

J-1170

J-1170 HYDROSTATIC JAW CRUSHER

SPECIFICATION:

Inlet Opening:		1100mm x 700mm (44" x 28")
Net Engine Power	Tier 3/Stage IIIA:	Caterpillar C9 261kW (350hp)
	Stage IIIA Constant Speed:	Scania DC09 273kW (365hp)
	Tier 4F /Stage IV:	Scania DC09 257kW (345hp)
	Stage V:	Scania DC09 257kW (345hp)
Portability:		Tracked
Operating Weight:		48,900kg (107,806lbs)

*(with HA chamber, VGF, single pole magnet, by-pass conveyor, and standard main conveyor)
Other options available*



SPECIFICATION

HOPPER / FEEDER

Hopper capacity: 9m³ (11.7yd³)

Feed height: 4.01m (13' 2") VGF Machine

Feed height: 4.28m (14') Prescreen Machine

Material: 10mm wear resistant steel

Feed width at rear: 2.4m (7' 10")

Locking mechanism: hydraulic

Vibrating Grizzly feeder (VGF): 1.05m wide x 4.25m long

VGF grizzly aperture: 75mm (Options 50mm/100mm/125mm)

VGF wire mesh aperture: 38mm (Other options available upon request)

VGF Speed range: variable, 500-850 rpm

Pan Feeder Speed range: variable, 500-850 rpm

Hopper extensions (Optional): 11m³ (14.4yd³)

Prescreen dims: 1.04m wide x 2.09m long

JAW CHAMBER

Terex 1100mm X 700mm chamber single toggle jaw crusher

Inlet width: 1100mm (44")

Inlet gape: 700mm (28")

Under jaw clearance: 520mm (20.5")

Drive arrangement: Hydrostatic

Maximum Closed Side Settings (CSS): 150mm (6")

Minimum Closed Side Settings (CSS): 50mm (2") - application dependent. 75mm (3") Quarry application

Reverse action for clearing blockages

Hydraulic deflector plate - optional

Hydraulic assist closed side setting standard

Hydraulic release optional. Increased weight (+500kgs/1102lbs)

Standard Liner Profile: S-Tooth (18% Manganese)

MAIN CONVEYOR

Belt Width: 1000mm (40")

Belt Spec: Plain

Working Angle: 23°

Speed: 100 m/min nominal

Discharge Height: 3.1m (10' 2") with standard conveyor

Optional extended conveyor discharge height: 3.92m (12' 10"), incorporates folding head section for transport

Hydraulic raise/lower of head section for service access

Impact bars and wear resistant liners at feed point

Fully tunnelled lower section

High spec scraper at head drum

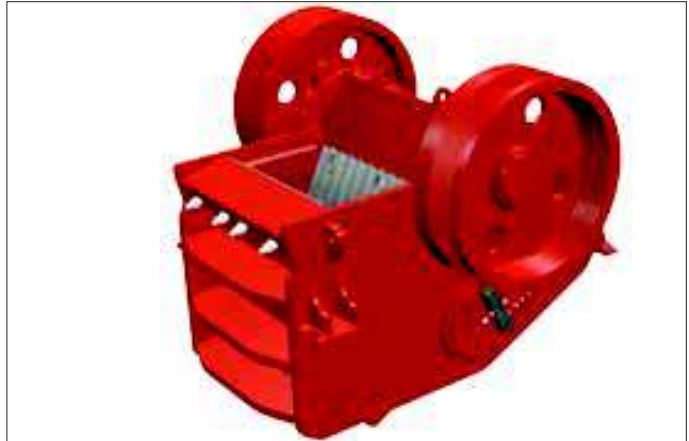
Dust suppression: fitted with hose and spraybars as standard (no pump supplied)

Standard Stockpile capacity: 44.3m³ (58yds³) @ 40°

Optional Extended Stockpile capacity: 88.7m³ (116yds³) @ 40°



Hopper



Jaw Chamber



Main Conveyor



Main Conveyor

POWERPACK

Tier 3/Stage IIIA: Caterpillar C9
Engine Power: 261kW (350hp)
Engine Speed: 1700 rpm

Stage IIIA Constant Speed: Scania DC09
Engine Power: 273kW (365hp)
Engine Speed: 1800 rpm

Tier 4F /Stage IV: Scania DC09
Engine Power: 257kW (345hp)
Engine Speed: 1700 rpm

Stage V: Scania DC09
Engine Power: 257kW (345hp)
Engine Speed: 1700 rpm

TANK CAPACITIES

Hydraulic Tank: 530 litres / 116 UK gal / 140 US gal

Fuel Tank: 590 litres / 129 UK gal / 156 US gal

Urea Tank: 60 litres / 13.2UK gal / 16 US gal

BY-PASS CONVEYOR (OPTIONAL)

Belt Width: 650mm (26")

Belt Spec: Plain

Working Angle: 22°

Speed: 75 m/min nominal

Hydraulically folds for transport

Discharge Height: 2.9m (9' 6")

Stockpile capacity: 36.3m³ (47.5yds³) @ 40°

MAGNET SEPERATOR (OPTIONAL)

Belt Width: 750mm (30")

Belt Spec: Cleated

Belt Speed: Variable

Drive: Hydraulic

UNDERCARRIAGE

Shoe Width: 500mm (20")

Sprocket Centres: 3.78m (12' 5")

Two Speed Tracking with 'soft start'

Speed: 1.6 km/h (Maximum Speed)

Gradeability: 25°

TOOL BOX

Mounted lockable toolbox

Tool Kit and flogging spanners

Grease gun

Manuals

CHUTES

Heavy duty inlet chute with bolt-up construction and liner plates

By-pass chute with selectable discharge flop gate, to either by-pass conveyor or main conveyor



CAT Engine



Scania Engine



By-Pass Conveyor



Undercarriage

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CONTROL SYSTEM

Advanced CANBUS compliant system Large display screen(IP67 Rated)

Five simple operating modes with menu driven graphic user interface:

- Track mode: For moving machine
- Manual mode: For manually starting machine
- Automatic mode: For automatically starting the machine in predetermined sequence
- Configuration mode: For testing/setting individual components
- Language selection: For setting languages

Choice of preset parameters to suit crushing applications

- Hard Rock
- Soft Rock
- Demolition and Recycle

User friendly incremental selection of feeder and crusher speed enable the operator to achieve the optimal throughput

Detachable doglead control for tracking

Radio remote control (optional)

Integrated machine and engine control panel

Lockable compartment

Auto regulating feeder selectable for improved throughput control

Emergency stops: 7 off

PLATFORMS

Galvanised catwalks and ladders for full maintenance and service access

Catwalks on left hand side of the machine with access to both sides of the powerunit

Compact folding for transport

REMOTE CONTROL UNIT (OPTIONAL)

Full function radio remote unit

Machine can be switched from crushing mode into track mode, moved and switched back to operating mode from remote control unit

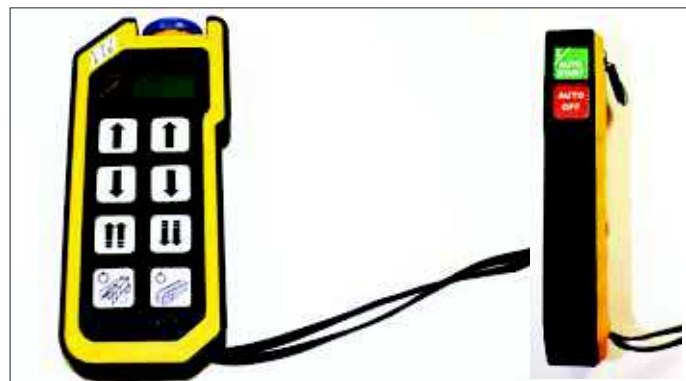
Feeder stop / start



Control Systems



Platforms



Remote Control Unit (Optional)

STANDARD FEATURES**ENGINE:**

Tier 3 / Stage IIIA : Caterpillar C9 Tier 3 ACERT. 261 kW (350hp)

Stage IIIA Constant Speed: Scania DC9 273kW (365hp)

JAW CHAMBER:

Terex 1100 x 700mm (44" x 28") Single toggle jaw crusher-

Hydraulic Adjust or Hydraulic Release

Hydrostatic drive

Reversible operation for clearing blockages

S' Tooth Liners - 18% Manganese as standard

HOPPER / FEEDER:

Hydraulically folding hopper sides

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

Mesh aperture on grizzly feeder: 38mm

MAIN CONVEYOR:

Belt width: 1000mm (40") fitted with impact bars at feed point

Hydraulic raise/lower of main conveyor

AUXILIARY CONVEYORS:

Piped for overband magnet

CLIMATE SPEC:

Standard Oils - Recommended for ambient temperatures between -5° to +30°C

DUST SUPPRESSION:

Piped for dust suppression complete with spraybars

ELECTRICAL:

Emergency stops

Handheld track control set with connection lead

T-Link Telemetry System fitted c/w 3 years data subscription

GENERAL:

Safety guards in compliance with machinery directive

Separate central operators panel

Two speed tracks

OPTIONAL EQUIPMENT

Tier 4F/ Stage IV: Scania DC9 257 kW (345hp)

Stage V: Scania DC09 257kW (345hp)

Hydraulic deflector plate under jaw crusher

Please contact the sales department for jaw liner options (depending on application)

Extended Hopper Flares

Optional spacing on grizzly for integrated pan and feeder: 50mm/100mm/125mm - please specify below

Main Conveyor with hydraulic folding head section - 3.9m discharge. (Not available along with After Screen System option)

Belt weigher

Dust cover on discharge conveyor

Rip stop belt option

Independent pre-screen * c/w bypass conveyor with 650mm wide plain belt, 75mm cassette spacing and 38mm mesh as standard - other cassette and mesh apertures available upon request (Requires 1 aux drive)

Bypass conveyor with 650mm wide plain belt

Singlepole overband magnet c/w stainless steel skirting & stainless steel discharge chute

Twinpole overband magnet (skirting & chute as above)

After Screen System:

2.44m X 1.52m (8'X5') single deck after screen

650mm wide belt hydraulic folding oversize conveyor

1400mm wide belt hydraulic folding fines conveyor

Rapid detach after screen system for flexibility

Longer tracks

Note: This option uses 2 Auxiliary Drives*

Hot climate lubrication kit (Recommended for ambient temperature between +15 and +50°C ambient)

Cold climate lubrication kit (Recommended for ambient temperature between -20 and +30°C ambient)

Hot climate cooler pack c/w hot climate lubrication kit (Recommended for ambient temperature > +35°C)

Water pump (Requires 1 aux drive) *

Radio remote System

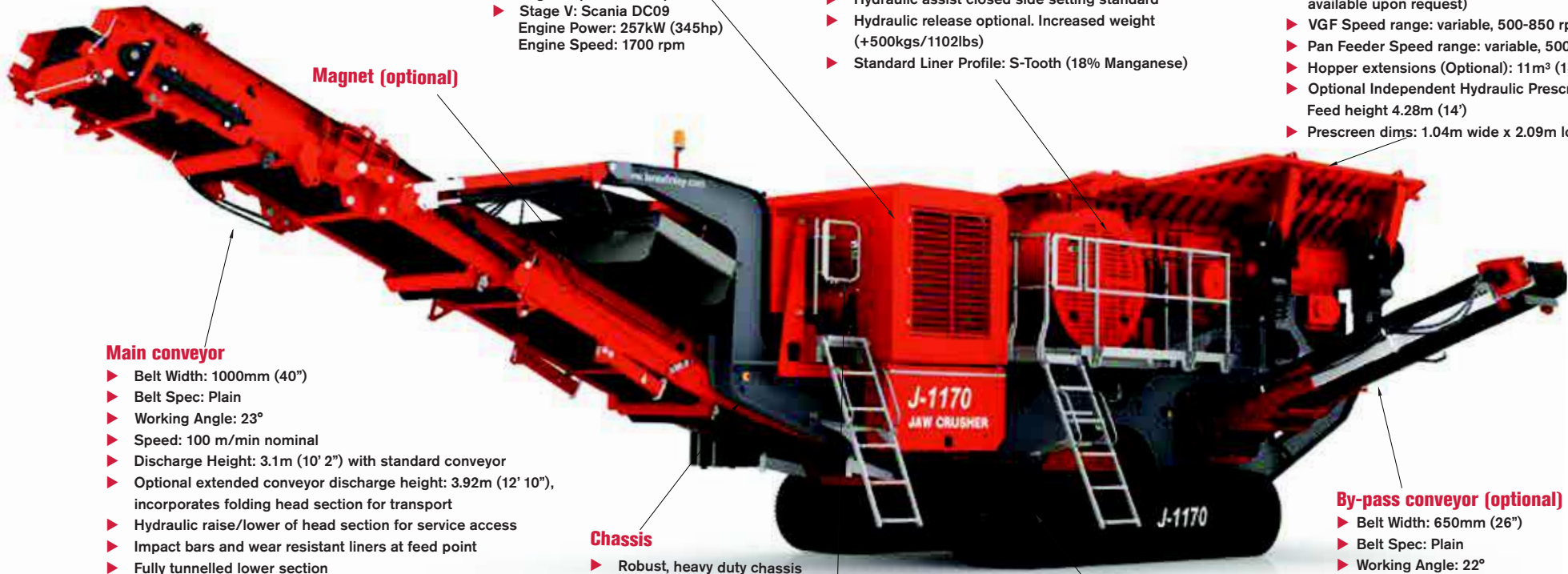
Control panel positive air pressurisation

Lighting mast

1 nr stockpiler drive (Requires 1 aux drive) *

Special paint colour (if different from Finlay Orange RAL 2002) . RAL must be specified on order

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Powerpack

- ▶ Tier 3/Stage IIIA: Caterpillar C9
Engine Power: 261kW (350hp)
Engine Speed: 1700 rpm
- ▶ Stage IIIA Constant Speed: Scania DC09
Engine Power: 273kW (365hp)
Engine Speed: 1800 rpm
- ▶ Tier 4F /Stage IV: Scania DC09
Engine Power: 257kW (345hp)
Engine Speed: 1700 rpm
- ▶ Stage V: Scania DC09
Engine Power: 257kW (345hp)
Engine Speed: 1700 rpm

Magnet (optional)

Main conveyor

- ▶ Belt Width: 1000mm (40")
- ▶ Belt Spec: Plain
- ▶ Working Angle: 23°
- ▶ Speed: 100 m/min nominal
- ▶ Discharge Height: 3.1m (10' 2") with standard conveyor
- ▶ Optional extended conveyor discharge height: 3.92m (12' 10"), incorporates folding head section for transport
- ▶ Hydraulic raise/lower of head section for service access
- ▶ Impact bars and wear resistant liners at feed point
- ▶ Fully tunnelled lower section
- ▶ High spec scraper at head drum
- ▶ Dust suppression: fitted with hose and spraybars as standard (no pump supplied)
- ▶ Standard Stockpile capacity: 44.3m³ (58yds³) @ 40°
- ▶ Optional Extended Stockpile capacity: 88.7m³ (116yds³) @ 40°

Chassis

- ▶ Robust, heavy duty chassis

Jaw chamber

- ▶ Terex 1100mm X 700mm chamber single toggle jaw crusher
- ▶ Inlet width: 1100mm (44")
- ▶ Inlet gape: 700mm (28")
- ▶ Under jaw clearance: 520mm (20.5")
- ▶ Drive arrangement: Hydrostatic
- ▶ Maximum Closed Side Settings (CSS): 150mm (6")
- ▶ Minimum Closed Side Settings (CSS): 50mm (2") - application dependent. 75mm (3") Quarry application
- ▶ Reverse action for clearing blockages
- ▶ Hydraulic deflector plate - optional
- ▶ Hydraulic assist closed side setting standard
- ▶ Hydraulic release optional. Increased weight (+500kgs/1102lbs)
- ▶ Standard Liner Profile: S-Tooth (18% Manganese)

Platforms

- ▶ Galvanised catwalks and ladders for full maintenance and service access
- ▶ Catwalks on left hand side of the machine with access to both sides of the powerunit
- ▶ Compact folding for transport

Undercarriage

- ▶ Shoe Width: 500mm (20")
- ▶ Sprocket Centres: 3.78m (12' 5")
- ▶ Two Speed Tracking with 'soft start'
- ▶ Speed: 1.6 km/h (Maximum Speed)
- ▶ Gradeability: 25°

Hopper / Feeder

- ▶ Hopper capacity: 9m³ (11.7yd³)
- ▶ Feed height: 4.01m (13' 2") VGF Machine
- ▶ Feed height: 4.28m (14') Prescreen Machine
- ▶ Material: 10mm wear resistant steel
- ▶ Feed width at rear: 2.4m (7' 10")
- ▶ Locking mechanism: hydraulic
- ▶ Vibrating Grizzly feeder (VGF): 1.05m wide x 4.25m long
- ▶ VGF grizzly aperture: 75mm (Options 50mm/100mm/125mm)
- ▶ VGF wire mesh aperture: 38mm (Other options available upon request)
- ▶ VGF Speed range: variable, 500-850 rpm
- ▶ Pan Feeder Speed range: variable, 500-850 rpm
- ▶ Hopper extensions (Optional): 11m³ (14.4yd³)
- ▶ Optional Independent Hydraulic Prescreen. Feed height 4.28m (14')
- ▶ Prescreen dims: 1.04m wide x 2.09m long

By-pass conveyor (optional)

- ▶ Belt Width: 650mm (26")
- ▶ Belt Spec: Plain
- ▶ Working Angle: 22°
- ▶ Speed: 75 m/min nominal
- ▶ Hydraulically folds for transport
- ▶ Discharge Height: 2.9m (9' 6")
- ▶ Stockpile capacity: 36.3m³ (47.5yds³) @ 40°

TRANSPORT DIMENSIONS



WORKING DIMENSIONS



Note: Machine illustrated includes options:

- Extended main conveyor
- Magnet
- Bypass Conveyor

MACHINE WEIGHT:

48,900kg (107,806lbs)

(with HA chamber, VGF, single pole magnet, by-pass conveyor and standard main conveyor)

49,100kg (108,247lbs)

(with HR chamber, VGF, single pole magnet, by-pass conveyor and standard main conveyor)

49,760kg (109,702lbs)

(with HA chamber, pre-screen, single pole magnet, by-pass conveyor and standard main conveyor)

49,960kg (110,143lbs)

(with HR chamber, pre-screen, single pole magnet, by-pass conveyor and standard main conveyor)

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

WORKS FOR YOU.

