

<mark>Jaw Crushers</mark> TJ2440



Cedarapids® Static

TJ2440 Series Jaw Crushers

The new TJ2440, 24" inlet gape by 40" inlet width, single toggle is a full hydraulic adjusted jaw crusher and is one of the most aggressive and productive jaws in the market in its size range. The jaw is a fully welded construction with cast front end frame, rear end frame and swingstock.

The large eccentric throw and steep toggle plate angle result in a consistently large stroke of the jaw resulting in higher productivity and reduction ratios.

Typical applications for our single toggle jaw crushers are in mining, quarrying and recycling.

Highlights

- High productivity and reduction
- Deep jaw design
- Aggressive crushing action
- Full hydraulic closed side setting adjustment
- High strength welded mainframe construction
- Full range of jaw liner profiles to suit all applications

Reliable operation with minimal downtime

Oversized self aligning spherical roller bearings. Grease-purged labyrinth dust seals. Bolt on outer bearing cartridges.

Smooth and Efficient Crushing High inertia and well-balanced flywheels.

Simple Maintenance

Protected swing jaw liner retention wedge. Wrap over fixed jaw liner, added protection to cast front end frame. Through bolt fixed jaw liner dual wedge retention, allowing for easier liner removal.

Easy & Reliable Adjustment

Push button CSS adjustment. Dual tapered wedge design, with 2 externally mounted hydraulic adjustment cylinders. Hydraulically compressed spring coil tension rod.

Long Life, Low Maintenance and Reduced Operating Cost

Precision machined cast steel jaw holder with "rolling-end" non-lubricated toggleplate and seats. Fabricated mainframe, well respected in the industry, to provide extreme reliability in arduous applications.

Additional Protection for Front End Frame & Swingstock

Front end frame and swingstock liner seating surfaces protected by replaceable weld on backing plates.

Simple Installation

Standard mounting base design for easy "drop-in" installations. Jaw mounting feet floating arrangement to reduce structural stresses.

Main Frame & Base Mount

Heavy duty, fully welded chamber with cast Front-End Frame, Rear-End Frame and jaw holder swingstock.

Fabricated steel base seating frame allowing for quick and easy "drop-in" installations on new structures or replacements.

"Floating" foot mounted designs greatly reducing structural stress and vibration.

Jaw Holder, Mainshaft & Bearings

The jaw holder is designed for a deep crushing chamber and is a one-piece high strength casting.

The main shaft is a large diameter forged and tempered alloy steel suitable for heavy duty high stress inducing applications.

Over sized self aligning grease lubricated spherical roller bearings are utilized for the jaw holder and mainframe bearings. Bearings utilize non-contact grease purging labyrinth seals to ensure no contaminants gain ingress.

Closed Side Setting Adjustment

The crusher closed side setting adjustment is carried out by the touch of a button, made possible by the dual tapered wedge pack with two externally mounted hydraulic adjustment cylinders and the slim line hydraulic tension rod assembly.

The wedge pack is fully enclosed in the cast rear-end frame giving added protection from dirt and debris ingress.

Self contained externally mounted hydraulic power unit, on a basic skid mount, gives easy access for controls and maintenance.

Manganese Jaw Liners and Retention Wedges

Reversible wear resistant jaw plates, cast from a strict quality-controlled Manganese alloy supplying extended wear life in all applications.

Multiple jaw face profiles allowing for maximum production and reduction.

Front-end frame and swingstock castings both additionally protected with a weld in replaceable steel backing plate.

Fixed jaw liner retained with easy fit and fast release wedge retention system that utilizes the wrap over ends of the liner plate that also give additional protection to the front-end frame discharge end of the casting. The side access retention system eliminates the need to gain access into the jaw chamber for liner changes.

The swing jaw locking wedge sits behind the liner extending its operational life.

Toggle Plate and Toggle Seats

The high buckle load toggle plate is securely supported on both ends by low friction steel seats.

- No lubrications required.
- The system can handle high crushing loads.
- Increased life expectancy of the toggle plate and seats







Cedarapids[®] Static TJ2440 Series Jaw Crushers

Standard Features

- One button hydraulic CSS adjustment.
- Slim line hydraulic tension rod system.
- Electro-hydraulic externally mounted hydraulic power unit and all required hosing.
- Quick change fixed and swing jaw retention systems.
- Reversible jaw plates, with multiple liner profiles.
- Liners outfitted with safety lift points.
- Fixed jaw wrap over protection.
- High strength welded main frame.
- 2 piece check plates.
- Oversized self aligning grease lubricated mainframe and swingstock bearings.
- Non-contact grease purging labyrinth seals.
- Floating feet mounting to reduce structural stresses and vibrations.
- One piece base mount frame for easy "drop-in" installations.
- Well balanced, high inertia flywheels.
- Market leading aggressive jaw stroke resulting in high productivity.





Dimensions & Specifications



Model	А	В	С	D	E	F	G	Н
TJ2440 &	82.64"	92.26″	80″	65.2"	69.7"	27.56″	52.16"	15.75″
HPU	(2099 mm)	(2445mm)	(2034 mm)	(1656 mm)	(1770 mm)	(700 mm)	(1325 mm)	(400 mm)

Footnote: Dimensions shown are approximate only and are subject to change. Use only certified installation drawings for construction purposes.

Model	*Gross Weight	Power	RPM Range	JAW Inlet Opening	** CSS Range	Flywheel Diameter
TJ2440	26,914 lbs (12,208 kg)	150 hp (110 kW)	250-300rpm	24" x 40" (600 mm x 1000 mm)	1.6" - 5.7" (40 - 145 mm)	48″ (1220 mm)

*Gross weight includes the base mounting frame.

**Minimum CSS application specific & liner profile used: Recycle 40mm and Quarry 50mm.

Stationary Jaw Die Measure from peak of movable to valley of stay.



Estimated Production Capacities & Product Gradings Capacities

The TJ2440 is a single toggle jaw crusher, designed for tight closed side settings while retaining an aggressive nip angle and crushing stroke resulting in maximum productivity.

The below production capacity table supplies the typical expected range of chamber output tonnage but note the table and its tonnage figures require careful interpretation based on the material to be crushed, its input feed grading and the application as the crusher's output performance is greatly affected by the feed materials properties and method of feed.

	Approximate Capacities*								
Model	CSS	1.6" 40 mm	2" 50 mm	2.5" 64 mm	3" 75 mm	3.5" 90 mm	4" 100 mm	5" 125 mm	5.7" 145 mm
TJ2440	STPH	68-90	83-116	106-150	116-171	146-212	154-243	198-298	220-320
	MTPH	62-82	75-105	96-136	105-155	132-192	140-220	180-270	200-290

*Approximate throughput based on a dry, free flowing medium hard rock with a Work Index of 16 & Bulk Density 100lbs/ft³ or 1600kg/m³

Product Gradation

The table below giving the expected percent passing at a given CSS are based on a feed material that is dry and free flowing of a medium hard nature with a Work Index of 16.

The following factors of the feed material will make a markedly affect on the actual results will be:

- Structure and friability of the feed material.
- Compressive strength and crushability of the material.
- Grading of feed material.
- Moisture content of the feed material.
- Choke level of the jaw chamber.
- Consistency of feed.

Please consult with the factory if the application deviates from the norm and they will best advise as to changes to expected outcomes.

The product gradings supplied in the table below are to be used for guidance purposes only, they are not a guarantee as actual results will vary based on the nature of the application and feed criteria.

CSS	1.6" 40 mm	2" 50 mm	2.5" 64 mm	3" 75 mm	3.5" 90 mm	4" 100 mm	5" 125 mm	5.7" 145 mm			
* Maximum Feed Size	21.25" 540 mm										
Product Size	Percent passing										
10" 250 mm								100			
9" 225 mm								99			
8" 200 mm							100	96			
7" 175 mm						100	98	92			
6" 150 mm					100	99	92	84			
5" 125 mm				100	98	94	83	74			
4" 100 mm			100	96	90	84	70	60			
3" 75 mm		100	91	82	70	63	50	42			
2.5" 63 mm	100	91	80	68	57	51	40	35			
2" 50 mm	93	78	64	52	43	39	30	25			
1.6" 40 mm	83	64	50	39	33	29	22	18			
1.1" 28 mm	62	45	36	27	22	20	14	12			
3/4" 20 mm	42	30	24	17	14	12	9	7			
1/2" 14 mm	28	20	17	12	10	9	6	5			
0.4" 10 mm	18	14	11	8	5	5	4	4			
0.2" 5 mm	7	5	5	4	4	3	3	2			

*Maximum Feed Size will vary based on liner configurations used. Stated max feed size is 90% of feed opening with standard liners.



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