

TEREX® | FINLAY



I-140

IMPACT CRUSHER

SPECIFICATION:

Rotor Size:

Net Engine Power: Tier 3 / Stage IIIA:

Stage IIIA Constant Speed:

Tier 4 F/ Stage IV:

Portability:

Operating Weight:

Ø1270mm x 1220mm (Ø50" x 48")

Caterpillar C15 403kW (540hp)

Scania DC13 364-371kW (498hp)

Scania DC13 368kW (500hp)

Tracked

48,720kg* (107, 410lbs*)

**Note: Without conveyor by-pass and magnet options*



SPECIFICATION

VGf HOPPER / FEEDER

Fixed Hopper with Optional hydraulically folding and locking extensions

VGf Hopper capacity - No Ext: 6m³ (7.85yd³)

VGf Hopper capacity - With Ext: 9m³ (11.8yd³)

VGf Feed Height - No Ext: 3.77m (12' 4")

VGf Feed Height - With Ext: 4.49m (14' 8")

Width at rear - No Ext: 2.17m (7' 1")

Width at rear - with ext: 3.60m (11' 10")

Hopper Extensions: Optional - with hydraulic folding + locking mechanism - from ground level

VGf grizzly aperture: 50mm standard - options available

VGf wire mesh aperture: 38mm standard - options available

Speed range: 450 - 850 rpm

PRESCREEN OPTION

Hydraulic folding + locking hopper mechanism

Prescreen Hopper capacity - No Ext: 7.5m³ (9.80yd³)

Prescreen Hopper capacity - With Ext: 9.5m³ (12.42yd³)

Prescreen Feed Height - No Ext: 4.63m (15' 2")

Prescreen Feed Height - With Ext: 5.01m (16' 5")

Width at rear - No Ext: 2.63m (8' 7")

Width at rear - with Ext: 3.41m (11' 2")

Prescreen Hopper Material: 10mm wear resistant steel

Hopper Extensions: Bolt On

Prescreen: Fully Independent prescreen

1.17m wide x 2.58m length (4' 0" x 8' 5")

50mm cassette standard - options available

Punch plate top deck available

38mm mesh standard - options available

Speed: 1000 rpm

IMPACT CHAMBER

Rotor diameter: 1270mm (50")

Rotor width: 1220mm (48")

VGf Inlet opening: 1.16m x 865mm (45.6" x 34")

Prescreen Inlet opening: 1.17m x 835mm (46" x 33")

Tier 3 Rotor speed is 528 - 653rpm with the large pulley (standard)

Tier 3 Rotor speed is 469 - 580rpm with the optional smaller pulley

Tier 4 Rotor speed is 525 - 665rpm with the large pulley (standard)

Tier 4 Rotor speed is 466 - 591rpm with the optional smaller pulley

Drive arrangement: Direct Drive VIA Wet Clutch

Twin Apron

Primary Apron Maximum setting: 150mm (6")

Primary Apron Minimum setting: 50mm (2")

Secondary Apron Maximum setting: 75mm (3")

Secondary Apron Minimum setting: 20mm (1")

Hydraulic hood open

IMPACT CHAMBER

Simple wrench adjustment of aprons, hydraulic assist

Hydraulically raise inlet flap: optional

Rotor Configuration: 4 BAR ROTOR

Blowbar options: 2 HIGH 2 LOW OR OPTIONAL 4 HIGH



Hopper and Feeder



Hopper and Feeder



Impact Chamber

Maximum Feed Size (Smallest Cube Dimension)

Blasted Rock (Limestone Type)	600mm
Concrete / Demolition (Slab: Thick x Wide x Length)	250x600x1000mm
Maximum Recommended Size of Rebar Steel in the Feed Material:	
Rebar Diameter	20mm
Rebar Length	500mm

MAIN CONVEYOR

Belt Width: 1.3m (52")

Working Angle: 22°

Speed: 110 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: 3.76m (12' 4")

Stockpile capacity: 69m³ (90yd³)

Optional vibratory undercrusher feeder with wear resistant liners and 2/3 length main conveyor



Main Conveyor

POWERPACK

Tier 3 / Stage IIIA: Caterpillar C15

Engine Power: 403kW (540hp)

Engine Speed: 1700-2100 rpm

Stage IIIA Constant Speed: Scania DC13

Engine Power: 364-371kW (498hp)

Engine Speed: 1500-1900 rpm

Tier 4F / Stage IV: Scania DC13

Engine Power: 368kW (500hp)

Engine Speed: 1500-1900 rpm



Scania Engine



Cat Engine

TANK CAPACITIES

Hydraulic Tank: 1000 litres

Fuel Tank: 740 litres

BYPASS CONVEYOR (OPTIONAL)

Belt Width: 800mm (32")

Working Angle: 24°

Speed: 85 m/min

LH and RH variant available
(Specify at time of order)

Hydraulic folding for transport

Discharge Height: 3.38m (11' 1")

Stockpile capacity: 64m³ (83.7yd³)



By-pass Conveyor

MAGNETIC SEPARATOR (OPTIONAL)

Suspended self cleaning crossbelt overband magnet

Belt Width: 750mm (30")

Belt Speed: 110 m/min

Drum Centres: 1.99m (78")

Drive: Hydraulic



Magenetic Sperator

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UNDERCARRIAGE

Bolt on tracks

Shoe Width: 500mm (20")

Sprocket Centres: 3.7m (12' 1")

2 Speed Tracks

Top Speed 1.3 km/h

Gradeability: 30°

Rake Angle: 24° Rear 17° Front

TOOL BOX

Mounted lockable tool box

Tool kit

Grease gun

CHUTES

Heavy Duty chute with bolt-up construction

By-pass chute with selectable discharge flop gate, to either by-pass conveyor or main conveyor

CONTROL SYSTEM

Advanced CANBUS compliant system

Large display screen (IP67 Rated)

Five simple operating modes with menu driven graphic user interface -

- Track mode : For moving machine
- Manual mode : For manually starting machine
- Automatic mode : For automatically starting the machine in predetermined sequence
- Configuration mode : For testing/setting individual components
- Language selection : For setting languages

Detachable doglead control for tracking

Radio remote control

Engine control/monitoring panel

Lockable compartment

Emergency stops: 6 off

PLATFORMS

Galvanised catwalks and ladders for full maintenance and service access

Catwalks on both sides of machine

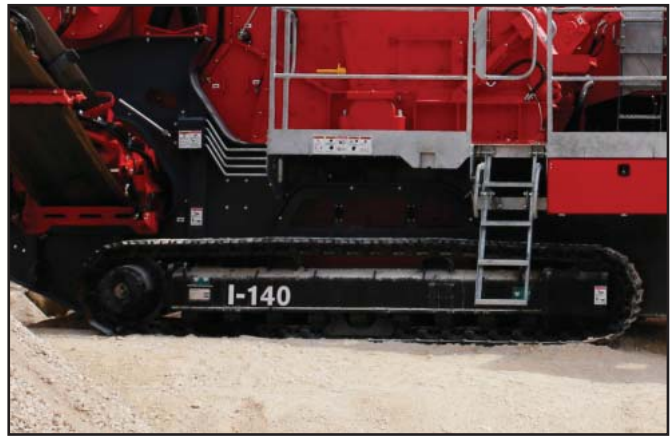
Compact folding for transport

RADIO REMOTE CONTROL

Full function radio remote unit

Machine can be switched from crushing mode into track mode, moved and be switched back to operating mode from remote control unit

Feeder stop / start



Undercarriage



Control System



Platforms



Remote Control Unit (Optional)

STANDARD FEATURES

ENGINE:

Tier 3 / Stage IIIA - Caterpillar C15 403kW (540hp)

Stage IIIA Constant Speed: Scania DC13 371kW (498 hp)

IMPACT CHAMBER:

Terex CR032 Impact chamber

Fully Hydraulically assisted apron setting and hydraulic apron release

Manual raise chamber flap allowing extra inlet clearance

4 bar rotor - Tool steel blow bars 2 High & 2 Low

Direct Drive via Clutch

Drive belt tensioner wheel

Blow bar lifting tool supplied

Tip Speed range 35-44 m/sec (115-144 ft./sec)

HOPPER / FEEDER:

VGF Fixed Hopper

Stepped grizzly feeder with integral pre-screen, standard 50mm spacing

Mesh aperture on grizzly feeder: 38mm

Selectable discharge to by-pass conveyor or main conveyor

Blanking mat for VGF

MAIN CONVEYOR:

Belt width: 1.3m (52")

Hydraulic raise/ lower for magnet

AUXILIARY CONVEYORS:

Piped for overband magnet

CLIMATE SPEC:

Standard oils - (Recommended for ambient temperatures between -5 to +30°C)

DUST SUPPRESSION:

Piped for dust suppression c/w Spray bars

ELECTRICAL:

Emergency stops

Hand Held Track Control Set with Connection Lead

T-Link Telemetry System fitted c/w 3 years data subscription

GENERAL:

Safety Guards in Compliance with Machinery Directive

2 Speed Tracking

OPTIONAL EQUIPMENT

Tier 4 Final / Stage IV : Scania DC13 373kW (500hp)

Smaller engine chamber drive pulley to give a rotor tip speed range of 31-39 m/sec (102-128 ft./sec). Standard Large Pulley still dispatched with machine

Hydraulic raise of chamber inlet flap

2nd Apron auto adjust

Crushing Chamber Grinding Path. Check Lead-time at time of order

Rotor fitted with 2 full ceramic blow bars

Rotor fitted with 2 full high chrome blow bars

Rotor fitted with 4 full martensitic blow bars

Rotor fitted with 4 full ceramic blow bars

Rotor fitted with 4 full high chrome blow bars

VGF Hopper Extensions - Hydraulically Folding and locking

Independent pre-screen c/w hydraulically folding and locking hopper, 50mm cassette spacing & 38mm mesh as standard - other cassette and mesh apertures available upon request

Independent Pre-Screen Blanking Mat, included with prescreen option

Independent pre-screen Hopper Extensions

Pre-screen optional spacing grizzly - 25mm/50mm/75mm (Please specify aperture)

Pre-screen Punch Plate optional spacing - 25mm/50mm/75mm (Please specify aperture)

VGF optional grizzly spacing - 25mm/50mm/75mm (Please specify aperture)

Under crusher vibratory feeder with wear resistant steel liners (c/w shortened main conveyor)

Belt weigher on main conveyor

Additional dust cover

Bypass conveyor with 800mm wide plain belt, discharging to the RHS of the machine

Bypass conveyor with 800mm wide plain belt, discharging to the LHS of the machine

Twin pole overband magnet c/w stainless steel skirting & stainless steel discharge chute

Twin pole heavy duty overband magnet (skirting & chute asabove)

Hot climate lubrication kit (Recommended for ambient temperatures between +15 to +50°C)

Cold climate lubrication kit(Recommended for ambient temperatures between -20 to +30°C)

Hydraulically driven water pump

Electric Refuelling Pump

Radio remote System

Pressurised air system for electrical control cabinet

Lighting mast

Reversible Engine Fan with fuel save function

Fuel Active, Fuel delivery system

Special paint colour (if different from Finlay Orange RAL 2002). RAL must be specified*

Hopper / Feeder

- ▶ Fixed Hopper with Optional hydraulically folding and locking extensions
- ▶ VGF Hopper capacity - No Ext: 6m³ (7.85yd³)
- ▶ VGF Hopper capacity - With Ext: 9m³ (11.8yd³)
- ▶ VGF Feed Height - No Ext: 3.77m (12' 4")
- ▶ VGF Feed Height - With Ext: 4.49m (14' 8")
- ▶ Width at rear - No Ext: 2.17m (7' 1")
- ▶ Width at rear - with ext: 3.60m (11' 10")
- ▶ Hopper Extensions: Optional - with hydraulic folding + locking mechanism - from ground level
- ▶ Speed range: 450-850rpm

Independent Hydraulic Pre-screen (optional)

- ▶ Aggressive Action with 9mm throw and 1000rpm screen speed
- ▶ Top Deck: 2.4m long x 1.17m wide cassette at 9° Incline
- ▶ Standard Cassette Aperture: 50mm (2")
- ▶ Mesh Bottom Deck: 1950mm long x 1160mm wide at 17° Incline
- ▶ Standard Mesh Aperture: 38mm (1 1/2")
- ▶ Top Deck Mesh Option available for feed material with high % of fines
- ▶ Hydraulic locking hopper



By-pass conveyor (optional)

- ▶ Belt Width: 800mm (32")
- ▶ Hydraulically folds for transport
- ▶ Discharge Height: 3.5m (11' 6")
- ▶ Hi-spec scraper at head drum

Chassis

- ▶ Robust, heavy duty chassis

Underpan Feeder

- ▶ Terex design underpan
- ▶ 2600mm Long x 1300mm wide
- ▶ 14 Degrees inclined tray
- ▶ 1000rpm and 12mm stroke
- ▶ Twin geared shaft vibrator unit
- ▶ 10mm Welded Body with 15mm wear plate liners
- ▶ Folded liners at sides to prevent build-up
- ▶ Liner positions can be interchanged to maximise wear life

Powerpack

- ▶ Tier 3 / Stage IIIA: Caterpillar C15
- ▶ Engine Power: 403kW (540hp)
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- ▶ Stage IIIA Constant Speed: Scania DC13
- ▶ Engine Power: 364-371kW (498hp)
- ▶ Engine Speed: 1500 rpm- 1900 rpm
- ▶ Tier 4F / Stage IV: Scania DC13
- ▶ Engine Power: 368kW (500hp)
- ▶ Engine Speed: 1500 rpm- 1900 rpm

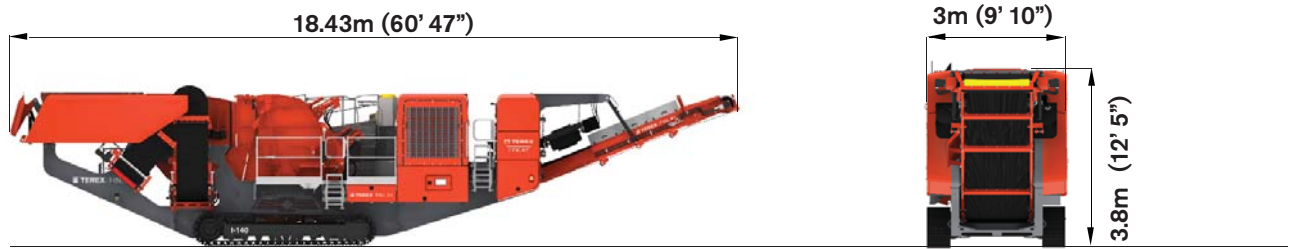
Impact Chamber

- ▶ Rotor diameter: Ø1270mm (50")
- ▶ Rotor width: 1220mm (48.8")
- ▶ VGF Inlet opening: 1.16m x 865mm (45.6" x 34")
- ▶ Prescreen Inlet opening: 1.17m x 835mm (46" x 33")
- ▶ Maximum apron settings: Primary 150mm (6") secondary 75mm (3")
- ▶ Minimum apron settings: Primary 50mm (2") secondary 20mm (1")
- ▶ Maximum feed size: 600mm (24")* - Dependent on material
- ▶ Drive arrangement: Direct Drive via V-Belt
- ▶ Rotor Configuration: 4 bar rotor, 2 high / 2 low standard
- ▶ Simple wrench adjustment of aprons, hydraulic assist
- ▶ Blowbar options: Martensitic, ceramic & high chrome.

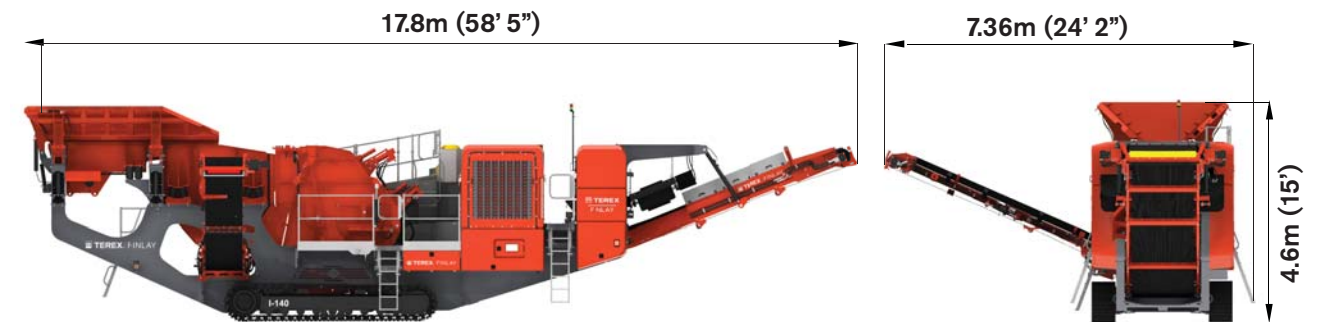
Platforms

- ▶ Catwalk access on both sides of the of the powerunit
- ▶ Compact folding for transport

TRANSPORT DIMENSIONS



WORKING DIMENSIONS



MACHINE WEIGHT: **48,720Kg (107,410 lbs)**

*Without option

53,120Kg (117,109 lbs)

*With optional Pre Screen

For further information on specific machine weight configurations please consult Terex Finlay

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