



QS331HS CONE CRUSHER PIONEERING SOLUTIONS FOR YOU

TECHNICAL SPECIFICATION

The QS331HS is a tracked, self contained cone crusher with an on board diesel engine. Featuring the CS430 Sandvik secondary cone crusher which is capable of accepting large feed sizes and achieving high production capacities is at the heart of this world leading piece of crushing technology.

It is equipped with a hydroset system which provides CSS adjustment at the touch of a button. The CS430 cone is equipped with a hydroset CSS regulation system that provides overload protection, optimises production and keeps track of liner wear, thus making it easy to plan liner changes.

Now available with a single deck hanging screen, this allows the machine to produce a screened product and recirculate the oversize back into the feed conveyor. The oversize conveyor can be hydraulically rotated through 90° to stockpile onto the floor to produce two products.

KEY BENEFITS

- The chassis is constructed from heavy duty 'I' beam to ensure maximum durability
- Heavy duty, hydraulically positioned feed conveyor with optional wear resistant liners and hydraulic folding hopper extensions
- Up and over metal detector to provide ultimate cone protection from tramp material
- Automated variable speed feed conveyor via a level sensor and 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
- Variable crusher speed through the engine rpm to manipulate the gradation of the end product
- 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 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 with just changing the lubrication oil
- 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, lubrication and hydraulic oil coolers to deal with the most arduous conditions.



KEY SPECIFICATIONS	QS331HS
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)	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	130,6cc / 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 - 51 mm / 3/4" - 2"
Std chamber kit	Coarse
Std bush settings	16, 20, 25°, 30 / 3/8, 3/4, 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 USG
Fixed displacement flow meter	Yes
Hyd driven oil cooler	Yes
Extended Main conveyor	
Belt width	1000 mm / 39 1/2"
Belt length	20,920 mm / 68' 7 1/2"
Discharge height	3815 mm / 12' 6 1/4"
Head drum diameter	289 mm / 11 1/2"
Tail drum diameter	273 mm / 11"
Drive	Hydraulic
Motor	490 cc / 29.9 cu inch
Screen box	
Type	2 bearing, single deck screenbox
Top deck size	4 x 1.5 m / 13' x 5'
Operating angle	22°
Minimum top deck size	20 mm / 3/4"
Maximum top deck size	75 mm / 3"
Motor CC	40.6 cc / 2.48 cu inch
Fines Conveyor	
Belt width	1200 mm / 47"
Discharge height	3.57 m / 11' 8 1/2"
Belt length	12,800 mm / 42' 0"
Drive	Hydraulic
Motor CC	395 cc / 24.1 cu inch

OPTIONS

Medium coarse & extra coarse chamber kits
 Remote diesel pump (electric)
 Wear resistant hopper liner plates back and sides
 Pull stop cords on the main conveyor
 Hydraulic folding hopper extensions for rear loading
 Water pump (hydraulic)
 Central autolube (all bearings excluding the screen)
 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)

KEY SPECIFICATIONS	QS331HS
Transfer Conveyor	
Belt width	500 mm / 19 3/4"
Belt length	4822 mm / 15' 9 3/4"
Drive	Hydraulic
Motor CC	395 cc / 24.1 cu inch
Recirculating Conveyor / Stockpile Conveyor	
Belt width	500 mm / 19 3/4"
Discharge height	5.25 m / 17' 2 3/4"
Belt length	19700 mm / 64' 7 1/2"
Drive	Hydraulic
Motor CC	490 cc / 29.9 cu inch
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
Tracks	
Length (centres)	3800 mm / 12' 5 5/8"
Width (shoe)	500 mm / 19 3/4"
Drive	Hydraulic / Gearbox
Control	Radio / Umbilical
HS Operating dimensions	
Length	18.7 m / 61' 4"
Width recirc position	3.6 m / 11' 9 1/2"
Width stockpile position	11.46 m / 37' 7 1/4"
Height recirc position	5.33 m / 17' 5 3/4"
Height stockpile position	5.33 m / 17' 5 3/4"
Operating weight	44,470 kg / 98,040 lbs
HS Transport dimensions	
Length	18.5 m / 60' 8"
Width	3.19 m / 10' 5 1/2"
Height	3.8 m / 12' 5 1/2"
Transport weight	44,470 kg / 98,040 lbs
HS Removed Operating dimensions	
Length	15.82 m / 51' 10 3/4"
Width recirc position	3.6 m / 11' 9 1/2"
Height recirc position	5.33 m / 17' 5 3/4"
Operating weight	40,220 kg / 88,670 lbs
HS Removed Transport dimensions	
Length	17.20 m / 56' 5 1/2"
Width	3.19 m / 10' 5 1/2"
Height	3.8 m / 12' 5 1/2"
Transport weight	40,220 kg / 88,670 lbs

Note. All weights and dimensions are for standard units only

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)
 Plant and engine filter kit - 500 hours (4 Final engine)
 Intelligent line multi-machine communication
 Pull stop cords on the re-circ & fines conveyor (HS unit)
 Fines conveyor level sensor (stockpile monitor HS unit)
 Main conveyor level sensor (stockpile monitor)
 Lighting mast and cabinet lights
 Tool box and contents
 Radio remote control

