



QS331 CONE CRUSHER PIONEERING SOLUTIONS FOR YOU

TECHNICAL SPECIFICATION

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.

KEY BENEFITS

- 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 16 mm to 30 mm
- The concave and bush settings give unrivalled flexibility regarding CSS ranges, production and material gradation
- Maximum feed size up to 360 mm 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 with a lubrication oil change
- 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.



KEY SPECIFICATIONS	QS331
Hopper	
Nominal capacity	5 m ³ / 6.5 yds ³
Nominal capacity with extensions	6.5 m ³ / 8.5 yds ³
Rear loading height (std)	3455 mm / 11' 4"
Rear loading width (std)	2305 mm / 7' 6 3/4"
Rear loading width with extensions	3600 mm / 11' 9 3/4"
Rear loading height with extensions	3815 mm / 12' 6 1/4"
Feed conveyor	
Hopper thickness	10 mm / 3/8"
Belt width	1000 mm / 39 1/2"
Belt length	11,845 mm / 38' 10"
Incline angle	20°
Drive	Hydraulic variable speed
Gearbox	22.2:1
Torque	8850 Nm / 6527 lbs / ft
Head drum diameter	340 mm / 13 3/8"
Tail drum diameter	324 mm / 12 3/4"
Motor	130.6 cc / 7.97 Cu Inch
Metal detector type	Bridge coil
Crusher	
Cone	Sandvik CS430
Speed	346 rpm to 366 rpm
Feed opening	up to 360 mm / 14 1/8"
CSS range	19 mm - 51mm / 3/4" - 2"
Std chamber kit	Coarse
Std bush settings	16, 20, 25*, 30 / 5/8, 3/4, 1*, 1 1/4
Drive	PT Tech 12" Wet Clutch
Drive belts	8 off SPC Single belts
Crusher weight	12,000 kg / 26,455 lbs
Lubrication tank	
Capacity	250 litres / 66 USG
Fixed displacement flow meter	Yes
Hyd driven oil 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

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Main conveyor	
Belt width	1000 mm / 39 1/2"
Belt length	17,400 mm / 57' 1"
Discharge height	3065 mm 10' 3/4"
Head drum diameter	289 mm / 11 1/2"
Tail drum diameter	273 mm / 11"
Drive	Hydraulic
Motor	490 cc / 29.9 cu inch
Tracks	
Length (centres)	3800 mm / 12' 5 5/8"
Width (shoe)	500 mm / 19 3/4"
Drive	Hydraulic / Gearbox
Control	Radio / Umbilical
Power pack	
Engine	Stage 3A / Tier 3 CAT C9 Acert / Stage 3B / Tier 4i CAT C9.3 Acert / Stage 4 / Tier 4 Final CAT 9.3 Acert
Engine power	261 kW / 350 hp
Diesel tank capacity	660 litres / 174 USG
Hyd tank capacity	660 litres / 174 USG
Transport dimensions	
Length	14.56 m / 47' 9 1/4"
Width	2.8 m / 9' 2 1/4"
Height	3.8 m / 12' 5 1/2"
Operating dimensions	
Length	13.50 m / 44' 3 1/2"
Width	3.14 m / 10' 3 1/2"
Height	4.77 m / 15' 7 3/4"
Standard weight	36,000 kg / 79,366 lbs
Performance	
Max feed size	360 mm / 14 1/8"
Capacity (up to)	344 tph / 379 stph
Travel speed	0-1 kph / 0-0.62 mph
Max incline / Side to side	16° / 10°

Note. All weights and dimensions are for standard units only