

# Cat<sup>®</sup>

# 323F SA

## Special Alpine Hydraulic Excavator



### Introduction

The Cat<sup>®</sup> 323F SA Hydraulic Excavator is the perfect choice for contractors who need maximum production coupled with best-in-class fuel efficiency. Powered by a C4.4 ACERT<sup>™</sup> engine, the machine features a state-of-the-art hydraulic system and standard Cat Grade Control to do all your accurate digging.

### Technology

- Get to grade quickly and accurately with standard Cat Grade Control, a simple-to-use system that provides real-time bucket tip positioning and cut-and-fill data right through the standard cab monitor.
- Get to grade up to 45% faster with less effort with Cat Grade with ASSIST, a system that automates work you typically do with manual controls.
- Easily upgrade to AccuGrade<sup>™</sup>, a 3D system that will help you make perfect cuts and contours on more complex jobs.

### Performance

- Dig with maximum breakout force at all times regardless of engine speed and power mode.
- Lift objects smoothly and controllably without time limit using the optional heavy lift function.
- Stay productive with a smart emissions system that works without interruption.

### Efficiency

- Meets EU Stage IV emission standards with 5% less fuel consumption than the Stage IIIB C6.6 ACERT engine.
- Actively manage fuel consumption in changing digging conditions using three selectable power modes.
- Take advantage of fuel-saving flexibility with up to B20 biofuel capability.

### Versatility

- Maximize your uptime by speeding attachment changes with optional Cat couplers.
- Get to work more quickly with Cat tool control, an exclusive system that stores pressures and flows for up to 20 attachments.
- Expand your performance with optional auxiliary hydraulics and attachments from Cat Work Tools.

### Maintenance

- Spend less time servicing the machine with extended maintenance intervals and a maintenance-free diesel particulate filter.
- Safely perform most routine maintenance like daily greasing and fluid taps from ground level.
- Access service compartments through wide doors that securely latch in place.

### Comfort

- Work in quiet satisfaction with viscous mounts that limit cab vibration and special roof lining and sealing that reduce interior sound.
- Stay content with a consistent cab temperature provided by standard automatic climate control.
- All heated seats include a reclining back, upper and lower slide adjustments, and height and tilt angle adjustments.



# 323F SA (Special Alpine) Hydraulic Excavator Specifications

## Undercarriage

- Stronger, heavier, narrower undercarriage than the 323F, with larger undercarriage components.
- Specifically designed for work in severe-duty underfoot conditions.
- Narrow gauge (shipping width 2500 mm) for easy transport.

Engine	
Engine Model	Cat C4.4 ACERT
Engine Power – ISO 14396	122 kW/164 hp/166 ps
Net Power – SAE J1349	120 kW/161 hp/163 ps
Engine rpm	
Operation	1,800 rpm
Travel	1,800 rpm
Bore	105 mm
Stroke	127 mm
Displacement	4.4 L

Weights	
Minimum Weight	24 400 kg
Maximum Weight	25 600 kg

- Minimum Operating Weight: Long narrow undercarriage, Reach boom 5.7 m, R2.5 stick, GD 1.3 m<sup>3</sup> bucket and 550 mm triple grouser shoes.
- Maximum Operating Weight: Long narrow undercarriage, VA boom, R2.9, GD 1.3 m<sup>3</sup> bucket and 550 mm triple grouser shoes.

Hydraulic System	
Main System – Maximum Flow (Total)	428 L/min
Swing System – Maximum Flow	214 L/min
Maximum Pressure – Equipment	35 000/38 000 kPa
Maximum Pressure – Travel	35 000 kPa
Maximum Pressure – Swing	25 000 kPa
Pilot System – Maximum Flow	24.3 L/min
Pilot System – Maximum Pressure	3920 kPa
Boom Cylinder – Bore	120 mm
Boom Cylinder – Stroke	1260 mm
Stick Cylinder – Bore	140 mm
Stick Cylinder – Stroke	1504 mm
B1 Bucket Cylinder – Bore	120 mm
B1 Bucket Cylinder – Stroke	1104 mm

Drive	
Maximum Travel Speed	4.6 km/h
Maximum Drawbar Pull	251 kN

Swing Mechanism	
Swing Speed	11.2 rpm
Maximum Swing Torque	72 kN·m

Service Refill Capacities	
Fuel Tank Capacity	310 L
DEF Tank Capacity	21 L
Cooling System	30 L
Engine Oil (with filter)	25 L
Swing Drive	8 L
Final Drive (each)	8 L
Hydraulic System Oil Capacity (including tank)	260 L
Hydraulic Tank Oil	153 L

Track	
Number of Shoes (each side)	45 pieces
Number of Track Rollers (each side)	7 pieces
Number of Carrier Rollers (each side)	2 pieces

Sound Performance	
ISO 6396	
Operator Sound	68 dB(A)
ISO 6395	
Spectator Sound	99 dB(A)

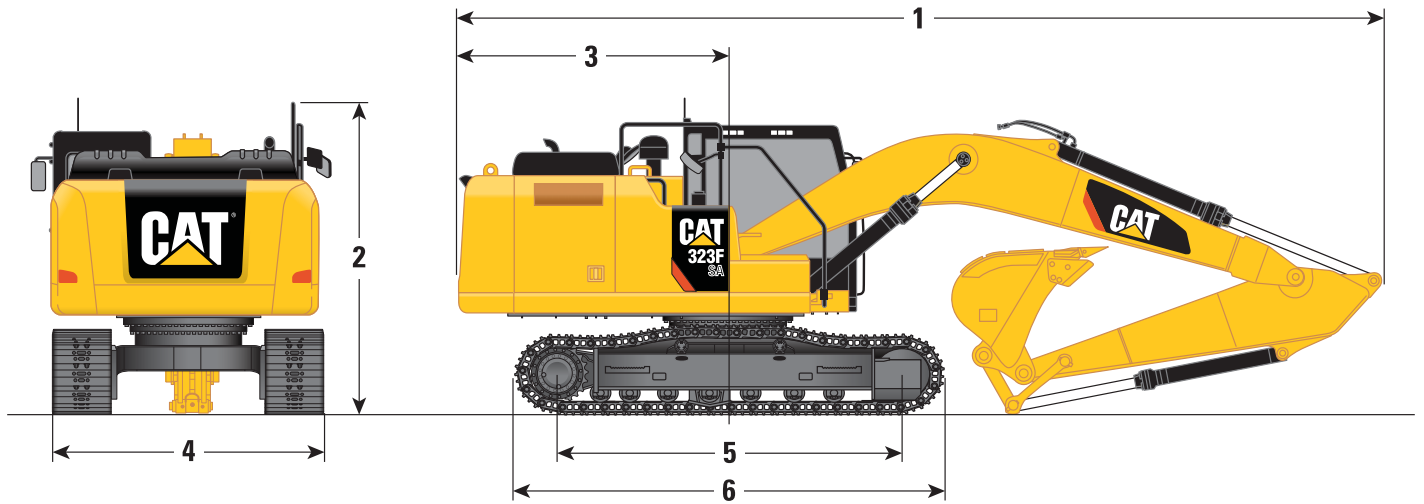
- Operator Sound – The operator sound level is measured according to the procedures specified in ISO 6394:1998, for cab offered by Caterpillar, when properly installed and maintained and tested with doors and windows closed.
- Exterior Sound – The labeled spectator sound power level is measured according to the test procedures and conditions specified in 2004/14/EC.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in a noisy environment.

Standards	
Brakes	ISO 10265:2008
Cab/FOGS	ISO 10262:1998
Cab/ROPS	ISO 12117-2:2008

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## 323F SA Dimensions

All dimensions are approximate.



Boom Options	Reach Boom		Variable Angle Boom	
	2.9 m	2.5 m	2.9 m	2.5 m
Stick Options				
Bucket Options	1.19 m <sup>3</sup>	1.3 m <sup>3</sup>	1.3 m <sup>3</sup>	1.3 m <sup>3</sup>
Shipping Weight	24 424 kg	24 432 kg	25 582 kg	25 565 kg
1 Overall Length	9560 mm	9570 mm	9820 mm	9820 mm
2 Overall Height	3100 mm	3100 mm	3100 mm	3100 mm
3 Swing Radius	2830 mm	2830 mm	2830 mm	2830 mm
4 Overall Width – 550 mm	2500 mm	2500 mm	2500 mm	2500 mm
5 Length to Centers of Rollers	3490 mm	3490 mm	3490 mm	3490 mm
6 Length of Track	4360 mm	4360 mm	4360 mm	4360 mm

The operator station is ROPS certified up to a mass of 27 786 kg per ISO 12117-2:2008.

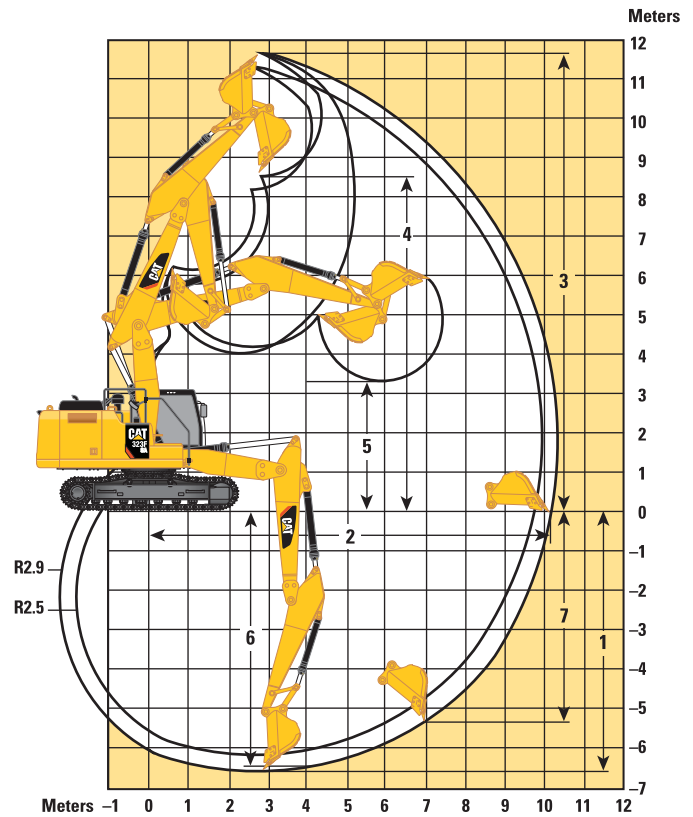
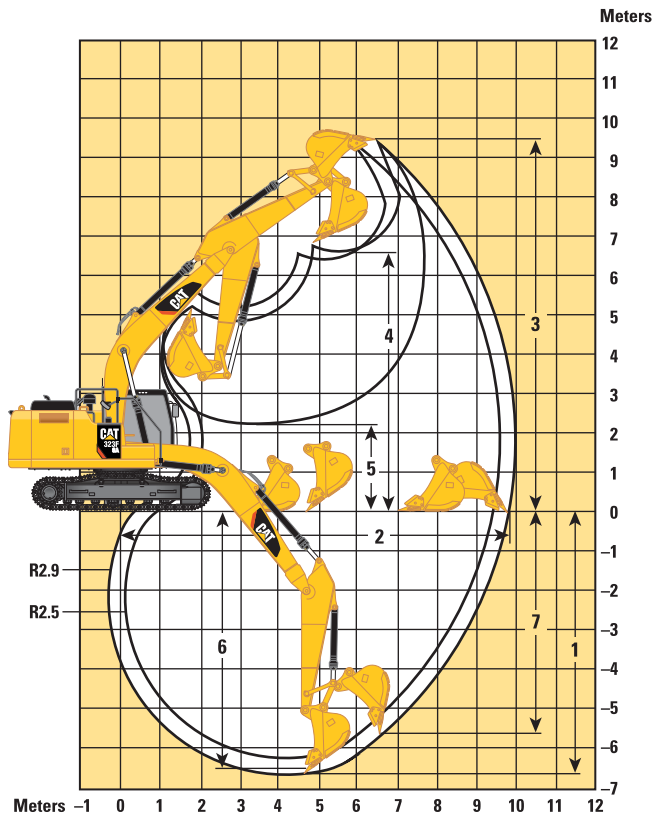
## 323F SA Bucket and Stick Forces

Stick	Reach Boom 5.7 m		Variable Angle Boom	
	R2.9 kN	R2.5 kN	R2.9 kN	R2.5 kN
Bucket Digging Force (SAE)	126	126	126	126
Bucket Digging Force (ISO)	140	140	140	140
Stick Digging Force (SAE)	104	115	108	116
Stick Digging Force (ISO)	107	118	108	115

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## 323F SA Working Ranges



















All dimensions are approximate.





















Boom Options	Reach Boom 5.7 m		Variable Angle Boom 2.4 m Stub/3.3 m Fore	
	R2.9	R2.5	R2.9	R2.5
<b>Stick Options</b>				
1 Maximum Digging Depth	6640 mm	6220 mm	6610 mm	6200 mm
2 Maximum Reach at Ground Line	9840 mm	9440 mm	10 190 mm	9780 mm
3 Maximum Cutting Height	9520 mm	9320 mm	11 590 mm	11 250 mm
4 Maximum Loading Height	6580 mm	6380 mm	8480 mm	8140 mm
5 Minimum Loading Height	2260 mm	2680 mm	3340 mm	3740 mm
6 Maximum Depth Cut for 2440 mm Level Bottom	6470 mm	6020 mm	6510 mm	6090 mm
7 Maximum Vertical Wall Digging Depth	5610 mm	5210 mm	5270 mm	4870 mm
Bucket Type	GD	GD	GD	GD
Bucket Capacity	1.3 m <sup>3</sup>	1.3 m <sup>3</sup>	1.3 m <sup>3</sup>	1.3 m <sup>3</sup>

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## Reach Boom Lift Capacities with a 2.9 m Stick

		2000 mm		3000 mm		4000 mm		5000 mm		6000 mm		7000 mm		8000 mm				mm	
																			
8000 mm	kg																*4050	*4050	5710
7000 mm	kg									*4850	4850						*3750	*3750	6650
6000 mm	kg									*4900	4900	*4950	3950				*3650	*3650	7330
5000 mm	kg									*5200	4950	*5050	3900				*3550	*3250	7820
4000 mm	kg					*7350	*7350	*6300	6250	*5650	4800	*5300	3850	*4550	3150		*3600	*3050	8160
3000 mm	kg					*9000	8200	*7200	6000	*6200	4650	*5600	3750	*5250	3100		*3650	*2850	8370
2000 mm	kg					*10 500	7750	*8100	5750	*6800	4500	*6000	3650	5350	3050		*3800	*2800	8450
1000 mm	kg					*11 500	7450	*8850	5550	*7300	4350	*6300	3550	5300	2950		*4000	*2800	8410
0 mm	kg			*6400	*6400	*11 950	7300	*9300	5400	*7650	4300	6350	3500	5300	2950		*4300	*2850	8240
-1000 mm	kg	*6000	*6000	*9350	*9350	*11 950	7250	*9450	5350	*7800	4200	6300	3450				*4750	*2950	7950
-2000 mm	kg	*9250	*9250	*12 850	11 250	*11 650	7300	*9350	5350	*7700	4200	6300	3450				*5450	*3200	7510
-3000 mm	kg	*12 850	*12 850	*13 850	11 400	*10 950	7350	*8850	5400	*7300	4250						*6000	*3600	6900
-4000 mm	kg	*15 900	*15 900	*12 150	11 600	*9700	7500	*7850	5500	*6150	4350						*6100	*4350	6050
-5000 mm	kg					*7500	7500										*6150	*6150	4750

		2000 mm		3000 mm		4000 mm		5000 mm		6000 mm		7000 mm		8000 mm				mm	
																			
8000 mm	kg																*4450	*4450	5710
7000 mm	kg									*5350	5100						*4100	*4100	6650
6000 mm	kg									*5400	5050	*5450	3950				*3950	*3650	7330
5000 mm	kg									*5750	4950	*5550	3900				*3900	*3250	7820
4000 mm	kg					*8100	*8100	*6950	6250	*6250	4800	*5850	3850	*4950	3150		*3900	*3050	8160
3000 mm	kg					*9900	8200	*7950	6000	*6850	4650	*6200	3750	*5450	3100		*4000	*2850	8370
2000 mm	kg					*11 550	7750	*8950	5750	*7500	4500	6550	3650	*5350	3050		*4150	*2800	8450
1000 mm	kg					*12 700	7450	*9750	5550	8050	4350	6450	3550	*5300	2950		*4350	*2800	8410
0 mm	kg			*6800	*6800	*13 200	7300	*10 250	5400	7950	4300	6350	3500	*5300	2950		*4700	*2850	8240
-1000 mm	kg	*6350	*6350	*9900	*9900	*13 200	7250	10 350	5350	7850	4200	6300	3450				*5200	*2950	7950
-2000 mm	kg	*9800	*9800	*13 600	11 250	*12 850	7300	*10 300	5350	7850	4200	6300	3450				5750	*3200	7510
-3000 mm	kg	*13 600	*13 600	*15 300	11 400	*12 050	7350	*9800	5400	7900	4250						6550	*3600	6900
-4000 mm	kg	*17 600	*17 600	*13 450	11 600	*10 700	7500	*8700	*5500	*6850	4350						*6750	*4350	6050
-5000 mm	kg					*8350	7750										*6800	*6150	4750



















\*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.



















Lift capacity stays with ±5% for all available track shoes.

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

# 323F SA (Special Alpine) Hydraulic Excavator Specifications

## Reach Boom Lift Capacities with a 2.5 m Stick

		2000 mm		3000 mm		4000 mm		5000 mm		6000 mm		7000 mm		8000 mm				mm
																		
7000 mm	kg									*5300	4950					*4500	*4500	6140
6000 mm	kg									*5300	4950					*4300	4000	6880
5000 mm	kg							*5950	*5950	*5550	4900	*5350	3850			*4250	3550	7400
4000 mm	kg			*10 900	*10 900	*8050	*8050	*6750	6150	*6000	4750	*5550	3800			*4250	3250	7760
3000 mm	kg					*9700	8000	*7600	5900	*6500	4600	*5850	3700			*4350	3050	7970
2000 mm	kg					*11 050	7600	*8450	5650	*7050	4450	*6150	3600	*5100	3000	*4550	2950	8060
1000 mm	kg					*11 800	7350	*9100	5500	*7450	4350	6400	3550	*4950	2950	*4800	2950	8010
0 mm	kg					*12 000	7250	*9400	5400	*7750	4250	6350	3500			*5200	3050	7840
-1000 mm	kg			*9450	*9450	*11 850	7250	*9450	5350	*7800	4200	6350	3500			5750	3200	7530
-2000 mm	kg	*10 150	*10 150	*14 050	11 350	*11 350	7300	*9200	5350	*7600	4250	*6250	3500			*6150	3450	7070
-3000 mm	kg	*14 650	*14 650	*12 950	11 500	*10 450	7400	*8500	5450	*6950	4300					*6250	4000	6410
-4000 mm	kg			*11 000	*11 000	*8950	7600	*7150	5600							*6250	5000	5490

		2000 mm		3000 mm		4000 mm		5000 mm		6000 mm		7000 mm		8000 mm				mm
																		
7000 mm	kg									*5800	4950					*4950	4800	6140
6000 mm	kg									*5850	4950					*4700	4000	6880
5000 mm	kg							*6550	6400	*6100	4900	*5900	3850			*4650	3550	7400
4000 mm	kg			*12 000	*12 000	*8850	8500	*7400	6150	*6600	4750	*6150	3800			*4650	3250	7760
3000 mm	kg					*10 650	8000	*8400	5900	*7200	4600	*6450	3700			*4750	3050	7970
2000 mm	kg					*12 200	7600	*9350	5650	*7750	4450	6500	3600	5350	3000	*4950	2950	8060
1000 mm	kg					*13 050	7350	*10 000	5500	8000	4350	6400	3550	5300	2950	*5250	2950	8010
0 mm	kg					*13 250	7250	*10 400	5400	7900	4250	6350	3500			5450	3050	7840
-1000 mm	kg	*10 750	*10 750	*10 000	*10 000	*13 050	7250	10 350	5350	7850	4200	6350	3500			5750	3200	7530
-2000 mm	kg	*15 500	*15 500	*14 850	11 350	*12 500	7300	*10 150	5350	7900	4250	*6350	3500			6300	3450	7070
-3000 mm	kg			*14 350	11 500	*11 550	7400	*9400	5450	*7650	4300					*6950	4000	6410
-4000 mm	kg			*12 150	11 750	*9900	7600	*7950	5600							*6900	5000	5490






















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




















Lift capacity stays with ±5% for all available track shoes.

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

# 323F SA (Special Alpine) Hydraulic Excavator Specifications

## Variable Boom Lift Capacities with a 2.9 m Stick

		1000 mm		2000 mm		3000 mm		4000 mm		5000 mm		6000 mm		7000 mm		8000 mm				mm			
																							
10 000 mm	kg					*6200	*6200												*6200	*6200	3010		
9000 mm	kg							*6400	*6400											*4650	*4650	4990	
8000 mm	kg							*14 450	*14 450	*5550	*5550	*4100	*4100							*4100	*4100	6210	
7000 mm	kg							*6300	*6300	*6050	*6050	*3750	*3750	*3850	*3850					*3800	*3750	7090	
6000 mm	kg							*6500	*6500	*6000	*6000	*4750	*4750	*3650	*3650					*3650	*3200	7730	
5000 mm	kg					*7750	*7750	*7650	*7650	*5900	*5900	*4700	*4700	*3600	*3600	*3600	3000			*3600	*2850	8200	
4000 mm	kg					*10 250	*10 250	*7400	*7400	*5800	*5800	*4250	*4250	*3800	3650	*3700	2950			*3550	*2650	8520	
3000 mm	kg			*7800	*7800	*10 000	*10 000	*7250	*7250	*5350	*5350	*3850	*3850	*4000	3550	*3850	2900			*3600	*2500	8720	
2000 mm	kg			*5300	*5300	*6450	*6450	*5900	*5900	*4750	*4750	*4150	*4150	*4250	3400	*4100	2800			*3700	*2450	8790	
1000 mm	kg			*5250	*5250	*5500	*5500	*7150	*6800	*5450	5100	*4600	4050	*4650	3300	*4400	2750			*3900	*2400	8750	
0 mm	kg	*8350	*8350	*5450	*5450	*5200	*5200	*9100	*6700	*6450	4950	*5200	3900	*5400	3200	*4650	2700			*4150	*2450	8600	
-1000 mm	kg	*8450	*8450	*6300	*6300	*7100	*7100	*9500	*6650	*7650	4900	*5950	3850	*4900	3150	*4550	2650			*4100	*2550	8320	
-2000 mm	kg	*10 500	*10 500	*9650	*9650	*8700	*8700	*8100	*6700	*7050	4900	*5950	3850	*4900	3150					*3650	*2750	7900	
-3000 mm	kg	*13 550	*13 550	*13 850	*13 850	*8800	*8800	*6350	*6350	*5700	4950	*4750	3900	*3600	3250					*3300	*3100	7270	
-4000 mm	kg	*17 600	*17 600	*14 400	*14 400	*9000	*9000	*6500	*6500	*5000	*5000	*4150	4050							*4050	*3950	6110	
-5000 mm	kg					*9400	*9400														*8650	*8650	3250

		1000 mm		2000 mm		3000 mm		4000 mm		5000 mm		6000 mm		7000 mm		8000 mm				mm			
																							
10 000 mm	kg					*6750	*6750													*6750	*6750	3010	
9000 mm	kg							*6950	*6950												*5100	*5100	4990
8000 mm	kg									*6050	*6050	*4500	*4500								*4450	*4450	6210
7000 mm	kg							*6850	*6850	*6650	*6650	*4100	*4100	*4200	3850						*4150	*3750	7090
6000 mm	kg							*7050	*7050	*6550	*6550	*5200	5000	*4000	3850						*4000	*3200	7730
5000 mm	kg					*8450	*8450	*8400	*8400	*6450	6400	*5200	4850	*3900	3800	*3950	3000				*3900	*2850	8200
4000 mm	kg					*11 250	*11 250	*8150	*8150	*6350	6100	*4700	4650	*4150	3650	*4050	2950				*3900	*2650	8520
3000 mm	kg			*8250	*8250	*10 950	*10 950	*8000	*7750	*5900	5700	*4250	*4250	*4350	3550	*4200	2900				*3950	*2500	8720
2000 mm	kg			*5600	*5600	*6850	*6850	*6550	*6550	*5300	*5300	*4600	4200	*4650	3400	*4500	2800				*4050	*2450	8790
1000 mm	kg			*5600	*5600	*5800	*5800	*7950	*6800	*6050	5100	*5100	4050	*5150	3300	*4850	2750				*4250	*2400	8750
0 mm	kg	*8850	*8850	*5750	*5750	*5500	*5500	*10 100	*6700	*7100	4950	*5750	3900	*5900	3200	*5050	2700				*4500	*2450	8600
-1000 mm	kg	*8950	*8950	*6650	*6650	*7500	*7500	*10 600	*6650	*8450	4900	*6600	3850	*6100	3150	*5100	2650				*4600	*2550	8320
-2000 mm	kg	*11 150	*11 150	*10 200	*10 200	*9800	*9800	*9100	*6700	*7900	4900	*6700	3850	*5500	3150						*4150	*2750	7900
-3000 mm	kg	*14 350	*14 350	*14 650	*14 650	*9900	*9900	*7200	*6800	*6400	4950	*5350	3900	*4100	3250						*3750	*3100	7270
-4000 mm	kg	*18 650	*18 650	*16 100	*16 100	*10 100	*10 100	*7300	*7000	*5650	*5100	*4700	4050								*4600	*3950	6110
-5000 mm	kg					*10 500	*10 500														*9650	*9650	3250

\*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

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

# 323F SA (Special Alpine) Hydraulic Excavator Specifications

## Variable Boom Lift Capacities with a 2.5 m Stick

Stick Length	Unit	1000 mm		2000 mm		3000 mm		4000 mm		5000 mm		6000 mm		7000 mm		8000 mm		Stick Length		mm
		Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	
9000 mm	kg							*5850	*5850									*5850	*5850	4240
8000 mm	kg							*7600	*7600	*4800	*4800							*4950	*4950	5630
7000 mm	kg							*7600	*7600	*6000	*6000	*4500	*4500					*4550	4150	6580
6000 mm	kg					*7400	*7400	*7800	*7800	*5900	*5900	*4300	*4300	*4300	3750			*4350	3500	7270
5000 mm	kg			*34 950	*34 950	*10 550	*10 550	*7550	*7550	*5800	*5800	*4400	*4400	*4350	3700			*4250	3100	7770
4000 mm	kg					*10 150	*10 150	*7350	*7350	*5700	*5700	*3850	*3850	*4350	3600	*4300	2900	*4250	2850	8110
3000 mm	kg			*9350	*9350	*8800	*8800	*6850	*6850	*4800	*4800	*4050	*4050	*4650	3500	*4500	2850	*4300	2650	8310
2000 mm	kg					*6650	*6650	*6350	*6350	*5050	*5050	*4400	4150	*5100	3350	*4700	2750	*4450	2600	8390
1000 mm	kg			*7400	*7400	*6100	*6100	*7750	6700	*5850	5050	*4900	4000	*5550	3250	*5000	2700	*4650	2550	8350
0 mm	kg	*12 400	*12 400	*7300	*7300	*6050	*6050	*9900	6650	*6950	4950	*5550	3900	*5950	3200	*4800	2700	*4550	2600	8190
-1000 mm	kg	*11 000	*11 000	*8000	*8000	*7250	*7250	*8700	6700	*7650	4900	*6500	3850	*5350	3150			*4200	2750	7890
-2000 mm	kg	*13 000	*13 000	*11 750	*11 750	*8850	*8850	*7200	6750	*6500	4950	*5550	3900	*4400	3200			*3650	3000	7450
-3000 mm	kg	*16 650	*16 650	*14 300	*14 300	*8900	*8900	*6400	6400	*4950	4950	*4100	3950					*3650	3500	6700
-4000 mm	kg	*20 750	*20 750	*14 750	*14 750	*9100	*9100	*6600	6600	*5150	5150							*4850	*4850	5300

Stick Length	Unit	1000 mm		2000 mm		3000 mm		4000 mm		5000 mm		6000 mm		7000 mm		8000 mm		Stick Length		mm
		Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	
9000 mm	kg							*6350	*6350									*6350	*6350	4240
8000 mm	kg							*8300	*8300	*5250	*5250							*5400	*5350	5630
7000 mm	kg							*8250	*8250	*6550	*6550	*4900	*4900					*5000	4150	6580
6000 mm	kg					*8100	*8100	*8500	*8500	*6500	*6500	*4700	*4700	*4700	3750			*4750	3500	7270
5000 mm	kg					*11 550	*11 550	*8300	*8300	*6400	6250	*4800	4750	*4750	3700			*4650	3100	7770
4000 mm	kg					*11 150	*11 150	*8100	*8100	*6300	5950	*4300	*4300	*4750	3600	*4700	2900	*4650	2850	8110
3000 mm	kg			*9900	*9900	*9300	*9300	*7550	7450	*5300	*5300	*4500	4350	*5050	3500	*4900	2850	*4700	2650	8310
2000 mm	kg					*7050	*7050	*7000	7000	*5650	5250	*4900	4150	*5600	3350	*5100	2750	4850	2600	8390
1000 mm	kg			*7850	*7850	*6450	*6450	*8250	6700	*6500	5050	*5400	4000	6100	3250	5150	2700	4850	2550	8350
0 mm	kg	*13 100	*13 100	*7750	*7750	*6450	*6450	*10 500	6650	*7650	4950	*6150	3900	6150	3200	5100	2700	4950	2600	8190
-1000 mm	kg	*11 650	*11 650	*8450	*8450	*7650	*7650	*9750	6700	*8550	4900	*7250	3850	*6000	3150			*4700	2750	7890
-2000 mm	kg	*13 750	*13 750	*12 450	*12 450	*9950	*9950	*8100	6750	*7300	4950	*6200	3900	*4950	3200			*4150	3000	7450
-3000 mm	kg	*17 600	*17 600	*16 000	*16 000	*10 000	*10 000	*7250	6900	*5600	5050	*4650	3950					*4150	3500	6700
-4000 mm	kg	*21 950	*21 950	*16 450	*16 450	*10 200	*10 200	*7400	7100	*5800	5250							*5450	4850	5300

\*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

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



# 323F SA (Special Alpine) Hydraulic Excavator Specifications

## 323F SA Work Tool Offering Guide\*

Boom Type	Reach Boom		Variable Angle Boom	
Stick Size	HD R2.5	HD R2.92	HD R2.5	HD R2.92
Undercarriage/Counterweight	SA/Standard Counterweight			
Hydraulic Hammer	H120Es H130Es	H120Es H130Es	H120Es H130Es^^	H120Es H130Es^
Multi-Processor	MP318 CC Jaw MP318 D Jaw MP318 P Jaw^^ MP318 U Jaw MP318 S Jaw	MP318 CC Jaw^^ MP318 D Jaw^^ MP318 P Jaw^ MP318 U Jaw^^ MP318 S Jaw	MP318 CC Jaw*** MP318 D Jaw^ MP318 P Jaw*** # MP318 U Jaw*** MP318 S Jaw^	MP318 CC Jaw*** # MP318 D Jaw*** # MP318 P Jaw MP318 U Jaw*** # MP318 S Jaw***
Crusher	P315	P315^^	P315^	P315*** #
Pulverizer	P215	P215	P215^^	P215^
Demolition and Sorting Grapple	G315B-D/R G315B-WH G315B-D/R fixed CAN	G315B-D/R^^ G315B-WH G315B-D/R fixed CAN	G315B-D/R^ G315B-WH** G315B-D/R fixed CAN#	G315B-D/R*** # G315B-WH^ G315B-D/R fixed CAN
Scrap and Demolition Shear	S320B^^ S325B###	S320B^ S325B##	S320B*** # S325B###	S320B*** # S325B##
Compactor (Vibratory Plate)	CVP110	CVP110	CVP110	CVP110
Orange Peel Grapple				
Rippers				
Pin Grabber Coupler	Cat PG			
Dedicated Quick Coupler	CW-40			
	CW-40s			
	CWAC-40 (autoconnect)			

These work tools are available for the 323F SA.  
Consult your Cat dealer for proper match.

\*Offerings not available in all areas. Matches are dependent on excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper work tool match.

\*\*Pin-on or CW.

\*\*\*Pin-on only.

#Work over the front only.

##Boom mount.

^Work over the front only with CW (pin-on and CW).

^^Work over the front only with Cat PG or CWAC (pin-on, CW, Cat PG and CWAC).

**Note:** Demolition and Sorting Grapple: D-Demolition shells, R-Recycling shells, WH-Waste Handling shells, fixed CAN – fixed hinge plates for CW quick coupler usage.

# 323F SA (Special Alpine) Hydraulic Excavator Specifications

## 323F SA Bucket Specifications and Compatibility

	Linkage	Width	Capacity	Weight	Fill	Reach Boom		VA Boom	
		mm	m <sup>3</sup>	kg	%	R2.5	R2.9	R2.5	R2.9
<b>Without Quick Coupler</b>									
General Duty (GD)	B	600	0.46	549	100%	●	●	●	●
	B	750	0.64	620	100%	●	●	●	●
	B	900	0.81	666	100%	●	●	●	●
	B	1200	1.19	800	100%	⊙	⊖	○	○
	B	1300	1.30	832	100%	⊖	⊖	○	◇
	B	1400	1.43	867	100%	⊖	○	◇	◇
Heavy Duty (HD)	B	1050	1.00	879	100%	●	⊙	⊖	○
	B	1200	1.19	906	100%	⊙	⊖	○	○
	B	1200	1.19	917	100%	⊙	⊖	○	○
	B	1200	1.19	970	100%	⊖	⊖	○	◇
	B	1300	1.30	960	100%	⊖	○	○	◇
Severe Duty (SD)	B	1050	1.00	962	90%	●	●	⊖	⊖
Maximum load pin-on (payload + bucket)					kg	2997	2790	2475	2303
<b>With Pin Grabber Coupler</b>									
General Duty (GD)	B	600	0.46	549	100%	4401	3954	3274	2903
	B	750	0.64	620	100%	●	●	●	⊙
	B	900	0.81	666	100%	●	●	⊙	⊖
	B	1200	1.19	800	100%	⊖	○	◇	◇
	B	1300	1.30	832	100%	○	○	◇	X
	B	1400	1.43	867	100%	○	◇	X	X
	B	1500	1.58	906	100%	◇	◇	X	X
Heavy Duty (HD)	B	1050	1.00	879	100%	⊖	⊖	○	◇
	B	1200	1.19	906	100%	○	○	◇	X
	B	1200	1.19	917	100%	○	○	◇	X
	B	1200	1.19	970	100%	○	○	◇	X
	B	1300	1.30	960	100%	○	◇	X	X
Severe Duty (SD)	B	1050	1.00	962	90%	⊙	⊖	○	◇
Maximum load pin-on (payload + bucket)					kg	2587	2380	2065	1893
<b>With Quick Coupler (CW40, CW40s)</b>									
General Duty (GD)	B	600	0.46	502	100%	●	●	●	●
	B	750	0.64	587	100%	●	●	●	●
	B	900	0.81	653	100%	●	●	⊙	⊙
	B	1200	1.19	767	100%	⊖	⊖	○	◇
	B	1300	1.30	798	100%	⊖	○	◇	◇
	B	1400	1.43	834	100%	○	○	◇	X
Heavy Duty (HD)	B	600	0.46	584	100%	●	●	●	●
	B	1200	1.19	873	100%	⊖	○	◇	◇
	B	1300	1.30	927	100%	○	○	◇	◇
Maximum load with coupler (payload + bucket)					kg	2745	2538	2223	2051

### Maximum Material Density:

- 2100 kg/m<sup>3</sup>
- ⊙ 1800 kg/m<sup>3</sup>
- ⊖ 1500 kg/m<sup>3</sup>
- 1200 kg/m<sup>3</sup>
- ◇ 900 kg/m<sup>3</sup>
- X Not Recommended

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

# 323F SA (Special Alpine) Hydraulic Excavator Standard Equipment

## Standard Equipment

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

### ENGINE

- C4.4 ACERT meets Stage IV emission standards
- Three selectable power modes
  - HP, STD and ECO
- Variable-speed fan with viscous clutch
- One-touch low idle with automatic engine speed control
- Automatic engine idle shutdown
- Three-stage fuel filtration system with water separator and indicator
- 3000 m altitude capability without derate
- 52° C high-ambient cooling capacity with derate from 48° C
- –18° C cold start capability
- 85 amp alternator
- Radial seal air filter with double filter element
- Electric fuel lifting pump
- Capability of using biodiesel fuel (up to B20)
- Air precleaner
- Electric refueling pump with auto shutoff

### HYDRAULICS

- Tool control
- Quick coupler control
- SmartBoom™
- Electric boom regeneration circuit
- Stick regeneration circuit
- One-touch lifting mode
- Automatic two-speed travel
- Reverse swing damping valve
- High-performance hydraulic return filter
- CRN compliant accumulator

### CAB

- Sound suppressed ROPS cab with viscous mount
- Openable skylight as emergency exit
- Openable laminated front upper windshield with assist device
- Removable tempered lower windshield with in-cab storage bracket
- High-back seat with air suspension, seat heater and head rest
- Fully adjustable seat, console and armrest
- 51 mm width seat belt
- Full graphic 233 mm × 130 mm LCD monitor with distortion-free rearview camera picture
- Automatic bi-level air conditioner with pressurized function
- Radial wiper with lower wiper
- 12V radio ready with stereo speakers and flexible antenna
- 12V × 2 power supply with sockets (maximum 10 amp)
- Washable floor mat
- Interior utilities
  - Interior lighting
  - Coat hook
  - Beverage holder
  - Literature holder
  - Document holding space
  - Cab rear storage compartment
- Sun screen roll type for 70/30 window

### UNDERCARRIAGE

- Grease Lubricated Track GLT2, resin seal
- Towing eye on base frame

### ELECTRICAL

- Maintenance-free battery
- Centralized electrical disconnect switch
- Programmable time-delay halogen working lights
  - Storage box mounted (one)
  - Cab mounted (two)
  - Boom mounted LH and RH (two)

### SERVICE AND MAINTENANCE

- Engine oil, fuel, and hydraulic oil filters grouped for ease of maintenance
- Sampling ports for Scheduled Oil Sampling (S·O·S<sup>SM</sup>)
- Three side-by-side cooling packages for easy maintenance

### SAFETY AND SECURITY

- Rearview camera, right hand side-view camera with two mounted on cab
- RH hand rail and hand hold
- Bolt-free service platform with anti-skid plate
- Neutral lever (lock out) for all controls
- Ground-level accessible secondary engine shutoff switch in cab
- Signaling/warning horn
- Safety hammer for cab evacuation
- Boom lowering control device and stick lowering check valve

### TECHNOLOGY

- Cat Product Link™

# 323F SA (Special Alpine) Hydraulic Excavator

## Optional Equipment

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

### ENGINE

- Starting kit, cold weather, -32° C
- Radiator screen

### HYDRAULIC SYSTEM

- Additional circuit
- Boom and stick lines
- High-pressure line
- Medium-pressure line
- Cat quick coupler line – high- and medium-pressure capable
- Electronic Control device, 1/2P, one-way circuit
- Electronic Control device (Common), 1/2P, common circuit

### CAB

- Seat, high-back air suspension with heater
- Seat, high-back air suspension with heater
- Travel alarm
- Left foot switch
- Straight travel pedal

### UNDERCARRIAGE

- Center track guiding guard
- Segmented track guard

### FRONT LINKAGE

- Quick coupler
- Bucket linkage, B1 family with lifting eye
- 5.7 m reach boom – HD and ES
- 2.5 m extreme service sticks
- 2.9 m extreme service sticks

### SECURITY

- Cat MSS (anti-theft device)

### TECHNOLOGY

- Cat Grade Control Depth and Slope

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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