

**HEAVY-DUTY JAW CRUSHERS**

## LIPPMANN HEAVY-DUTY JAW CRUSHERS... YOUR BEST VALUE IN PRIMARY CRUSHING



- Heavy-duty, oversized heat treated shafts forged of special alloy to handle overloads and hard material.
- Radial thrust tapered roller bearings, the best design for absorbing and withstanding shock, radial and thrust loads.
- Longer jaw length to provide increased crushing area, steeper nip angle and increased capacity.
- Curved jaw dies to provide non-choking crushing action, reversible for increased wear.
- Rugged frame with heavy-ribbed steel plate construction at stress points, stress-relieved by heat treating before machining. Inside contact surfaces are fully machined.
- Lubrication easily checked. Positive oil-level gauges assure correct lubrication of bearings.
- Protected pitman hub with rock ribs reduce wear due to feeding of oversized material.
- Cheek plates are one-piece or two-piece for easy replacement.
- Positive setting adjustment shims provide easy change of discharge opening with aid of hydraulic pumps.
- Extension wedges hold jaw dies rigidly across full width.
- Dynamically balanced flywheels reduce vibration on either portable plant or stationary installations.
- Toggle plate is set at an optimum angle for maximum crushing action and for highest possible crushing capacity.

# STATIONARY OR PORTABLE, LIPPMANN OFFERS COST-EFFECTIVE SOLUTIONS FOR YOUR NEEDS



# LIPPMANN HEAVY-DUTY JAW CRUSHERS OFFER SUPERIOR QUALITY, UNMATCHED RELIABILITY & MAXIMUM CAPACITY

## PROPER MOTION PROVIDES INCREASED CAPACITY

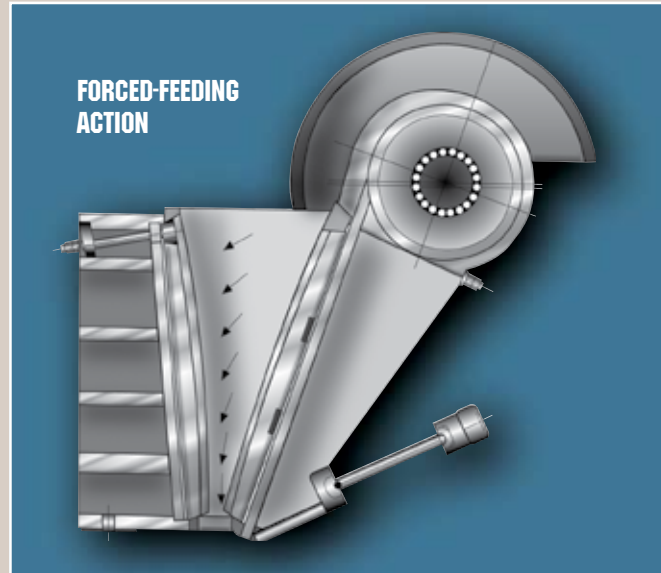
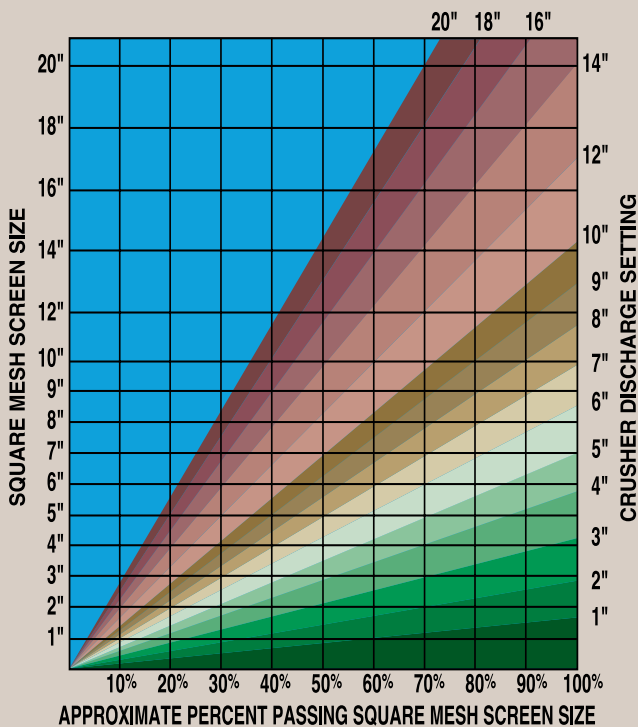
The Lippmann Milwaukee jaw is an overhead eccentric type jaw crusher that does not rely upon gravity alone to move material through the chamber. Instead, it provides a forced-feeding action, which results from the inward and downward eccentric movement of the swing jaw.

## GREATER RATIO OF REDUCTION

The Lippmann Milwaukee jaw has longer jaw dies, a larger eccentric and a non-choking design. The longer jaws also mean a reduction in nip angle, resulting in a more positive bite. The Lippmann Milwaukee jaw can also have a smaller discharge setting than other crushers allowing for a higher degree of flexibility with related equipment.

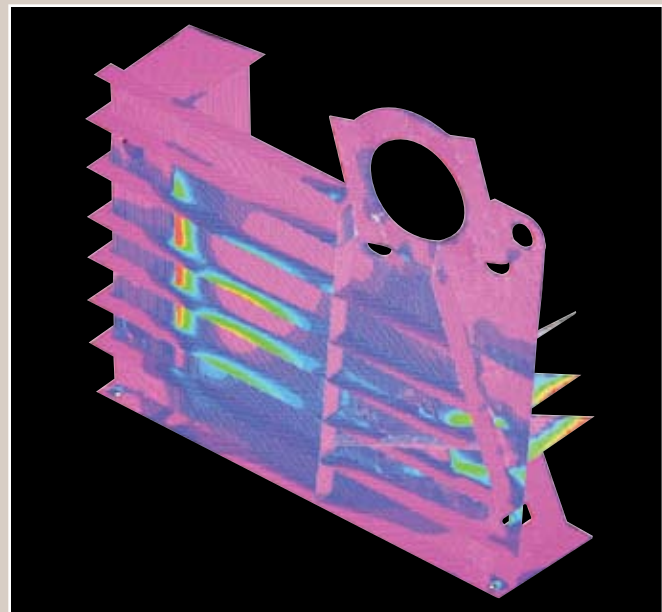
## Typical Gradation Curve

Gradation may vary depending on feed size, condition and characteristics.



## FINITE ELEMENT ANALYSIS FOR SOUND DESIGN

Maximum strength at all stress points is necessary to assure strong, trouble-free crusher operation. To this end, extensive stress analysis is performed using finite element analysis techniques along with classical engineering mechanics.



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### **PREMIUM QUALITY TAPERED ROLLER BEARINGS**

For optimum bearing life, only tapered roller bearings are used. The tapered roller bearing has a combination of features that no other type of bearing can provide. These features are adjustable clearance, line contact, true rolling motion and ability to carry both radial and thrust loads. In addition, bearings are oil lubricated - the best method of lubrication recommended by bearing manufacturers.



### **CIRCULATING OIL LUBRICATION SYSTEM**

Optional oil lubrication system available, especially for use with larger jaw crushers. Motor driven oil pump starts before the crusher is started to pre-lube the bearings. The oil is filtered as it is pumped through the lubrication system. A large oil tank provides a cooling and supply reservoir. Three sight glasses with temperature gauges indicate flow and temperature from the bearings.



### **HEAVY-DUTY FORGED ECCENTRIC SHAFT**

All Lippmann Heavy-Duty Jaw Crushers feature a massive, oversized, heat-treated shaft forged of special alloy to provide an exceptionally large eccentric throw, and to handle overloads and hard materials.

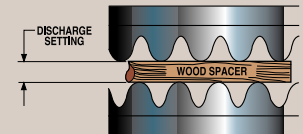


# CAPACITIES AND DISCHARGE SETTINGS

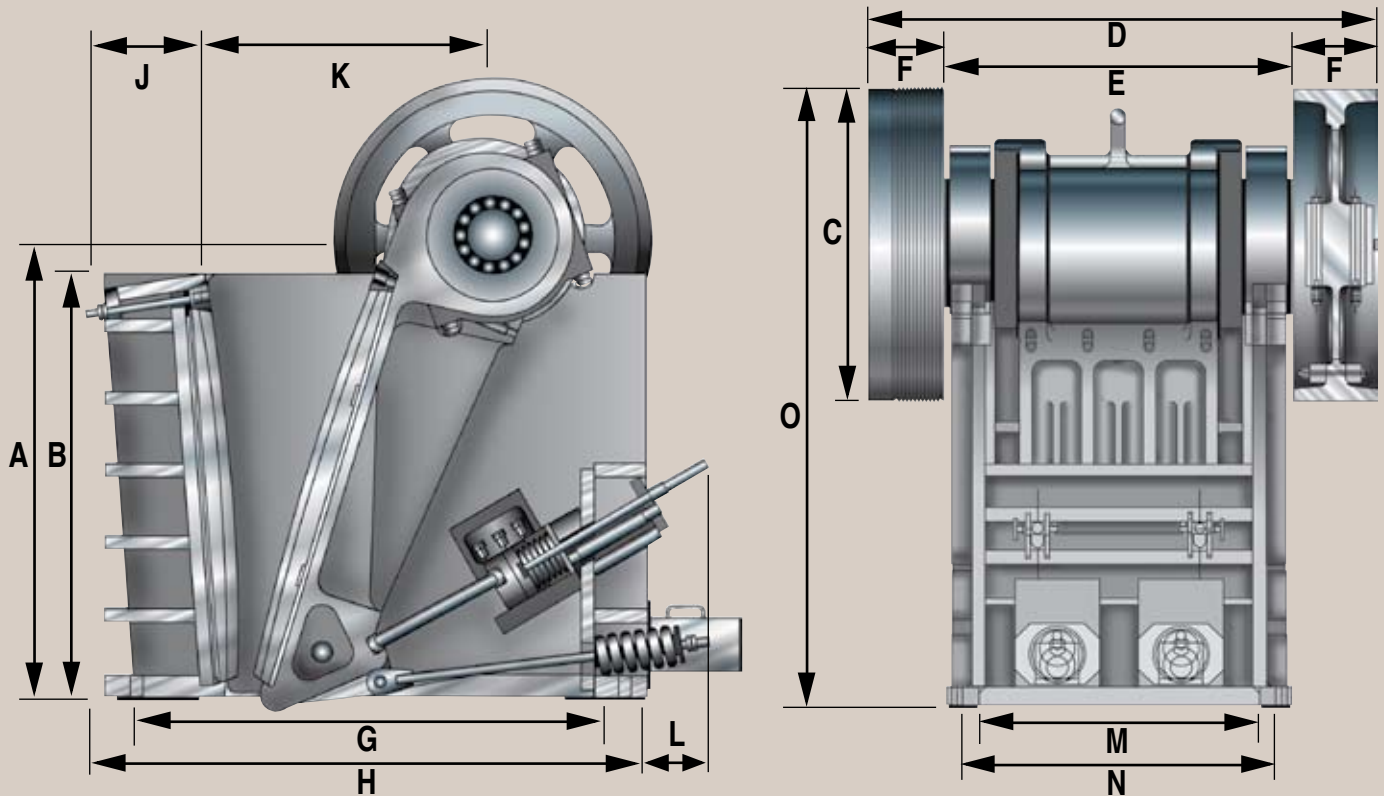
## LIPPMANN HEAVY-DUTY JAW CRUSHER CAPACITIES IN TONS

Size	Elec. Hp	1"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"	7"	8"	10"	12"	14"	16"
10x16	20	10	15	20	25	30	35	40								
15x24	40		32	43	54	64	76	88	110							
12x36	60		49	65	83	98	115	130	163							
12x48	75		66	85	110	131	154	173	217							
12x60	125		88	114	146	174	204	229	305							
15x36	75		55	73	91	109	128	147	182	220						
20x36	100			89	110	132	155	176	221	264	308					
24x36	100				115	139	162	185	230	277	322	370				
30x36	125					139	162	186	232	278	324	371	462			
22x42	125			101	126	151	176	202	252	302	353	403				
30x42	200					192	222	252	312	372	432	492	612	732		
22x48	150			115	144	173	202	230	288	346	403	460				
30x48	200					205	235	275	343	412	480	598	685			
36x50	250						310	340	425	520	600	680	840	1030	1130	
42x48	250						4-1/2" = 400		444	540	624	708	876	1068	1188	1320
46x48	250							350	444	540	624	708	876	1068	1188	1320
24x50	150			120	151	186	210	237	296	351	410	466				
30x62	200					220	280	340	420	490	570	650	800			
50x62	300								600	700	850	980	1200	1400	1600	1800

- The above data is based on average feed material weighing 100 lbs. per cubic foot.
- Capacities will vary depending on size of feed, rate of feed, type of material, moisture and clay content and fracture characteristics of feed. Undersize material should be removed from crusher feed to eliminate excessive wear on jaw dies.



# DIMENSIONS



## LIPPMANN HEAVY-DUTY JAW CRUSHER DIMENSIONS

Size	A	B	C	D	E	F	G	H	J	K	L	M	N	O	MOUNTING BOLT DIA.	WEIGHT
15x24	40-3/8	34-7/8	36	72-1/2	42	9	47	54-1/2	9-1/2	30	18	25	35	58-3/8	1-1/2	11,300
12x36	41	37	48	84	50-1/2	12-3/8	49	56-1/2	11	28	20	36-5/8	47	65	1-1/2	19,600
12x48	41-1/4	37	48	92-3/4	64	14-3/8	54-3/4	60	12-1/4	27-3/4	18	48-5/8	62	68-1/4	1-1/2	24,900
12x60	41-1/4	37	54	104	79	11-1/4	56-3/4	62	14-1/4	27-3/4	16-3/4	60-5/8	74	68-1/4	1-1/2	32,400
15x36	47	43	48	86	51-7/8	12-3/8	54-3/4	62-1/8	11-1/2	32	18	37	46-1/2	71	1-1/2	22,400
20x36	51	46-3/4	48	76-7/8	52-1/2	12-3/8	61-3/4	69-1/8	12	35-3/4	19-1/2	36-3/4	47	75	1-1/2	26,700
24x36	67-1/2	61	48	79-3/4	51	14-3/8	65-3/4	73-7/8	14-1/4	42	16	37	46	91-1/2	1-1/2	31,000
30x36	66	61	48	79-3/4	51	14-3/8	74-3/4	85	15-1/4	47	16	37	46	90	1-1/2	32,000
22x42	60-1/4	55-1/2	48	85-3/4	57	14-3/8	70-1/4	80-1/4	15-1/4	39-1/4	19	43	54	84-1/4	1-5/8	36,300
30x42	86	79-1/2	60	94-7/8	59-1/2	16-1/4	91-1/2	101-3/4	18-1/2	54-1/4	20	43-1/2	58	116	2	64,700
22x48	60-1/4	55-1/2	48	91-3/4	63	14-3/8	72	82	15	41	19	49	60	84-1/4	1-1/2	41,700
30x48	75	70	60	98	65-1/2	16-1/4	84	96	18	53	21	49-1/2	61	105	2	64,200
36x50	89-1/2	82	60	101-1/2	69	16-1/4	103	113	19-3/4	64-1/8	20	50	63	119	2	88,000
42x48	113-1/2	107	68	111-1/4	69-1/4	21	114	126-1/4	21-5/8	70-7/8	24-5/8	49-1/2	61	147-1/2	2	128,300
46x48	112	107	68	112-5/8	69-1/4	21	117	126	21-5/8	74-13/16	15	49-1/2	61	146	2	121,800
24x50	60-1/4	55-1/2	48	91-3/4	63	14-3/8	72	82	14-1/4	41-3/4	19	50	60	84-1/4	1-1/2	41,600
30x62	68-11/16	63-1/2	60	110	77-1/2	16-1/4	92	103-1/2	19-1/2	51-3/16	18	62	73	98-11/16	2	70,500
50x62	130-5/8	119-3/8	87	123	95	14	136-5/8	156-3/8	28	84	19	62	77	174-1/8	2-1/2	211,800

## LIPPMANN LOW PROFILE, HIGH-CAPACITY PORTABLE PRIMARY JAW CRUSHING PLANTS



30 x 48 Portable Electric Jaw Crushing Plant with Modular Skid-Mounted Feeder Hopper and Front Discharge Conveyor

### STANDARD FEATURES

- Flared type slide-on/slide-off feeder hopper module with heavy duty reinforcing ribs and supports. Hardox 400 hopper with optional liners.
- Extra heavy-duty vibrating grizzly feeder with AR steel liners. Vibrating grizzly feeder comes in lengths up to 24' with straight or stepped grizzly section.
- Lippmann Milwaukee Heavy-Duty Jaw Crusher.
- Front discharge conveyor sized to match vibrating grizzly feeder and crusher capacities. Optional portable side delivery conveyors.
- Drive choices: Diesel or electric power units for the crusher. Electric or hydraulic drives for both the discharge conveyor and vibrating grizzly feeder.
- Steel truck frame with king pin, triple axle carrier, tires and air brakes. Also includes screw type leveling jacks, guards for all drives, operator platform with railing and ladder, tool box, stoplights and directional signals. Optional fourth air ride axle.

### OTHER OPTIONS

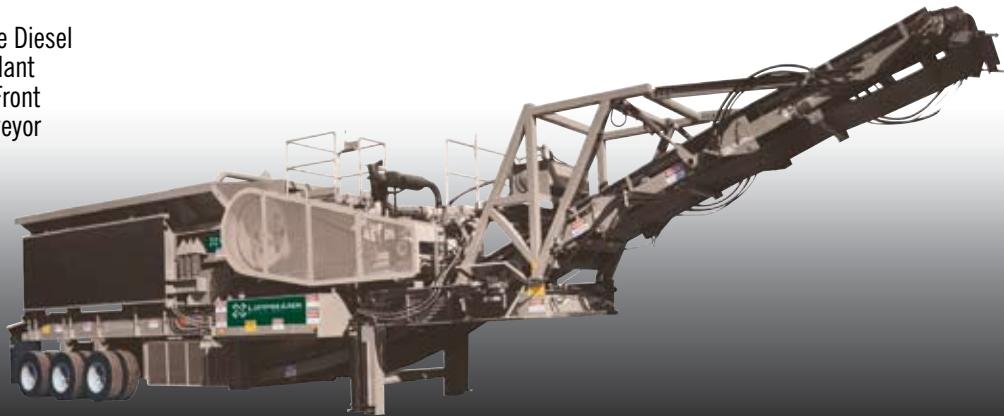
- Self-contained hydraulic leveling system.
- Variable speed hydrostatic drive for the feeder.
- Heavy-duty 4' x 8' double deck scalping screen in place of the grizzly section.

# EASY TRANSPORTABILITY, MAXIMUM PRODUCTIVITY AND OPERATING ECONOMY

More compact, lower profile, minimum travel height. Lippmann Milwaukee portable plants are designed for quick moves from job site to job site. All crushing plants are optimally engineered

to deliver maximum production and operating economy for each application. Choose the equipment that will stand up to the most demanding applications for the long haul – Lippmann.

22 x 48 Portable Diesel  
Jaw Crushing Plant  
with Extended Front  
Discharge Conveyor



30 x 48 Portable Diesel  
Jaw Crushing Plant  
with Extended Front  
Discharge Conveyor



30 x 42 Portable Diesel  
Jaw Crushing Plant  
with Front  
Discharge Conveyor



## CUSTOMIZED RECYCLING AND TWO-STAGE SOLUTIONS

30 x 62 Portable Diesel  
Recycle Jaw Crushing Plant



### **DRASTICALLY LOWER MATERIAL PREPARATION COSTS**

As a concrete and asphalt recycler, you can really lower your material preparation costs with a Lippmann Portable Recycle Jaw Plant. Lippmann's recycle jaw offers a huge 30" x 62" feed opening that accepts massive slabs of concrete full of rebar, reducing feed time and wear costs and achieving maximum capacity. Reversible jaw dies assure maximum wear life.

### **STRENGTH WHERE IT IS NEEDED**

Computer aided design allows for added strength in all key areas of a Lippmann Portable Recycle Jaw Plant.

### **CONTRACTOR FRIENDLY**

With a travel height of 13'6", mounted on a high quality chassis designed for easy set up and tear down, the Lippmann 30 x 62 jaw plant is very portable and features a 62" x 18' vibrating grizzly feeder, Hardox 400 feed hopper and hydraulic leveling.

### **EASE OF MATERIAL HANDLING**

Transfer points for material have proper clearances to maximize the throughput of rebar and/or uncrushable material.

### **SECONDARY SOLUTIONS**

Lippmann Milwaukee also offers complete two-stage jaw/impactor crushing solutions. When you need complete, superior crushing and screening solutions designed to handle reinforced concrete and asphalt to produce clean, saleable aggregates, count on Lippmann as your single source for equipment, application expertise and product support.

### **TWO-STAGE AGGREGATE SOLUTIONS**

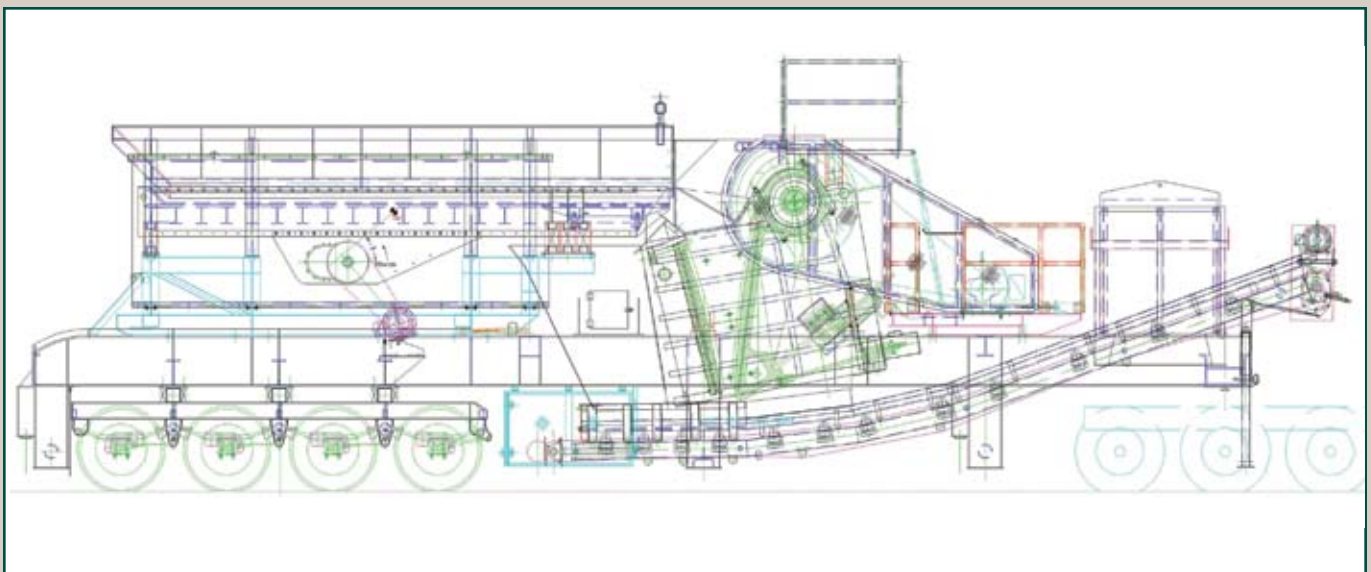
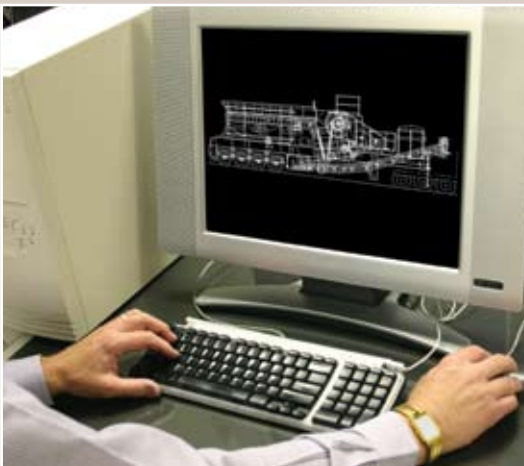
For superior in-pit jaw/impactor crushing systems to produce high quality cubical aggregates, no one offers more value, reliability and reduced operating costs than Lippmann Milwaukee.

# CUSTOMER DRIVEN DESIGNS

## A HIGH LEVEL OF CAPABILITY

You can count on an outstanding level of applications expertise, engineering know-how and quality manufacturing behind all Lippmann Milwaukee portable plants. Lippmann Milwaukee engineers provide fast and efficient portable plant

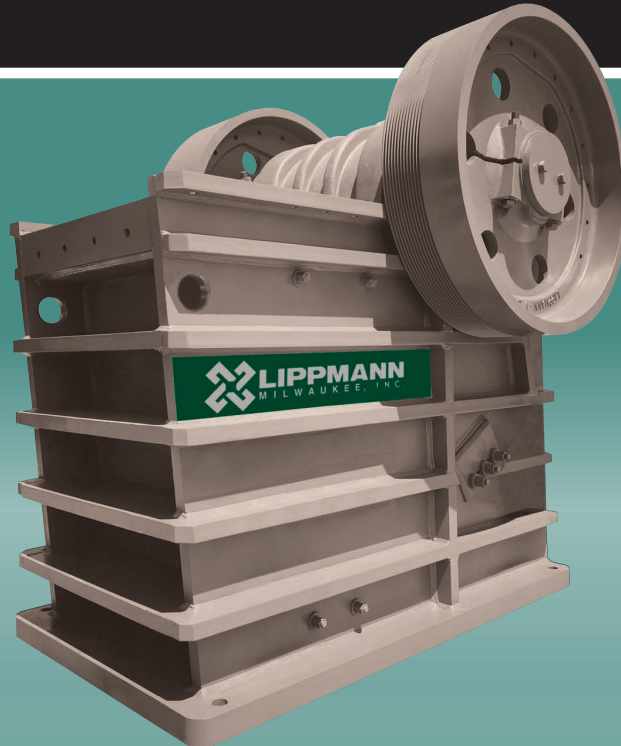
designs and layouts using state-of-the-art computer systems. Lippmann Milwaukee will customize portable plant designs to fit all your specific needs.





# LIPPMANN<sup>TM</sup>

**THE NAME YOU SHOULD KNOW FOR QUALITY CRUSHING MACHINERY**



The information contained in this literature is meant to be general in nature and is not intended to be used for specific application, construction, or installation purposes. Please note that machine capacities, settings, and other application considerations can vary from the information contained in this literature, depending on the material being crushed, moisture, feed sizes, other materials in the feed, etc. As a result, no warranty of any kind, either expressed or implied, is extended with the information contained in this literature. Lippmann Milwaukee, Inc. expressly reserves the right to change specifications or designs without prior notice or obligation.

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