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

#### Hopper
- Nominal capacity: 5 m³ / 659 yds
- Nominal capacity with extensions: 6.5 m³ / 835 yds
- Rear loading height (std): 3455 mm / 11’ 4”
- Rear loading width (std): 2305 mm / 7’ 6”
- Rear loading width with extensions: 3600 mm / 11’ 9”
- Rear loading height with extensions: 3815 mm / 12’ 6”

#### Feed conveyor
- Hopper thickness: 10 mm / ⅝”
- Belt width: 1000 mm / 39 ⅝”
- Belt length: 11,845 mm / 38’ 10”
- Incline angle: 20°
- Drive: Hydraulic Variable Speed
- Gearbox: 22.2:1
- Torque: 6850 Nm / 6527 lbs/ft
- Head drum diameter: 340 mm / 13 ⅜”
- Tail drum diameter: 324 mm / 12 ⅞”
- Motor: 130.6 cc / 7.97 Cu Inch
- Metal detector type: Bridge coil

#### Cone
- Sandvik CS430
- Speed: 345 rpm to 366 rpm
- CSS range: up to 360 mm / 14 ⅜”
- Std chamber kit: Coarse
- Std bush settings: 16, 20, 25, 30, 40, 4”, 5”, 1”, 1 ⅜”
- Drive: PT Tech 12” Wet Clutch
- Drive belts: 8 off SPC Single belts
- Crusher weight: 250 kg / 551 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 ⅝”
- Belt length: 20,020 mm / 65’ 9½”
- Discharge height: 3815 mm / 12’ 6”
- Head drum diameter: 289 mm / 11 ⅜”
- 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’
- Opening angle: 22°
- Minimum top deck size: 20 mm / ¾”
- 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: 3177 mm / 10’ 5”
- 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) (artic hydraulic oil, engine oil, 100 grade lubrication oil and webasto coolant heater)
- Tropical package (220 grade lubrication oil for +30°C ambient)

## Key Specifications

### Transfer Conveyor
- Belt width: 500 mm / 19 ⅝”
- Belt length: 4822 mm / 15’ 9”
- Drive: Hydraulic
- Motor CC: 395 cc / 24.1 cu inch

### Recirculating Conveyor / Stockpile Conveyor
- Belt width: 500 mm / 19 ⅝”
- Belt length: 4822 mm / 15’ 9”
- 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”
- Width (shoe): 500 mm / 19 ⅝”
- Drive: Hydraulic / Gearbox
- Control: Radio / Umbilical

### HS Operating dimensions
- Length: 18.7 m / 61 4’
- Width recirc position: 3.6 m / 11’ 9”
- Height stockpile position: 11.4 m / 37’ 10”
- Height recirc position: 5.33 m / 17 ½”
- Height stockpile position: 5.33 m / 17 ½”
- Operating weight: 44,470 kg / 98,040 lbs

### HS Transport dimensions
- Length: 18.5 m / 60’ 6”
- Width: 3.19 m / 10 5”
- Height: 7.0 m / 23’ 0”
- Transport weight: 44,470 kg / 98,040 lbs

### HS Removed Operating dimensions
- Length: 15.82 m / 51 10”
- Width recirc position: 3.6 m / 11’ 9”
- Height recirc position: 5.33 m / 17 ½”
- Operating weight: 40,220 kg / 88,670 lbs

### HS Removed Transport dimensions
- Length: 17.20 m / 56 5 ½”
- Width: 3.19 m / 10 5”
- Height: 3.8 m / 12 5”
- Transport weight: 40,220 kg / 88,670 lbs

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**Note:** All weights and dimensions are for standard units only.