



C-1540RS | Cone Crusher

| | |
|---------------------|-----------------|
| Cone Head Diameter: | 1000mm (40") |
| Net Engine Power: | 261 kW (350 HP) |
| Portability: | Tracked |



Cone Crusher C-1540RS

Specifications

Cone Chamber

| |
|--|
| Terex 1000mm (40") cone chamber |
| Long throw fitted on standard configuration |
| Medium coarse concave fitted on standard configuration – max. feed size 160mm |
| Direct hydrostatic cone drive with advanced electronic speed control system |
| Speed sensor fitted to cone input drive shaft, observes and maintains crusher speed and protects the crusher unit from overloading. |
| Five cone head speed control settings for producing a quality aggregate |
| 'On the fly' hydraulically adjustable closed side setting with monitoring system |
| Mantle/concave wear indicator with closed side setting re-calibration |
| Hydraulic overload protection with automatic reset. This allows the upper frame to lift up, to permit the passage of tramp iron and other un-crushable material. The system then automatically returns the upper frame to its original position. |
| Unrestricted feed opening reduces blockages, bridging and maximizes output |
| Independent cone oil lubrication tank with separate oil cooler |
| Level sensor fitted over inlet feed box maintains the optimum choke feed condition hence maximizing the reduction and manganese life |
| Dust suppression fitted at cone inlet and outlet |

Hopper and Feeder

| | |
|--|---|
| Crash bar fitted to reduce impact load on feed conveyor | |
| Rubber covered impact rollers fitted | |
| Wear resistant liner plates (10mm) fitted to feed-in end of hopper | |
| Drop down rear door for auxiliary crusher feed | |
| Hydraulic retraction system for ease of movement between transport and working modes | |
| Full length skirting to head drum | |
| Low level greasing to all bearings | |
| Heavy duty, high torque hydraulically driven feed belt | |
| Large diameter, rubber lagged drive drum to prevent belt slippage | |
| Automatic variable speed conveyor ensures maximum output from plant | |
| Metal detection system with 'auto-stop' feature is suitable for detecting steel and manganese steel contained in the feed material | |
| Controllable discharge system to purge metal contaminants. This feature allows the operator to clear metal from the feed conveyor when it is detected. The contaminated material is dumped to the side of the machine. This can be done on the main control panel or remotely via the optional radio remote. | |
| Hopper: Length | 3.4m (11'2") |
| Width | 2.45m (8') |
| Capacity | 5m ³ (6.5yd ³) |
| Feed Conveyor Belt: Length | 5.4m (17'9") |
| Width | 1.05m (3'6") |
| Type | EP500/3ply (5mm top, 1.5mm bottom covers) |
| Speed | 0 – 30 m/min (0 – 98 ft/min) |
| Incline | 21° (Direct feed) |
| | 24° (Pre-screen feed) |



Specifications

Main Conveyor

| |
|--|
| Fixed speed hydraulically driven |
| Impact bars fitted directly under cone discharge point |
| Polyurethane scraper at head drum |
| Full length skirting to head drum |
| Discharge height of 3.3m (10'10") |
| Speed wheel fitted to monitor conveyor speed |
| Low level greasing to all bearings |
| Dust suppression fitted at head drum |
| Main Conveyor Belt: Width 0.9m (3') |
| Type EP500/3ply (5mm top, 1.5mm bottom covers) |
| Speed 100 – 110 m/min (328 – 361 ft/min) |
| Incline 20° |

Powerunits and Hydraulics

| |
|--|
| Caterpillar C13 Acert 261kW (440HP) at 1900rpm. Tier III emissions compliant |
| Closed loop Linde hydrostatic transmission for crusher drive |
| Two fixed displacement gear pumps provide power to drive all conveyors, tracks, screen and hydraulic cylinders. They also provide power to the crusher lubricating oil pump and supplies the crusher hydraulic setting and adjustment system |
| Full catwalk access on both sides |
| Removable access panels for engine maintenance |
| Hydraulic tank suction filters easily accessible from the top without draining tank |
| Two hydraulic oil coolers fitted as standard |
| Fuel tank volume 600 litres (158 US gal) |
| Hydraulic tank volume 720 litres (190 US gal) |

Chutes

| |
|---|
| Cone chamber feed box fabricated in 6mm mild steel plate |
| Cone chamber discharge chute fabricated in 5mm mild steel plate with 15mm abrasion resistant plate fitted at impact point |
| Contamination chute fabricated in 6mm mild steel plate |
| Re-circulating conveyor discharge chute fabricated in 5mm mild steel with 6mm abrasion resistant plate fitted at impact point |

Undercarriage

| |
|---------------------------------|
| 3780mm (12'5") Sprocket centres |
| 500mm (20") shoe width |
| 2 speed selectable track speed |
| Gradability 25° |
| Hydraulic grease tensioning |
| Bolt on tracks |
| High speed: 0.42m/s (1.0mph) |
| Low speed: 0.21m/s (0.5f/s) |

Remote Control Unit (Option)

| |
|---|
| Operates both machine movement and operation |
| Machine can be switched from operating mode into track mode, moved, and switched back to operating mode from the remote control unit. |

Platforms

Maintenance / access platforms are provided for all key areas around the cone chamber, pre-screen module and engine compartment. The catwalks are accessible from both sides of the machine. They are made from steel flooring with steel toe boards, double row hand rails, self closing gates and access ladders. All catwalks are galvanised.

Control System

| |
|--|
| Advanced CANBUS compliant system |
| Large colour display screen |
| Main menu consists of eight modes:- |
| Manual mode: For manually starting machine |
| Automatic mode: For automatically starting the machine in a set sequence |
| Track mode: For moving machine |
| Feeder mode: For positioning the feed conveyor |
| Cone setup mode: For testing / setting of cone |
| Language mode: For setting languages |
| Engine mode: For monitoring engine performance and faults |
| Configuration mode: For testing / setting individual components |
| User friendly incremental selection of feeder and crusher speed, enable the operator to achieve the optimal throughput and product shape |
| The main control panel is mounted to the side of the machine in a lockable compartment |
| Detachable dog-lead control for tracking |

Pre-screen Module (Option)

| |
|---|
| Consisting of transfer conveyor, screen, mounting frame, dust cover and chute |
| Material passes through screen mesh via a chute onto main conveyor |
| By-pass facility – Pre-screen can be by-passed to feed directly into cone if required |
| Complete entity folds hydraulically for transport |
| The pre-screen module will maximise production through the cone by removing as much fine material as possible before it enters the cone chamber. This will also reduce wear within the cone chamber |

A) Transfer Conveyor

| |
|---|
| Fixed speed hydraulically driven |
| Two centralised grease points for bearings |
| Full length skirting to head drum |
| Dust cover fitted as standard |
| Can be raised hydraulically to aid screen mesh changing |
| Belt: Length 1.9m (6'3") |
| Width 1.0m (3'4") |
| Type EP400/3ply (3mm top, 1.5mm bottom covers) |
| Incline 23° |

B) Screen

| |
|--|
| Two bearing single deck screen |
| Large Amplitude with high g-force |
| Hydraulic drive fixed speed |
| Side tensioned Quick wedge mesh tensioning |
| Screen: Length 1.83m (6') |
| Width 1.22m (4') |
| Incline 25° |

Tool Box

| |
|--|
| Mounted lockable toolbox |
| Tool kit supplied |
| Two grease guns supplied – one for machine, one for cone |

Dust Suppression

| |
|--|
| Three spray bars with nozzles are mounted as standard: |
| Cone feed |
| Cone discharge |
| Main conveyor discharge |
| All spray bars are piped to a common manifold at side of machine. Pressurized clean water can be connected to manifold if required |
| Water pump can be fitted (option) |



Standard

Engine Caterpillar C13 Acert 328 kW (440hp) water cooled engine

Hopper

- 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

Cone

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

Re-Circulating System

- 3.66m x 1.52m (12' x 5') two deck screen
- Top deck mesh fitted to screen - Aperture to be confirmed
- Oversize transfer conveyor, re-circulating conveyor and fines conveyor fitted as standard
- Quick detach screen and fines conveyor

Main Belt

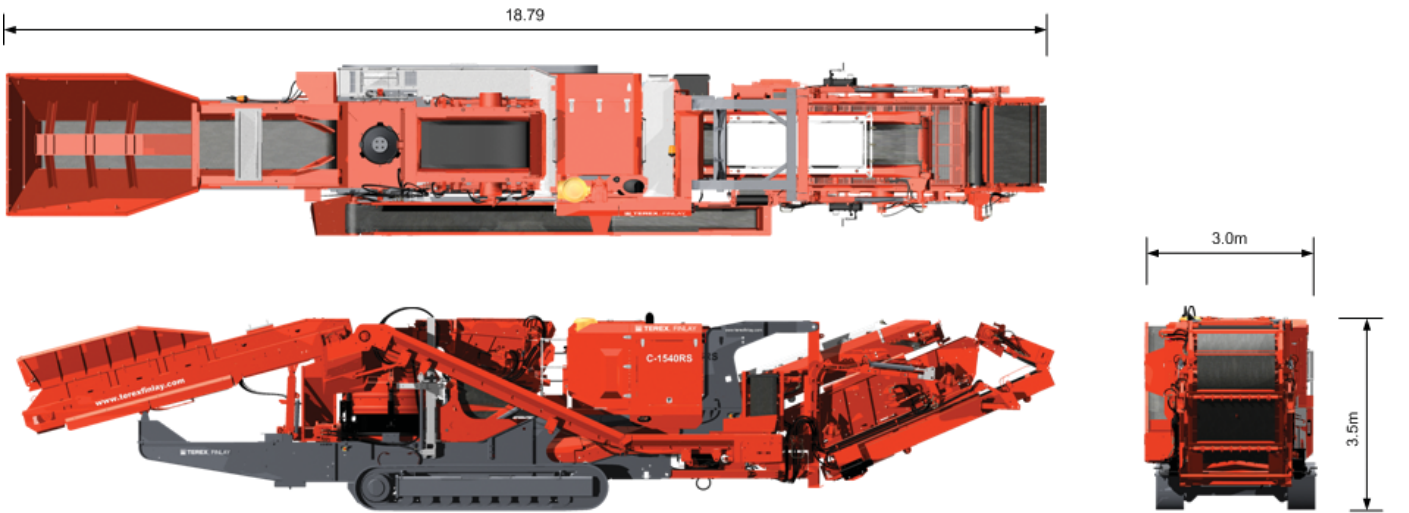
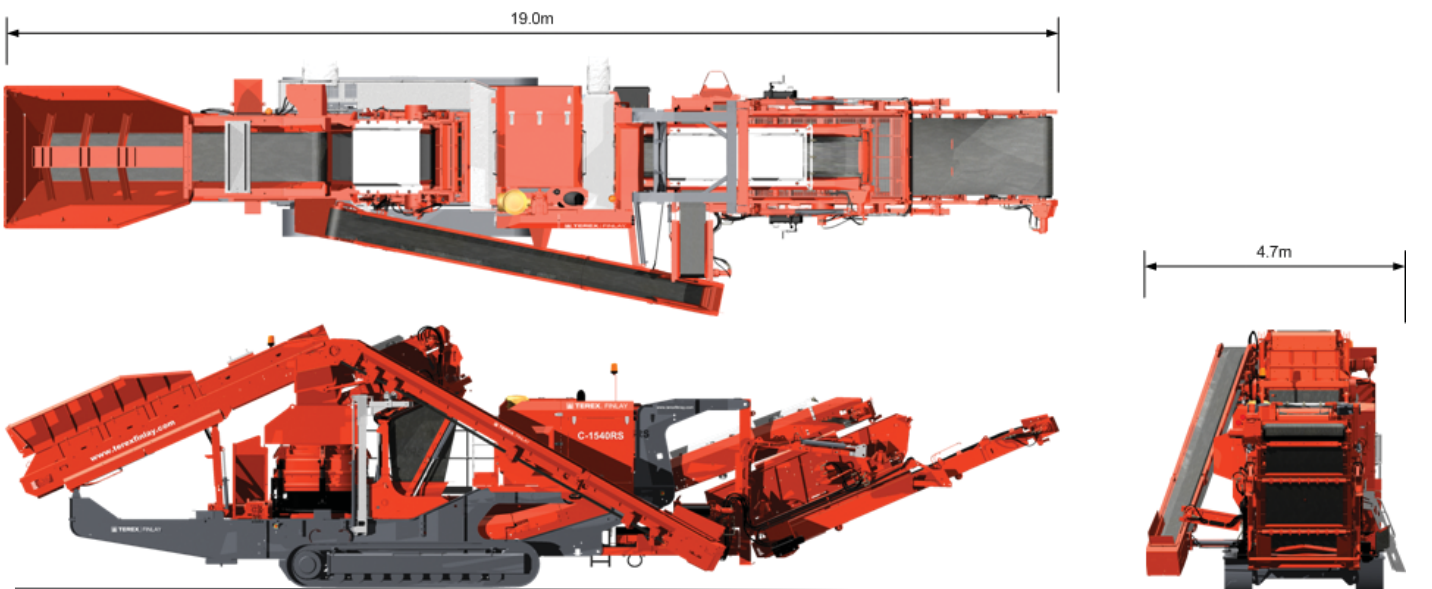
- 900mm (36") product conveyor belt
- High spec scraper at head drum
- Wear resistant liners at crusher discharge point

General

- Galvanised catwalk c/w handrail, kick board and access ladders
- Heavy duty track unit, length 3.8m, pad width 500mm
- Hand held track control set with 5m 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)

Optional

- Pre-screen system - 1.83m x 1.22m (6' x 4') single deck screen with 1000mm (40") feed conveyor system (folds for transport) c/w dust cover. Requires 1 nr auxilliary drive **
- Hydraulically driven water pump for dust suppression. Requires 1 nr auxilliary drive **
- Main conveyor dust cover
- Electric pump refuelling kit
- Special paint colour (if different from Finlay Orange RAL 2002) . RAL must be specified on order
- Wear resistant liners for feed hopper (6mm)
- Manual extensions for feed hopper (total capacity 8m 3/10.4yd3)
- Radio remote system: Operational controls of machine (autostart/stop) & track movement
- Belt weigher for main conveyor
- 1 nr stockpiler drive. Requires 1 nr auxilliary drive **
- Lighting mast for catwalk
- Hot climate lubrication kit
- Hot climate cooler pack. Requires 1 nr auxilliary drive **
- Cold climate lubrication kit
- Extra coarse concave - max feed size 195mm (check leadtime)
- Coarse concave - max feed size 175mm (check leadtime)
- Sand concave - max feed size 63mm (check leadtime)
- Short throw eccentric (check leadtime)
- Bottom deck meshes and tensioner brackets (For re-circulating system)
- Middle grade transfer conveyor and chute (For re-circulating system)
- Middle grade stockpiling conveyor - Separate transport load (For re-circulating system)

Transport Position

Working Position


Effective 01: 01, 2008. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Products and services listed may be trademarks, service marks or trade-names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights are reserved. Terex® is a registered trademark of Terex Corporation in the USA and many other countries.

Copyright 2008 Terex Corporation.