



Scrap and Demolition Shears

S308, S2000, and S3000 Models

Technical Specifications

Not all attachments are available in all regions. Consult your Cat® dealer for specific configurations available in your region.

Table of Contents

Table of Contents	1
Specifications	2
Dimensions	3
Cutting Guide	4
Shear Forces	5
Hydraulic Specifications	6
Machine Matching	7

Shears Technical Specifications

Specifications

Model	Mount Type	Recommended Carrier Weight				Operating Weight*			
		Stick-mount, Minimum	Stick-mount, Maximum	Boom-mount, Minimum	Boom-mount, Maximum	Stick-mount		Boom-mount	
		mt	mt	mt	mt	kg	lb	kg	lb
S308	Boom and Stick	7	9	5	6	550	1213	550	1213
S2050	Boom			18	29			4175	9204
S2070	Boom			30	40			5815	12820
S2090	Boom			36	54			7480	16490
S3015	Boom and Stick	12	18	7	10	1467	3234	1511	3331
S3025	Boom and Stick	20	25	11	15	2321	5117	2436	5370
S3035	Boom and Stick	26	40	16	20	3201	7057	3426	7553
S3050	Boom and Stick	42	60	24	36	4830	10648	5080	11199
S3070	Boom and Stick	70	95	36	54	6920	15256	7065	15575
S3090	Boom and Stick	90	110	45	65	8760	19312	9020	19885

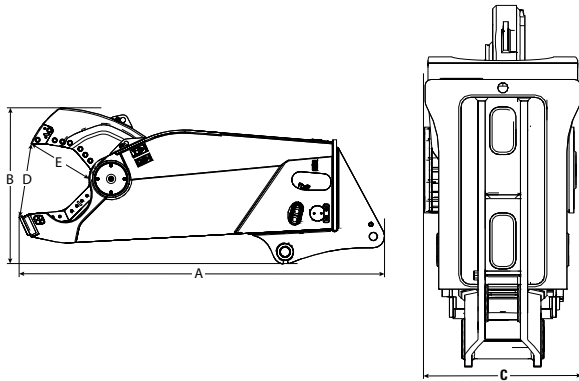
Consult your Cat® dealer for specific compatibility of shears based on your application and machine configuration.

*Operating weight includes mounting bracket.

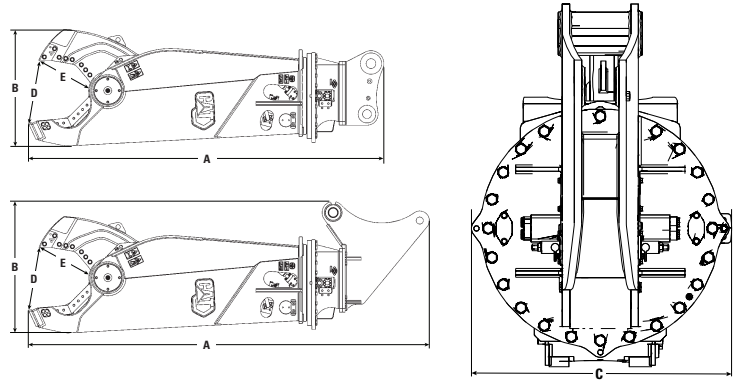
Shears Technical Specifications

Dimensions

S2000



S3000



Model	(A) Length		(B) Height		(C) Width		(D) Jaw Opening		(E) True Jaw Depth ⁴		Jaw Width, Fixed		Jaw Width, Moving	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
S308	1709	67.3	667	26.3	390	15.4	240	9.4	290	11.4	230	9.1	60	2.4
S2050	3555	140.0	1520	59.8	635	25.0	681	26.8	635	25.0	476	18.7	135	5.3
S2070	3875	152.6	1770	69.7	720	28.3	819	32.2	755	29.7	546	21.5	158	6.2
S2090	4325	170.3	1890	74.4	760	29.9	910	35.8	900	35.4	602	23.7	168	6.6
S3015 ¹	2677	105.4	920	36.2	640	25.2	400	15.7	380	15.0	304	12.0	100	3.9
S3025 ¹	3188	125.5	1220	48.0	750	29.5	458	18.0	415	16.3	374	14.7	111.5	4.4
S3035 ¹	3489	137.4	1260	49.6	750	29.5	560	22.0	540	21.3	444	17.5	122	4.8
S3050 ²	3820-4786	150-188	1480	58.3	1060	41.7	681	26.8	635	25.0	476	18.7	135	5.3
S3070 ³	4215-5335	166-210	1615-1685	64-66	1160	45.7	819	32.2	755	29.7	546	21.5	158	6.2
S3090 ³	4670-5754	184-227	1755-1810	69-71	1300	51.2	910	35.8	900	35.4	602	23.7	168	6.6

¹Length with bracket installed.

²Length varies dependent on bracket.

³Length and Height vary dependent on bracket.

⁴True jaw depth is measured from the tip to the back of the upper blade.

Shears Technical Specifications

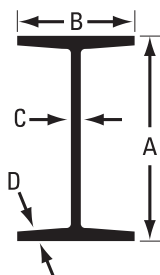
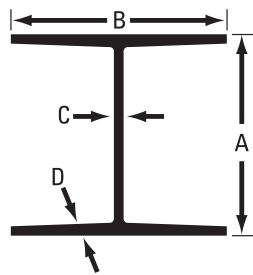
Cutting Guide

Cutting capacities achieved by cutting with an operating pressure of 35000 kPa (5075 psi) and blades in slightly used condition.

Lower operating pressures, dull blades, harder steels will reduce cutting capability.

Material in excess of the dimensions listed can be processed in two or more cuts by first piercing the material.

For questions about cutting material sizes larger then shown or other materials not shown, contact your dealer for more information.

Model			S308	S2050	S2070	S2090	S3015	S3025	S3035	S3050	S3070	S3090
I-beam												
	A Height	mm	207	500	600	686	300	360	450	500	600	686
		in	8.1	19.7	23.6	27.0	11.8	14.2	17.7	19.7	23.6	27.0
	B Flange Width	mm	112	200	220	249	150	170	190	200	220	249
		in	4.4	7.9	8.7	9.8	5.9	6.7	7.5	7.9	8.7	9.8
	C Web Thickness	mm	5.8	10.2	12.0	14.0	7.1	8.0	9.4	10.2	12.0	14.0
		in	0.2	0.4	0.5	0.6	0.3	0.3	0.4	0.4	0.5	0.6
	D Flange Thickness	mm	8.4	16.0	19.0	21.1	10.7	12.7	14.6	16.0	19.0	21.1
		in	0.3	0.6	0.8	0.8	0.4	0.5	0.6	0.6	0.8	0.8
	Weight	kg/m	22.3	90.7	122.0	153.3	42.2	57.1	77.6	90.7	122.0	153.3
		lb/ft	15	61	82	103	28	38	52	61	82	103
H-beam												
	A Height	mm	107	311	440	540	171	210	290	311	440	540
		in	4.2	12.3	17.3	21.3	6.7	8.3	11.4	12.3	17.3	21.3
	B Flange Width	mm	103	305	300	300	180	220	300	305	300	300
		in	4.1	12.0	11.8	11.8	7.1	8.7	11.8	12.0	11.8	11.8
	C Web Thickness	mm	7.1	10.9	11.5	12.5	6.0	7.0	8.5	10.9	11.5	12.5
		in	0.3	0.4	0.5	0.5	0.2	0.3	0.3	0.4	0.5	0.5
	D Flange Thickness	mm	8.8	17.0	21.0	24.0	9.5	11.0	14.0	17.0	21.0	24.0
		in	0.3	0.7	0.8	1.0	0.4	0.4	0.6	0.7	0.8	1.0
	Weight	kg/m	19.4	107.1	139.9	166.0	35.5	50.5	88.3	107.1	139.9	166.0
		lb/ft	13	72	94	111	24	34	59	72	94	111
Round												
	Diameter	mm	51	89	114	127	65	80	90	89	114	127
		in	2.0	3.5	4.5	5.0	2.6	3.1	3.5	3.5	4.5	5.0
Square												
	Width	mm	40	89	102	114	50	70	80	89	102	114
		in	1.5	3.5	4.0	4.5	2.0	2.8	3.1	3.5	4.0	4.5
Pipe												
	Diameter	mm	220	356	457	508	219	273	355	356	457	508
		in	8.6	14.0	18.0	20.0	8.6	10.7	14.0	14.0	18.0	20.0
	Wall Thickness	mm	8	11	14	15	8	10	10	11	14	15
		in	0.3	0.4	0.6	0.6	0.3	0.4	0.4	0.4	0.6	0.6
Plate												
	Thickness (piercing)	mm	10	22	25	29	10	12	18	22	25	29
		in	0.4	0.9	1.0	1.1	0.4	0.5	0.7	0.9	1.0	1.1

Shear Forces

Forces calculated with a maximum operating pressure of 35 MPa (5075 psi).

	Shear Forces*								
	At Throat			At Apex			At Tip		
Model	kN	tonf	tonne	kN	tonf	tonne	kN	tonf	tonne
S308	1812	204	185	653	73	67	385	43	39
S2050	6592	741	672	3029	340	309	1667	187	170
S2070	9037	1016	921	3880	436	396	2110	237	215
S2090	11746	1320	1198	4754	534	485	2513	282	256
S3015	2425	273	247	1155	130	118	618	69	63
S3025	3920	441	400	1787	201	182	980	110	100
S3035	5809	653	592	2509	282	256	1328	149	135
S3050	6592	741	672	3029	340	309	1667	187	170
S3070	9037	1016	921	3880	436	396	2110	237	215
S3090	11746	1320	1198	4754	534	485	2513	282	256

*At throat measured at innermost cutting point of the jaw.

Shears Technical Specifications

Hydraulic Specifications

Model		S308	S2050	S2070	S2090	S3015	S3025	S3035	S3050	S3070	S3090
Cycle Time											
Open*	seconds	3.5	4.0	4.3	4.5	2.9	3.5	4.2	4.0	4.3	4.5
Close*	seconds	2.5	3.3	3.4	3.4	2.0	2.6	3.1	3.3	3.4	3.4
Total*	seconds	6	7.3	7.7	7.9	4.9	6.1	7.3	7.3	7.7	7.9
Hydraulic Requirements											
Cutting Circuit, Maximum Operating Pressure	kPa	25000	35000	35000	35000	35000	35000	35000	35000	35000	35000
	psi	3626	5075	5075	5075	5075	5075	5075	5075	5075	5075
Cutting Circuit, Maximum Recommended Flow	l/min	60	350	530	700	125	175	250	350	530	700
	gpm	16	92	140	185	33	46	66	92	140	185
Rotation Circuit, Maximum Relief Pressure	kPa	20000				14000	14000	14000	14000	14000	14000
	psi	2900				2030	2030	2030	2030	2030	2030
Rotation Circuit, Maximum Recommended Flow	l/min	20				40	40	40	40	80	80
	gpm	5				11	11	11	11	21	21

*Cycle times calculated at maximum rated flow.

Matching – Skid Steer and Compact Track Loaders

Refer to the machine technical specifications for configuration specific matching. Consult your Cat dealer for configuration availability in your region.

S Stick Mount

B Boom-mount

Model	232D3	236D3	239D3	242D3	246D3	249D3	259D3	262D3	272D3	279D3	289D3	299D3
S308	B	B	B	B	B	B	B	B	B	B	B	B

Matching – Tracked Excavators

Refer to the machine technical specifications for configuration specific matching. Consult your Cat dealer for configuration availability in your region.

S Stick Mount

B Boom-mount

Model	305	305.5CR	306	306CR	306.5	307.5	308CR	309CR	310
S308	B	B	B	B	B	S	S	S	S

Shears Technical Specifications

Matching – Tracked Excavators

Refer to the machine technical specifications for configuration specific matching. Consult your Cat dealer for configuration availability in your region.

S Stick Mount

B Boom-mount

 Not Available

Model	Build Number	S2050	S2070	S2090	S3015	S3025	S3035	S3050	S3070	S3090
311F RR	–					B				
312D2 GC	–					B				
312D2	–				S	B				
313D2 GC	–					B				
313D2	–				S	B				
313F GC	–				S	B				
313F	–				S	B				
313 GC	07				S	B				
313	07				S	B				
315F CR	–					B				
315 GC	07					B				
315	07					B				
316F	–				S		B			
317 GC	07				S		B			
317	07				S		B			
318D2	–				S		B			
318F	–				S		B			
320D2 GC	–						B			
320D2	–					S	B			
320F	–	B				S	B			
320 GC	07	B				S	B			
320 GC N	07	B				S	B			
320	07	B				S	B			
323D2	–	B				S	B			
323F	–	B				S	B			
323 GC	07	B				S	B			
323	07	B				S	B			
323 N	07	B				S	B			
325F CR	–	B				S	B			
325	07	B				S	B			
326D2	–	B				S	S	B		
326F	–	B				S	S	B		
326	07	B				S	S	B		
330D2	–		B			S	S	B		
330F	–		B			S	S	B		
330 GC	07		B			S	S	B		
330	07		B			S	S	B		
330 UHD	07		B			S	S	B		
333	07		B	B			S		B	
335F CR	–		B				S			
335	07		B				S			

(continued on next page)

Shears Technical Specifications

Matching – Tracked Excavators *(continued)*

Refer to the machine technical specifications for configuration specific matching. Consult your Cat dealer for configuration availability in your region.

S Stick Mount

B Boom-mount

Not Available

Model	Build Number	S2050	S2070	S2090	S3015	S3025	S3035	S3050	S3070	S3090
336D2 GC	–		B				S			
336D2	–		B	B			S			
336D2 XE	–		B	B			S			
336F	–		B	B			S		B	
336F XE	–		B	B			S		B	
336 GC	07		B	B			S		B	
336	07		B	B			S		B	
336	08		B	B			S		B	
340F	–		B	B			S		B	
340F UHD	–		B	B		S	S		B	
340	07		B	B			S		B	
340	08		B	B			S		B	
340 UHD	07		B	B		S	S		B	
340 UHD	08		B	B		S	S		B	
345 GC	07			B						
345	07			B						
349D2	–			B				S	B	B
349F	–			B				S	B	B
349F XE	–			B				S	B	B
349	07			B				S	B	B
350	06			B				S	B	B
352F	–			B				S	B	B
352F XE	–			B				S	B	B
352	07			B				S	B	B
352	08			B				S	B	B
352 LRE	07					S				
352 LRE	08					S				
352 SB	08			B				S	B	B
352 UHD	07			B		S	S	S	B	B
352 UHD	08			B		S	S	S	B	B
374F	–								S	
374	07			B					S	
390F	–								S	S
395	07								S	S

Shears Technical Specifications

Matching – Wheeled Excacators

Refer to the machine technical specifications for configuration specific matching. Consult your Cat dealer for configuration availability in your region.

S Stick Mount

B Boom-mount

 Not Available

Model	Build Number	S2050	S2070	S2090	S3015	S3025	S3035	S3050	S3070	S3090
M314F	–				S					
M315D2	–				S					
M315F	–				S					
M315 GC	05				S					
M315	05				S					
M316F	–				S					
M317D2	–				S					
M317F	–				S					
M318F	–				S					
M318	05				S					
M320 GC	05					S				
M320	05					S				
M322D2	–					S				

Matching – Material Handlers

S Stick Mount

B Boom-mount

 No Available

Model	Build Number	S2050	S2070	S2090	S3015	S3025	S3035	S3050	S3070	S3090
MH3022	07					S				
MH3024	07					S				
MH3032	07					S		B		
MH3040	07					S				

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

© 2025 Caterpillar
All rights reserved

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, LET'S DO THE WORK, VisionLink, their respective logos, "Caterpillar Corporate Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEXQ4216-00 (06-2025)
(Afr-ME, Aus-NZ, Eurasia,
Europe, Japan, N Am,
S Am, Türkiye)

