

# J-1280 HYBRID JAW CRUSHER



**HYBRID**  
TECHNOLOGY



DIESEL



PERFORMANCE



ELECTRIC

# J-1280 HYBRID

The Terex Finlay J-1280 hybrid jaw crusher offers operators the flexibility to power the plant either by an onboard genset powerpack configuration or connected to an external power source. Both power options provide operators with significant power, servicing and maintenance cost savings in direct comparison to a diesel/hydraulic powered plant. The machine is fitted with a high powered alternator that generates sufficient energy that can be used to power downstream screening plants or stockpile conveyors further improving overall fuel consumption and efficiencies of production trains.

The machine incorporates a Terex® 1200 x 820mm (47" x 32") high performance electrically driven single toggle jaw chamber. The integrated pan and heavy duty VGF feeder features automatic power monitoring to regulate and control material flow to the jaw chamber to prevent overflow and give optimum production in quarrying, mining, demolition and recycling applications. Additional benefits include, rapid set up time, ease of maintenance, high reduction ratio, high output capacity and advanced electronic control system.

The machine is also available with an optional independent pre-screen that incorporates a longer pan feeder and hopper side walls.

## STANDARD FEATURES

### ENGINE:

Tier 2 Equivalent: Scania DC13 331kW (450hp)

Tier 4 Final: Scania DC13 331kW (450hp)

Stage V: Scania DC13 331kW (450hp)

### ALTERNATOR:

403 kVa Generator

"STD voltage supply: 380V - 500v @ 50Hz or 60hz (Contact the factory if any local requirements are different from standard offering)

### JAW CHAMBER:

Terex 1200 x 820mm (47" x 32") single toggle jaw crusher c/w full hydraulic closed side setting adjustment

Electric drive

Reversible operation for clearing blockages

S tooth liners - 18% Manganese as Standard

Bypass chute with 5 settings

### HOPPER / FEEDER:

Hydraulically folding hopper sides and locking system

Integrated pan and vibrating grizzly feeder - cassette is 75mm spacing as standard

Mesh aperture on grizzly feeder: 40mm

Bypass chute with 5 position deflector plate

### MAIN CONVEYOR:

Belt width: 1200mm (47") wide main belt, rigid non folding, 4m discharge height

### CLIMATE SPEC:

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

### DUST SUPPRESSION:

Piped for Dust Suppression complete with Spray bars

### ELECTRICAL:

Emergency stops

Control panel positive air pressurisation

Hand held track control set with connection lead

T-Link Telemetry System fitted c/w 7 years data subscription

### GENERAL:

Safety guards in compliance with machinery directive

Left hand side crusher platform

### By-pass Conveyor (optional)

- ▶ Belt Width: 750mm (2' 5")
- ▶ Belt Spec: Plain
- ▶ Working Angle: 25° max
- ▶ Speed: 100 m/min nominal
- ▶ Hydraulically folds for transport
- ▶ Discharge Height: 3.79m (12' 5")
- ▶ Stockpile capacity: 89m<sup>3</sup> (117yds<sup>3</sup>) @ 40°

### Magnetic Separator (optional)

- ▶ Belt Width: 750mm (30")
- ▶ Belt Spec: Cleated
- ▶ Belt Speed: Variable
- ▶ Drive: Electric motor & planetary gearbox drive
- ▶ Right hand side discharge standard

### Main conveyor

- ▶ Belt Width: 1.2m (3' 11")
- ▶ Belt Spec: Plain
- ▶ Working Angle: 21°
- ▶ Discharge Height: 4m (13' 1")
- ▶ Hydraulic raise & lower facility to aid rebar removal & transportation
- ▶ 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)
- ▶ Standard Stockpile capacity: 136m<sup>3</sup> (178yds<sup>3</sup>) @ 40°

## Features:

- ▶ The plant's electrically driven power systems provide significant cost advantages and environmental efficiencies.
- ▶ Superior performance in dusty applications and in high altitude environments.
- ▶ Automatic variable speed VGF ensures continuous choke feeding of the crushing chamber for optimal productivity.
- ▶ High powered electric drive ensures precise chamber controls and reverse functionality for clearing blockages and assisting in construction demolition, asphalt and recycling applications.
- ▶ T-Link telematics hardware and software along with free seven year data subscription are fitted and installed as standard.



## Jaw Chamber

- ▶ Terex chamber single toggle jaw crusher
- ▶ Inlet width: 1200mm (47")
- ▶ Inlet gape: 820mm (32")
- ▶ Maximum Closed Side Settings (CSS): 200mm (8")
- ▶ Minimum Closed Side Settings (CSS): 75mm (3")
- ▶ Reverse action for clearing blockages
- ▶ Full hydraulic closed side setting adjust
- ▶ Standard Liner Profile: S-Tooth (18% Manganese)

## Hopper and Feeder

- ▶ Hopper capacity: 9.3m<sup>3</sup> (12.2yds<sup>3</sup>)
- ▶ Feed height: 4.49m (14' 9")
- ▶ Hopper length: 4.82m (15' 10")
- ▶ Hopper width: 2.2m (7' 3") standard  
4m (13' 1") with extensions
- ▶ Hopper type: Hydraulic locking from ground level
- ▶ Hopper body: Abrasion resistant feed hopper with hydraulic struts and pins
- ▶ Material: 15mm wear resistant steel
- ▶ Locking mechanism: hydraulic
- ▶ Integrated pan and vibrating grizzly feeder standard
- ▶ Grizzly aperture: 75mm (Option 100mm)
- ▶ Grizzly wire mesh aperture: 38mm (Other options available upon request)
- ▶ Feeder speed range: variable, 450-900 rpm

## Platforms

- ▶ Galvanised catwalks and ladders for full maintenance and service access
- ▶ Catwalk access access to LHS standard RHS platform optional
- ▶ Compact folding for transport

## Undercarriage

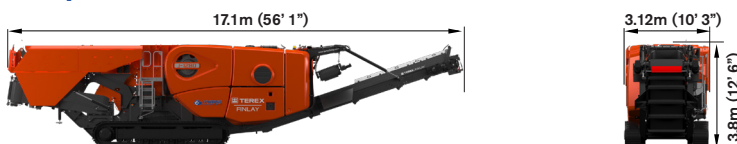
- ▶ Shoe Width: 500mm (20")
- ▶ Sprocket Centres: 4.17m (13' 8")
- ▶ Speed: 0.8 km/h (0.5mph) (maximum speed)
- ▶ Gradeability: 30° maximum

## Powerpack

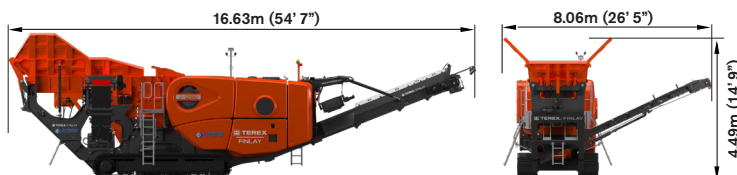
- ▶ Tier 2 / Stage II: Scania DC13  
Engine Power: 331kW (450hp)  
Engine Speed: 1500 rpm
- ▶ Tier 4FStage IV: Scania DC13  
Engine Power: 331kW (450hp)  
Engine Speed: 1500 rpm
- ▶ Stage V: Scania DC13  
Engine Power: 331kW (450hp)  
Engine Speed: 1500 rpm



## Transport Dimensions



## Working Dimensions



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Machine Weight: 75,060kg (165,480lbs)\*  
\* By-pass with VGF. Pre-screen option and extended folding conveyor option





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