

Engine

Engine Model	Cat C9 with ACERT Technology
Net Flywheel Power	200 kW
Net Power – ISO 9249	200 kW
Bore	112 mm
Stroke	149 mm
Displacement	8.8 L

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- No engine derating needed up to 2300 m.

Weights

Operating Weight – Std. Undercarriage	33 750 kg
Operating Weight – Long Undercarriage	35 020 kg

- Reach boom, R3.2DB Stick, 1.4 m³ Bucket, 600 mm Shoes
- Reach boom, R3.2DB Stick, 1.5 m³ Bucket, 700 mm Shoe

Track

Standard w/Standard Undercarriage	700 mm
Standard w/Long Undercarriage	800 mm
Optional – Double Grouser	600 mm

Swing Mechanism

Swing Speed	10 rpm
Swing Torque	108.6 kN•m

Drive

Maximum Drawbar Pull	300 kN
Maximum Travel Speed	5 km/h

Hydraulic System

Main Implement System – Maximum Flow (2x)	280 L/min
Max. Pressure – Equipment	35 000 kPa
Max. Pressure – Travel	35 000 kPa
Max. Pressure – Swing	28 000 kPa
Pilot System – Maximum Flow	43 L/min
Pilot System – Maximum Pressure	3900 kPa
Boom Cylinder – Bore	150 mm
Boom Cylinder – Stroke	1440 mm
Stick Cylinder – Bore	170 mm
Stick Cylinder – Stroke	1738 mm
DB Family Bucket Cylinder – Bore	150 mm
DB Family Bucket Cylinder – Stroke	1151 mm
TB1 Family Bucket Cylinder – Bore	160 mm
TB1 Family Bucket Cylinder – Stroke	1356 mm

Service Refill Capacities

Fuel Tank Capacity	620 L
Cooling System	40 L
Engine Oil	40 L
Swing Drive	19 L
Final Drive (each)	8 L
Hydraulic System (including tank)	410 L
Hydraulic Tank	175 L

Sound Performance

Performance	ANSI/SAE J1166 OCT 98
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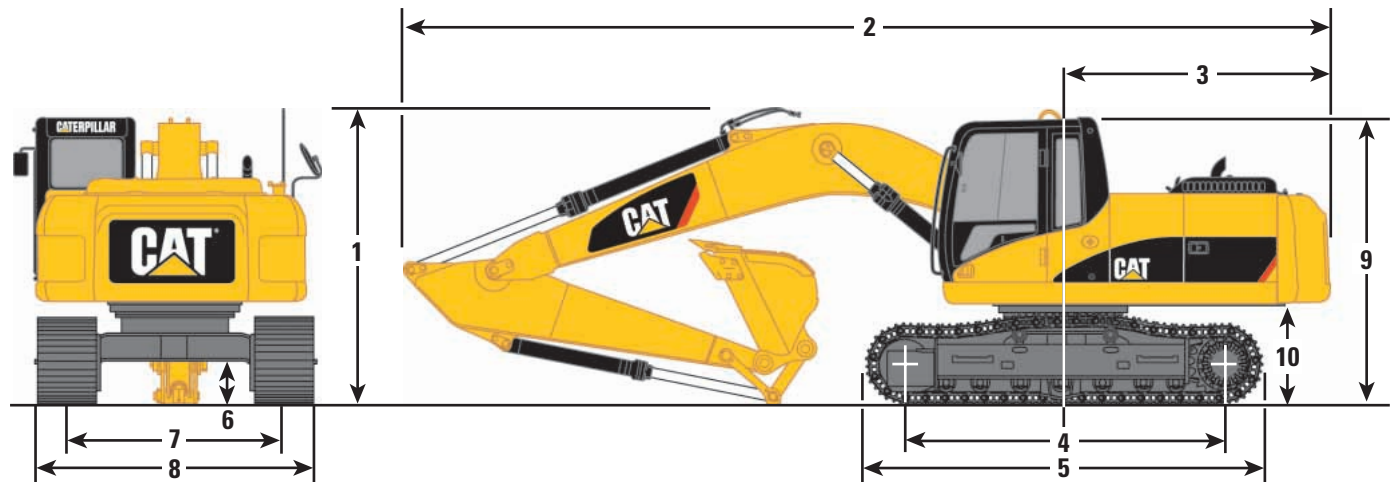
- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT 98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.

Standards

Brakes	SAE J1026 APR90
Cab/FOGS	SAE J1356 FEB88 ISO 10262

Dimensions

All dimensions are approximate.



Boom Options		Reach Boom 6.5 m			Mass Boom 6.18 m	
Stick Options		R3.9DB	R3.2DB	R2.8DB	R2.15TB1	M2.55TB1
1	Shipping height**	3700 mm	3340 mm	3570 mm	3540 mm	3650 mm
2	Shipping length	11 200 mm	11 150 mm	11 210 mm	11 500 mm	10 910 mm
3	Tail swing radius	3500 mm	3500 mm	3500 mm	3500 mm	3500 mm
Undercarriage		Fixed Gauge			Long Fixed Gauge	
4	Length to center of rollers	3610 mm			4040 mm	
5	Track length	4590 mm			5020 mm	
6	Ground clearance***	450 mm			450 mm	
7	Track gauge	2590 mm			2590 mm	
8	Track width*	3190 mm			3290 mm	
9	Cab height**	3140 mm			3140 mm	
10	Counterweight clearance***	1220 mm			1220 mm	

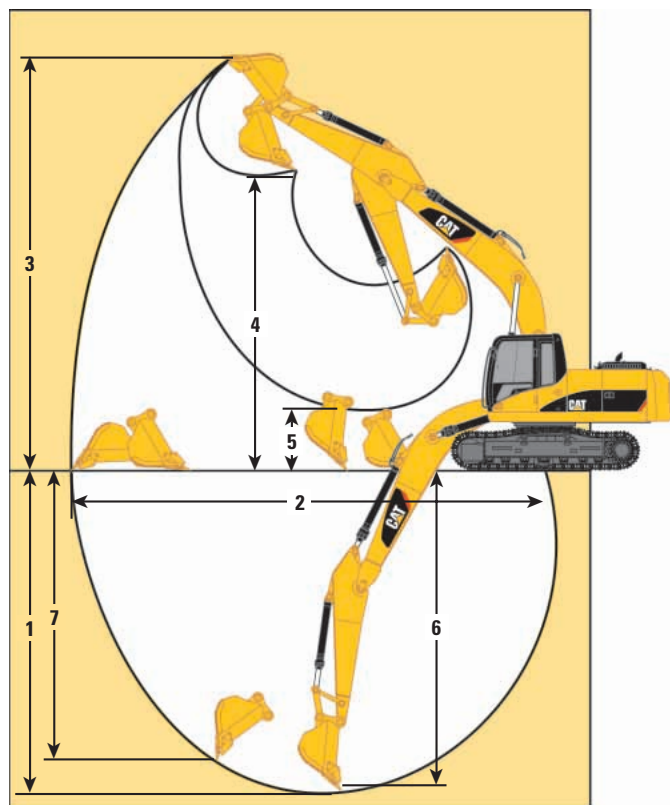
* Track width shown is for 600 mm track shoes for Fixed Gauge and 700 mm for Long Fixed Gauge.

** Includes 30 mm shoe lug height.

*** Without 30 mm shoe lug height.

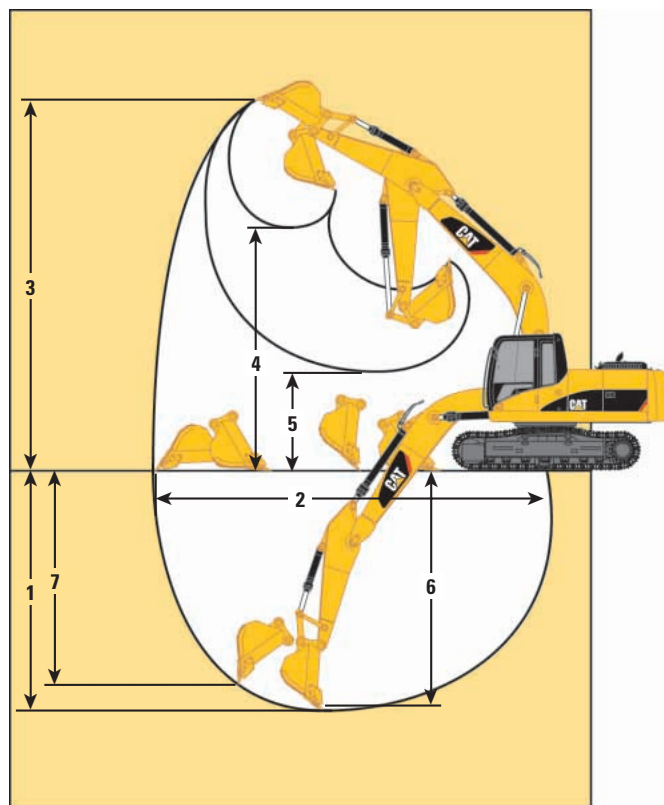
Reach Excavator Working Ranges

Reach (R) boom configuration



Mass Excavator Working Ranges

Mass (M) boom configuration



Boom Options

Reach Boom 6.5 m

Mass Boom 6.18 m

Stick Options	R3.9DB	R3.2DB	R2.8DB	R2.15TB1	M2.55TB1	M2.15TB1
1 Maximum digging depth	8090 mm	7390 mm	6990 mm	6500 mm	6570 mm	6170 mm
2 Maximum reach at ground level	11 640 mm	10 920 mm	10 620 mm	10 070 mm	10 180 mm	9760 mm
3 Maximum cutting height	10 710 mm	10 240 mm	10 300 mm	9820 mm	10 070 mm	9740 mm
4 Maximum loading height	7640 mm	7200 mm	7200 mm	6530 mm	6690 mm	6410 mm
5 Minimum loading height	2010 mm	2710 mm	3110 mm	3590 mm	3000 mm	3400 mm
6 Maximum depth cut for 2240 mm level bottom	7960 mm	7230 mm	6820 mm	6280 mm	6400 mm	5970 mm
7 Maximum vertical wall digging depth	6700 mm	5830 mm	5770 mm	4800 mm	5340 mm	4710 mm
Bucket digging force (SAE)	198 kN	198 kN	198 kN	234 kN	234 kN	234 kN
(ISO)	222 kN	222 kN	222 kN	264 kN	264 kN	264 kN
Stick digging force (SAE)	143 kN	164 kN	183 kN	215 kN	185 kN	215 kN
(ISO)	146 kN	169 kN	188 kN	224 kN	192 kN	224 kN

Major Component Weights

		kg
Base machine with counterweight and 800 mm shoes (without front linkage)	With 600 mm Shoe	26 160
	With 700 mm Shoe	27 390
Two boom cylinders (Each)		320
Counterweight		
Non-removal type		6020
Boom (includes lines, pins and stick cylinder)		
Reach boom		3227
Mass boom		3255
Stick (includes lines, pins, bucket cylinder and linkage)		
R3.9DB		2012
R3.2DB		1867
R2.8DB		1792
R2.15TB1		2011
M2.55TB1		2079
M2.15TB1		2011
Track roller frame [includes frame, rollers, idlers, steps, guards, final drive, 800 mm shoes] – each	With 600 mm Shoe	11 980
	With 700 mm Shoe	13 210

336D/336D L Work Tool Matching Guide

Boom Options	Reach Boom 6.5 m				Mass Boom 6.18 m	
Stick Options	R3.9DB	R3.2DB	R2.8DB	R2.15TB1	M2.55TB1	M2.15TB1
Hydraulic Hammer	H130s/ H140Ds/ H160Ds	H130s/ H140Ds/ H160Ds	H130s/ H140Ds/ H160Ds	H130s/ H140Ds/ H160Ds	H130s/ H140Ds/ H160Ds	H130s/ H140Ds/ H160Ds
Vibratory Plate Compactor	CVP110	CVP110	CVP110	CVP110	CVP110	CVP110
Multi-Processor	MP20	MP20	MP20	n/a	n/a	n/a
360 Scrap Shear	S320	S320	S320	n/a	n/a	n/a
Trash Grapple	4.4 m ³ 5.8 m ³	4.4 m ³ 5.8 m ³	4.4 m ³ 5.8 m ³	n/a	n/a	n/a
Dedicated Quick Coupler	yes	yes	yes	yes	yes	yes
Pin-Grabber Quick Coupler	yes	yes	yes	yes	yes	yes
Contractors' Grapple	yes	yes	yes	yes	n/a	n/a
Hydraulic Thumb	yes	yes	yes	yes	n/a	n/a

336D Bucket Specifications and Compatibility

	Capacity	Width	Tip Radius	Weight (w/o tips)	Teeth	Total Weight	Reach Stick			Mass Stick		
	m ³	mm	mm	kg	Qty	kg	R3.9DB	R3.2DB	R2.8DB	R2.15TB1	M2.55TB1	M2.15TB1
DB Buckets												
Excavation	1.4	1472	1660	1124	5	1124	●	●	●	—	—	—
	1.5	1559	1660	1167	5	1167	◐	●	●	—	—	—
Heavy Duty	1.4	1500	1691	1305	5	1305	◐	●	●	—	—	—
	1.5	1585	1691	1352	5	1352	◐	●	●	—	—	—
Mass Excavation	1.6	1538	1660	1214	6	1214	◐	●	●	—	—	—
	1.9	1780	1660	1336	6	1336	○	◐	◐	—	—	—
TB Buckets												
Excavation	1.6	1360	1821	1405	4	1405	—	—	—	●	●	●
	1.9	1560	1821	1546	5	1546	—	—	—	●	●	●
	2.0	1628	1821	1583	5	1583	—	—	—	◐	◐	●

336D L Bucket Specifications and Compatibility

	Capacity	Width	Tip Radius	Weight (w/o tips)	Teeth	Total Weight	Reach Stick			Mass Stick		
	m ³	mm	mm	kg	Qty	kg	R3.9DB	R3.2DB	R2.8DB	R2.15TB1	M2.55TB1	M2.15TB1
DB Buckets												
Excavation	1.4	1472	1660	1124	5	1124	●	●	●	—	—	—
	1.5	1559	1660	1167	5	1167	●	●	●	—	—	—
Heavy Duty	1.4	1500	1691	1305	5	1305	●	●	●	—	—	—
	1.5	1585	1691	1352	5	1352	●	●	●	—	—	—
Mass Excavation	1.6	1538	1660	1214	6	1214	◐	●	●	—	—	—
	1.9	1780	1660	1336	6	1336	○	◐	●	—	—	—
TB Buckets												
Excavation	1.6	1360	1821	1405	4	1405	—	—	—	●	●	●
	1.9	1560	1821	1546	5	1546	—	—	—	●	●	●
	2.0	1628	1821	1583	5	1583	—	—	—	◐	●	●

Assumptions for maximum material density rating:

1. Front linkage fully extended at ground line
2. Bucket curled
3. 100% bucket fill factor

* Based on SAE J296, some calculations of capacity specs fall on borderlines. Rounding may allow two buckets to have the same English rating, but different metric ratings.

- 2100 kg/m³ max material density
- ◐ 1800 kg/m³ max material density
- 1500 kg/m³ max material density
- ∴ 1200 kg/m³ max material density
- Not Available

Reach Boom Lift Capacities



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

R3.2DB STICK – 3200 mm
BUCKET – 1.5 m³

UNDERCARRIAGE – Long
SHOES – 600 mm triple grouser

BOOM – 6500 mm

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m
																
9.0 m	kg													*3900	*3900	8.27
7.5 m	kg									*6450	6350			*3700	*3700	9.43
6.0 m	kg									*6700	6300			*3650	3500	10.16
4.5 m	kg							*8450	*8450	*7350	6050	*6750	4250	*3700	3100	10.59
3.0 m	kg					*13 750	13 050	*10 050	8300	*8200	5750	6950	4100	*3900	2950	10.76
1.5 m	kg					*16 350	11 900	*11 500	7700	*9050	5400	6800	3950	*4200	2900	10.67
Ground Line	kg			*6800	*6800	*17 500	11 300	*12 450	7300	8900	5200	6650	3850	*4700	3050	10.33
-1.5 m	kg	*8150	*8150	*12 000	*12 000	*17 500	11 150	12 550	7100	8750	5050	6600	3800	*5450	3400	9.71
-3.0 m	kg	*13 350	*13 350	*18 300	*18 300	*16 500	11 250	*12 250	7100	8800	5050			*6750	4100	8.74
-4.5 m	kg			*19 800	*19 800	*14 350	11 550	*10 700	7300					*5950	5750	7.28
-6.0 m	kg					*10 050	*10 050							*7750	*7750	5.47

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

R2.8DB STICK – 2800 mm
BUCKET – 1.6 m³

UNDERCARRIAGE – Long
SHOES – 600 mm triple grouser

BOOM – 6500 mm

		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m
														
9.0 m	kg											*4900	*4900	7.85
7.5 m	kg							*6850	6250			*4600	4450	9.07
6.0 m	kg							*7100	6150			*4500	3700	9.84
4.5 m	kg			*11 400	*11 400	*8950	8800	*7700	5950	7000	4150	*4550	3250	10.29
3.0 m	kg			*14 600	12 750	*10 500	8150	*8500	5650	6900	4050	*4750	3050	10.46
1.5 m	kg			*16 900	11 700	*11 850	7650	9150	5400	6750	3900	*5100	3050	10.37
Ground Line	kg			*17 650	11 250	*12 650	7300	8900	5150	6650	3850	5600	3200	10.02
-1.5 m	kg	*11 400	*11 400	*17 300	11 200	12 600	7150	8800	5100			6250	3600	9.38
-3.0 m	kg	*19 250	*19 250	*16 000	11 350	*12 000	7200	8850	5150			*6750	4450	8.36
-4.5 m	kg	*18 150	*18 150	*13 500	11 750	*10 000	7450					*5900	*5900	6.82

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Reach Boom Lift Capacities



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

R3.2DB STICK – 3200 mm
BUCKET – 1.5 m³

UNDERCARRIAGE – Standard
SHOES – 600 mm triple grouser

BOOM – 6500 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m
															
9.0 m kg													*3900	*3900	8.27
7.5 m kg									*6450	6200			*3700	*3700	9.43
6.0 m kg									*6700	6150			*3650	3400	10.16
4.5 m kg							*8450	*8450	*7350	5900	5950	4150	*3700	3000	10.59
3.0 m kg					*13 750	12 750	*10 050	8100	7950	5600	5750	4000	*3900	2850	10.76
1.5 m kg					*16 350	11 600	10 900	7500	7600	5250	5600	3850	4200	2800	10.67
Ground Line kg			*6800	*6800	16 850	11 000	10 500	7100	7350	5000	5450	3700	4400	2900	10.33
-1.5 m kg	*8150	*8150	*12 000	*12 000	16 650	10 850	10 250	6900	7200	4900	5400	3650	4850	3250	9.71
-3.0 m kg	*13 350	*13 350	*18 300	*18 300	*16 500	10 950	10 250	6900	7250	4900			5850	4000	8.74
-4.5 m kg			*19 800	*19 800	*14 350	11 250	10 500	7100					*5950	5550	7.28
-6.0 m kg					*10 050	*10 050							*7750	*7750	5.47

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

Mass Boom Lift Capacities



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

M2.55TB1 STICK – 2550 mm
BUCKET – 1.9 m³

UNDERCARRIAGE – Long
SHOES – 600 mm triple grouser

BOOM – 6180 mm

	3.0 m		4.5 m		6.0 m		7.5 m				m
											
7.5 m kg									*3850	*3850	8.56
6.0 m kg					*7800	*7800	*7250	5800	*3750	3750	9.37
4.5 m kg			*11 300	*11 300	*8950	8500	*7750	5600	*3800	3250	9.83
3.0 m kg			*14 250	12 450	*10 350	7850	*8450	5350	*4000	3000	9.99
1.5 m kg			*16 450	11 300	*11 600	7300	8800	5050	*4350	3000	9.87
Ground Line kg			*17 150	10 800	*12 250	6900	8600	4850	*4900	3200	9.48
-1.5 m kg	*15 350	*15 350	*16 650	10 750	*12 200	6800	8500	4750	*5800	3750	8.76
-3.0 m kg	*20 700	*20 700	*15 050	10 950	*11 200	6900			*6400	4950	7.62
-4.5 m kg	*15 900	*15 900	*11 850	11 500	*8200	7300			*8100	7250	6.04

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for details.

Upper Structure

Electrical

- Alternator, 80A
- Light, storage box mounted (one)
- Signaling/Warning horn

Engine

- Cat C9 with ACERT Technology
- Cooling package, high ambient, 48° C with VSF for standard power
- 2300 m altitude capability with no deration
- Air intake heater
- Automatic engine speed control
- EU Stage II compliant
- Radial seal air filter
- Water separator in fuel line
- Waved fin radiator with space for cleaning
- 2 micron fuel filter
- Automatic swing parking brake
- Boom drift reducing valve
- Boom lowering device for back-up
- Caterpillar one key security system
- Counterweight
- Door locks and cap locks
- Mirrors, rearview (frame-right, cab-left)
- Regeneration circuit for boom and stick
- Reverse swing damping valve
- Stick drift reducing valve
- Two speed travel

Operator Station

Cab

- Adjustable armrest
- Ashtray with lighter
- Beverage holder
- Bi-Level air conditioner (automatic) with defroster
- Bolt-on FOGS capability
- Capability of installing two additional pedals
- Coat hook
- Front windshield glass split 70/30
- Interior lighting
- Literature holder
- Mounting for two stereo speakers (two locations)
- Neutral lever (lock out) for all controls
- Openable front windshield with assist device
- Openable skylight
- Pillar mounted upper windshield wiper and washer
- Pressurized cab (positive filtered ventilation)
- Radio mounting (DIN size)
- Rear window, emergency exit
- Removable lower windshield with in-cab storage bracket
- Seat with integrated, adjustable console
- Seat belt, retractable (50.8 mm width)
- Sliding upper door window
- Storage compartment suitable for lunch box
- Travel control pedals with removable hand levers
- Utility space for magazine
- Washable floor mat

Monitor

- Economy mode
- Full time clock
- Language display – Full color and graphical display
- Machine condition, error code and tool mode setting
- Start-up level check for hydraulic oil, engine oil and coolant
- Warning information, filter/fluid change information and working hour

Undercarriage

- Grease lubricated GLT2, resin seal
- Idler and center section track guiding
- 800 mm triple grouser track shoe (336D L)
- 700 mm triple grouser track shoes (336D)

Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for details.

Front Linkage

- Bucket linkage, DB-family with lifting eye
- Bucket linkage, TB1-family with lifting eye
- Heavy-duty 6.5 m reach boom (with left and right side light)
- Heavy-duty 3.2 m stick for heavy-duty reach boom
- Heavy-duty 2.8 m stick for heavy-duty reach boom
- Reach boom 6.5 m with left and right side light
 - R3.9DB 3900 mm stick
 - R3.2DB 3000 mm stick
 - R2.8DB 2800 mm stick
 - R2.15TB1 2150 mm stick
- Mass boom 6.18 m with left and right side light
 - M2.55TB1 2550 mm stick
 - M2.15TB1 2150 mm stick

Track

- Standard undercarriage
 - 700 mm triple grouser shoes
 - 800 mm triple grouser shoes
- Long undercarriage
 - 600 mm triple grouser shoes
 - 700 mm triple grouser shoes

Guards

- FOGS, bolt-on
- Guard, cab front
- Guard, cab top
- Guard, full length for long undercarriage (two piece)
- Guard, heavy-duty bottom, 4 mm, without swivel guard and travel motor protection
- Guard, track end guide for long undercarriage
- Guard, track end guide for standard undercarriage
- Guard, vandalism
- Heavy-duty swivel protection, 16 mm, swivel guard only
- Heavy-duty travel motor protection
- Net for front guard (full net, one piece)
- Net for front guard (half net, one piece)
- Swivel protection, 6 mm, swivel guard only

Auxiliary Hydraulics and Lines

- Additional circuit
 - Hammer return filter circuit
- Boom and stick lines
 - Cat quick coupler line (high and medium pressure capable)
 - Drain line
 - High pressure line
 - Medium pressure line
- Quick coupler
 - Quick coupler for high pressure
- Tool control system
 - Configuration 1 (hammer 1), foot pedal operated 1P, one-way circuit
 - Configuration 2 (common), foot pedals operated 1/2P, common circuit
 - Configuration 3 (hammer 2), foot pedal operated 2P, one-way circuit

Operator Station

- Tempered glass windows
- Polycarbonate windows
- Power supply, 12V-7A (1)
- Power supply, 12V-7A (2)
- Rear window emergency exit
- Seat, high-back air suspension
- Seat, high-back air suspension with heater
- Seat, high-back mechanical suspension
- Seat, low-back suspension without headrest
- Headrest
- Sunscreen
- Windshield wiper, lower with washer
- Working lights, cab mounted
- Rain protector for front windshield
- Sun visor
- AM/FM radio
- Control pattern quick-changer, two way
- Control pattern quick-changer, four way
- Cat MSS (anti-theft device)
- Lunch box with cover
- Water level indicator for water separator

Other Optional Equipment

- Additional gear train for auxiliary pump
- Air pre-filter
- Electric refueling pump with auto shut off
- Fine swing
- Starting kit, cold weather, -32° C
- Travel alarm