



**BREAKER  
TECHNOLOGY,  
INC.**

an Astec company

# SH SERIES Hydraulic Shears

*BTI's SH Series of Hydraulic Shears provide a powerful and efficient means to cut steel beams and rebar; crush concrete, as well as pick up and sort materials. Useful in scrap yards and demolition sites, the SH Series are high production, low maintenance units.*

## Features & Benefits

### Long Life and Reliability

Constructed of high grade steel, the structure is designed with maximum strength and reliability for a long service life.

Hydraulic connections have side outlets for quick and easy pressure testing.

Reversed large bore hydraulic cylinder provides protection of the cylinder rod.

A large diameter rotation bearing utilizes 2 rows of ball bearings giving maximum durability.

### Easy and Accurate Positioning

Designed with a full 360 degree hydraulic rotation and cross over protection valve to protect the motor and components from external forces.

Narrow profile improves visibility.

### Power and Speed

The large bore hydraulic cylinder combined with our exclusive speed/regeneration valve provides superior cutting force and cycle time.

Guide slide, puck system reduces jaw stress and helps to eliminate jamming.

The additional front blade increases cutting capacity and eliminates wear inside the lower jaw.

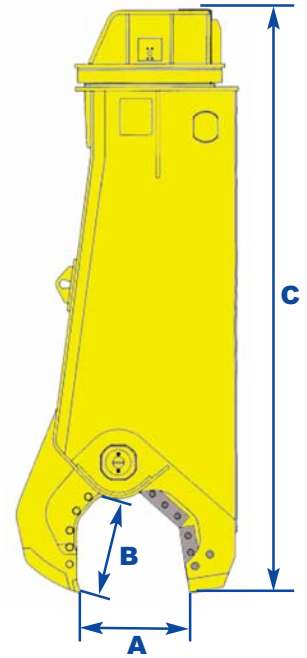
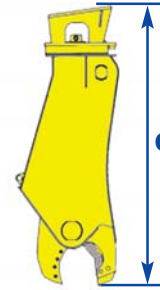


### Low Maintenance

Front blade and blade guide can be reversed 2 times. The primary and secondary blades are designed to be reversed/rotated 4 times.

The improved open main frame improves visibility, allowing quick maintenance inspections without giving up any main body flexing.

# SH Series Hydraulic Shears



General Specifications		Units	SH25R	SH50R	SH180R	SH310R	SH410R	SH550R	SH700R	SH1000R
Recommended Carrier Weight - 2nd member - 3rd member		tonne	2-3	3.5-4.5	13-20	20-28	26-38	35-45	40-60	70-80
		tonne	4-5	5.5-6.5	18-27	28-37	38-50	50-60	60-80	110-125
Approximate Shear Weight (does not include standard coupler)		lbs	750	1,257	3,968	6,834	9,480	12,125	16,094	23,810
		kg	340	570	1,800	3,100	4,300	5,500	7,300	10,800
Working Pressure		psi	2901-3626	3626-4351	4351-4641	4351-4641	4351-4641	4351-4641	4351-4641	4351-4641
		bar	200-250	250-300	300-320	300-320	320-350	320-350	320-350	320-350
Oil Flow Required		gpm	16-26	24-32	40-53	53-66	66-79	73-99	132-159	159-211
		l/min	60-100	90-120	150-200	200-250	250-300	275-375	500-600	600-800
Opening (A)		in	7.3	9.4	16.7	22.0	25.6	29.5	32.7	41.3
		mm	185	240	425	560	650	750	830	1,050
Throat to Tip (B)		in	6.3	9.4	16.7	22.2	25.6	25.6	29.5	32.7
		mm	160	240	465	565	650	650	750	850
Reach (C)		in	53.1	74.8	110.6	133.9	147.6	155.5	172.0	204.7
		mm	1,350	1,900	2,810	3,400	3,750	3,950	4,370	5,200
Cutting Force (Primary Blade Center)		tons	66	88	137	221	284	320	446	600
Open/Close Speed		seconds	1.8/2.4	2.0/2.8	1.7/1.9	3.7/2.5	3.7/4.0	4.1/4.3	3.5/2.8	5.3/3.5
Cutting Table	Rod	mm	40	50	55	70	90	100	120	150
	Tube	mm	114x4	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	IPE	mm	120x55	n.d.	270	300	450	500	600	900
	HEA	mm	n.d.	100	120	200	320	360	400	600
	Plate	mm	6	8	12	14	20	22	25	35
	L profile	mm	100x10	120x10	120x12	n.d.	200x24	220x24	240x24	n.d.

All dimensions and specifications are approximate and subject to change without notice.



A heavy duty bearing using a double row of balls provides a longer service life than the typical single row.



Rather than relying on the carrier's relief valve, a motor protection valve is incorporated protecting the motor and gear box from external forces, ensuring a long service life on all rotation components.

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