

HYDRA-JAW[®]

SERIES JAW CRUSHERS

SAFE ■ RELIABLE ■ VERSATILE



H2238 H2550 H3244 H3450



TELSMITH

an Astec Industries Co.

HYDRA-JAW[®] CRUSHERS

OVERVIEW



The Telsmith Hydra-Jaw[®] models combine a century of experience with the most advanced jaw crusher technology available today. From a distance, the most obvious element of the Hydra-Jaw[®] is the sculpted, low profile look. The result is a dependable, highly productive line of jaw crushers that are safe to operate, easy to maintain and deliver greater uptime availability.

Jobsite Versatility

FEA (Finite Element Analysis) designed; the sculpted main frame reduces weight while maintaining strength and reliability. Designed with multiple foot mount locations, the low profile jaw fits into a chassis and is ideally suited for track or wheeled portable plant mounting, as well as modular applications.

Streamlined Operation & Maintenance

Incorporating a unique hydraulic toggle, the Hydra-Jaw[®] provides functionality not available on traditional jaw crushers.

- **Hydraulic Adjustment** practically eliminates adjustment downtime. Fingertip controls allow operators to adjust the crusher whenever it will benefit production and not have to wait until maintenance time allows.
- **Automatic Overload Relief** allows owners to avoid the expensive downtime and repairs that can result from tramp metal entering the crusher.
- **Hydraulic Chamber Clearing** allows the operator to safely clear the crusher, from a location, eliminating downtime and keeping employees safe. Crushing operations can resume in minutes following an emergency stop.

Combining outstanding performance, rugged endurance, low maintenance requirements and safe / simple operation, the Hydra-Jaw[®] is providing mineral processing professionals a new way to achieve greater operating efficiency.



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HYDRA-JAW® FEATURES

Productivity:
True feed opening,
measured peak
to peak, accepts
larger feed.

Safety:
Impact plate
protects the
pitman from wear.

Stability:
Balancing the
crusher reduces
dynamic loading
on the structure.

Reliability:
Fabricated main
frame is FEA
designed and stress
relieved for rugged
dependability.

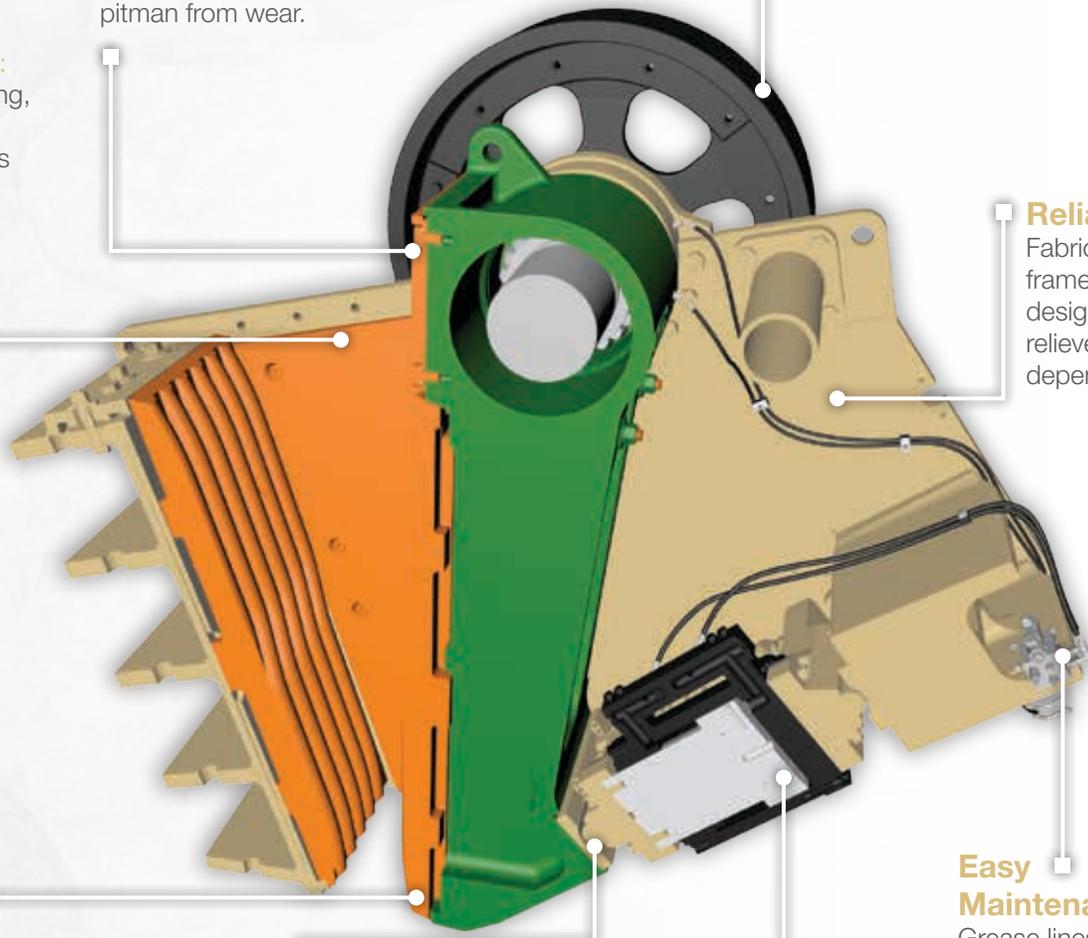
Durability:
For maximum wear
utilization, jaw dies
are interchangeable
between the swing
and stationary jaws as
well as reversible top
to bottom.

Cost Savings:
Replaceable toggle
ends provide an
inexpensive answer
to inevitable toggle
wear.

**Uptime
Optimization:**
Hydraulic toggle reduces
maintenance and lowers
operating costs with:

- Hydraulic Adjustment
- Hydraulic Relief
- Hydraulic Chamber
Clearing

**Easy
Maintenance:**
Grease lines are
plumbed to a central
distribution point for
quick access.



ADVANCED HYDRA-JAW® TECHNOLOGY

Adjustments made fast,
safe and simple.

Innovative in its simplicity, the Hydra-Jaw® toggle tensioning system saves time and costs by eliminating the need to adjust springs when changing the setting.

A simple mechanical spring assembly secures each hydraulic toggle end to its respective toggle seat. By securing each end independently, there is no need to adjust the springs when the setting is changed. Quick to assemble and reliable in operation, the assembly requires no special tools or maintenance.



Hydra-Jaw® Hydraulic Cylinder

The core of the TelSmith hydraulic toggle system is the robust Hydra-Jaw® hydraulic cylinder. Custom built specifically for the crushing environment, the cylinder incorporates a large piston for high crushing forces and an “oversized” rod for stability and strength. The unique bushing and seal are designed to hold up to the rigors of constant crushing in a dusty environment to deliver long service life with minimal maintenance.



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HYDRAULIC TOGGLE SYSTEM

Telsmith's advanced hydraulic toggle design reliably delivers features that can benefit every producer with reduced downtime and lower maintenance costs. Hydraulic adjustment, overload relief and chamber clearing can combine to eliminate days of downtime yielding a significant reduction in operating costs year after year.

Hydraulic Adjustment

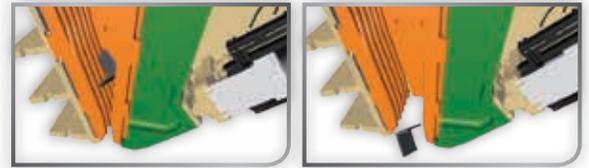
Using the hydraulic control panel, the operator adjusts the crusher in moments. No spring adjustment or tools are needed. When compared with traditional shim adjustments, this approach eliminates as much as 1 hour of downtime with every adjustment.



The ease and speed with which changes can be made allows for frequent adjustments. By maintaining the optimum feed size for the next stage of crushing, the plant yields greater productivity and improved quality control.

Hydraulic Overload Relief

Designed to prevent catastrophic failure that may cause expensive downtime and repairs, the hydraulic overload relief system protects the crusher from tramp metal or other uncrushables.

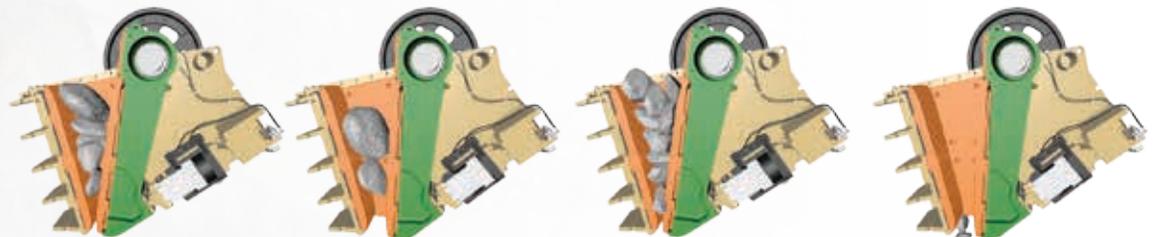


The hydraulic relief system automatically senses an overload condition, allowing the crusher to open and the tramp metal to pass. The crusher will automatically reset to the assigned discharge setting for continued operation.

Hydraulic Chamber Clearing

Following a power failure or emergency stop, Telsmith's unique hydraulic chamber clearing system allows the crusher to start up in as little as 15 minutes. Through push button controls, hydraulics crush any stone that remains in the chamber preventing

oversized material from passing onto the product belt. Your workers stay safe, no digging out the crusher or clearing off the belt, and the plant starts back up as if nothing had happened.



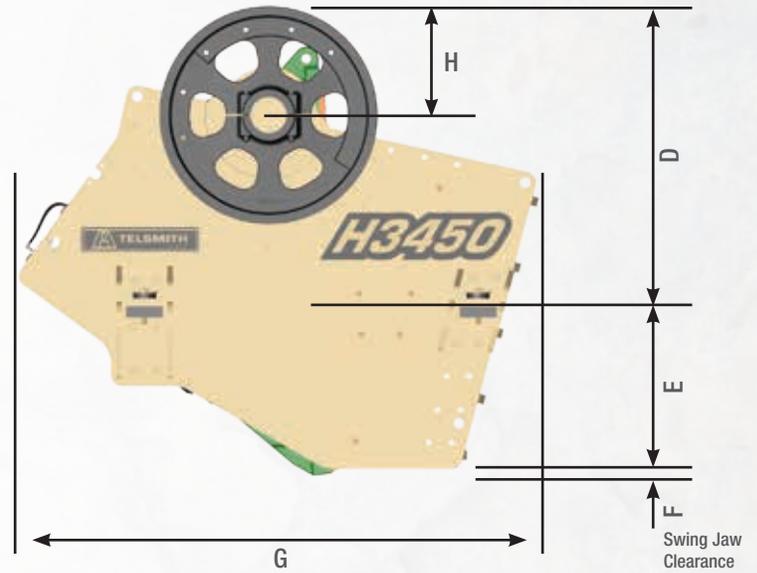
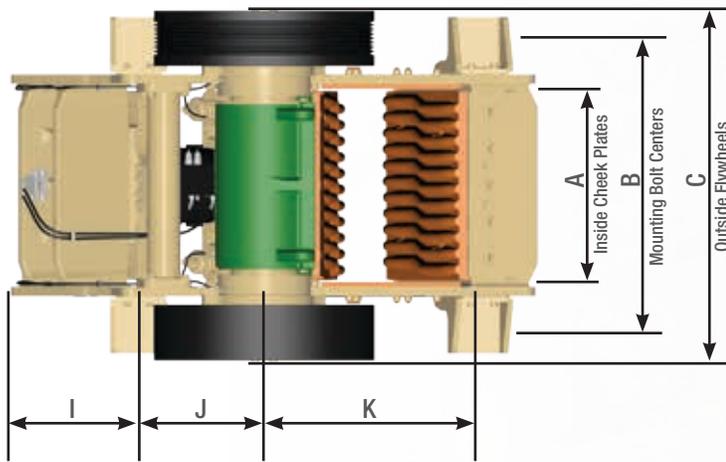
Need to clear before restarting

Open for smaller material to clear

Close to crush oversized material

Open to clear and back to work

DIMENSIONS & SPECIFICATIONS



General Dimensions

	H2238		H2550		H3244		H3450	
	US	Metric	US	Metric	US	Metric	US	Metric
A	38.0"	965 mm	50.0"	1270 mm	44.0"	1118 mm	50.0"	1270 mm
B	52.2"	1326 mm	69.2"	1758 mm	68.9"	1750 mm	76.9"	1952 mm
C	73.1"	1857 mm	84.3"	2141 mm	81.3"	2065 mm	91.4"	2321 mm
D	61"	1549 mm	66.9"	1700 mm	84.9"	2157 mm	77.9"	1979 mm
E	22.7"	577 mm	23.2"	590 mm	21.9"	557 mm	44.5"	1129 mm
F	1.5"	38 mm	3.4"	86 mm	4.3"	109 mm	1.2"	29.1 mm
G	96.9"	2460 mm	104.8"	2662 mm	121.0"	3072 mm	136.3"	3461 mm
H	23.6"	600 mm	25.6"	650 mm	26.9"	682 mm	28.5"	725 mm
I	16.4"	416 mm	16.5"	420 mm	30.1"	765 mm	33.0"	839 mm
J	30.2"	768 mm	36.6"	929 mm	23.0"	585 mm	32.5"	826 mm
K	34.7"	882 mm	32.7"	831 mm	46.3"	1175 mm	54.7"	1389 mm



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DIMENSIONS & SPECIFICATIONS

General Specifications

		H2238		H2550		H3244		H3450	
		US	Metric	US	Metric	US	Metric	US	Metric
Weight <i>(includes hydraulic power unit)</i>		22,750 lbs	10,319 kg	35,600 lbs	16,148 kg	42,100 lbs	19,097 kg	61,345 lbs	27,825 kg
Jaw Opening (standard die)		22 in x 38 in	559 mm x 965 mm	25 in x 50 in	635 mm x 1270 mm	32 in x 44 in	813 mm x 1118 mm	34 in x 50 in	863 mm x 1270 mm
Recommended Motor		125 hp	93 kw	150 hp	112 kw	150 hp	112 kw	200 hp	147 kw
Recommended Crusher RPM		275 rpm		250 rpm		260 rpm		260 rpm	
Lubrication	Standard	Grease - with lines routed to central distribution point							
	Optional	Automatic grease system							
Miscellaneous Hardware		All bolts and hardware are metric standard							
Hydraulic System	Tank Capacity	20 gallons	75.7 liters	20 gallons	75.7 liters	20 gallons	75.7 liters	20 gallons	75.7 liters
	Motor	7.5 hp	5.6 kw	7.5 hp	5.6 kw	7.5 hp	5.6 kw	7.5 hp	5.6 kw

Hydra-Jaw® Crusher Capacities

Crusher Model	Units	Crusher Closed Side Setting								
		2"	2 1/2"	3"	3 1/2"	4"	5"	6"	7"	8"
		(51 mm)	(63 mm)	(76 mm)	(90 mm)	(102 mm)	(127 mm)	(152 mm)	(178 mm)	(203 mm)
H2238	stph	100 - 155	120 - 195	135 - 220	150 - 240	165 - 270	190 - 310	220 - 370		
	mtph	91 - 141	109 - 177	122 - 200	136 - 218	150 - 245	172 - 281	200 - 336		
H2550	stph		160 - 260	180 - 295	200 - 320	220 - 360	250 - 405	295 - 485		
	mtph		145 - 236	163 - 268	181 - 290	200 - 327	227 - 367	268 - 440		
H3244	stph			175 - 265	190 - 285	205 - 335	240 - 360	285 - 425	325 - 530	
	mtph			159 - 240	172 - 259	186 - 304	218 - 327	259 - 386	295 - 481	
H3450	stph					302 - 455	342 - 513	377 - 570	425 - 646	456 - 688
	mtph					270 - 406	305 - 458	337 - 509	380 - 577	407 - 614

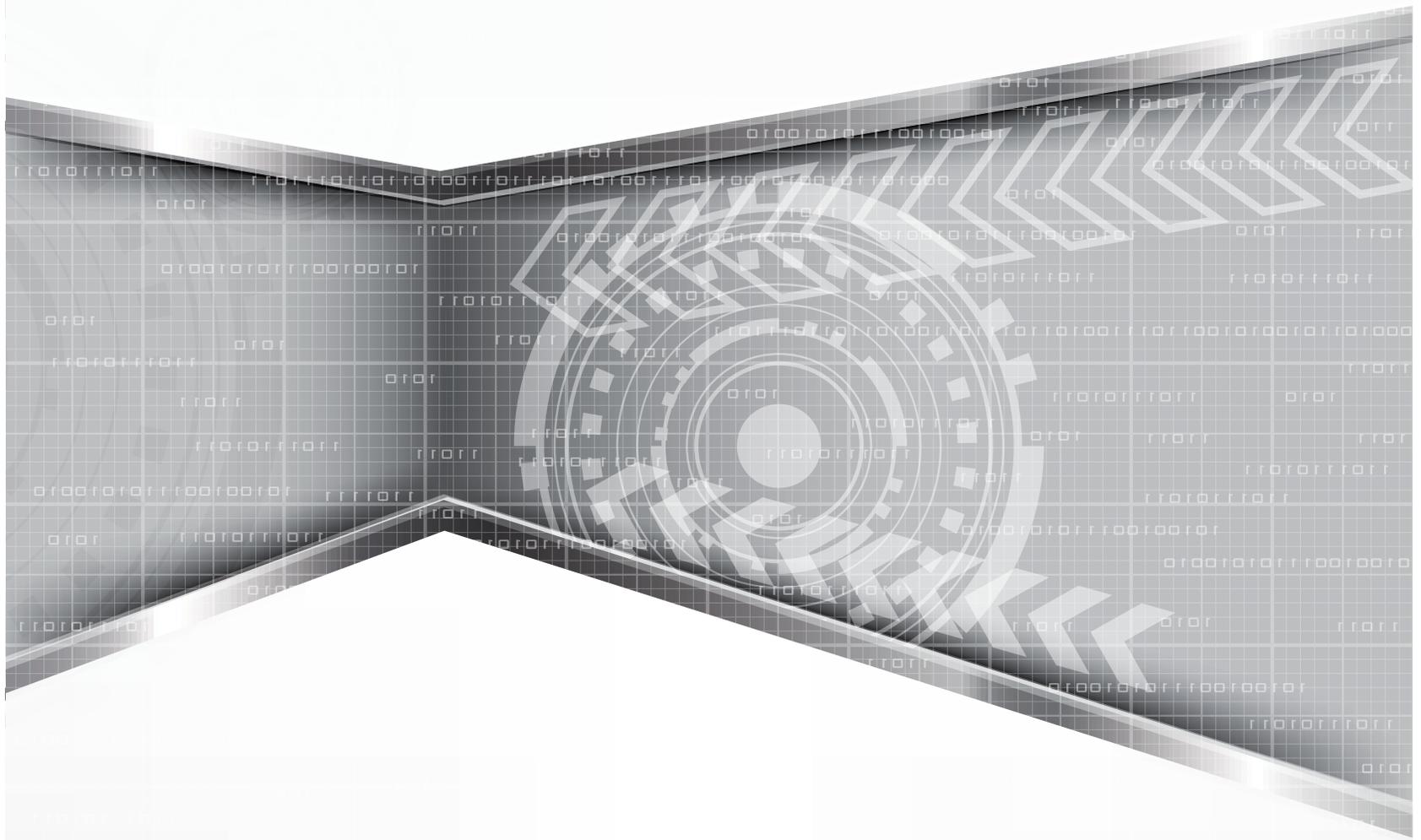
Notes:

- Capacities are approximate total throughput based on an average material having a bulk density of 100 lbs/ft³.
- Throughput capacity will vary depending on the type of material, feed gradation, moisture content, feed method and other site specific operating conditions.

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