



# TEREX | FINLAY



## I-120RS

# I-120RS IMPACT CRUSHER

### SPECIFICATION:

Rotor Size:

Ø1033mm x 1100mm (Ø41" x 44")

Net Engine Power

Tier 3/Stage IIIA:

Caterpillar C9 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:

48,150kg (106,153lbs\*)

*\*VGF, HOPPER EXTENSIONS, HEAVY DUTY MAGNET*



## VGf HOPPER / FEEDER

VGf Hopper capacity: 5m<sup>3</sup> (6.5 yd<sup>3</sup>)

VGf Hopper capacity - With Ext: 8m<sup>3</sup> (10.4 yd<sup>3</sup>) 4m (13' 1") rear feed width with hydraulic folding hopper extensions (optional)

VGf 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")

VGf 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: 63.8m<sup>3</sup> (83.4yd<sup>3</sup>)



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
<b>Maximum Recommended Size of Rebar Steel in the Feed Material:</b>	
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

## RS COMPONENT

RS Screen: 3.66m x 1.53m (12' x 5') 2 deck  
 Single transfer for both decks into re-circ conveyor standard  
 Quick detach screen unit

Fines conveyor: 1.4m (55") wide  
 Discharge: 3m (9' 10")

Transfer conveyor: 500mm (20")

Re-circulating conveyor: 500mm (20")  
 Screen Angle: Fixed

Mid-grade transfer conveyor optional

Stockpile Capacity: 40.2m<sup>3</sup> (52.6yd<sup>3</sup>)

## 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: 18.1m<sup>3</sup> (23.7yd<sup>3</sup>)

LHS discharge is standard. Must be RHS if Mid-grade stockpiling selected

## MAGNETIC SEPARATOR (OPTIONAL)

Suspended self cleaning crossbelt overband magnet

Permanent magnet

Twin pole Version

Heavy duty version also available

RHS discharge only

Hydraulic raise / lower

## MID-GRADE STOCKPILING CONVEYOR (OPTIONAL)

Belt Width: 650mm (26")

Discharge Height: 1.9m (6' 3")

Drum centres: 3m (9' 10")

Conveyor manually lifted on/off for transport



Scania Engine



Cat Engine



By-pass Conveyor



Magnetic Separator



Mid-Grade Stockpiling Conveyor (Option)

## UNDERCARRIAGE

Bolt on tracks

Shoe Width: 400mm (16")

Sprocket Centres: 3.78m (12' 5")

Dual tracking speed with 'soft start'

Up to 30° gradient capability

## 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



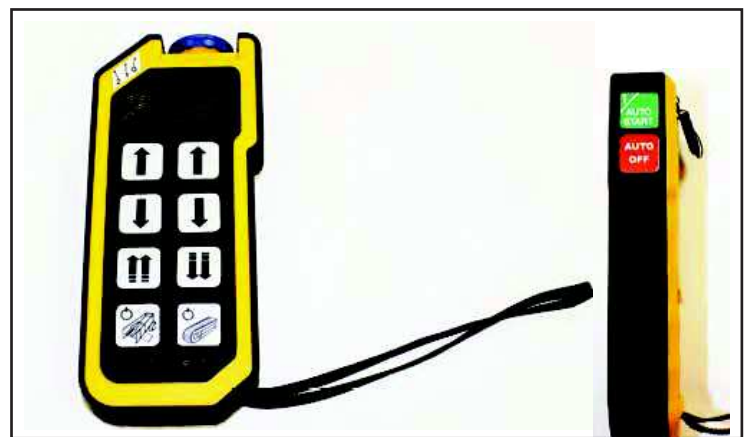
Control Panel



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

### AUXILIARY CONVEYORS:

Hydraulic raise/ lower for magnet

Piped for over band magnet

### RS COMPONENTS:

3.66m X 1.53m (12' X 5') two deck after screen c/w 50mm top deck and 40mm bottom deck mesh as standard unless otherwise stated

500mm (20") wide belt single transfer conveyor collecting material from both decks

500mm (20") wide belt hydraulic folding re-circulating conveyor able to slow 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

## OPTIONAL EQUIPMENT

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

Stage V : Scania DC9 294kW (400hp)

## OPTIONAL EQUIPMENT

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

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 - 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 and blanking mat. 50mm cassette spacing & 38mm mesh as standard

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)

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 - RH if Mid-grade stockpiling Conveyor is selected

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

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

Belt weigher

Additional dust cover on fines conveyor

Additional transfer conveyor for collecting material from each individual deck of screen box

Additional transfer & Stockpile conveyor for collecting material from each individual deck of screen box. Giving middle grade product - Only available with RH Bypass 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 for dust suppression

Electric Refuelling Pump

Pressurised air system for electrical control cabinet

Lighting Mast

Reversible Engine Fan with fuel save function

1 nr stockpiler drive (requires 1 nr Auxiliary drive)\*

### 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

### 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")
- ▶ 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
- ▶ Hydraulic release chamber protection

### Hopper / Feeder

- ▶ Hopper capacity: 5m<sup>3</sup> (6.5 yd<sup>3</sup>)
- ▶ Hopper capacity - With Ext: 8m<sup>3</sup> (10.4 yd<sup>3</sup>) 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

### Screenbox

- ▶ Both decks: 3.66m x 1.53m (12' x 5')
- ▶ Side tensioning: both decks
- ▶ Drive: hydraulic with heavy duty bearing
- ▶ Screen can be lowered for mesh changing and general service access
- ▶ Complete RS System can be quick detached if not required

### Mid-Grade Stockpiling Conveyor (optional)

- ▶ Belt Width: 650mm (26")
- ▶ Discharge Height: 1.9m (6' 3")
- ▶ Long conveyor, drum centres: 3m (9' 10")

### Re-circulating conveyor:

- ▶ Belt Width: 500mm (20")
- ▶ Screen Angle: Fixed

### Powerpack

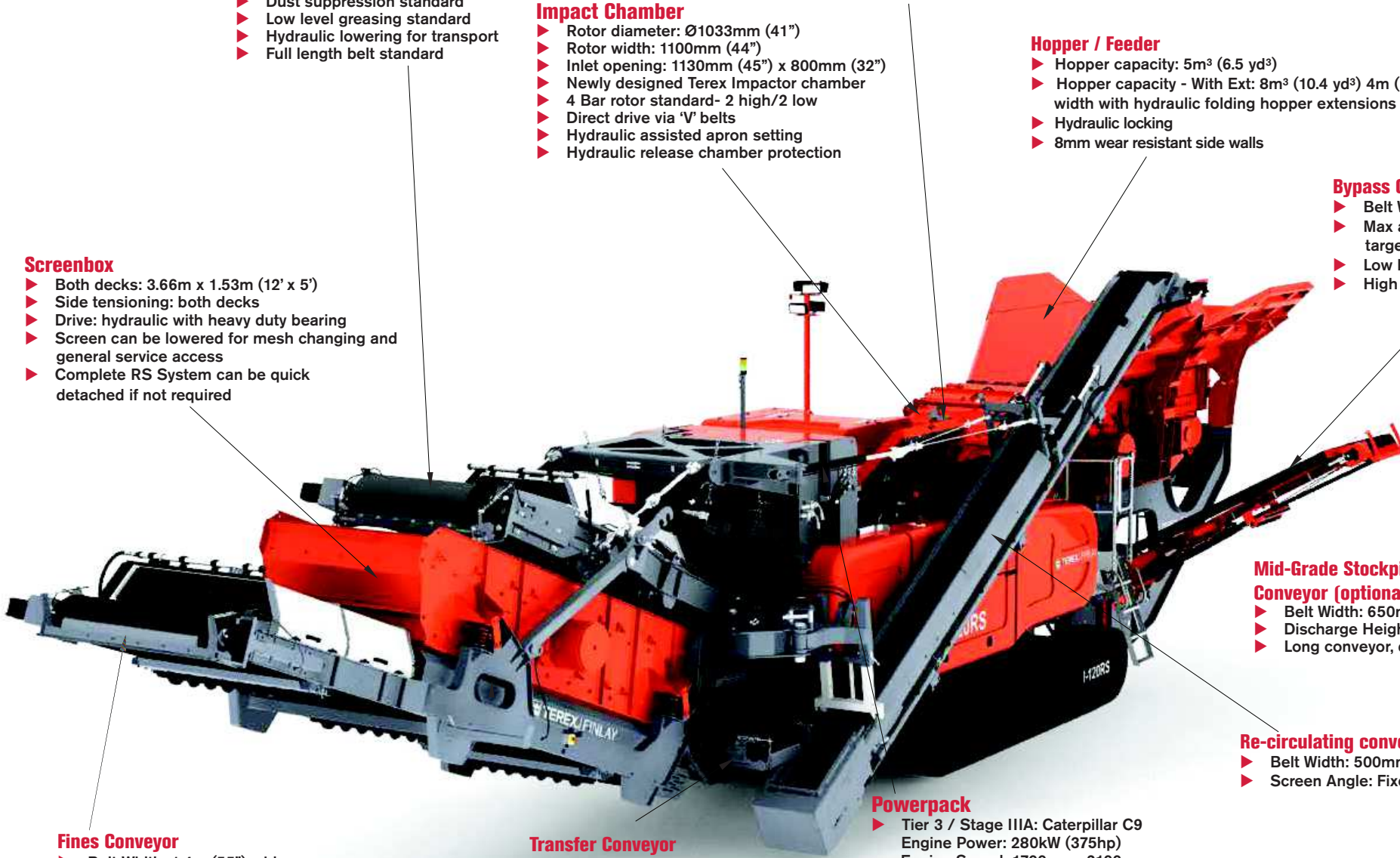
- ▶ Tier 3 / Stage IIIA: Caterpillar C9  
Engine Power: 280kW (375hp)  
Engine Speed: 1700 rpm-2100 rpm
- ▶ Stage IIIA Constant Speed: Scania DC9  
Engine Power: 292kW (392hp)  
Engine Speed: 1500-1900 rpm
- ▶ Tier 4F / Stage IV: Scania DC9  
Engine Power: 294kW (400hp)  
Engine Speed: 1500 rpm-1900 rpm

### Transfer Conveyor

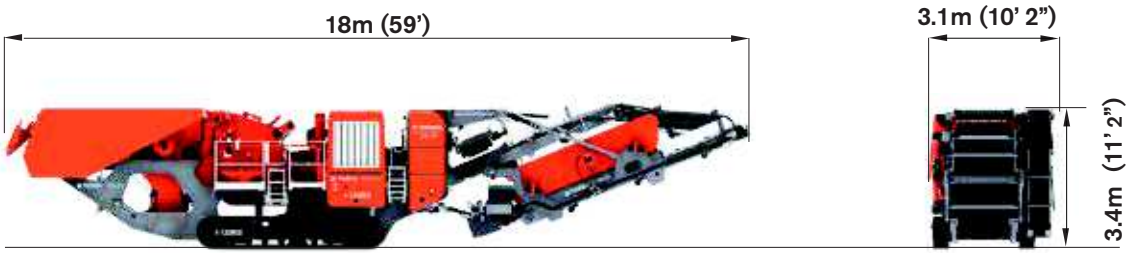
- ▶ Belt Width: 500mm (20")

### Fines Conveyor

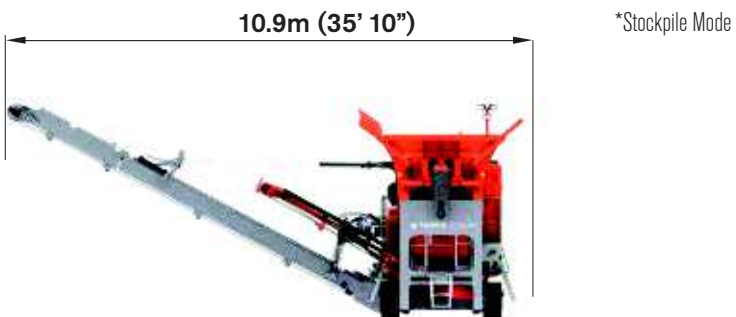
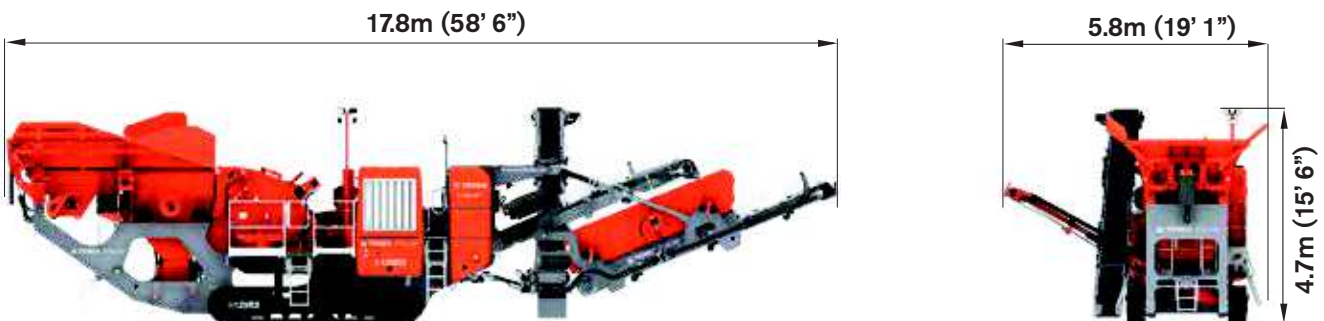
- ▶ Belt Width: 1.4m (55") wide
- ▶ Discharge: 3m (9' 10")



## TRANSPORT DIMENSIONS



## WORKING DIMENSIONS



**MACHINE WEIGHT: 48,150kg (106,153lbs\*)**

\* VGF, Hopper Extensions, Heavy Duty Magnet

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

