

Sandvik QH331 cone crusher unit

in Action

Technical specification sheet



The QH331 mobile cone crusher is the successor to the QH330 and has been designed to meet the most exacting aggregate product quality demands through the use of the Sandvik CH430 cone crusher on a tracked chassis. Through this cone the QH331 is able to take advantage of the use of Sandvik developed CSC (cubical shape crushing) techniques, that produces material of excellent shape and high quality.

The CH430 cone is at the heart of the QH331; this world leading piece of crushing technology is equipped with a hydroset system which provides both safety and setting adjustment functions. The automatic setting regulation system not only optimizes production, it also keeps track of liner wear, thus making it easy to plan liner changes and minimize interruptions in production.

The QH331 represents the perfect marriage of advanced cone crusher technology and tracked mobility, and extends the range of features already available on the QH330 to include:

- Direct drive through 12" PT Tech wet clutch that is hydraulically operated with 8 SPC belts for enhanced operational capabilities.
- Greatly improved efficiency and power transfer resulting in tighter close side settings, and larger bush variations being achievable for precision crushing.
- The orientation of the engine now allows much greater access around the crusher in order to carry out maintenance work.
- For further ease of maintenance the diesel and smaller hydraulic tank are easily accessible from the front platform on the machine with inspection covers.
- Steel pipe work used extensively to give superior heat dissipation, and to provide a maintenance free sealing solution.

- For enhanced control and efficiency engine data outputs may be viewed via the colour PLC screen.
- Hydraulically driven cooling fan allows speed control producing increased efficiency, and auto reverse facility to periodically back flush any dust build up in the radiator.
- Hydroset facility now incorporated into the plant hydraulic system resulting in increased reliability and response time, whilst reducing the service requirements.
- Bridge Coil (up and over) metal detector fitted to the feed conveyor allowing improved stability and controlled detection.
- The new lubrication tank has internal coupling drives, gear wheel flow meter and internal lubrication heater, in addition to the Bowman heater for rapid cold start up times.
- Remote camera viewing the crushing chamber enables the operator to ensure a choke feed without the need to access the machine.

Possessing sturdy construction, its power management coupled with market leading CH430 cone crusher, makes the QH331 ideal for aggregate production wherever it is needed. With its compact size, and enhanced mobility, the QH331 is now powered by either a C9 Stage 3A/Tier3 or a C9.3 Stage 3B/Tier4i engine that complies with all current and proposed global emission standards.



Technical specifications

	QH331
Feed Hopper	
Nominal Capacity	5 m ³ / 6.5 yds ³
Rear Loading Height	3010mm / 9' 10½"
Rear Loading Width	2300mm / 7' 6½"
Feed Conveyor	
Hopper Thickness	10mm / ¾"
Hardox Hopper Liners	Option
Belt Width	1000mm / 39½"
Belt Length	11845mm / 38' 10"
Incline Angle	22°
Drive	Hyd
Gearbox	23:1
Torque	5000N/m
Head Drum Dia	324mm / 12¾"
Tail Drum Dia	324mm / 12¾"
Motor	125cc / 7.63 cu inch
Metal Detector Type	Bridge Coil
Crusher	
Type	Sandvik CH430
Speed	400 rpm
Feed Opening	190mm / 7½"
CSS Range	7.5 - 35mm / ¼" - 1½"
Std Chamber Kit	EC
Chamber Options	F-MF-M-MC-C-EC
Std Bush Settings	22,25,29mm / ⅞, 1, 1¼"
Drive	PT Tech 12" Wet Clutch with PTO
Drive Belts	8 SPC Belts
Crusher Weight	8800 kg / 19,400 lbs
Lubrication Tank	
Capacity	250 litres / 66 US Gal
Fixed Displacement Flow Meter	Yes
Hyd Driven Oil Cooler	Yes

Options

C Chamber Kit
 MC Chamber Kit
 M Chamber Kit
 MF Chamber Kit
 F Chamber Kit
 Hopper Hardox Liner Plates Back & Sides
 Hopper High Impact Rubber Liners
 Central Auto Lube (all bearings)
 Water Pump (Hydraulic)
 Intelligent line communication
 Product conveyor level sensor
 Arctic Package -20°C (32 grade hyd oil & engine oil + 100 grade lube oil)

	QH331
Main Conveyor	
Belt Width	1000mm / 39½"
Belt Length	17400mm / 57' 1"
Discharge Height	3200mm / 10' 6"
Head Drum Dia	289mm / 11½"
Tail Drum Dia	273mm / 11"
Drive	Hyd
Motor cc	490cc / 29.9 cu inch
Tracks	
Length (Centres)	3850mm / 12' 7½"
Width (Shoe)	500mm / 19¾"
Drive	Hyd/Gearbox
Control	Radio/Umbilical
Powerpack	
Type	CAT C9 Acert
Stage/Tier	Stage 3A / Tier 3
Engine Power	261kW / 350hp
Diesel Tank Capacity	660 litres / 174 US Gal
Hyd Tank Capacity	660 litres / 174 US Gal
General Tech Data	
Transport Dimensions	
Length	14.40m / 47' 3"
Width	2.80m / 9' 2"
Height	3.40m / 11' 2"
Cubic Volume	135 m ³ / 4767 ft ³
Standard Weight	33,500kg / 73,855lbs
Operating Dimensions	
Length	13.40m / 44' 0"
Width	3.15m / 10' 4"
Height	4.35m / 14' 3½"
Standard Weight	33,500kg / 73,855lbs
Performance	
Max Feed Size	190mm / 7½"
Capacity (up to)	220 tph (242 stph)
Travel Speed	0.77 mph / 1.24 kph
Max Incline	20°
Max Incline (Side to Side)	10°

Arctic Package -30°C (arctic hyd oil & engine oil + 100 grade lube oil + webasto coolant heater)
 Tropical package (68 grade oil + 220 grade lube oil)
 Remote diesel pump (Electric)
 Canvas cover (main conveyor only)
 Overband Magnet
 Conveyor Pull Stop Kit (main conveyor)
 CAT C9.3 Acert Stage 3B / Tier 4i
 Engine Filter Kit - 250 hours (fuel, air and oil filter - for 3A engines only)
 Plant and Engine Filter Kit - 500 hours (3A engine)
 Plant and Engine Filter Kit - 500 hours (3B engine)

The units depicted show all options currently available, and the colour scheme reflects the eventual scheme to be used. Current models may differ from those featured in this brochure. Please contact Sandvik to clarify specification and options. The material in this brochure is of general application for information and guidance only, and no representation or warranty is made or given by the manufacturer that its products will be suitable for a customer's particular purpose and enquiry should always be made of the manufacturer to ensure such suitability. Whilst reasonable efforts have been made in the preparation of this document to ensure its accuracy, the manufacturer assumes no liability resulting from errors or omissions in this document, or from the use or interpretation of the information contained herein. The manufacturer reserves the right to make changes to the information in this brochure and the product design without reservation and without notification to users.

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