

Sandvik QS331 cone crusher

Technical specification sheet



The QS331 is a compact, self contained mobile cone crusher with an on board diesel engine. Featuring the CS430 Sandvik cone crusher the QS331 is capable of accepting large feed sizes and achieving high production capacities. The advanced CS430 cone is equipped with a hydroset CSS regulation system that provides overload protection, optimises production and keeps track of liner wear. The unit is also fitted with an automatic level sensor above the crushing chamber to control the feed rate and minimise operator intervention for maximum production and reduction. Features include:

- The chassis is constructed from heavy duty 'I' beam to ensure maximum durability
- Heavy duty, hydraulically positioned feed conveyor
- Up and over metal detector to provide ultimate cone protection from tramp metal
- Automated variable speed feed conveyor via a level sensor to ensure maximum production and reduction of the material
- Direct drive through a PT Tech wet clutch with eight SPC drive belts to ensure maximum fuel efficiency and power delivery
- Hydraulically driven, variable speed cooling fan for maximum efficiency and auto reverse facility to back flush dust from the radiator
- The machine is designed for ease of mobility, for rapid set up time and transportation
- The CS430 cone has choice of three concaves and four bush settings from a single bush ranging from 16mm to 30mm
- The concave and bush settings give unrivalled flexibility regarding CSS ranges, production and material gradation
- Maximum feed size up to 360mm and capable of up to 344 tph on the larger bush setting
- Can operate in the most hostile environments with a 50°C ambient capability
- Superb access around the crusher for easy maintenance, especially during liner changes
- Remote camera viewing the crushing chamber enables the operator to set up and ensure a choke feed on the crusher from ground level
- Hydraulic driven hydraulic and lubrication coolers to deal with the most arduous conditions.

Technical specifications

	QS331
Feed Hopper	
Nominal Capacity	5 m ³ / 6.5 ³ yds
Nominal Capacity With Extensions	6.5 m ³ / 8.5 ³ yds
Rear Loading Height (Std)	3455mm / 11' 4"
Rear Loading Width (Std)	2305mm / 7' 6 3/4"
Rear Loading Width With Extensions	3600mm / 11' 9 3/4"
Rear Loading Height With Extensions	3815mm / 12' 6 1/4"
Feed Conveyor	
Hopper Thickness	10mm / 3/8"
Belt Width	1000mm / 39 1/2"
Belt Length	11845mm / 38' 10"
Incline Angle	20°
Drive	Hydraulic Variable Speed
Gearbox	22.2:1
Torque	8850Nm / 6527 lbs/ft
Head Drum Diameter	340mm / 13 3/8"
Tail Drum Diameter	324mm / 12 3/4"
Motor	130.6cc / 7.97 Cu Inch
Metal Detector Type	Bridge Coil
Crusher	
Type	Sandvik CS430
Speed	346 rpm to 366 rpm
Feed Opening	up to 360mm / 14 1/8"
CSS Range	19mm - 51mm / 3/4" - 2"
Standard Chamber Kit	Coarse
Standard Bush Settings	16, 20, 25*, 30 / 3/8, 1/2, 1", 1 1/4
Drive	PT Tech 12" Wet Clutch
Drive Belts	8 off SPC Single belts
Crusher Weight	12,000kg / 26,455 lbs
Lubrication Tank	
Capacity	250 Litres / 66 US Gallon
Fixed Displacement Flow Meter	Yes
Hydraulic Driven Cooler	Yes

Options

Medium Coarse and Extra Coarse Chamber Kit
 Wear Resistant Hopper Liner Plates Back And Sides
 Hydraulic Folding Hopper Extensions For Rear Loading
 Central Autolube (all bearings)
 Arctic Package -20°C (-4°F) (32 grade hydraulic oil, engine oil and 100 grade lubrication oil)
 Arctic Package -30°C (-22°F) (Arctic hydraulic oil, engine oil, 100 grade lubrication oil and webasto coolant heater)
 Tropical Package (220 grade lubrication oil for +30°C ambient)
 Main Conveyor Level Sensor (stockpile monitor)
 Lighting Mast And Cabinet Lights
 Remote Diesel Pump (electric)
 Pull Stop Cords On The Main Conveyor

	QS331
Main Conveyor	
Belt Width	1000mm / 39 1/2"
Belt Length	17,400mm / 57' 1"
Discharge Height	3065mm 10' 3/4"
Head Drum Diameter	289mm / 11 1/2"
Tail Drum Diameter	273mm / 11"
Drive	Hydraulic
Motor	490cc / 29.9 cu inch
Tracks	
Length (Centres)	3800mm / 12' 5 5/8"
Width (Shoe)	500mm / 19 3/4"
Drive	Hydraulic / Gearbox
Control (proportional)	Radio / Umbilical
Travel Speed	0-1 km/h - 0-0.62 mph
Max Incline	16°
Max Incline (side to side)	10°
Powerpack	
Engines	Stage 3A / Tier 3 Cat C9 Stage 3B / Tier 4i Cat C9.3
Engine Power	261 kW / 350 hp
Diesel Tank Capacity	660 Litres / 174 US Gallon
Hydraulic Tank Capacity	660 Litres / 174 US Gallon
Transport Dimensions	
Length	14.56m / 47' 9 1/4"
Width	2.8m / 9' 2 1/4"
Height	3.8m / 12' 5 1/2"
Cubic Volume	155 m ³ / 5474 ft ³
Transport Weight	36,000 kg / 79,366 lbs
Operating Dimensions	
Length	13.50m / 44' 3 1/2"
Width	3.14m / 10' 3 1/2"
Height	4.77m / 15' 7 3/4"
Operation Weight	36,000 kg / 79,366 lbs
Performance	
Max Feed Size	360mm / 14 1/8"
Capacity (up to)	344 tph / 379 stph

* Standard

Note. All weights and dimensions are for standard units only with full diesel tanks

Water Pump (hydraulic)
 Overband Magnet
 Engine Filter Kit 250 - hours (for 3A engines only)
 Plant And Engine Filter Kit - 500 hours (3A Engine)
 Plant And Engine Filter Kit - 500 hours (3B Engine)
 Intelligent Line Multi-Machine Communication
 Head drum Guard On The Main Conveyor only
 Main Conveyor Underguards, Head drum Guard and additional Side and Rear Guards (Blue chip guarding)
 Tool Box And Contents
 Radio remote control
 1.75m extended main conveyor

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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