



TEREX | FINLAY



I-140RS

I-140RS IMPACT CRUSHER

SPECIFICATION:

Rotor Size:

Net Engine Power

Tier 3/Stage IIIA:

Stage IIIA Constant Speed:

Tier 4 F/ Stage IV:

Stage V:

Portability:

Operating Weight:

Ø1270mm x 1220mm (Ø50" x 48")

Caterpillar C15 403kW (540hp)

Scania DC13 364-371kW (498hp)

Scania DC13 368kW (500hp)

Scania DC13 368kW (500hp)

Tracked

72,300kg (159,394lbs*)

**with pre-screen,*

heavy duty magnet & bypass conveyor



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")

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")

Hopper Extensions: Bolt On

Prescreen: Fully Independent prescreen

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

50mm grizzly 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

Manual raise inlet flap: standard

Hydraulically raise inlet flap: optional

Rotor Configuration: 4 BAR ROTOR

Blowbar options: 2 HIGH 2 LOW OR OPTIONAL 4 HIGH

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



Hopper and Feeder



Impact Chamber



Main Conveyor

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

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

Stage V: Scania DC13
 Engine Power: 368kW (500hp)
 Engine Speed: 1500-1900 rpm

TANK CAPACITIES

Hydraulic Tank: 1060 litres

Fuel Tank: 1100 litres

BYPASS CONVEYOR (OPTIONAL)

Belt Width: 800mm (32")

Working Angle: 24°

Speed: 85 m/min

Right Hand Discharge only

Hydraulic folding for transport

Discharge Height: 3.38m (11' 1")

Stockpile capacity: 64m³ (83.7yd³)

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

Raises / lowers hydraulically

Twin pole

HD Twin Pole

UNDERCARRIAGE

Bolt on tracks

Shoe Width: 500mm (20")

Sprocket Centres: 4.168m (13' 8")

Variable Speed Tracks

Top Speed 1.3 km/h

Gradeability: 30°

Rake Angle: 24° Rear 17° Front

RS COMPONENT

Single deck afterscreen: 4.88m x 1.52m (16' x 5')

Fines conveyor: 1.4m (55")

Transfer conveyor: 500mm (20")

Re-circulating conveyor: 500mm (20"), hydraulic folding with capability to slew and stockpile oversize material

Belt spec: Chevron

Working Angle: 29°

Speed: Variable speed, 80 - 90 m/min

Hydraulically folds for transport, stockpiling and recirculating



Scania Engine



Cat Engine



By-pass Conveyor



Re-circulating conveyor (stockpiling mode)



Re-circulating conveyor

WORKS FOR YOU.TM

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

Controls all folding function of RS section in addition to tracking and crushing mode



Control System



Platforms



Remote Control Unit Standard

STANDARD FEATURES

ENGINE:

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

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

IMPACT CHAMBER:

Terex CR032 Impact chamber

Fully Hydraulically assisted apron setting and hydraulic apron release

Manual raise inlet 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: 1300mm (52")

Piped for overband magnet

RS COMPONENTS:

4.88m X 1.52m (16' X 5') single deck after screen c/w 40mm mesh as standard unless otherwise stated

500mm (20") wide belt transfer conveyor

500mm (20") wide belt hydraulic folding re-circulating conveyor able to slew for stockpiling oversize material

1400mm (55") wide belt fines conveyor

Rapid detach after screen system for flexibility

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

Radio remote System: Operational controls of machine (auto start/stop) & track movement

GENERAL:

Safety Guards in Compliance with Machinery Directive

Auxiliary Drive

OPTIONAL EQUIPMENT

Tier 4 Final /Stage IV: Scania DC13 368kW (500hp)

Stage V: Scania DC13 368kW (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 martensitic ceramic & 2 low martensitic blow bars

Rotor fitted with 2 full high chrome & 2 low martensitic blow bars

Rotor fitted with 4 full martensitic blow bars

Rotor fitted with 4 full martensitic ceramic blow bars

Rotor fitted with 4 full high chrome blow bars

Rotor fitted with 2 full toughened high chrome & 2 low martensitic blow bars

Rotor fitted with 4 full toughened high chrome blow bars

VGF Hopper Extensions - Hydraulically Folding

VGF optional grizzly spacing - 50mm/63mm/75mm (Please specify aperture)

Independent pre-screen c/w hydraulically folding and locking hopper and blanking mat, 50mm cassette spacing & 38mm mesh as standard

Independent pre-screen Hopper Extensions

Pre-screen optional spacing grizzly - 50mm/63mm/75mm (Please specify aperture)

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

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

Additional dust cover

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

Twin pole overband magnet c/w stainless steel skirting & stainless steel discharge chute, discharging RHS of the machine. Standard

Twin pole heavy duty overband magnet (skirting & chute as above)

Belt weigher on fines conveyor

Additional dust cover on fines conveyor

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)

Water pump

Electric Refuelling Pump

Pressurised air system for electrical control cabinet

Reversible Engine Fan with fuel save function

Lighting mast

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 (water pump optional)
- ▶ Optional vibratory undercrusher feeder with wear resistant liners and 2/3 length 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 rpm- 1900 rpm
- ▶ Tier 4F / Stage IV: Scania DC13
Engine Power: 368kW (500hp)
Engine Speed: 1500 rpm- 1900 rpm
- ▶ Stage V: Scania DC13
Engine Power: 368kW (500hp)
Engine Speed: 1500 rpm- 1900 rpm

Magnet (optional)

Fines Conveyor

- ▶ Belt width: 1.4m (55")
- ▶ Belt spec: Plain Belt
- ▶ Working Angle: 22°
- ▶ Speed: 105-115 mpm
- ▶ Discharge Height: 3.54m (11'8")

Screen Box

- ▶ Deck Size: 4.8m x 1.52m (16' x 5')
- ▶ Mesh Tensioning : Side Tension
- ▶ Drive: hydraulic with heavy duty bearing
- ▶ Screen Angle: 22°
- ▶ Screen Speed: 950rpm
- ▶ 50mm Mesh fitted as standard
- ▶ Screen can be lowered to a horizontal position for mesh changing and general service access.
- ▶ RS Section can be quick detached if not required.
- ▶ Total screening area: 7.5m² (80.7sqft)

By-pass conveyor (optional)

- ▶ Belt Width: 800mm (32")
- ▶ Hydraulically folds for transport
- ▶ Discharge Height: 3.38m (11' 1")
- ▶ Hi-spec scraper at head drum

Re-circulating Conveyor

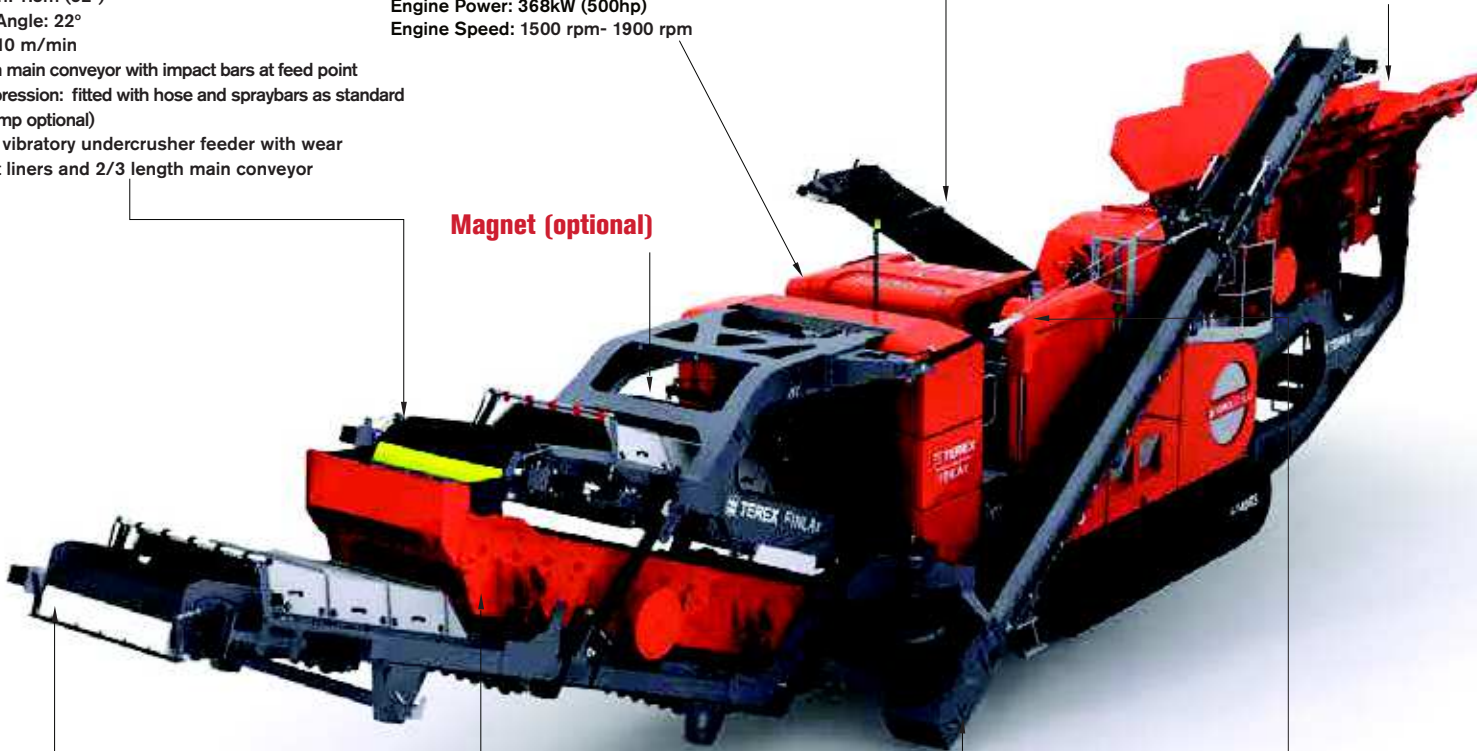
- ▶ Belt width: 500mm (20")
- ▶ Belt spec: Chevron belt
- ▶ Working Angle: 29°
- ▶ Speed: 80-90 MPM
- ▶ Hydraulic to set control, transport, stockpiles & recirculating positions

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")
- ▶ Speed range: 450-850rpm

Impact Chamber

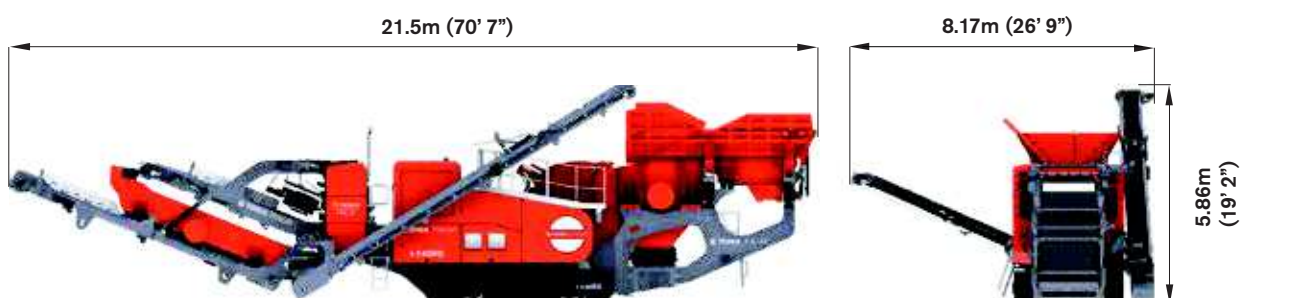
- ▶ Rotor diameter: Ø1270mm (50")
- ▶ Rotor width: 1220mm (48.8")
- ▶ VGF Inlet opening: 1.16m x 865mm (45.6" x 34")
- ▶ Prescreen Inlet opening: 1.17m x 835mm (46" x 33")
- ▶ Maximum apron settings: Primary 150mm (6") secondary 75mm (3")
- ▶ Minimum apron settings: primary 50mm (2") secondary 20mm (1")
- ▶ 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.



Transport Dimensions



Working Dimensions



MACHINE WEIGHT: **72,300kg (159,394lbs*)**
*with pre-screen, heavy duty magnet & bypass conveyor

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

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