

CONE CRUSHER



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C-1540RS

The Terex Finlay C-1540RS tracked mobile cone crusher provides the versatility of a crushing and screening plant on one machine in aggregate and ore surface mining applications. Based on the proven and tested Terex Finlay C-1540 cone crusher, this machine variant features an innovative on-board recirculating system and detachable sizing screen. If recirculation and sizing of materials is not required the sizing screen can be quickly detached from the machine without the need for lifting equipment.

The Terex Finlay C-1540RS can be fitted with an optional patented pre-screen module which allows fines materials to be removed prior to being fed to the crushing chamber offering higher production with lowest cost per ton wear and running costs. The large hopper/feeder has an automated metal detection and a purge system to protect the cone and reduce downtime by removing metal contaminants from the feed belt.

STANDARD FEATURES

- Engine:**
- Tier 3 / Stage 3A: CAT C13 Acert 328kW (440hp)
 - Tier 4i / Stage 3B: Scania DC13 83A 331kW (450hp)
- Cone:**
- Terex 1000 Cone chamber, Head diameter: 1000mm (40")
 - Long throw eccentric, medium coarse concave (max feed size 160mm)
 - Hydrostatic cone drive
- Hopper / Feeder:**
- Hopper capacity: 5m³ (6.5yd³)
 - Belt width: 1050mm (42")
 - Metal detector
 - Metal contaminants purge system
 - Wear resistant liner plates
- Main Conveyor:**
- Belt width: 900mm (36")
 - High spec scraper at head drum
 - Wear resistant liners at crusher discharge point
 - Dust Covers
- Re-Circulating System:**
- Two deck screen: 3.66m x 1.52m (12' x 5')
 - Top deck mesh fitted to screen - 40mm aperture fitted unless specified otherwise
 - Oversize transfer conveyor, re-circulating conveyor and fines conveyor fitted as standard
 - Quick detach screen and fines conveyor
 - Note:- Middle grade transfer conveyor is not fitted, this is only an option
- General:**
- Galvanised catwalk c/w handrail, kick board and access ladders
 - Heavy duty track unit, sprocket centres 3.8m, pad width 500mm
 - Hand held track control set with connection lead
 - Single speed tracking
 - Safety guards in compliance to machinery directive
 - One auxiliary drive
 - Emergency stops
 - Piped for dust suppression c/w spraybars
 - High specification oil cooler

Features:

- ▶ Detachable 3.66m x 1.52m (12' x 5') double deck sizing screen passes oversize material back to the crusher via the on-board recirculating conveyor.
- ▶ Quick and easy detachable screen and fines conveyor for open circuit crushing.
- ▶ The optional stacking conveyor in conjunction with the optional lower deck screen, produces a 2nd spec'd product.

Cone chamber

- ▶ Terex 1000mm (40") cone chamber
- ▶ Cone Counter Shaft Speed Range: 840 - 940 rpm
- ▶ Five cone head speed control settings for producing a quality aggregate
- ▶ 'On the fly' hydraulically adjustable closed side setting with monitoring system

Undercarriage

- ▶ Shoe Width: 500mm (20")
- ▶ Sprocket Centres: 3.80m (12' 6")
- ▶ Tracking Speed: 0.9 km/h
- ▶ Gradeability: 25°

Hopper / Feeder

- ▶ Hopper capacity: 5m³ (6.5yd³)
- ▶ Hopper fabricated in 10mm mild steel plate with 10mm wear resistant steel liners at input point
- ▶ Hopper Width at rear: 2.45m (8')
- ▶ Hopper Width at rear with optional hopper extensions: 3.7m (12' 2")
- ▶ Belt Spec: Plain
- ▶ Belt Width: 1.05m (42")
- ▶ Speed range: variable, 0 - 31 m/min (0 - 101 ft/min)
- ▶ Working Angle: 24° (Pre-screen feed), 21° (Direct feed)
- ▶ Drop down rear door for auxiliary crusher feed
- ▶ Crash bar fitted to reduce impact load on feed conveyor

Powerpack

- ▶ Tier IVF: Scania DC13 83A
- ▶ Engine Power: 450hp (331kW)
- ▶ Engine Speed: 1900 rpm
- ▶ ROW (Tier 3 or equivalent): Caterpillar C13 Acert
- ▶ Engine Power: 440hp (328kW)
- ▶ Engine Speed: 1900 rpm

Fines Conveyor

- ▶ Belt width: 1.4m (55")
- ▶ Belt spec: Plain
- ▶ Working Angle: 19° - 22°
- ▶ Speed: 70 - 80 m/min (229 - 262 ft/min)
- ▶ Hydraulically folds for transport
- ▶ Discharge Height: 3.0m (9' 10")
- ▶ Stockpile capacity: 44.3m³ (58yd³) @ 40°

Screen box

- ▶ Top deck: 3.66m x 1.52m (12' x 5')
- ▶ Bottom deck: 3m x 1.52m (10' x 5')
- ▶ Total screening area: 10.1m² (110ft²)
- ▶ Screen Angle: 19° - 22°

Oversize Transfer Conveyor

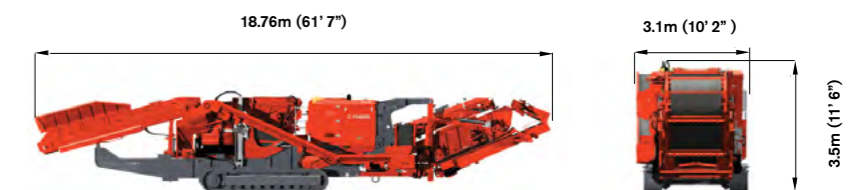
- ▶ Belt width: 500mm (20")
- ▶ Belt spec: Plain
- ▶ Speed: Variable speed, 0 - 90 m/min (0 - 295 ft/min)
- ▶ Hydraulically folds for transport

Recirculation conveyor

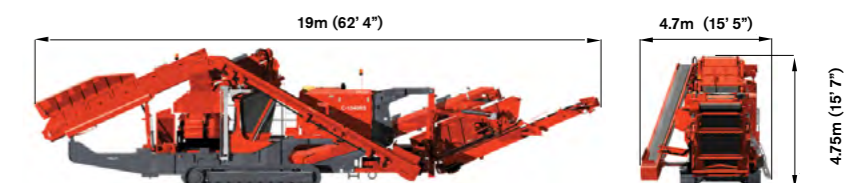
- ▶ Belt width: 500mm (20")
- ▶ Belt spec: Chevron
- ▶ Working Angle: 30°
- ▶ Speed: Variable speed, 0 - 90 m/min (0 - 295 ft/min)
- ▶ Hydraulically folds for transport



Transport Dimensions



Working Dimensions



Machine Weight:
 43,800kg (96,563lbs) Without options
 45,600kg (100,531lbs) With optional pre-screen
 49,000kg (108,027lbs) With optional pre-screen, mid-grade transfer & mid-grade stockpiling conveyor

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