

TEREX | FINLAY



I-120

I-120 IMPACT CRUSHER

SPECIFICATION:

Rotor Size:		Ø1033mm x 1100mm (Ø41" x 44")
Net Engine Power	Tier 3/Stage IIIA:	Caterpillar C9 ACERT 280kW (375hp)
	Stage IIIA Constant Speed:	Scania DC9 292kW (392hp)
	Tier 4F /Stage IV:	Scania DC9 294kW (400hp)
	Stage V:	Scania DC9 294kW (400hp)
Portability:		Tracked
Operating Weight:		37,000kg (81,571lbs*)

**Pre-screen, Hopper Extensions, By-pass Conveyor & Twin Pole Magnet*

VG F HOPPER / FEEDER

VG F Hopper capacity: 5m³ (6.5 yd³)

VG F Hopper capacity - With Ext: 8m³ (10.4 yd³) 4m (13' 1") rear feed width with hydraulic folding hopper extensions (optional)

VG F Hopper Fixed - Pre-screen Hopper Folding & Locking

8mm wear resistant side walls

Vibrating grizzly feeder with integrated pre-screen- standard

Grizzly length 2.19m (7' 2")

Selectable discharge to dirt conveyor (all pre-screened material) or main conveyor

INDEPENDENT HYDRAULIC PRE-SCREEN (OPTIONAL)

1,000mm (40") wide x 2,000mm (79") effective screening length

9° working angle

Mesh and Punch Plate option

IMPACT CHAMBER

Rotor diameter: Ø1033mm (41")

Rotor width: 1100mm (44")

VG F Inlet opening: 1130mm x 800mm (45" x 32")

Prescreen Inlet opening: 1130mm x 800mm (45" x 32")

Tier 3 Rotor speed is 669 – 827rpm with the large pulley (standard)

Tier 3 Rotor speed is 595 – 735rpm with the optional smaller pulley

Tier 4 Rotor speed is 666 – 843rpm with the large pulley (standard)

Tier 4 Rotor speed is 591 – 748rpm with the optional smaller pulley

Direct drive via 'V' belts

Twin Apron

Primary Apron Minimum setting: 50mm (2")

Secondary Apron Maximum setting: 75mm (3")

Secondary Apron Minimum setting: 18mm (3/4")

Hydraulic hood open

4 Bar rotor standard- 2 high/2 low

Full Hydraulic adjust apron setting & overload protection

Manual raise inlet flap: standard

Hydraulically assisted Grinding path (optional)

2nd Apron auto adjust (optional)

MAIN CONVEYOR

Belt Width: 1.1m (44")

Discharge Height: 3.5m (11' 5")

High spec scraper at head drum

Dust suppression standard

Low level greasing standard

Hydraulic lowering for transport

Full length belt standard

2/3 length main conveyor and vibratory undercrusher feeder with wear resistant liners (option)

Snag free tunnelling

Stockpile Capacity: 63.8m³ (83.4yd³)



Hopper



Impact Chamber



Main Conveyor

Maximum Feed Size (Smallest Cube Dimension)

Blasted Rock (Limestone Type)	450mm
Concrete / Demolition (Slab: Thick x Wide x Length)	800 x 500 x 250mm

Maximum Recommended Size of Rebar Steel in the Feed Material:

Rebar Diameter	20mm
Rebar Length	500mm

POWERPACK

Tier 3 / Stage IIIA: Caterpillar C9
Engine Power: 280kW (375hp)
Engine Speed: 1700-2100 rpm

Stage IIIA Constant Speed: Scania DC9
Engine Power: 292kW (392hp)
Engine Speed: 1500-1900 rpm

Tier 4F / Stage IV: Scania DC9
Engine Power: 294kW (400hp)
Engine Speed: 1500-1900 rpm

Stage V: Scania DC9
Engine Power: 294kW (400hp)
Engine Speed: 1500-1900 rpm

TANK CAPACITIES

Hydraulic Tank: 700 litres

Fuel Tank: 720 litres

BYPASS CONVEYOR (OPTIONAL)

Belt Width: 650mm (26")

Max achievable discharge height target approx. 2.5m

Low level greasing

High spec scraper at head drum

Stockpile capacity: 18.1m³ (23.7yd³)

LHS discharge is standard

MAGNETIC SEPARATOR (OPTIONAL)

Suspended self cleaning crossbelt overband magnet

Permanent magnet

Twin pole Version

Heavy duty version also available

UNDERCARRIAGE

Bolt on tracks

Shoe Width: 400mm (16")

Sprocket Centres: 3.243m (10' 8")

Dual tracking speed with 'soft start'

Up to 30° gradient capability

TOOL BOX

Mounted lockable tool box

Tool kit

Grease gun



Scania Engine



Cat Engine



By-pass Conveyor



Magenetic Separator



Undercarriage

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 (optional)

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 (OPTOINAL)

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



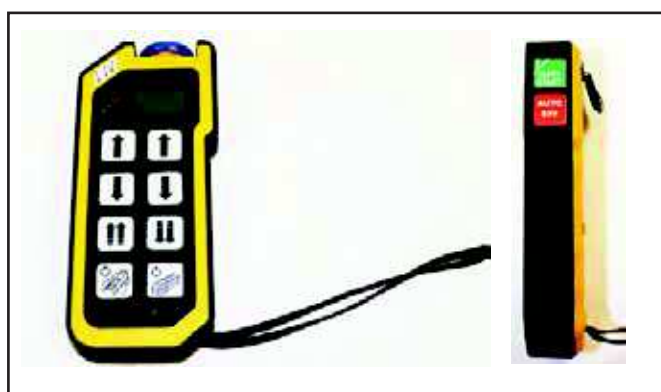
Control Panel



Control Panel



Platforms



Remote Control Unit Standard

STANDARD FEATURES

ENGINE:

Tier 3 / Stage IIIA : Caterpillar C9 Tier 3 ACERT. 280kW (375hp)

Stage IIIA Constant Speed: Scania DC9 292kW (392hp)

IMPACT CHAMBER:

Terex CR038 Impact chamber

Fully Hydraulically assisted apron setting and hydraulic apron release

Manual raise chamber flap allowing extra inlet clearance

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

Direct Drive via Clutch

Drive belt tensioner wheel

Blow bar lifting tool supplied

Drive Pulley to suit higher speed range

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: 1.1m (44") full length

Hydraulic raise/ lower of main conveyor

AUXILIARY CONVEYORS:

Piped for over band 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

Variable Speed Tracking

OPTIONAL EQUIPMENT

Tier 4 Final / Stage IV : Scania DC9 294kW (400hp)

Stage V: Scania DC9 294kW (400hp)

Smaller engine chamber drive pulley to give lower speed range. Standard large pulley still dispatched with machine

OPTIONAL EQUIPMENT

2nd Apron auto adjust

Crushing Chamber Grinding Path. Check availability 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 blow bars

VGf Hopper Extensions - Hydraulically Folding

VGf optional grizzly spacing - 40mm, 65mm or 75mm (Please specify aperture)

VGf optional punch plate spacing - 30mm, 45mm & 60mm

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

Independent Pre-Screen Blanking Mat, included with pre-screen option

Independent pre-screen Hopper Extensions

Pre-screen optional spacing grizzly - 40mm, 65mm or 75mm (Please specify aperture)

Pre-screen Punch Plate optional spacing - 38mm, 50mm, 63mm or 75mm (Please specify aperture)

Pre-Screen top deck fitted with side tensioned mesh, 30mm aperture standard

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 650mm wide plain belt, discharging to the RHS of the machine

Bypass conveyor with 650mm wide plain belt, discharging to the LHS of the machine. Standard

Twin pole over band magnet c/w stainless steel skirting & stainless steel discharge chute. Discharge RHS Standard

Twin pole heavy duty over band magnet (skirting & chute as above). Discharge RHS Standard

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 for dust suppression

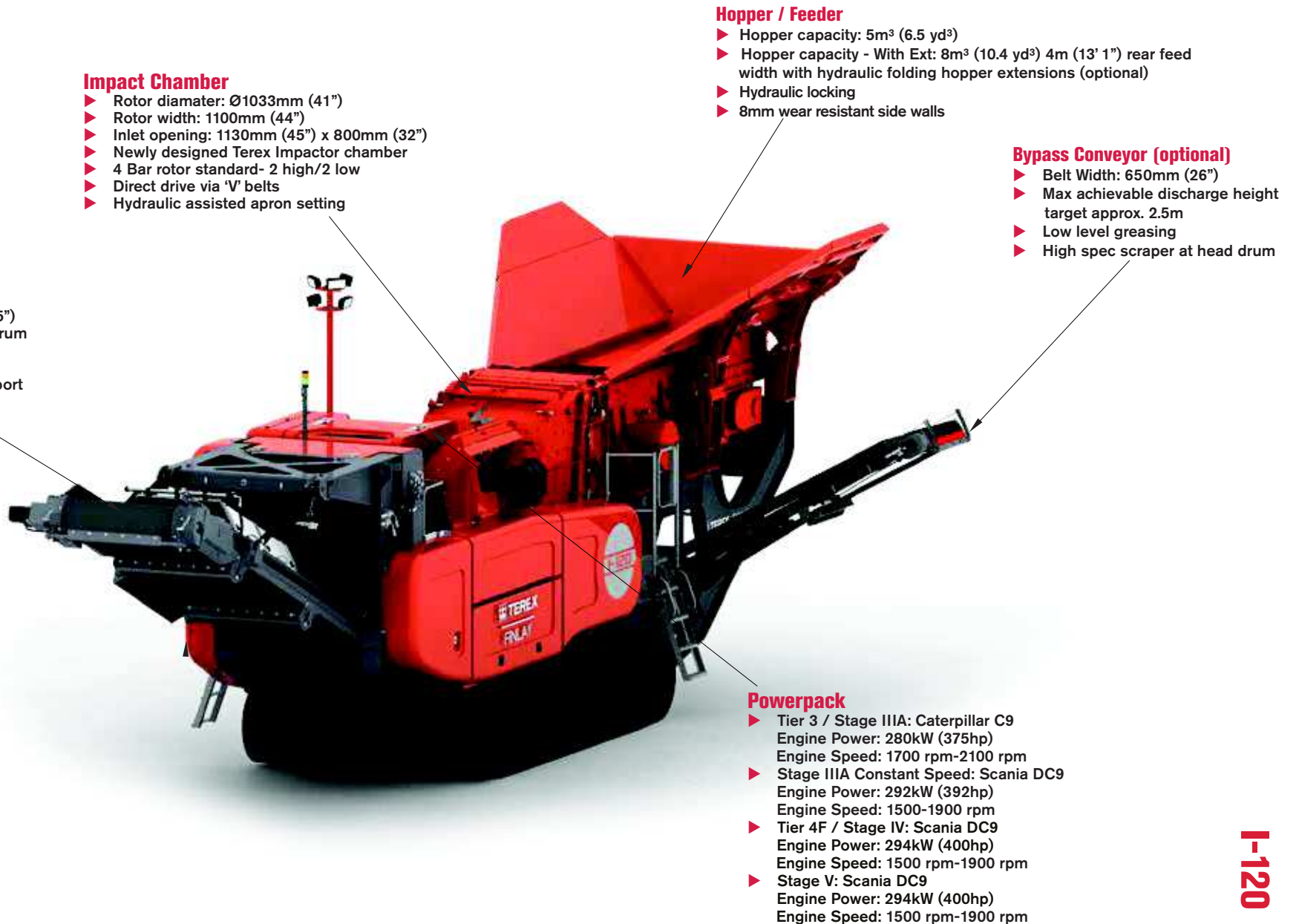
Electric Refuelling Pump

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

Pressurised air system for electrical control cabinet

Reversible Engine Fan with fuel save function

1 nr stockpiler drive (requires 1 nr Auxiliary drive)* Check availability at time of order



Impact Chamber

- ▶ Rotor diameter: Ø1033mm (41")
- ▶ Rotor width: 1100mm (44")
- ▶ Inlet opening: 1130mm (45") x 800mm (32")
- ▶ Newly designed Terex Impactor chamber
- ▶ 4 Bar rotor standard- 2 high/2 low
- ▶ Direct drive via 'V' belts
- ▶ Hydraulic assisted apron setting

Main Conveyor

- ▶ Belt Width: 1.1m (44")
- ▶ Discharge Height: 3.5m (11' 5")
- ▶ High spec scraper at head drum
- ▶ Dust suppression standard
- ▶ Low level greasing standard
- ▶ Hydraulic lowering for transport
- ▶ Full length belt standard

Hopper / Feeder

- ▶ Hopper capacity: 5m³ (6.5 yd³)
- ▶ Hopper capacity - With Ext: 8m³ (10.4 yd³) 4m (13' 1") rear feed width with hydraulic folding hopper extensions (optional)
- ▶ Hydraulic locking
- ▶ 8mm wear resistant side walls

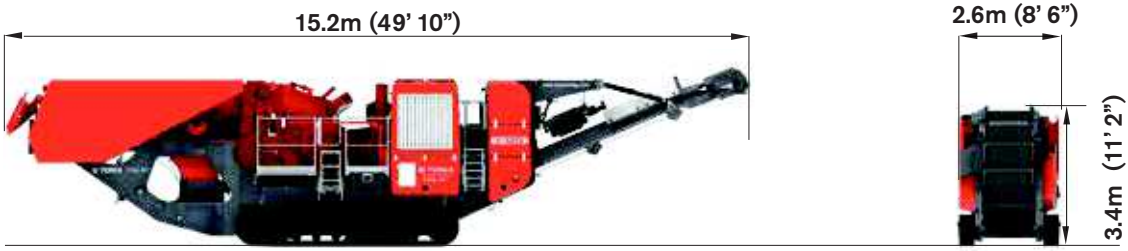
Bypass Conveyor (optional)

- ▶ Belt Width: 650mm (26")
- ▶ Max achievable discharge height target approx. 2.5m
- ▶ Low level greasing
- ▶ High spec scraper at head drum

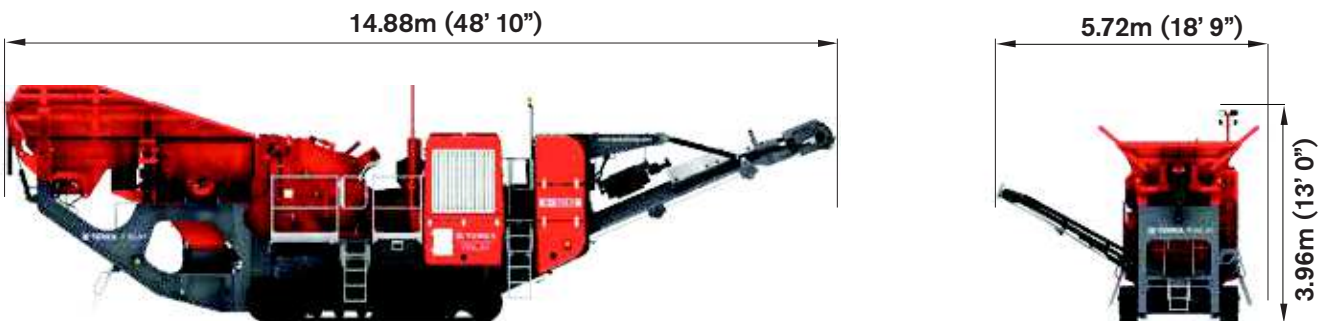
Powerpack

- ▶ Tier 3 / Stage IIIA: Caterpillar C9
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Engine Speed: 1700 rpm-2100 rpm
- ▶ Stage IIIA Constant Speed: Scania DC9
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Engine Speed: 1500-1900 rpm
- ▶ Tier 4F / Stage IV: Scania DC9
Engine Power: 294kW (400hp)
Engine Speed: 1500 rpm-1900 rpm
- ▶ Stage V: Scania DC9
Engine Power: 294kW (400hp)
Engine Speed: 1500 rpm-1900 rpm

TRANSPORT DIMENSIONS



WORKING DIMENSIONS



MACHINE WEIGHT: **37,000kg (81,571lbs*)**

** Pre-screen, Hopper Extensions, By-pass Conveyor & Twin Pole Magnet*

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

