C-1550P CONE CRUSHER

SPECIFICATION:

Cone Head Diameter: 1300mm (52")
Net Engine Power:  
-tier 3 / stage IIIA: Caterpillar C15 Acert 390kW (522hp)
-tier 4F / stage IV: Scania DC13 368kW (500hp)
Stage V: Scania DC13 368kW (500hp)
Portability: Tracked
Operating Weight: 64,820kg (142,903lbs)*

*Without Options
## SPECIFICATION

### HOPPER / FEEDER

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hopper capacity</td>
<td>8m³ (10.4yd³)</td>
</tr>
<tr>
<td>Feed height</td>
<td>3.6m (11' 10&quot;) (Pre-screen position), 3.3m (10’ 10&quot;) (Direct feed position)</td>
</tr>
<tr>
<td>Feed height with optional hopper extensions</td>
<td>4.0m (13’ 1&quot;) (Pre-screen position), 3.7m (12’ 2&quot;) (Direct feed position)</td>
</tr>
<tr>
<td>Hopper fabricated in 10mm mild steel plate with combination of 15mm, 10mm and 6mm wear resistant steel liners at impact point</td>
<td></td>
</tr>
<tr>
<td>Hopper Width at rear</td>
<td>2.5m (8’ 2&quot;)</td>
</tr>
<tr>
<td>Hopper Width at rear with optional hopper extensions</td>
<td>4.16m (13’ 8&quot;)</td>
</tr>
<tr>
<td>Belt Spec</td>
<td>Plain</td>
</tr>
<tr>
<td>Belt Width</td>
<td>1.2m (48&quot;)</td>
</tr>
<tr>
<td>Speed range</td>
<td>variable, 0 - 43 m/min (0 - 141 ft/min)</td>
</tr>
<tr>
<td>Working Angle</td>
<td>24° (Pre-screen feed), 22° (Direct feed)</td>
</tr>
<tr>
<td>Drive</td>
<td>Hydraulic variable speed drive via gearbox</td>
</tr>
<tr>
<td>Drop down rear door for auxiliary crusher feed</td>
<td></td>
</tr>
<tr>
<td>Crash bar fitted to reduce impact load on feed conveyor</td>
<td></td>
</tr>
<tr>
<td>Rubber covered impact rollers fitted</td>
<td></td>
</tr>
<tr>
<td>Hydraulic retraction system for ease of movement between transport and working modes</td>
<td></td>
</tr>
<tr>
<td>Full length skirting to head drum</td>
<td></td>
</tr>
<tr>
<td>Automatic variable speed conveyor ensures maximum output from plant</td>
<td></td>
</tr>
<tr>
<td>Metal detection system with ‘auto-stop’ feature is suitable for detecting steel and manganese steel contained in the feed material</td>
<td></td>
</tr>
<tr>
<td>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</td>
<td></td>
</tr>
</tbody>
</table>

### CONE CHAMBER

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terex 1300mm (52&quot;) cone chamber</td>
<td></td>
</tr>
<tr>
<td>Cone Counter Shaft Speed Range</td>
<td>690 - 760 rpm</td>
</tr>
<tr>
<td>Variable speed control settings for producing a quality aggregate</td>
<td></td>
</tr>
<tr>
<td>Drive arrangement</td>
<td>Direct drive via clutch, drive shaft and v-belts</td>
</tr>
<tr>
<td>‘On the fly’ hydraulically adjustable closed side setting with monitoring system</td>
<td></td>
</tr>
<tr>
<td>Mantle/concave wear indicator</td>
<td></td>
</tr>
<tr>
<td>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</td>
<td></td>
</tr>
<tr>
<td>Unrestricted feed opening reduces blockages, bridging and maximizes output</td>
<td></td>
</tr>
</tbody>
</table>
CONE CHAMBER continued

- 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

<table>
<thead>
<tr>
<th>Concave</th>
<th>Maximum Feed Size</th>
<th>Maximum CSS</th>
<th>Minimum Recommended CSS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium coarse</td>
<td>220mm (8 1/2&quot;)</td>
<td>44mm (1 3/4&quot;)</td>
<td>24mm (15/16&quot;)</td>
</tr>
<tr>
<td>Sand</td>
<td>63mm (2 1/2&quot;)</td>
<td>30mm (1 3/16&quot;)</td>
<td>13mm (1/2&quot;)</td>
</tr>
</tbody>
</table>

*Note: Minimum Recommended CSS subject to feed conditions

MAIN CONVEYOR

- Belt Width: 1.2m (48")
- Belt Spec: Plain
- Working Angle: 26°
- Speed: 115 – 130 m/min (377 – 426 ft/min)
- Discharge Height: 3.8m (12’ 6")
- Impact bars and wear resistant liners at feed point
- High spec scraper at head drum
- Dust suppression: fitted with hose and spraybars as standard (no pump supplied)
- Full length skirting to head drum
- Dust covers
- Stockpile capacity: 81.6m³ (106.7yd³) @ 40°

POWERPACK

- Tier 3 / Stage IIIA: Caterpillar C15 ACERT
  - Engine Power: 390kW (522hp)
  - Engine Speed: 1475 - 1625 rpm
- Tier 4F / Stage IV: Scania DC13
  - Engine Power: 368kW (500hp)
  - Engine Speed: 1475 - 1625 rpm
- Stage V: Scania DC13
  - Engine Power: 368kW (500hp)
  - Engine Speed: 1475 - 1625 rpm

TANK CAPACITIES

- Hydraulic Tank: 850 litres / 187 UK gal / 225 US gal
- Fuel Tank: 1100 litres / 242 UK gal / 290 US gal
- Urea Tank: 60 litres / 13 UK gal / 15 US gal
PRE-SCREEN MODULE

A) Screen
Top deck: 2.45m x 1.53m (8’ x 5’)
Total screening area: 3.72m² (40ft²)
Tensioning top deck: side
Drive: hydraulic with heavy duty bearing
Screen Angle: 23°
Screen Speed: 1200 rpm
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.
Pre-screen can be by-passed and material feed directly into cone if required
Hydraulically folds for transport

B) Transfer Conveyor
Belt Width: 1.2m (48”)
Belt Spec: Plain
Working Angle: 21°
Speed: 85 – 95 m/min (278 – 311 ft/min)
Hydraulically folds for transport along with pre-screen
Can be raised hydraulically to aid screen mesh changing
Dust cover
Full length skirting to head drum

PRE-SCREEN SIDE CONVEYOR (OPTIONAL)

Belt Width: 650mm (26”)
Belt Spec: Plain
Working Angle: 18°
Speed: Variable speed, 0 - 115 m/min (0 - 377 ft/min)
Hydraulically folds for transport
Discharge Height: 2.8m (9’ 2”)
Stockpile capacity: 32.6m³ (42.6yds³) @ 40°

UNDERCARRIAGE

Shoe Width: 500mm (20”)
Sprocket Centres: 4.2m (13’ 8”)
Tracking Speed: 1.1 km/h
Gradeability: 25°
**TOOL BOX**
- Mounted lockable toolbox
- Tool kit supplied
- Two grease guns supplied – one for machine, one for cone

**CHUTES**
- Cone chamber feed box fabricated in 6mm mild steel plate
- Cone chamber discharge chute fabricated in 10mm mild steel plate with 15mm wear resistant steel liners at impact point
- Contamination chute fabricated in 6mm mild steel plate

**CONTROL SYSTEM**
- Advanced CANBUS compliant system
- Large colour display screen
- Main menu consists of five modes:
  - Automatic mode: For automatically starting the machine in a set sequence
  - Track mode: For moving machine
  - Setup mode: For folding / setting up machine
  - Cone setup mode: For testing / setting of cone
  - Configuration mode: For testing / setting individual components / monitoring engine performance and faults / monitoring machine faults

User friendly incremental selection of feeder and engine 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 umbilical control for tracking

**PLATFORMS**
- Galvanised catwalks and ladders for full maintenance and service access
- Catwalks on both sides of the machine
- Compact folding for transport

**REMOTE CONTROL UNIT (OPTIONAL)**
- Full function radio remote unit:
  - Auto start / stop
  - Feed conveyor start / stop
  - Metal purge sequence
  - Tracking
STANDARD FEATURES

ENGINE:
Tier 3 / Stage IIIA: Caterpillar C15 ACERT 390kW (522hp)
Tier 4 Final / Stage IV: Scania DC13 368kW (500hp)

CONE CHAMBER:
Terex TC1300
Medium coarse concave (max feed size 220mm)
Direct drive via clutch

HOPPER / FEEDER:
Fixed hopper c/w wear resistant liner plates
Belt width: 1200mm (48”)
Metal detector & Metal contaminants purge system

MAIN CONVEYOR:
Belt width: 1.2m (48”)
Dust covers

PRE-SCREEN:
2.45m x 1.52m (8’ x 5’) single deck screen. 25mm aperture mesh fitted, unless specified otherwise. Max feed size 200mm

CLIMATE SPEC:
Standard oils (Recommended for ambient temperatures between -5 to +30°C)

DUST SUPPRESSION:
Piped for dust suppression c/w spraybars

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 to machinery directive
One auxiliary drive

OPTIONAL EQUIPMENT

Stage V: Scania DC13 368kW (500hp)
Sand concave - max feed size 63mm (check leadtime)¹
Camera & Viewing screen
Hydraulic hopper extensions
Belt weigher
Stockpile level sensor
Side 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)
Hot climate cooler pack c/w hot climate lubrication kit (Recommended for ambient temperatures > +35°C)
Hydraulic driven water pump
Electric Re-fuelling pump
Radio remote system
Control panel positive air pressurization
Lighting mast
**Pre-screen system**
- Top deck: 2.45m X 1.53m (8’ X 5’)
- Tensioning top deck: side
- Drive: hydraulic with heavy duty bearing
- Screen Angle: 23°
- Screen Speed: 1200 rpm
- 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.

**Hopper / Feeder**
- Hopper capacity: 8m³ (10.4yd³)
- Feed height: 3.6m (11’ 10”) (Pre-screen position), 3.3m (10’ 10”) (Direct feed position)
- Hopper Width at rear: 2.5m (8’ 2”)  
- Hopper Width at rear with optional hopper extensions: 4.16m (13’ 8")
- Belt Spec: Plain
- Belt Width: 1.2m (48”)
- Speed range: variable, 0 - 43 m/min (0 - 141 ft/min)
- Working Angle: 24° (Pre-screen feed), 22° (Direct feed)

**Main Conveyor**
- Belt Width: 1.2m (48”)
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**Pre-screen side conveyor**
- Belt Width: 650mm (26”) 
- Belt Spec: Plain
- Working Angle: 18°
- Speed: Variable speed, 0 - 115 m/min (0 - 377 ft/min)
- Hydraulic folding system
- Stockpile capacity: 32.6m³ (42.6yd³) @ 40°

**Powerpack**
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  - Engine Speed: 1475 - 1625 rpm
- Stage V: Scania DC13
  - Engine Power: 368kW (500hp)
  - Engine Speed: 1475 - 1625 rpm

**Cone chamber**
- Terex 1300mm (52”) cone chamber
- Cone Speed Range: 690 - 760 rpm
- Maximum feed size 220mm (8 1/2”)
- Standard medium coarse concave configuration
- Drive arrangement: Direct drive via clutch, drive shaft and v-belts
- On the fly hydraulically adjustable closed side setting with monitoring system
- Mantle/concave wear indicator
- Maximum Closed Side Settings (CSS): 44mm (1 3/4”)
- Standard medium Coarse Configuration
- Minimum Closed Side Settings (CSS): 24mm (15/16”)
- Standard medium coarse configuration

**Undercarriage**
- Shoe Width: 500mm (20”)  
- Sprocket Centres: 4.2m (13’ 8") 
- Tracking speed: 1.1 km/h  
- Gradeability: 25°

**Platforms**
- Galvanised catwalks and ladders for full maintenance and service access
- Catwalks on both sides of the machine
- Compact folding for transport

**Metal purge system**
- Metal purge chute standard
TRANSPORT DIMENSIONS

![Transport Dimensions Diagram](image)

WORKING DIMENSIONS

![Working Dimensions Diagram](image)

MACHINE WEIGHT:

- **64,820kg** (142,903lbs) without options
- **66,320kg** (146,210lbs) with optional pre-screen side conveyor
- **67,120kg** (147,974lbs) with optional pre-screen side conveyor, hopper extensions, hot climate cooler pack, & hydraulically driven water pump

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