

TELSMITH

an Astec company



SBX™

SECONDARY CONE CRUSHER

The Model SBX is a modern, high production secondary cone crusher specifically designed for large, extra coarse feed material. Available in three models, 44 SBX (300 HP), 52 SBX (400 HP) and 57 SBX (500 HP), the SBX cone serves the mining and aggregate industries with reliable high performance.

Fitting into secondary crushing circuits that used to require larger crushers, the SBX can reduce the capital requirements for plant expansion projects. Accepting extra coarse feed, the SBX allows primary crushers to operate at larger settings and at greater capacities, providing opportunities to increase plant production with minimum investment.

An evolution from the productive SBS cone crusher, the SBX incorporates new internal components that significantly increase the feed opening while maintaining optimum crushing characteristics. The SBX also incorporates modern features identical to those in the SBS design.

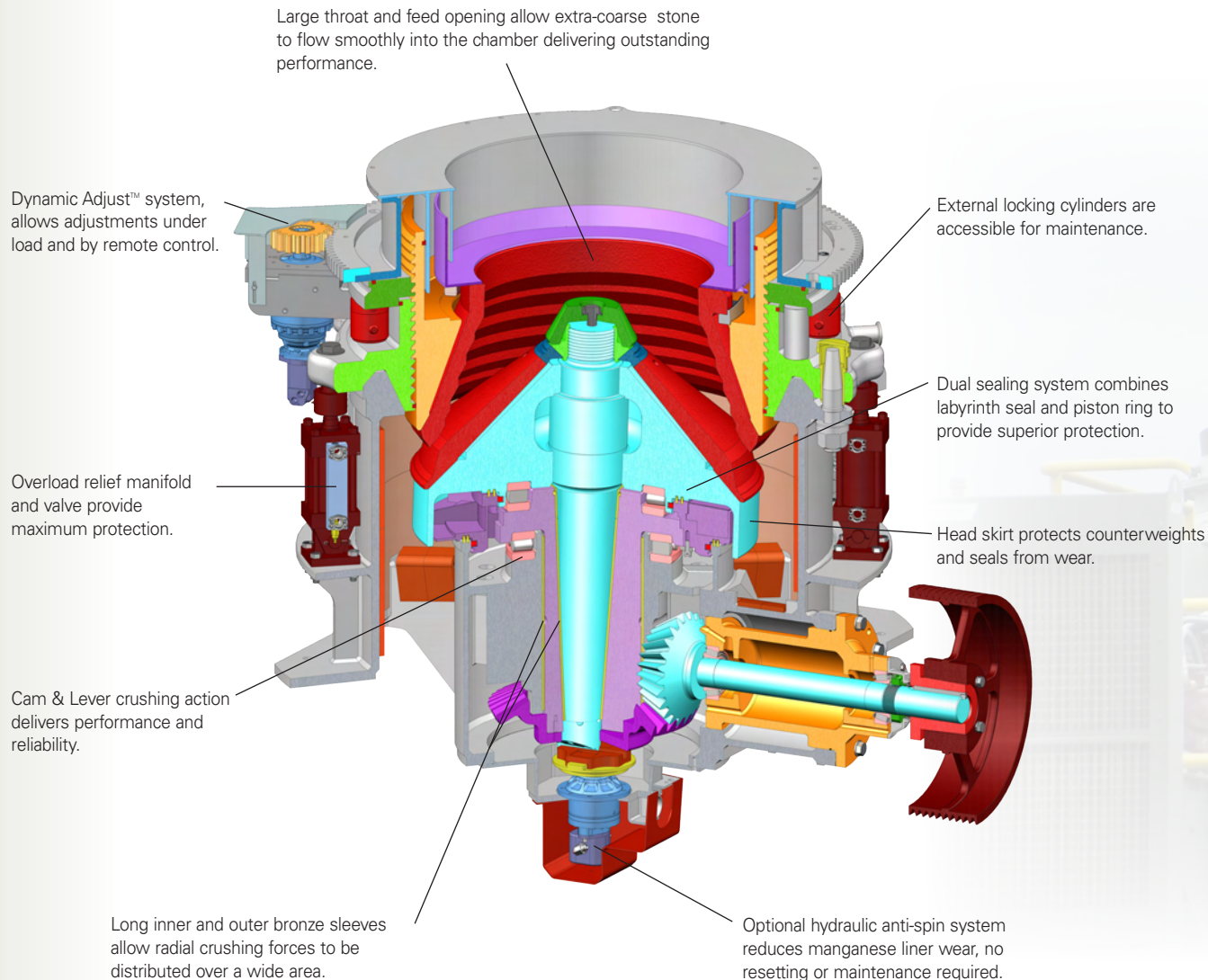
Dynamic Adjustment allows fingertip setting

control and a digital display to track the setting during adjustment.

A patented relief and clearing system provides greater protection from overload conditions and a safe / quick start-up following a power failure.

The optional **TRAC10™** automated control system plugs right into the SBX, enhancing crusher performance and reliability. The auto protect mode automatically creates an alarm and opens the crusher when overloading occurs. Setting adjustment and liner calibration are enabled from the control house using a touch screen interface. Liner wear tracking helps plan maintenance. Alarm tracking and trending reports help with troubleshooting.

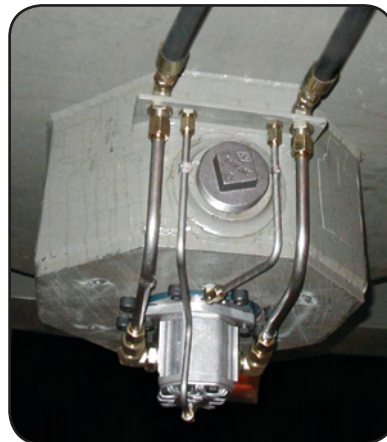
Sharing common design concepts and many components between the SBX and SBS allows the plant manager to be efficient with parts inventories, maintenance planning and employee training. Combining performance, reliability, ease of operation and outstanding Telsmith support, the SBX is the ideal choice for secondary crushing circuits.

SBX™ SECTION VIEW:**SBX™ ANTI-SPIN SYSTEM:**

In most installations an anti-spin system will deliver longer manganese life and promote a more cubical product.

The Telsmith hydraulic anti-spin design is the most advanced available. Utilizing a small hydraulic motor, coupled to the main shaft, the head is only allowed to spin in the crushing direction. No regular maintenance is required and the hydraulic system automatically resets itself.

An advanced design, the hydraulic anti-spin also interfaces with automation systems to provide greater crusher protection and automatic setting calibration.



DYNAMIC ADJUSTMENT:

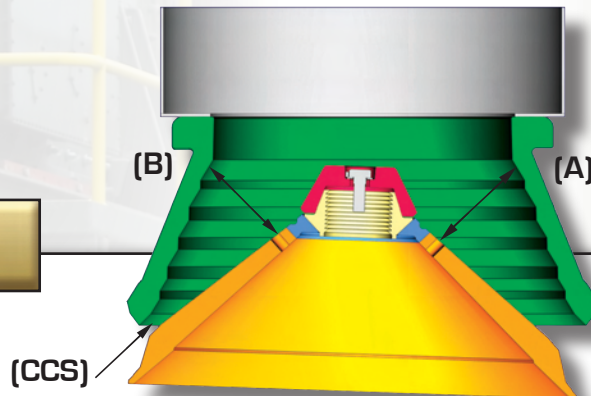
The SBX Dynamic Adjust™ system is designed to maximize plant efficiency. It enables adjustment under load and remote computer automation. Adjusting the crusher is as simple as pushing a button.

The SBX hydraulic console includes a digital display to show the current setting. As you adjust the crusher, the display continually tracks the setting to provide you with exacting control.

The Dynamic Adjustment™ system also includes a high-speed extract mode (used when changing liners) that doubles the rotating speed of the support bowl. The result – faster crusher disassembly and cost savings.



LINER SELECTION:



Model	Bowl	Recommended Minimum Closed Side Setting (CSS)		Feed Opening at Minimum Closed Side Setting (CSS)			
				Closed Side (B)		Open Side (A)	
44 SBX™	X-Coarse	1-3/4"	45 mm	9-3/8"	238 mm	10-1/2"	267 mm
52 SBX™	X-Coarse	1-3/4"	45 mm	11-1/2"	292 mm	12-7/8"	327 mm
57 SBX™	X-Coarse	1-3/4"	45 mm	13"	330 mm	14"	355 mm

Specifications - Model SBX™ Crushers

Model	44 SBX™	52 SBX™	57 SBX™
HP Required	200-300	300-400	400-500
Crusher Flywheel RPM	665-705	585-630	685-715
Shipping Weight	36,500 Lbs.	54,000 Lbs.	77,200 Lbs.
	16,556 Kg.	24,929 Kg.	35,018 Kg.

SIZE AND MODEL CHARTS:

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Open Circuit Crushing Capacities - **SBX™** Series Cone Crusher

Model	Total throughput at discharge setting (CSS) shown			
		1-3/4" 45 mm	2" 51 mm	2-1/4" 57 mm
44 SBX™	stph	360-455	380-500	400-520
	mtph	324-410	345-454	363-472
52 SBX™	stph	410-530	455-585	470-620
	mtph	369-477	410-527	427-563
57 SBX™	stph	565-730	635-820	690-900
	mtph	509-657	572-738	627-818

Model **SBX™** Typical Product Gradations

Sieve Size		Closed Side Settings		
US	mm	1-3/4" 45 mm	2" 51 mm	2-1/4" 57 mm
5"	130		100%	100%
4"	100	100%	99%	97%
3-1/2"	89	99%	97%	93%
3"	76	97%	93%	84%
2-1/2"	64	93%	83%	68%
2"	51	79%	66%	50%
1-3/4"	45	69%	54%	40%
1-1/2"	38	58%	44%	30%
1-1/4"	32	45%	35%	23%
1"	25	35%	27%	18%
7/8"	22	30%	23%	15%
3/4"	19	26%	20%	12%
5/8"	16	22%	17%	10%
1/2"	13	18%	14%	8%
3/8"	9.5	14%	11%	6%
1/4"	6.4	10%	8%	4%
4m	4.7	8%	6%	3%
8m	2.4	4%	3%	2%
16m	1.2	3%	2%	2%
30m	0.6	2%	2%	1%
50m	0.30	2%	2%	1%
100m	0.15	1%	1%	1%
200m	0.07	1%	1%	1%

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