



TEREX | FINLAY



C-1540 C-1540RS

CONE CRUSHER WITH RECIRCULATION FACILITY

Innovation, Reliability & Performance...

Introducing the Terex® Finlay C-1540 Cone Crusher - the most advanced mobile tracked crusher solution for producing high quality aggregates!!

The C-1540 delivers efficient product throughput, high material reduction ratios, excellent product shape & is suitable for secondary & tertiary applications.

Incorporating the proven Terex® 1000 Cone Chamber, the C-1540 boasts a direct hydrostatic drive with an advanced electronic control system, large capacity feed hopper, metal detection & contaminant purge system as standard features.

Throughput capacity & performance of this unique system can be enhanced with the optional pre-screen system.



Hopper Feeder System

The feed hopper has a capacity of 5m³ (6.5yd³) and incorporates a series of crash bars to reduce impact on the feed belt. Optional hopper extensions are available that increase the capacity to 8m³ (10.5yd³).

The hopper incorporates an automatic variable speed conveyor to maximise throughput.

The hopper has a drop down rear door for auxiliary crusher feed.

C-1540 Cone Crusher



Metal Detection and Purge system

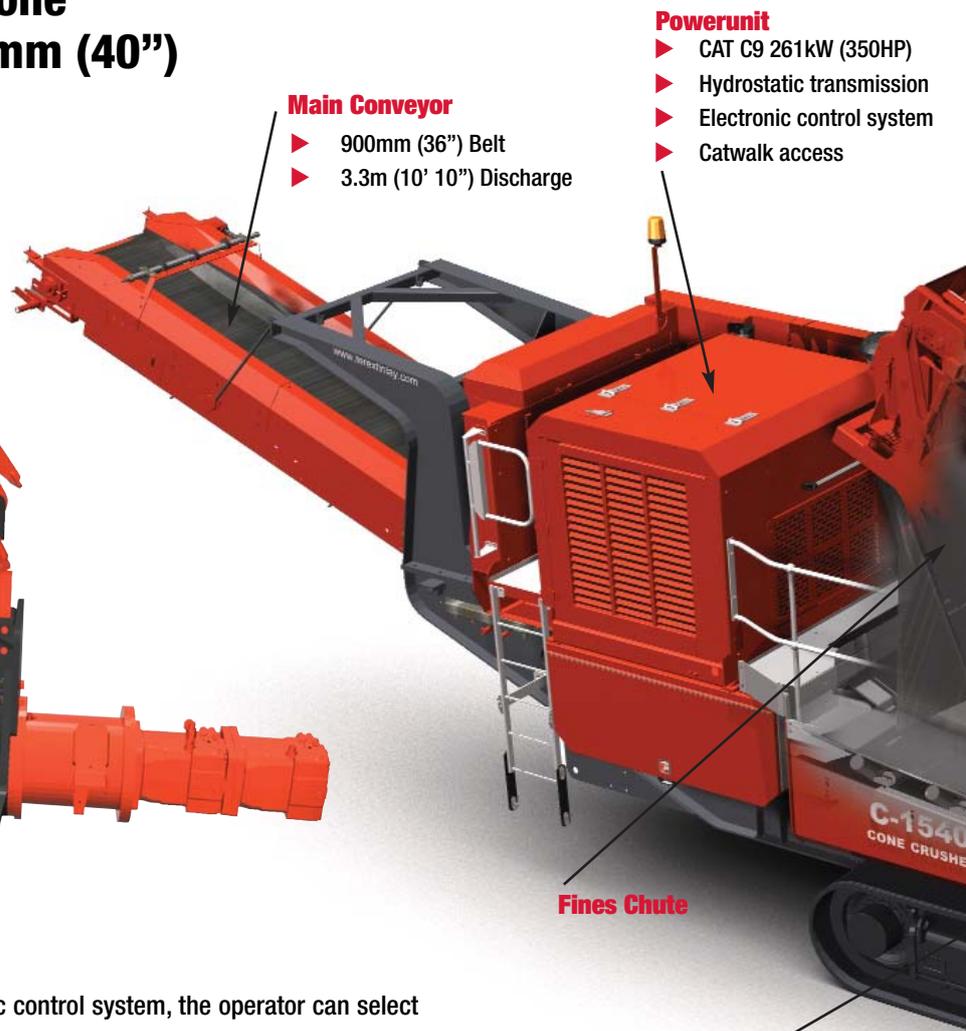
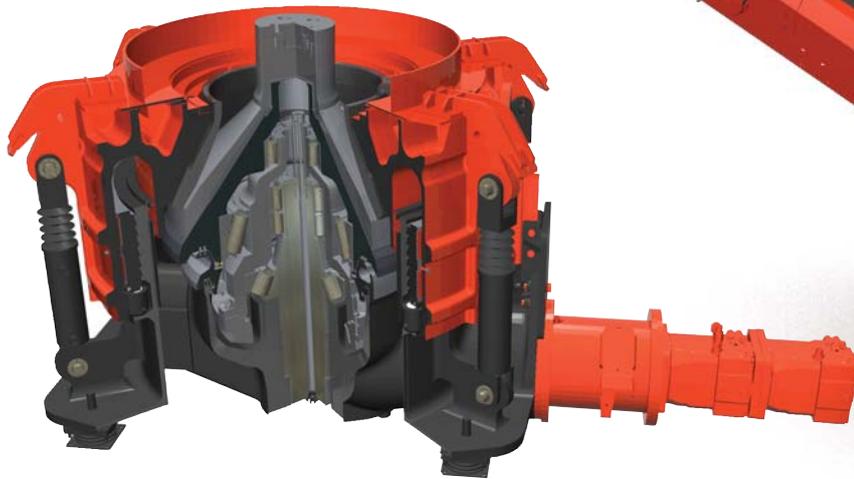
The hopper feeder is fitted with a metal detection and purge system. When any metal objects are detected on the feed conveyor, the feeder belt automatically stops and the warning beacon flashes to alert the operator. The feeder belt can be hydraulically retracted to its purge position, then the contaminated section of material is ejected onto the purge chute. Once the contaminated material has been removed from the belt it can be returned to its feed position to resume crushing.

At a Glance

- ▶ Proven Terex® 1000 Cone Chamber (40" head diameter)
- ▶ Metal detection system on feed belt with purge facility
- ▶ Cat C9 Acert 261kW(350HP) water cooled diesel engine
- ▶ Direct hydrostatic variable speed cone drive
- ▶ Advanced electronic control system
- ▶ Variable feeder speed control to maintain choke feed condition maximising reduction & manganese life
- ▶ Hopper capacity of 5m³ (6.5yd³) with impact reducing cross bars.
- ▶ Controllable discharge system to purge metal contaminants from belt
- ▶ Long throw eccentric, medium coarse concave (maximum feed size 160mm / 6.3")
- ▶ Tramp metal relief system with automatic reset

Cone Chamber

The proven Terex® 1000 Cone Chamber features a 1000mm (40") head size & incorporates a hydraulic setting, tramp release & unblocking system



Main Conveyor

- ▶ 900mm (36") Belt
- ▶ 3.3m (10' 10") Discharge

Powerunit

- ▶ CAT C9 261kW (350HP)
- ▶ Hydrostatic transmission
- ▶ Electronic control system
- ▶ Catwalk access

Fines Chute

Cone Chamber

- ▶ Ø40" (1000mm) head
- ▶ Direct Hydrostatic drive

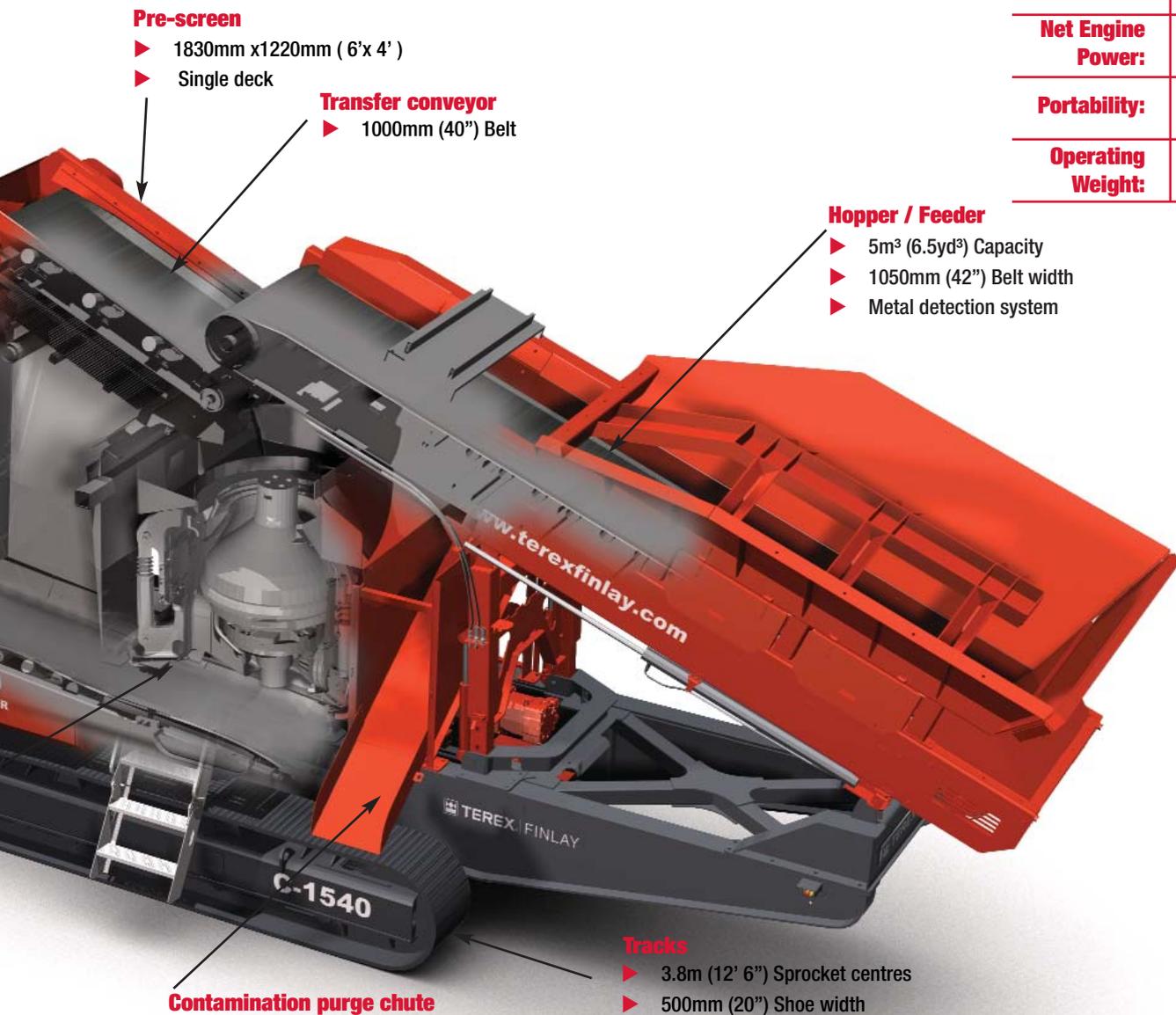
With the hydrostatic drive and advanced electronic control system, the operator can select from five cone head speed settings which permits the optimisation of the chamber as well as providing protection to the chamber.

The system is available with a choice of liners to suit your application; Medium Coarse, Extra Coarse, Coarse & Sand. Two choices of eccentric throw are available – long & short throw.

STANDARD FEATURES:	
Engine: - Caterpillar C9 Acert 261 kW (350HP) water cooled engine	Main Conveyor: - 900mm (36") product conveyor belt - High spec scraper at head drum - Wear resistant liners 15mm (0.6") at crusher discharge point
Chamber: - Terex 1000 Cone chamber, 1000mm (40") head diameter - Long throw eccentric, medium coarse concave (max feed size 160mm / 6.3") - Hydrostatic cone drive with electronic speed control system - 'On the fly' hydraulically adjustable closed size setting with monitoring system - Mantle/concave wear indicator - Tramp metal relief system with automatic reset	General: - Galvanised catwalk c/w handrail, kick board and access ladders - Heavy duty track unit, sprocket centres 3.8m (12'6"), pad width 500mm (20") - Hand held track control set with 5m (16' 5") connection lead - Single speed tracks with soft start - Safety guards to 'M&Q' specification - Multiple easy access low level greasing points - Two auxiliary drives* standard on basic machine - Emergency stops (7 nr) - Dust suppression system (manifold, 3 bars, piping)
Hopper / Feeder: - 5m ³ capacity (6.5yd ³), with impact reducing cross bars - Low level drop down rear feed point - Hydraulic retraction system (foldable for transport) - 1050mm (42") wide feed belt - Metal detection system on feed belt with 'auto-stop' feature - Controllable discharge system to purge metal contaminants from belt - Heavy duty, high torque hydraulically driven feed belt - Wear resistant liner plates 10mm (0.4") fitted to feed-in end of hopper	

C-1540 Cone Crusher

Cone Head Diameter:	1000mm 40"
Net Engine Power:	261kW 350HP
Portability:	Tracked
Operating Weight:	38,300kg * 84,435lbs*



Pre-screen

- ▶ 1830mm x1220mm (6'x 4')
- ▶ Single deck

Transfer conveyor

- ▶ 1000mm (40") Belt

Hopper / Feeder

- ▶ 5m³ (6.5yd³) Capacity
- ▶ 1050mm (42") Belt width
- ▶ Metal detection system

Tracks

- ▶ 3.8m (12' 6") Sprocket centres
- ▶ 500mm (20") Shoe width

Contamination purge chute

OPTIONAL EQUIPMENT FEATURES

- Pre-screen system - 1.83m x 1.22m (6'x4') single deck screen with 1000mm (40") transfer conveyor and dust cover complete system folds for transport, 16mm (5/8") aperture mesh fitted unless specified otherwise.
Requires - 1 nr auxiliary drive¹
- Hydraulically driven water pump for dust suppression.
Requires 1 nr auxiliary drive¹
- Main conveyor dust cover
- Electric pump refuelling kit
- Special Paint Colour (if different from Finlay Orange RAL 2002). RAL must be provided
- Wear resistant liners 6mm (1/4") for feed hopper
- Manual extensions for feed hopper (total capacity 8m³ / 10.5yd³)
- Radio remote System: Operational controls of machine (auto start/stop) & track movement
- Belt weigher for main conveyor
- 1 nr stockpiler drive. Requires 1 nr auxiliary drive¹
- Lighting mast for catwalk
- Hot climate lubrication kit (For above +30 degree celsius (86°F) ambient)
- Hot Climate cooler pack for (For above +40 degree celsius (104°F) ambient)
Requires 1 nr auxiliary drive^{1&2}

- Cold Climate lubrication kit (For below -10 degree celsius (14°F) ambient)
- Extra coarse concave - max feed size 195mm (7.7") (check leadtime)
- Coarse concave - max feed size 175mm (6.9") (check leadtime)
- Sand concave - max feed size 63mm (2.5") (check leadtime)
- * NOTE MUST TAKE SHORT THROW ECCENTRIC (BELOW)
- Short throw eccentric (check leadtime)

* NOTES:

- 1) Only 2 nr auxiliary drives are available in total
- 2) When hot climate cooler pack is selected must also take main conveyor Dust Covers & Hot Climate lubrication pack options

Two Versatile Machines on One Chassis...

The C1540-RS provides the versatility of a crushing & screening plant on one chassis for secondary & tertiary applications.

The C-1540RS passes the crushed product to the onboard 3.66m x 1.52m (12' x 5') sizing screen. Oversize material is then passed back to the cone crusher for re-crushing via the transfer conveyor/recirculation conveyor system. Fines material passes through the screen, and is stockpiled using the onboard conveyor. An additional stockpile conveyor option can be mounted to the machine along with a transfer conveyor to provide a stockpile of middle grade material. The additional stockpiler option must be removed for transport.

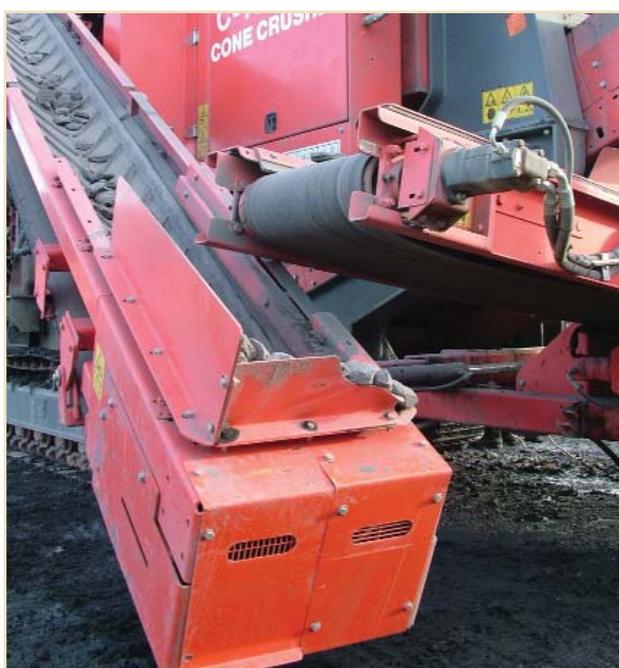


Detachable Screen

The recirculation screen can be rapidly detached if necessary. This allows the machine to be more conveniently moved around site & provide more efficient operation if recirculation or sizing is not required. The system can be detached or re-attached in under 10 minutes without the need for lifting equipment. The core software can recognise & adjust to suit automatically.

C-1540RS Cone Crusher

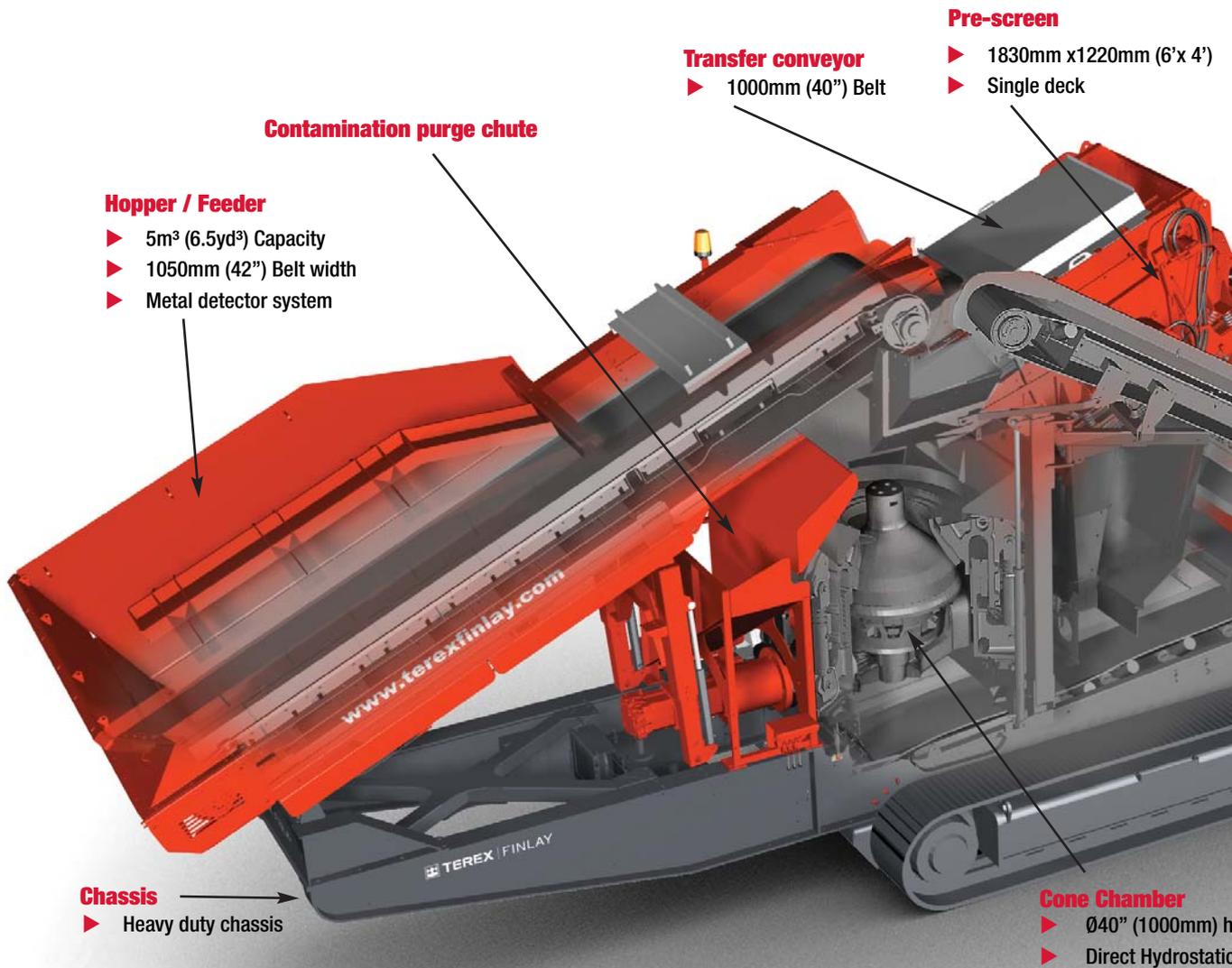
With sizing screen and recirculation facility



At a Glance

- ▶ Proven Terex® 1000 Cone Chamber (40" head diameter)
- ▶ Metal detection system on feed belt with auto stop & purge
- ▶ Cat C13 Acert 328kW(440HP) water cooled diesel engine
- ▶ Direct hydrostatic variable speed cone drive
- ▶ Advanced electronic control system
- ▶ Variable feeder speed control to maintain choke feed maximising reduction & manganese life
- ▶ Hopper capacity of 5m³ (6.5yd³) with impact reducing cross bars.
- ▶ Controllable discharge system to purge metal contaminants from belt
- ▶ Long throw eccentric, medium coarse concave - max feed size 160mm (6.3")
- ▶ Tramp metal relief system with automatic reset
- ▶ High quality finished product with recirculation feature
- ▶ Combined crusher & screener on one chassis

C-1540RS Cone Crusher



Hopper / Feeder

- ▶ 5m³ (6.5yd³) Capacity
- ▶ 1050mm (42") Belt width
- ▶ Metal detector system

Contamination purge chute

Transfer conveyor

- ▶ 1000mm (40") Belt

Pre-screen

- ▶ 1830mm x 1220mm (6' x 4')
- ▶ Single deck

Chassis

- ▶ Heavy duty chassis

Cone Chamber

- ▶ Ø40" (1000mm) h
- ▶ Direct Hydrostatic

STANDARD FEATURES:

Engine:

- Caterpillar C13 Acert 328 kW (440HP) water cooled engine

Chamber:

- Terex 1000 Cone chamber, 1000mm (40") head diameter
- Long throw eccentric, medium coarse concave- max feed size 160mm (6.3")
- Hydrostatic cone drive with electronic speed control system
- 'On the fly' hydraulically adjustable closed size setting with monitoring system
- Mantle/concave wear indicator
- Tramp metal relief system with automatic reset

Hopper / Feeder:

- 5m³ capacity (6.5yd³), with impact reducing cross bars
- Low level drop down rear feed point
- Hydraulic retraction system (foldable for transport)
- 1050mm (42") wide feed belt
- Metal detection system on feed belt with 'auto-stop' feature
- Controllable discharge system to purge metal contaminants from belt
- Heavy duty, high torque hydraulically driven feed belt
- Wear resistant liner plates 10mm (0.4") fitted to feed-in end of hopper

Main Conveyor:

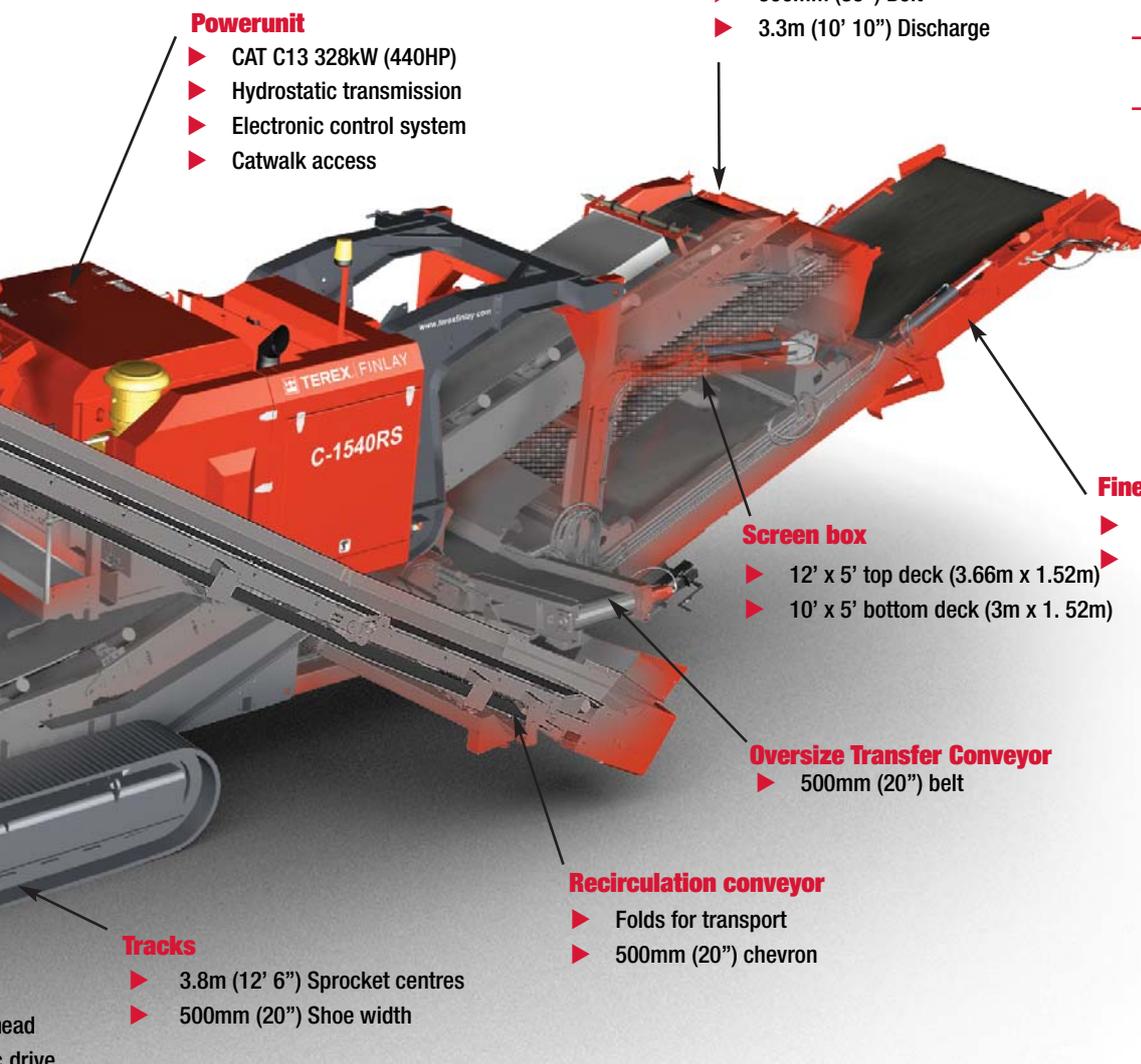
- 900mm (36") product conveyor belt
- High spec scraper at head drum
- Wear resistant liners 15mm (0.6") at crusher discharge point

Re-circulating System:

- 3.66m x 1.52m (12' x 5') two deck screen
- Top deck mesh fitted to screen - 40mm (1.6") 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 (12'6"), pad width 500mm (20")
- Hand held track control set with 5m (16' 5") connection lead
- Single speed tracks with soft start
- Safety guards to 'M&Q' specification
- Multiple easy access low level greasing points
- Two auxiliary drives* standard on basic machine
- Emergency stops (7 nr)
- Dust suppression system (manifold, 3 bars, piping)



Powerunit

- ▶ CAT C13 328kW (440HP)
- ▶ Hydrostatic transmission
- ▶ Electronic control system
- ▶ Catwalk access

Main Conveyor

- ▶ 900mm (36") Belt
- ▶ 3.3m (10' 10") Discharge

Screen box

- ▶ 12' x 5' top deck (3.66m x 1.52m)
- ▶ 10' x 5' bottom deck (3m x 1.52m)

Oversize Transfer Conveyor

- ▶ 500mm (20") belt

Recirculation conveyor

- ▶ Folds for transport
- ▶ 500mm (20") chevron

Tracks

- ▶ 3.8m (12' 6") Sprocket centres
- ▶ 500mm (20") Shoe width

Fines Conveyor

- ▶ 1400mm (55") Belt width
- ▶ 3.0m (9' 10") Discharge height

Cone Head Diameter:	1000mm 40"
Net Engine Power:	328 kW 440 HP
Portability:	Tracked
Operating Weight:	45,600 kg * 100,528lbs*

* Note: With optional pre-screen

OPTIONAL EQUIPMENT FEATURES

- Pre-screen system - 1.83m x 1.22m (6'x4') single deck screen with 1000mm (40") transfer conveyor and dust cover. Complete system folds for transport, 16mm (0.6") aperture mesh fitted unless specified otherwise. Requires 1 nr auxiliary drive¹
- Hydraulically driven water pump for dust suppression. Requires 1 nr auxiliary drive¹
- Main conveyor dust cover
- Electric pump refuelling kit
- Special Paint Colour (if different from Finlay Orange RAL 2002). RAL must be provided
- Wear resistant liners (6mm/ 1/4") for feed hopper
- Manual extensions for feed hopper (total capacity 8m³ / 10.5yd³)
- Radio remote System: Operational controls of machine (auto start/stop) & track movement
- Belt weigher for main conveyor
- 1 nr stockpiling drive. Requires 1 nr auxiliary drive¹
- Lighting mast for catwalk
- Hot climate lubrication kit (For above +30°C (86°F) ambient)
- Hot Climate cooler pack for (For above +40°C (104°F) ambient) Requires 1 nr auxiliary drive^{1&2}
- Cold Climate lubrication kit (For below -10°C (14°F) ambient)
- Extra coarse concave - max feed size 195mm (7'7") (check leadtime)
- Coarse concave - max feed size 175mm (6.9") (check leadtime)

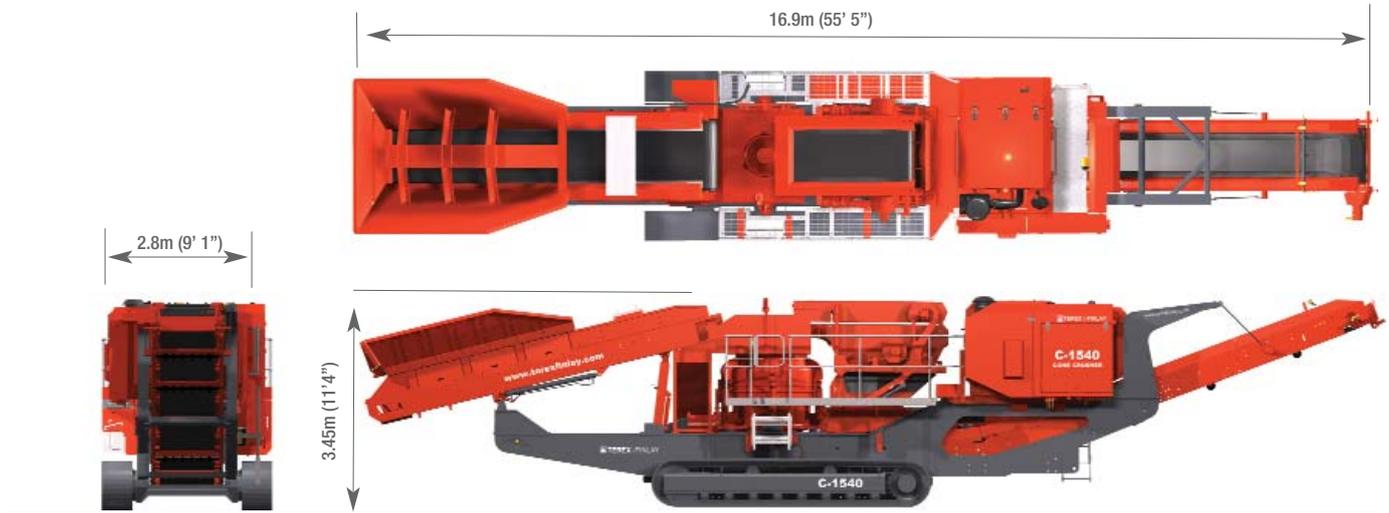
- Sand concave - max feed size 63mm (2.5") (check leadtime) NOTE MUST ALSO TAKE SHORT THROW ECCENTRIC (BELOW)
- Short throw eccentric (check leadtime)
- Bottom deck meshes and tensioner brackets (For re-circulating system)
- 20mm (3/4")- aperture mesh fitted unless specified otherwise
- Middle grade transfer conveyor and chute (For re-circulating system)³
- Middle grade stockpiling conveyor - Separate transport load (For re-circulating system)⁴

*** NOTES:**

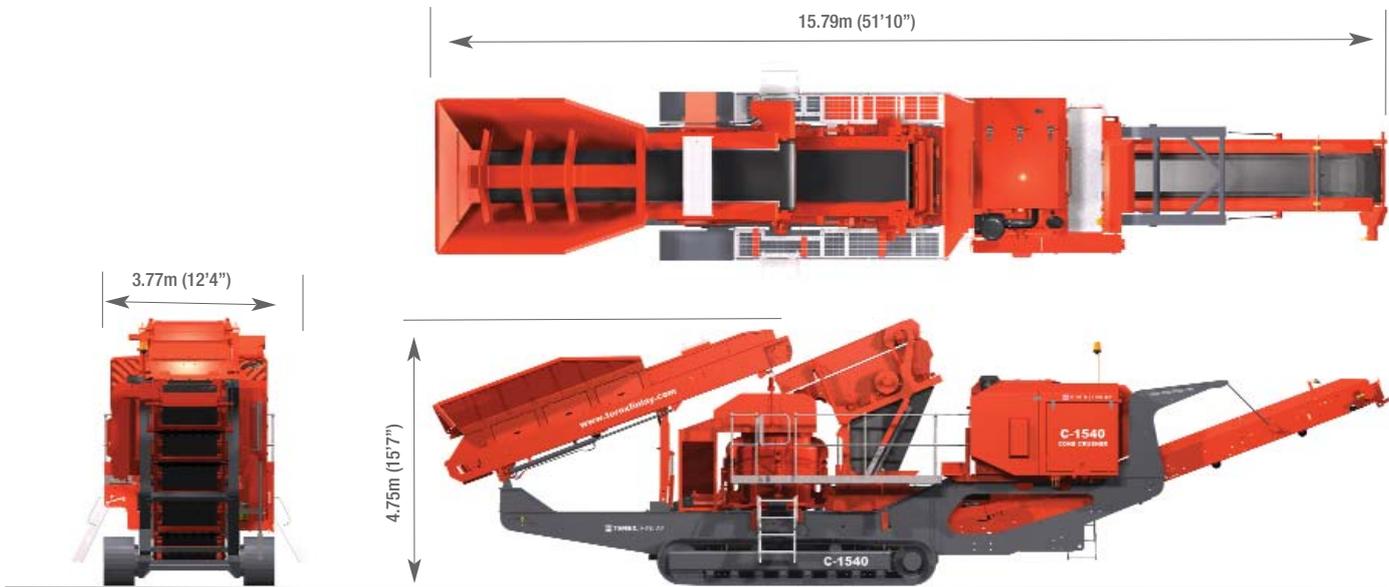
- 1) Only 2 nr auxiliary drives are available in total
- 2) When hot climate cooler pack is selected must also take main conveyor Dust Covers & Hot Climate lubrication pack options
- 3) When middle grade transfer conveyor & chute is selected MUST also take bottom deck meshes & tensioner bracket option
- 4) When middle grade stockpiling conveyor is selected MUST also take bottom deck meshes & tensioner bracket & middle grade transfer conveyor options

C-1540 Cone Crusher

Transport Position



Working Position

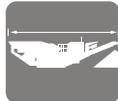


Working Height



4.75m (15'7")

Working Length



15.79m (51'10")

Working Width



3.77m (12'4")

Transport Height



3.45m (11'4")

Transport Length



16.9m (55'5")

Transport Width



2.8m (9'1")

Weight



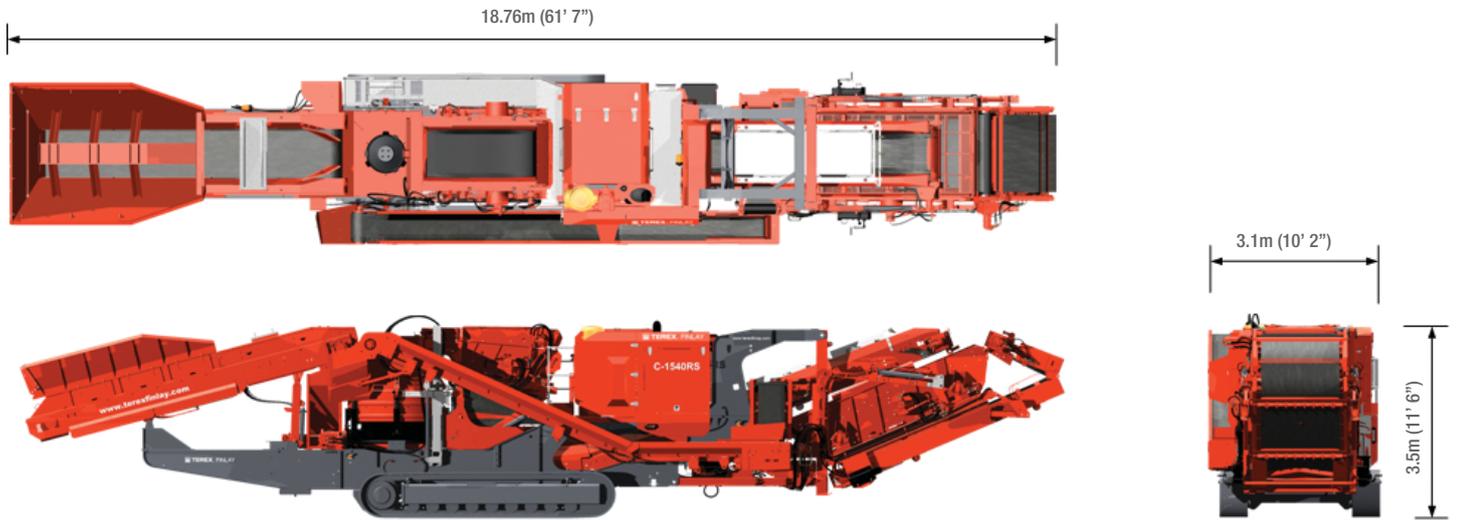
38300 Kgs *
84,435 lbs

*Note: With optional pre-screen

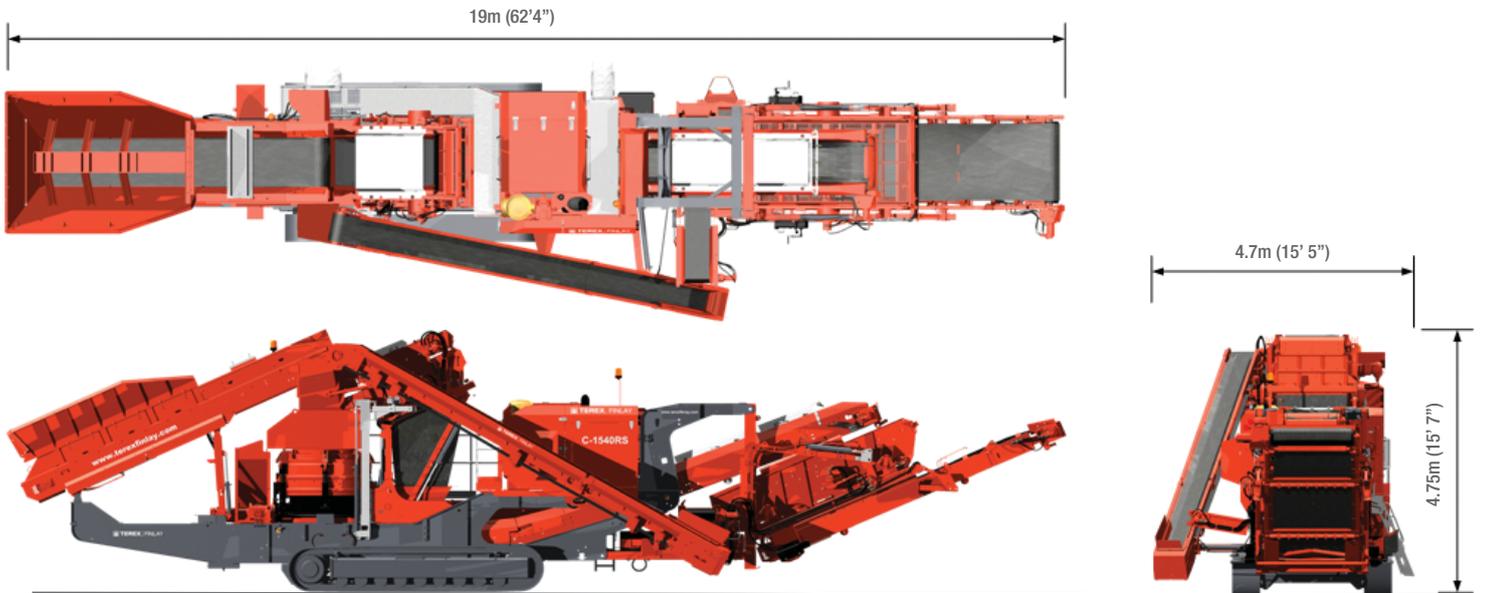
C-1540RS Cone Crusher

With sizing screen and recirculation facility

Transport Position



Working Position



Working Height



4.75m (15' 7")

Working Length



19m (62' 4")

Working Width



4.7m (15' 5")

Transport Height



3.5m (11' 6")

Transport Length



18.76m (61' 7")

Transport Width



3.1m (10' 2")

Weight



45 600 Kgs*
100 528 lbs

*Note: With optional pre-screen



Drumquin Road,
Omagh Co. Tyrone N.Ireland BT78 5PN
Tel: + 44 (0) 28 82 418 700
Fax: + 44 (0) 28 82 244 294
E-mail: sales@terexfinlay.com
Web: www.terexfinlay.com

Terex USA, LLC
909 17th Street NE
Cedar Rapids, IA 52402 USA
Tel: +1 (800) 821-5600 or +1 (319) 363-3511
Fax: +1 (319) 399-4871
E-mail: info@cedarapids.com
Web: www.terexfinlay.com

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