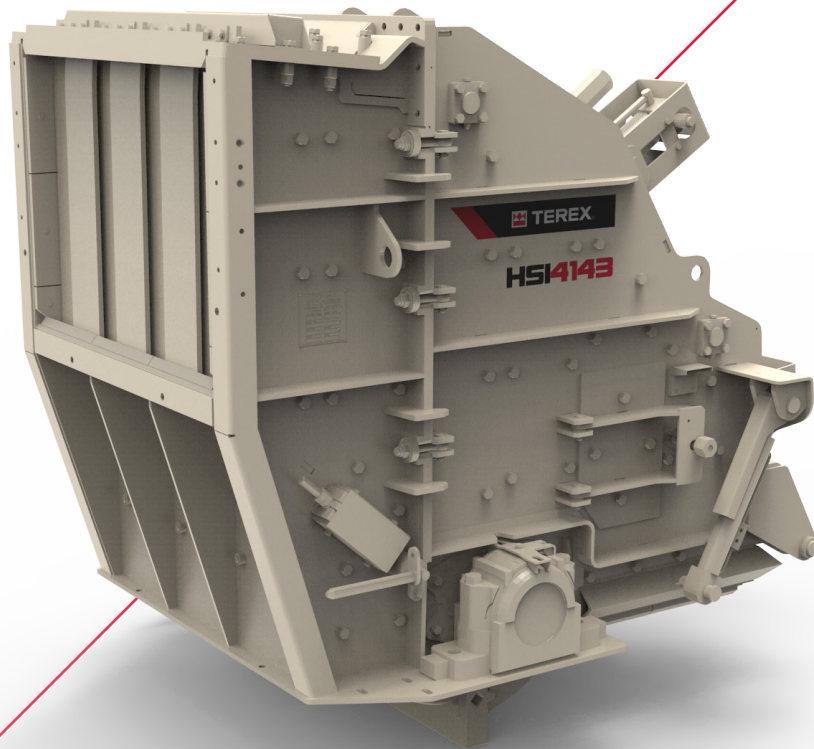


## HSI Crushers

TI4143



# Cedarapids® HSI Crushers

## TI4143

With its hydraulic assist apron adjustment for quick setting changes, the TI4143 horizontal shaft impactor is a highly cost effective crusher that is easy to operate and easy to maintain.

There are four rear inspection doors plus a hinged side door for inspection access to the rotor, blowbars and aprons. The chamber hydraulically opens for general maintenance and for turning or replacing the blowbars. The quick-release wedge-lock system makes changing blowbars a breeze.

### Standard Features

- Inlet Opening: 1130mm x 800mm (44.5" x 31.5")
- Rotor Diameter: Ø1040mm (Ø41")
- Rotor Width: 1100mm (43")
- Hydraulic Assist apron adjustment
- Patented hydraulic overload protection, on both aprons
- Precision fabricated, from structural steel, heavy duty crusher body, with hinged section that opens hydraulically for blowbar extraction, apron inspection and other key maintenance
- Heavy duty cast 4 bar rotor with reversible blowbars and with a wedge lock system to retain the blowbars
- Vertical blowbar removal from rotor
- Various blowbar metallurgy available to suit feed material and application. Standard blowbars fitted are Martensitic
- Freestanding electric hydraulic power pack, and associated hydraulic piping, for apron adjustment and for the hydraulic overload protection system
- Secondary apron is fitted with a replaceable 500HB wear resistant tip
- Heavy duty cast Manganese steel aprons, Primary & Secondary

Individually hung, easy straight lift extraction, inlet opening rubber curtains, and heavy linked drop chain

Replaceable bolt-in side wall liner plates, made from wear resistant steel plate

Feed in chute, fully lined with replaceable wear resistant steel plate c/w a rotatable and replaceable feed inlet beam

Rotor fitted with steel through shaft, with heavy duty self aligning spherical roller bearings, housed plumber blocks with robust labyrinth grease seals

Heavy duty cast steel 4 bar rotor

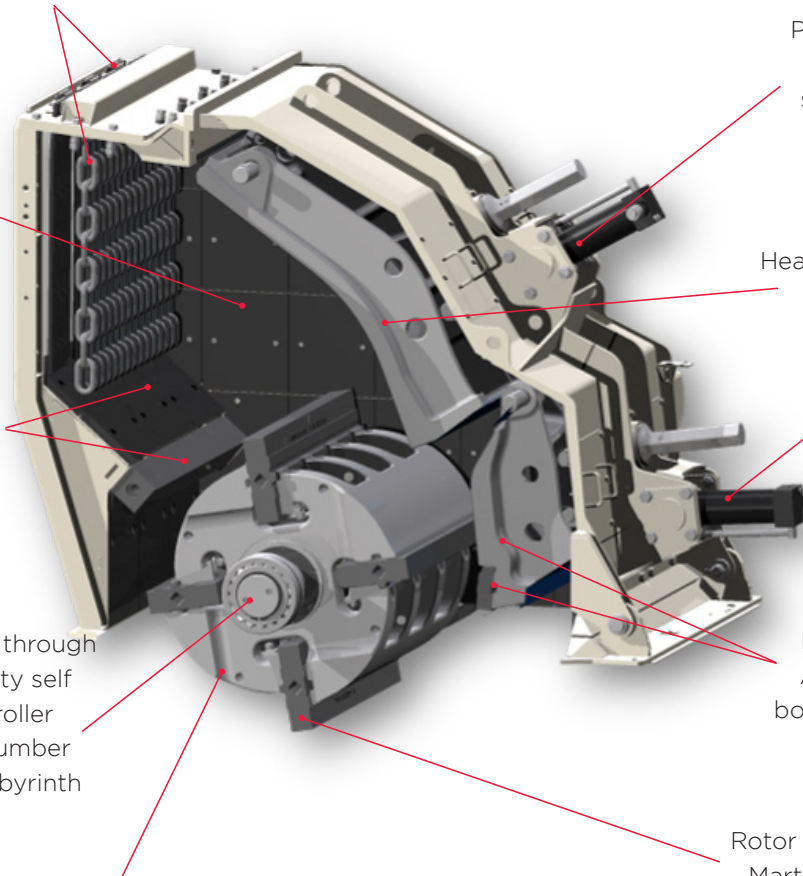
Primary Apron hydraulic overload protection & setting hydraulic assist cylinders

Heavy duty cast Manganese Primary Apron

Secondary Apron hydraulic overload protection & setting hydraulic assist cylinder

Heavy duty cast Manganese Secondary Apron c/w replaceable bolt-on wear resistant steel tip liner

Rotor fitted standard with 2hi Martensitic hammers & 2lo



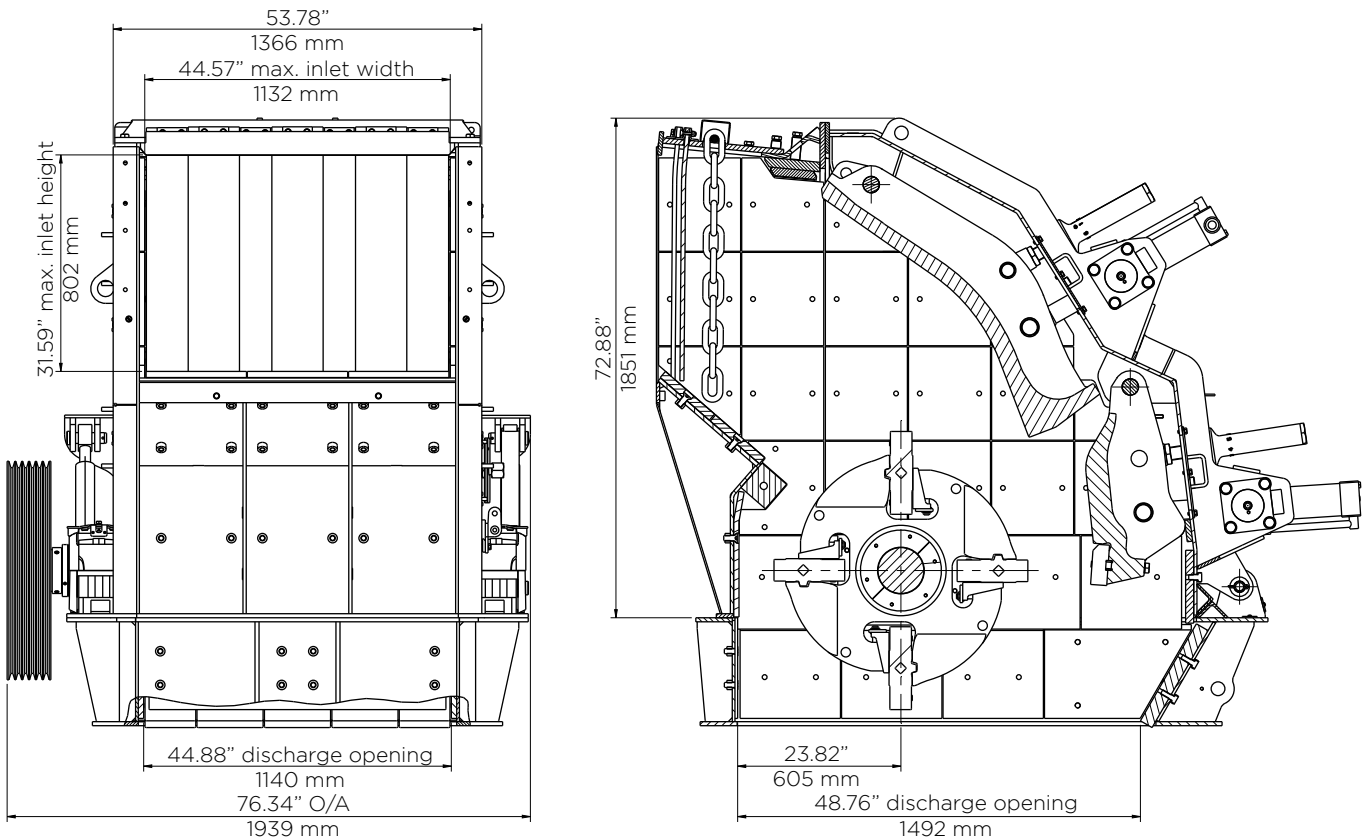
- Rotor tip speed range: 27-44m.s<sup>-1</sup> (88.5-144.3ft.s<sup>-1</sup>)
- Maximum apron settings: 150mm (6") Primary & 75mm (3") Secondary
- Minimum apron settings: 50mm (2") Primary & 20mm (3/4") Secondary
- Chamber internal side walls lined with 20mm (3/4") replaceable 500HB wear resistant plates.
- Rotor through shaft supported by 2x Heavy Duty self aligning spherical roller bearings housed in split plumber blocks and sealed with grease purged labyrinth seals
- Can be used in a vast array of applications from demolition to quarry
- Maximum recommended feed size to the crusher, pending feed material characteristics and blowbar metallurgy: 450mm (18") cubed rock and 800x500x250mm (31x20x10") concrete slab

| Ti4143                                     | Metric                 | Imperial                     |
|--|------------------------|------------------------------|
| Electric drive motor requirement           | 132 kW                 | 180 hp                       |
| Potential maximum throughput capacity      | 270 tph                | 300 stph                     |
| Rotor speed range                          | 27-44m.s <sup>-1</sup> | 88.5-144.3ft.s <sup>-1</sup> |
| Adjustment of aprons                       | Hydraulic assist       |                              |
| Overload protection                        | Hydraulic              |                              |
| Basic crusher weight                       | 9,940 kg               | 21,914 lbs                   |
| Maximum feed size (largest face dimension) | 450 mm                 | 18"                          |

### Optional Equipment

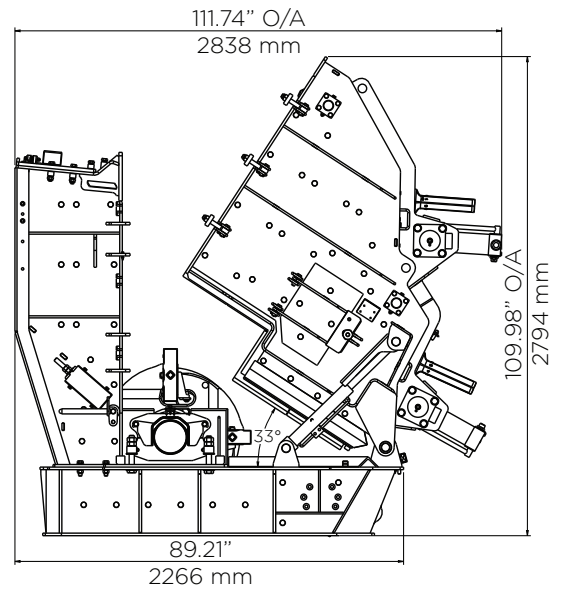
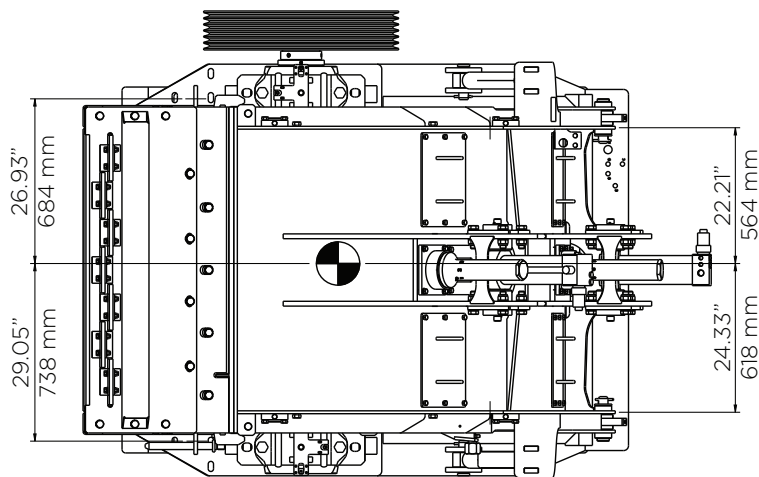
- Bolt-on certified lifting gantry for blowbar removal
- 3rd Apron (Grinding path) with hydraulic assist adjustment
- Wear resistant steel plate lined secondary apron
- Available blowbar metallurgy (Pending application):
  - Medium Chrome
  - High Chrome
  - Tough Chrome
  - Martensitic Ceramic
  - High Chrome Ceramic

### Dimensional Drawings



# CEDARAPIDS®

A TEREX BRAND



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