

SHEARS

INDUSTRIAL
ATTACHMENTS



CAT
S3070

Skid Steer Loaders	236-299
Excavator (Stick)	307-390
Excavator (Boom)	304-352
Wheeled Excavators	M313-M322
Material Handlers	MH3022-MH3026

CAT[®]



CUT MORE, EARN MORE

IMPROVE PRODUCTION EVERY SHIFT

You rely on your shear to produce higher grade scrap and make you more money. Caterpillar manufactures a system solution designed to do just that.

Cat® shears and machines work together efficiently, which delivers more tons produced.

BUILD YOUR PROFITS

AVERAGE TONS PER HOUR



UP TO
28%
MORE
PRODUCTION
THAN COMPETITORS

CUT MORE, CUT FASTER

Power and speed are managed automatically – giving you the maximum cutting force with fast cycle times.

BUILT TO TAKE IT

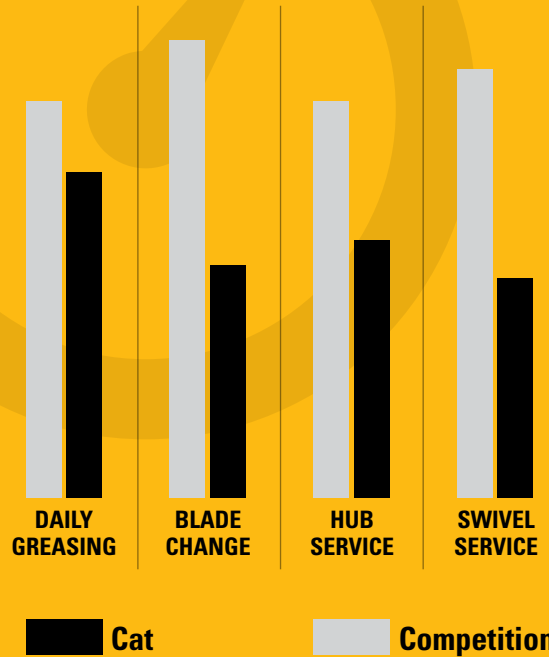
Tougher than any scrap pile, you can rely on a shear engineered to handle job site stresses. Structures have a 40% over-stress margin. Hydraulics have a 4:1 pressure safety margin.

UP TO 40% FASTER SERVICE TIMES¹

It's a fact – shears require service. Your Cat shear has ease-of-use built in. You'll find it faster and easier to service – up to 40% easier in key areas like the pivot group.

¹ Compared to major competitors

SHORTER SERVICE TIMES



BETTER PRODUCTION, MORE UPTIME



SPEED AND POWER

You will process more every shift. New speed valve cuts down on the “wasted” close-to-contact time. You’ll get more cuts per hour, up to 28% more tons per hour.



SWAP AND GO

It’s reality – cutting edges must be changed regularly. You’ll get back to work faster, thanks to easy-to-change blades and piercing tip. Hand tools are all that’s needed to replace individual wear components and get back to work. Swap blades and tip in about 45 minutes. No wasted time, no delay, no kidding.



BUILT TO ENDURE

Go ahead. Put it to the test. We built the structures to endure 40% over the anticipated load; and the hydraulics with a 4:1 pressure margin in key components. Everything will last longer...except the paint.



EASY MAINTENANCE

Daily maintenance is easier and safer – all daily greasing and inspection can be done from the ground with the shear mounted. Even stick cylinder and swivel grease points are ground-level access – up to 40% less service time than some competitors.

ROTATING SHEAR

HIGH-VOLUME PRODUCTION

35%-70% PRODUCTION IMPROVEMENT

Rotating the shear means less machine movement, less operator fatigue, and more production, when compared to straight shears.

MORE APPLICATIONS

Shear rotation is a necessity for demolition, and a production enhancement for scrap processing. A rotating shear does both.

STICK- OR BOOM-MOUNT

Cat shears with rotation can boom-mount on excavators for more power on a smaller machine, if reach isn't an issue. Or use stick-mount for maximum reach.



STRAIGHT SHEAR

HIGH-VALUE PRODUCTION



FEWER MAINTENANCE POINTS

With only the hydraulics of the cylinder, a straight shear has fewer maintenance points and simpler machine controls.

SCRAP PRODUCTION FOCUSED

Straight shears work best in scrap processing and can be ideal when the steel is mostly uniform in type and presentation.

BOOM-MOUNT ONLY

Straight shears work best in boom-mount setups. Their simplicity allows a bigger shear to be mounted on a smaller machine, reducing overall system cost.

APPETITE GUIDE

			SHEAR MODEL									
			S305 Rotating	S3015 Rotating	S3025 Rotating	S3035 Rotating	S2050 Straight	S3050 Rotating	S2070 Straight	S3070 Rotating	S2090 Straight	S3090 Rotating
I-Beam	Height	mm	207	300	360	450	500	500	600	600	686	686
		in	8.1	11.8	14.2	17.7	19.7	19.7	23.6	23.6	27.0	27.0
	Width	mm	112	150	170	190	200	200	220	220	249	249
		in	4.4	5.9	6.7	7.5	7.9	7.9	8.7	8.7	9.8	9.8
	Web Thickness	mm	5.8	7.1	8	9.4	10.2	10.2	12	12	14	14
		in	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6
	Flange Thickness	mm	8.4	10.7	12.7	14.6	16	16	19	19	21.1	21.1
		in	0.3	0.4	0.5	0.6	0.6	0.6	0.8	0.8	0.8	0.8
Weight	kg/m	22	42	57	78	91	91	122	122	153	153	
	lb/ft	15	28	38	52	61	61	82	82	103	103	
H-Beam	Height	mm	107	171	210	290	311	311	440	440	540	540
		in	4.2	6.7	8.3	11.4	12.3	12.3	17.3	17.3	21.3	21.3
	Width	mm	103	180	220	300	305	305	300	300	300	300
		in	4.1	7.1	8.7	11.8	12.0	12.0	11.8	11.8	11.8	11.8
	Web Thickness	mm	7	6	7	8.5	10.9	10.9	11.5	11.5	12.5	12.5
		in	0.3	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.5
	Flange Thickness	mm	9	9.5	11	14	17	17	21	21	24	24
		in	0.4	0.4	0.4	0.6	0.7	0.7	0.8	0.8	1.0	1.0
Weight	kg/m	19	36	51	88	107	107	140	140	166	166	
	lb/ft	13	24	34	59	72	72	94	94	111	111	
Bar	Round, Diameter	mm	51	65	80	90	89	89	114	114	127	127
		in	2	2.6	3.1	3.5	3.5	3.5	4.5	4.5	5.0	5.0
	Square, Width	mm	40	50	70	80	89	89	102	102	114	114
		in	1.5	2	3	3	4	4	4	4	5	5
Pipe & Plate	Pipe, Diameter	mm	220	219	273	355	356	356	457	457	508	508
		in	8.6	8.6	10.7	14.0	14.0	14.0	18.0	18.0	20.0	20.0
	Pipe, Wall Thickness	mm	8	8	10	10	11	11	14	14	15	15
		in	0.3	0	0	0	0	0	1	1	1	1
	Plate Piercing, Thickness	mm	10	10	12	18	22	22	25	25	29	29
		in	0.4	0.4	0.5	0.7	0.9	0.9	1.0	1.0	1.1	1.1

SHEAR SPECIFICATIONS

SPECIFICATIONS																				
Model	Rotation	Mount Type	Operating Weight ¹		Recommended Carrier Weight		Length ²		Height		Width		Jaw Width-Fixed		Jaw Width-Moving		Jaw Opening		Jaw Depth	
			kg	lb	Min. Tons	Max. Tons	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
S305	Rotating	Boom	608	1340	3.5	5	1709	67.3	660	26	390	12	230	9	60	2	240	9.4	290	11.4
S305	Rotating	Stick	580	1280	7	8	1709	67.3	660	26	390	12	230	9	60	2	240	9.4	290	11.4
S2050	Straight	Boom	4175	9204	18	29	3555	140	1520	60	635	25	476	19	135	5	681	27	635	25
S2070	Straight	Boom	5815	12820	24	40	3875	153	1770	70	720	28	546	21	158	6	819	32	755	30
S2090	Straight	Boom	7480	16490	30	54	4325	170	1890	74	760	30	602	24	168	7	910	36	900	35
S3015	Rotating	Boom	1511	3331	7	10	2677	105	920	36.2	640	25.2	304	12	100	3.9	400	15.7	380	15
S3015	Rotating	Stick	1467	3234	12	18	2677	105	920	36.2	640	25.2	304	12	100	3.9	400	15.7	380	15
S3025	Rotating	Boom	2436	5370	11	15	3188	126	1220	48	750	29.5	374	14.7	111.5	4.4	458	18	415	16.3
S3025	Rotating	Stick	2321	5117	20	25	3188	126	1220	48	750	29.5	374	14.7	111.5	4.4	458	18	415	16.3
S3035	Rotating	Boom	3426	7553	16	20	3489	137	1260	49.6	750	29.5	444	17.5	122	4.8	560	22	540	21.3
S3035	Rotating	Stick	3201	7057	24	36	3489	137	1260	49.6	750	29.5	444	17.5	122	4.8	560	22	540	21.3
S3050	Rotating	Boom	5080	11199	24	40	4475	176	1480	58	1060	42	476	19	135	5	681	27	635	25
S3050	Rotating	Stick	4830	10648	42	60	3820	150	1480	58	1060	42	476	19	135	5	681	27	635	25
S3070	Rotating	Boom	7065	15575	30	54	4890	193	1685	66	1160	46	546	21	158	6	819	32	755	30
S3070	Rotating	Stick	6920	15256	70	92	4215	166	1615	64	1160	46	546	21	158	6	819	32	755	30
S3090	Rotating	Boom	9020	19885	30	54	5370	211	1810	71	1300	51	602	24	168	7	910	36	900	35
S3090	Rotating	Stick	8760	19312	90	110	4670	184	1755	69	1300	51	602	24	168	7	910	36	900	35

¹ Calculated with mounting bracket attached

² Length from boom or stick pin to shear tip

SPECIFICATIONS																			
Model	Rotation	Mount Type	Throat Force		Apex Force		Tip Force		Cycle Time (seconds)		Cutting Circuit Max. Pressure		Cutting Circuit Max. Flow		Rotation Circuit Max. Pressure		Rotation Circuit Max. Flow		
			kN	ton-f	kN	ton-f	kN	ton-f	Open	Close	kPa	psi	l/m	gal/min	kPa	psi	l/m	gal/min	
S305	Rotating	Boom	1812	204	653	73	385	43	3.5	2.5	25000	3625	60	16	10000	1450	20	5	
S305	Rotating	Stick	1812	204	653	73	385	43	3.5	2.5	25000	3625	60	16	10000	1450	20	5	
S2050	Straight	Boom	6592	741	3029	340	1667	187	4	3.3	35000	5075	350	92	NA	NA	NA	NA	
S2070	Straight	Boom	9037	1016	3880	436	2110	237	4.3	3.4	35000	5075	530	140	NA	NA	NA	NA	
S2090	Straight	Boom	11746	1320	4754	534	2513	282	4.5	3.4	35000	5075	700	185	NA	NA	NA	NA	
S3015	Rotating	Boom	2425	273	1155	130	618	69	2.9	2.0	35000	5075	125	33	14000	2030	40	11	
S3015	Rotating	Stick	2425	273	1155	130	618	69	2.9	2.0	35000	5075	125	33	14000	2030	40	11	
S3025	Rotating	Boom	3920	441	1787	201	980	110	3.5	2.6	35000	5075	175	46	14000	2030	40	11	
S3025	Rotating	Stick	3920	441	1787	201	980	110	3.5	2.6	35000	5075	175	46	14000	2030	40	11	
S3035	Rotating	Boom	5809	653	2509	282	1328	149	4.2	3.1	35000	5075	250	66	14000	2030	40	11	
S3035	Rotating	Stick	5809	653	2509	282	1328	149	4.2	3.1	35000	5075	250	66	14000	2030	40	11	
S3050	Rotating	Boom	6592	741	3029	340	1667	187	4	3.3	35000	5075	350	92	14000	2030	40	11	
S3050	Rotating	Stick	6592	741	3029	340	1667	187	4	3.3	35000	5075	350	92	14000	2030	40	11	
S3070	Rotating	Boom	9037	1016	3880	436	2110	237	4.3	3.4	35000	5075	530	140	14000	2030	80	21	
S3070	Rotating	Stick	9037	1016	3880	436	2110	237	4.3	3.4	35000	5075	530	140	14000	2030	80	21	
S3090	Rotating	Boom	11746	1320	4754	534	2513	282	4.5	3.4	35000	5075	700	185	14000	2030	80	21	
S3090	Rotating	Stick	11746	1320	4754	534	2513	282	4.5	3.4	35000	5075	700	185	14000	2030	80	21	

MATCHING

EXCAVATORS																				
Model	304	305	307	308	311	312	313	314	315	316	318	320	323	325	326	329-330	336-340	349-352	374	385/390
S305	B	B	S	S																
S3015			B	B	S	S	S	S	S	S	S									
S3025										B	B	S	S							
S3035												B	B	B	S	S	S			
S2050 Straight												B	B							
S3050															B	B		S		
S2070 Straight																B	B			
S3070																	B	B	S	S
S2090 Straight																	B	B		
S3090																		B	S	S

WHEELED EXCAVATORS & MATERIAL HANDLERS												
Model	M313	M315	M316	M317	M318	M320	M322	M322 MH	M324 MH	MH3022	MH3024	MH3026
S3015	S	S	S	S	S							
S3025				S	S	S	S	S	S	S	S	S

SKID STEER & MULTI TERRAIN LOADERS				
Model	257D	259D	279D	289D
S305	B	B	B	B

Primary Match

B = Boom Mount

S = Stick Mount

Note: Machines must be equipped with ROPS/FOPS and heaviest available counterweight.

Machines mounting rotating shears must have tool control with medium pressure; and boom/stick high pressure and medium pressure lines

LET'S DO THE WORK.™

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

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

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