

# **I-100**

# **IMPACT CRUSHER**



**WORKS FOR YOU.™**

## I-100

The NEW Terex Finlay I-100 tracked impact crusher has been specifically designed for quarrying, recycling and demolition applications. The I-100 features a Ø860mm x 860mm (Ø34" x 34") direct drive impact chamber with variable rotor speed. The advanced electronic control system monitors, controls and regulates the speed of VGF with, integrated pre-screen, to maintain a consistent feed of material into the impact chamber while maintaining optimal crushing capacity. The machine provides operators high material reduction ratios and produces a consistent product grading.

### STANDARD FEATURES

#### ENGINE:

Tier 3 / Stage IIIA: Caterpillar C6.6 Tier 3 ACERT 250hp (186kW)

Tier / Stage IIIB Scania DC9 78A - 275hp (202kW) Engine (EU Spec)

#### Impact Chamber:

Terex CR004 Impact chamber

4 bar rotor - Martensitic blow bars 2 High & 2 Low

Full Hydraulic apron setting

Direct Drive via Clutch

#### Hopper / Feeder:

2.3m<sup>3</sup> hopper capacity (3.1 yd<sup>3</sup>)

Heavy duty vibrating feeder

Stepped grizzly feeder with integral pre-screen, standard 25mm Tines spacing. 30mm woven mesh for underscreen as standard

Selectable discharge to by-pass conveyor or main conveyor

#### Main Conveyor:

Belt width: 900mm (36")

High spec scraper at head drum

Wear resistant liners at crusher discharge point

#### General:

Piped for overband magnet

Hand Held Track Control Set with Connection Lead

Safety Guards in Compliance with Machinery Directive

Galvanised catwalk c/w handrail, kick board and access ladders

Heavy Duty Track Unit - 2.92m (9' 7") Sprocket Centres, 400mm (16")

Shoe Width

Emergency stops

#### By-pass conveyor (optional)

- ▶ Belt Width: 500mm (20")
- ▶ Belt Spec: plain
- ▶ Working Angle: 25°
- ▶ Speed: 60-70 mpm
- ▶ Hydraulically folds for transport
- ▶ Discharge Height: 2.03m (6' 8")
- ▶ Stockpile capacity: 13.8m<sup>3</sup> (18yd<sup>3</sup>) @ 40°

### Features:

- ▶ Hydraulic apron setting assist provides convenient and efficient adjustment of the aprons.
- ▶ Hydraulic overload protection provides instant protection for uncrushable material.
- ▶ Heavy duty vibrating feeder (VGF) with integrated pre-screen helps by-pass dirty fines
- ▶ Direct drive crusher chamber with independent belt tensioner allowing for rapid adjustment.
- ▶ Crusher chamber is supplied with a 4 bar rotor and two apron design for large reduction ratios.

#### Hopper / Feeder

- ▶ Hopper capacity: 2.3m<sup>3</sup> (3.01yd<sup>3</sup>)
- ▶ Feed height: 3.2m (10' 6")
- ▶ Material: 8mm wear resistant steel
- ▶ Width at rear: 2.26m (7' 5")
- ▶ Vibrating Grizzly feeder (VGF): 3.27m x 800mm (10' 9" x 32")
- ▶ VGF tine aperture: 25mm Standard
- ▶ VGF wire mesh aperture: 30mm Standard
- ▶ Speed: variable, 450-850 rpm

#### Impact chamber

- ▶ Rotor diameter: Ø860mm (34")
- ▶ Rotor width: 860mm (34")
- ▶ Inlet opening: 860mm x 610mm (34" x 24")
- ▶ Rotor speed Range: 700 rpm - 930 rpm
- ▶ Maximum Feed Size: Dependant on application 350mm Cube Approx
- ▶ Drive arrangement: Direct drive via clutch
- ▶ Twin Apron
- ▶ Maximum apron settings: 120mm Primary, 55mm Secondary
- ▶ Minimum apron settings: 40mm Primary, 20mm Secondary
- ▶ Rotor Configuration: 4 bar rotor, 2 high / 2 low standard
- ▶ Hydraulic overload protection
- ▶ Hydraulic apron setting assist
- ▶ Blowbar options: Martensitic (standard), ceramic & high chrome

#### Powerpack

- ▶ Tier 4: Stage IIIB: Scania DC9 78A  
Engine Power: 275hp (202kW) (EU SPEC)  
Engine Speed: 1500-2000 rpm
- ▶ ROW (Tier 3 or equivalent): Tier 3 / Stage IIIA: Caterpillar C6.6  
Engine Power: 250hp (186kW)  
Engine Speed: 1700-2100 rpm



#### Main conveyor

- ▶ Belt Width: 900mm (36")
- ▶ Belt Spec: plain
- ▶ Working Angle: 22°
- ▶ Speed: 95-110 m/min
- ▶ Full length main conveyor with impact bars at feed point
- ▶ Main conveyor can be lowered hydraulically for maintenance
- ▶ Dust suppression: fitted with hose and spraybars as standard (no pump supplied)
- ▶ Discharge Height: 3.25m (10' 8")
- ▶ Stockpile capacity: 51m<sup>3</sup> (66.7yd<sup>3</sup>) @ 40°

#### Undercarriage

- ▶ Shoe Width: 400mm (16")
- ▶ Sprocket Centres: 2.92m (9' 7")
- ▶ Track Speed: 1.8 km/h
- ▶ Gradeability: 25°

#### Transport Dimensions



#### Working Dimensions



Machine weight: 23,500kg (51,810lbs)  
\*Standard Machine configuration  
(Without By-Pass Conveyor or Magnet)

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