

# IMPACT CRUSHERS



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# I-110RS

The Terex Finlay I-110RS tracked impact crusher provides the versatility of a crushing and screening plant on one machine. Based on the Terex Finlay I-110 this machine features an innovative quick detach 3600mm x 1500mm (12' x 5") double deck screen for sizing and recirculating oversize material back to the crushing chamber. The sizing screen can be quickly removed for applications that do not require resizing or recirculating of materials further processing.

## STANDARD FEATURES

### Engine:

Tier 3 / Stage IIIA: Cat C9 300hp (224kW) Engine

Tier 4i / Stage IIIB: Scania DC9 77A 350hp (257kW)

### Chamber:

4 bar rotor - Martensitic blow bars 2 High & 2 Low - 1000mm x 1000mm (40" x 40")

Hydrostatic drive and advanced electronic control system

1 Nr Stockpiler Drive

### Hopper / Feeder:

Hopper capacity: Hydraulically folding hopper extensions 8m<sup>3</sup> Hopper (10.4yd<sup>3</sup>)

Heavy duty vibrating feeder (VGF) with integral prescreen

Grizzly bar spacing 40mm standard

Selectable discharge to by-pass conveyor or main conveyor

Mesh aperture on grizzly feeder: 30mm

### Main Conveyor:

Belt: 900mm (36") Wide

High spec scraper at main conveyor head drum

Piped for dust suppression c/w Spraybars

### RS Components:

3660mm x 1520mm (12' x 5') double deck screen- supplied with 50mm top deck mesh

No bottom deck or fitting parts supplied

Fines conveyor belt: 1.4m- hydraulically folding for transport

Transfer conveyor - Top deck transfer belt discharge onto recirculation conveyor as standard

Recirculation conveyor: 500mm (20") feeding back to main hopper

### General:

Galvanised catwalk c/w handrail, kickboard and access ladders

Hand Held Track Control Set with Connection Lead

Single speed tracking

Heavy Duty Track Unit: 3780mm (12' 5") Sprocket Centres, 500mm (20") Shoe Width

Safety Guards in Compliance with Machinery Directive

Emergency stops

### By-pass conveyor

- ▶ Belt Width: 650mm (26")
- ▶ Belt Spec: Plain
- ▶ Working Angle: 22°
- ▶ Speed: 55-65 m/min
- ▶ Universal mounting to left or right hand side- (Specify at time of order)
- ▶ Hydraulically folds for transport
- ▶ Standard Discharge Height: 2m (6' 7")
- ▶ Stockpile capacity: 11.9m<sup>3</sup> (15.6yd<sup>3</sup>) @ 40°
- ▶ Optional extended discharge height: 2.9m (9' 6")
- ▶ Extended Stockpile capacity: 36.3m<sup>3</sup> (47.5yd<sup>3</sup>) @ 40°

### Hopper / Feeder

- ▶ Hopper capacity: 8m<sup>3</sup> (10.4yd<sup>3</sup>)
- ▶ Feed height: 3.84m (12' 7")
- ▶ Material: 10mm (3/8") wear resistant steel
- ▶ Width at rear: 2.38m (7' 10")
- ▶ Vibrating Grizzly feeder (VGF): 1.39m x 940mm (4' 7" x 3' 1")
- ▶ VGF grizzly aperture: 40mm standard (75mm, 100mm optional)
- ▶ VGF wire mesh aperture: 38mm
- ▶ Speed range: 450-800 rpm
- ▶ Hopper extensions STD
- ▶ Locking mechanism: manual
- ▶ Extensions Hydraulically folding sides and rear

### Chassis

- ▶ Heavy duty chassis

## Features:

- ▶ On board 3660mm x 1520mm (12' x 5') sizing screen passes oversize material back to the chamber via the on-board recirculating conveyor.
- ▶ The fines conveyor and screen can be hydraulically lowered for ease of service access and mesh changes.
- ▶ The onboard fines conveyor has a high discharge height of 2900mm (9' 6") for stockpiling or further processing by a secondary screener.

### Impact chamber

- ▶ Rotor diameter: Ø1000mm (40")
- ▶ Rotor width: 1000mm (40")
- ▶ Inlet opening: 900mm x 830mm (35" x 32")
- ▶ Rotor speed Range: 520 – 800 rpm
- ▶ Maximum feed size 500mm (20") depends on material
- ▶ Drive arrangement: Hydrostatic Drive
- ▶ Twin Apron
- ▶ Maximum apron settings: Primary: 200mm (8") Secondary: 100mm (4")
- ▶ Minimum apron settings: Primary: 50mm (2") Secondary: 20mm (3/4")
- ▶ Rotor Configuration: 4 bar rotor, 2 high / 2 low standard
- ▶ Hydraulically opens for ease of access
- ▶ Simple wrench adjustment of breaker plates, hydraulic assist
- ▶ Blowbar options: Martensitic (standard), ceramic & high chrome

### Powerpack

- ▶ Tier 4i / Stage IIIB: Scania DC9 77A Engine Power: 350hp (257kW) Engine Speed: 2000 rpm
- ▶ Tier 3 / Stage IIIA: Cat C9 Engine Engine Power: 300hp (224kW) Engine Speed: 2000 rpm

### Magnet (optional)

### Main conveyor

- ▶ Belt Width: 900mm (36")
- ▶ Belt Spec: Plain
- ▶ Working Angle: 22°
- ▶ Speed: 105 m/min
- ▶ Full length main conveyor with impact bars at feed point
- ▶ Dust suppression: fitted with hose and spraybars as standard (no pump supplied)
- ▶ Discharge Height: 3.3m (10' 10")
- ▶ Optional vibratory undercrusher feeder with wear resistant liners and 2/3 length main conveyor

### Fines conveyor

- ▶ Belt width: 1.4m (55")
- ▶ Belt spec: Plain
- ▶ Working Angle: 22°
- ▶ Speed: 75-90 m/min
- ▶ Hydraulically folds for transport
- ▶ Discharge Height: 3.0m (9' 10")
- ▶ Stockpile capacity: 40.3m<sup>3</sup> (53yd<sup>3</sup>) @ 40°

### Screenbox

- ▶ Top deck: 3.66m x 1.52m (12' x 5')
- ▶ Bottom deck: 3.05m x 1.52m (10' x 5')
- ▶ Tensioning top deck: side
- ▶ Tensioning bottom deck: end
- ▶ Drive: hydraulic with heavy duty bearing
- ▶ Screen Angle: 19° - 22°, hydraulic adjust
- ▶ Screen Speed: 1200 rpm
- ▶ 40mm Mesh fitted as standard to top deck
- ▶ No mesh fitted to bottom deck as standard. Middle-grade blanking chute fitted
- ▶ Screen can be lowered to a horizontal position for mesh changing and general service access
- ▶ Screen and Fines can be quick detached if not required
- ▶ Total screening area: 10.1m<sup>2</sup> (110ft<sup>2</sup>)

### Oversize Transfer conveyor

- ▶ Belt width: 500mm (20")
- ▶ Belt spec: Plain
- ▶ Speed: Variable speed, 90-100 m/min max belt speed
- ▶ Hydraulically folds for transport
- ▶ Steel skirted full length of conveyor

### Recirculation conveyor

- ▶ Belt width: 500mm (20")
- ▶ Belt spec: Chevron
- ▶ Working Angle: 27°
- ▶ Speed: Variable speed, 75-90 m/min
- ▶ Hydraulically folds for transport

### Undercarriage

- ▶ Bolt on tracks
- ▶ Shoe width: 500mm (20")
- ▶ Sprocket Centres: 3.78m (12' 5")
- ▶ Track Speed: 1.0 km/h
- ▶ Gradability: 25°



Machine Weight: 46,000Kg (101,413lbs)\*  
\*Standard Machine configuration

## Transport Dimensions



## Working Dimensions



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