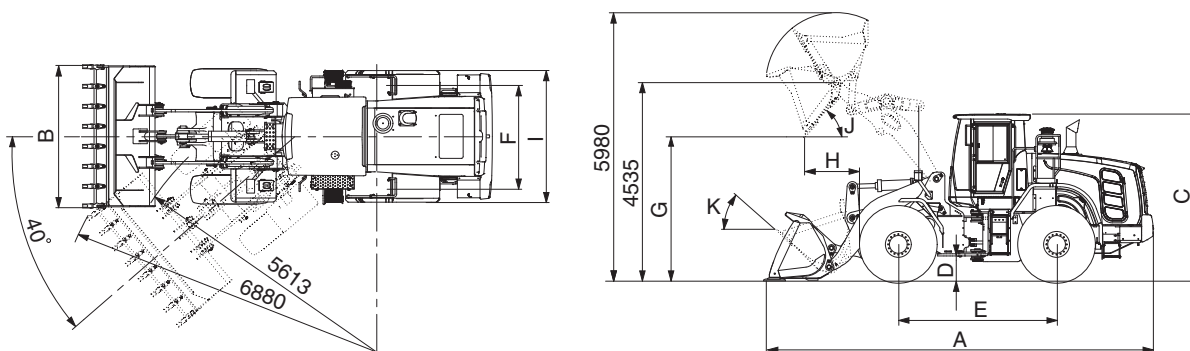


760F2SE03-1

Description			Unit	Specification
Operating weight			kg (lb)	20130 (44380)
Bucket capacity	Struck		m³ (yd³)	2.9 (3.8)
	Heaped			3.3 (4.3)
Overall length	A		mm (ft-in)	8695 (28' 6")
Overall width	B			2900 (9' 6")
Overall height	C			3450 (11' 4")
Ground clearance	D			410 (1' 4")
Wheelbase	E			3300 (10' 10")
Tread	F			2160 (7' 1")
Dump clearance at 45°	G			3365 (11' 0")
Dump reach (full lift)	H			1380 (4' 6")
Width over tires	I			2770 (9' 1")
Dump angle	J		degree (°)	50
Roll back angle (carry position)	K			48
Cycle time	Lift (with load)		sec	5.9
	Dump (with load)			1.3
	Lower (empty)			3.1
Maximum travel speed			km/hr (mph)	38.9 (24.2)
Braking distance			m (ft-in)	12.2 (40' 0")
Minimum turning radius (center of outside tire)				5.61 (18' 5")
Gradeability			degree (°)	30
Breakout force			kg (lb)	16430 (36220)
Travel speed	Forward	First gear	km/hr (mph)	6.3 (3.9)
		Second gear		11.9 (7.4)
		Third gear		24.0 (14.9)
		Fourth gear		38.9 (24.2)
	Reverse	First gear		6.6 (4.1)
		Second gear		12.6 (7.8)
		Third gear		25.3 (15.7)

Description			Unit	Specification
Operating weight			kg (lb)	19225 (42380)
Bucket capacity	Struck		m³ (yd³)	2.8 (3.7)
	Heaped			3.2 (4.2)
Overall length	A		mm (ft-in)	8290 (27' 2")
Overall width	B			2950 (9' 8")
Overall height	C			3450 (11' 4")
Ground clearance	D			410 (1' 4")
Wheelbase	E			3300 (10' 10")
Tread	F			2160 (7' 1")
Dump clearance at 45°	G			2810 (9' 3")
Dump reach (full lift)	H			1370 (4' 6")
Width over tires	I			2770 (9' 1")
Dump angle	J			degree (°)
Roll back angle (carry position)	K		47	
Cycle time	Lift (with load)		sec	5.9
	Dump (with load)			1.3
	Lower (empty)			3.1
Maximum travel speed			km/hr (mph)	38.9 (24.2)
Braking distance			m (ft-in)	12.2 (40' 0")
Minimum turning radius (center of outside tire)				5.61 (18' 5")
Gradeability			degree (°)	30
Breakout force			kg (lb)	17720 (39070)
Travel speed	Forward	First gear	km/hr (mph)	6.3 (3.9)
		Second gear		11.9 (7.4)
		Third gear		24.0 (14.9)
		Fourth gear		38.9 (24.2)
	Reverse	First gear		6.6 (4.1)
		Second gear		12.6 (7.8)
		Third gear		25.3 (15.7)

## WITH TOOTH TYPE BUCKET (HL960HD XT)



760F2SE02-1

Description			Unit	Specification
Operating weight			kg (lb)	20055 (42215)
Bucket capacity	Struck		m³ (yd³)	2.8 (3.7)
	Heaped			3.2 (4.2)
Overall length	A		mm (ft-in)	8845 (29' 0")
Overall width	B			2950 (9' 8")
Overall height	C			3450 (11' 4")
Ground clearance	D			410 (1' 4")
Wheelbase	E			3300 (10' 10")
Tread	F			2160 (7' 1")
Dump clearance at 45°	G			3240 (10' 8")
Dump reach (full lift)	H			1465 (4' 9")
Width over tires	I			2770 (9' 1")
Dump angle	J			degree (°)
Roll back angle (carry position)	K		48	
Cycle time	Lift (with load)		sec	5.9
	Dump (with load)			1.3
	Lower (empty)			3.1
Maximum travel speed			km/hr (mph)	38.9 (24.2)
Braking distance			m (ft-in)	12.2 (40' 0")
Minimum turning radius (center of outside tire)				5.61 (18' 5")
Gradeability			degree (°)	30
Breakout force			kg (lb)	17460 (38490)
Travel speed	Forward	First gear	km/hr (mph)	6.3 (3.9)
		Second gear		11.9 (7.4)
		Third gear		24.0 (14.9)
		Fourth gear		38.9 (24.2)
	Reverse	First gear		6.6 (4.1)
		Second gear		12.6 (7.8)
		Third gear		25.3 (15.7)

### 3. WEIGHT

Item		kg	lb
Front frame assembly		1625	3580
Rear frame assembly		1975	4350
Front fender (LH & RH)		64	143
Counterweight	HL960HD	870	1920
	HL960HD XT	1500	3310
Cab assembly		1070	2360
Engine assembly		520	1150
Transmission assembly (4-speed/5-speed)		535/560	1180/1230
Drive shaft (front)		28	62
Drive shaft (center)		23	51
Drive shaft (rear)		17	37
Front axle (include differential)		1200	2645
Rear axle (include differential)		1090	2400
Tire (23.5 R25, ★ L3)		330	728
Hydraulic tank assembly		166	366
Fuel tank assembly		365	805
Main pump assembly		68	150
Brake pump assembly		12	26
Main control valve (2/3 spool)		58/73	128/161
Steering valve (EHPS)		10	22
Boom assembly	HL960HD	1240	2730
	HL960HD XT	1425	3140
Bell crank assembly		360	794
Bucket link		65	143
3.3 m <sup>3</sup> bucket, with bolt on cutting edge		1830	4030
3.2 m <sup>3</sup> bucket, with tooth		1825	4020
Boom cylinder assembly		171	377
Bucket cylinder assembly (HL960HD)		163	359
Bucket cylinder assembly (HL960HD XT)		181	399
Steering cylinder assembly		29	64
Seat		80	176
Battery		44	97

## 4. SPECIFICATION FOR MAJOR COMPONENTS

### 1) ENGINE

Item	Specification
Model	Cummins QSB6.7
Type	4-cycle turbocharged, charge air cooled diesel engine
Control type	Electronic control
Cooling method	Water cooling
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	107 × 124 mm (4.2" × 4.9")
Piston displacement	6700 cc (408 cu in)
Compression ratio	17.3 : 1
Rated horse power (Gross)	225 hp at 2200 rpm
Maximum torque (1500 rpm)	106 kgf · m (770 lbf · ft)
Engine oil quantity	18 l (4.8 U.S. gal)
Wet weight	520 kg (1146 lb)
High idling speed	2230 ± 50 rpm
Low idling speed	800 ± 25 rpm
Rated fuel consumption (at rated)	213 g/kW · hr
Starting motor	Denso PA90L (24V-7.8kW)
Alternator	Denso, 24V-95Amp
Battery	2 × 12V × 160Ah

## 2) MAIN PUMP

Item	Specification	
	Steering	Loader
Type	Variable piston pump	
Capacity	60 cc/rev	63 cc/rev
Maximum operating pressure	280 kgf/cm <sup>2</sup> (3980 psi)	
Rated oil quantity	120 l /min (31.7 U.S.gpm)	126 l /min (33.3 U.S.gpm)
Maximum speed	2230 rpm	

## 3) FAN AND BRAKE PUMP

Item	Specification
Type	Variable piston pump
Capacity	28 cc/rev
Maximum operating pressure	250 kgf/cm <sup>2</sup> (3560 psi)
Rated oil quantity	56 l /min (14.8 U.S.gpm)
Maximum speed	2230 rpm

## 4) MAIN CONTROL VALVE

Item	Specification
Type	2 spool
Operating method	Hydraulic pilot assist
System pressure	280 kgf/cm <sup>2</sup> (3980 psi)
Overload relief valve pressure	340 kgf/cm <sup>2</sup> (4840 psi) / *300 kgf/cm <sup>2</sup> (4270 psi)

\* : Bucket dump

## 5) ELECTRO-HYDRAULIC BLOCK

Item	Specification
Type	Proportional pressure reducing valve
Control current	0~950 mA
Resistance	10.5 Ω
Normal flow	12 l /min (3.17 U.S.gpm)

## 6) REMOTE CONTROL VALVE (EH TYPE)

Item	Specification
Type	Fingertip
Axle	Single axle for boom, bucket, auxiliary
Operating voltage	4.5~5.5 V
Output signal	0.5~4.5 V (neutral 2.5 V)



## 7) REMOTE CONTROL VALVE (FNR TYPE)

Item	Specification
Type	Joystick
Axle	Two axle for boom, bucket, roller for auxiliary
Operating type	CAN J1939
Baud rate	500 Kbps

## 8) CYLINDER

Item	Specification
Boom cylinder	Bore dia × Rod dia × Stroke ø 140 × ø 80 × 765 mm
Bucket cylinder	Bore dia × Rod dia × Stroke ø 160 × ø 85 × 530 mm
Steering cylinder	Bore dia × Rod dia × Stroke ø 75 × ø 45 × 424 mm

## 9) DYNAMIC POWER TRANSMISSION DEVICES

Item			Specification
4-speed transmission (std)	Model		ZF 4WG 210
	Type	Converter	Single-stage, single-phase
		Transmission	Full-automatic power shift
	Gear shift		Forward fourth gear, reverse third gear
	Control		Electrical single lever type, kick-down system
	Travel speed		See the page 2-2.
5-speed transmission (opt)	Model		ZF 5WG210
	Type	Converter	Single-stage, double-phase (with lock up clutch)
		Transmission	Full-automatic power shift
	Gear shift		Forward fifth gear, reverse third gear
	Control		Electrical single lever type, kick-down system
	Travel speed	Forward 1/2/3/4/5	6.6 / 11.6 / 17.9 / 27.9 / 40.0 km/hr
		Reverse 1/2/3	7.1 / 12.3 / 29.4 km/hr
Axle	Drive devices		4-wheel drive
	Front		Front fixed location
	Rear		Oscillation ± 12° of center pin-loaded
Wheels	Tires		23.5 R25, ★(L3)
Brakes	Travel		Four-wheel, wet-disc type, full hydraulic
	Parking		Spring applied, hydraulic released brake on transmission
Steering	Type		Full hydraulic, articulated
	Steering angle		40° to both right and left angle, respectively
	Relief pressure		235 kgf/cm² (3340 psi)