



QH331HS HYDROPHONE PIONEERING SOLUTIONS FOR YOU

TECHNICAL SPECIFICATION

The QH331HS is a tracked, self contained cone crusher with an on board diesel engine. The Sandvik CH430 cone crusher 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 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 QH331HS represents the perfect combination of advanced cone crusher technology and tracked mobility, now available with a single deck, hanging screen which 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 to ensure maximum production, reduction and shape of the material
- No crusher backing required behind the liners which allows the crusher to be operational immediately after a liner change
- 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, rapid set up time and transportation
- The CH430 cone has choice of six concaves and three eccentric bushes providing a range of throws from 16mm to 36mm
- The concave and bush settings give unrivalled flexibility regarding CSS ranges, production and material gradation
- Maximum feed size up to 185mm and capable of up to 220 tph on the larger bush setting
- Can operate in the most hostile environments with a 50°C ambient capability by simply 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	QH331HS
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	3055 mm / 10' 1/4"
Rear loading height with extensions	3415 mm / 11' 2 1/2"
Rear loading width	2305 mm / 7' 6 3/4"
Rear loading width with extensions	3600 mm / 11' 9 3/4"
Feed conveyor	
Hopper thickness	10 mm / 3/8"
Wear resistant hopper liners	Option
Belt width	1000 mm / 39 1/2"
Belt length	11845 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 CH430 crusher
Speed	369 to 390 rpm
Feed opening	185 mm / 7 1/4"
CSS range	6 - 41 mm / 1/4" - 1 5/8"
Std chamber kit	EC
Chamber options	F-MF-M-MC-C
Std bush settings	22, 25*, 29 mm / 7/8, 1", 1 1/8"
Drive	PT Tech 12" Wet clutch with PTO
Drive belts	8 SPC Single belts
Crusher weight	8800 kg / 19,400 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	3830 mm / 12' 6 3/4"
Head drum diameter	289 mm / 11 1/2"
Tail drum diameter	273 mm / 11"
Drive	Hydraulic
Motor cc	490 cc / 29.9 cu inch
Screen	
Size (open area)	4.0 m x 1.5 m / 13' x 5'
Number of decks	1
Number of bearings	2
Operating angle	22°
Minimum mesh size	20 mm / 3/4"
Maximum mesh size	75 mm / 3"
Motor size	40.6 cc / 2.48 cu inch

OPTIONS

C chamber kit
 MC chamber kit
 M chamber kit
 MF chamber kit
 F chamber kit
 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)

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Transfer Conveyor	
Belt width	500 mm / 19 3/4"
Belt length (endless)	4822 mm / 15' 9 3/4"
Motor size	395 cc / 24.1 cu inch
Re-Circ Conveyor	
Belt width	500 mm / 19 3/4"
Belt length (endless)	19,700 mm / 64' 7 1/2"
Motor size	490 cc / 29.9 cu inch
Discharge height	5.25 m / 17' 2 3/4" (stockpile)
Fines Conveyor	
Belt width	1200 mm / 47"
Belt length (endless)	12,800 mm / 42'
Motor size	395 cc / 24.1 cu inch
Discharge height	3.57 m / 11' 8 1/2"
Power pack	
Engine	Stage 3A / Tier 3 CAT C9 Acert / Stage 3B / Tier 4i CAT C9.3 Acert / Stage 4 / Tier 4 Final CAT C9.3 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 Transport Dimensions	
Length HS	18.5 m / 60' 8"
Width HS	3.19 m / 10' 5 1/2"
Height HS	3.4 m / 11' 1 3/4"
Transport weight (HS)	41,270 kg / 90,985 lbs
HS Operating Dimensions	
Length HS	18.7 m / 61' 4"
Width HS	3.6 m / 11' 9 1/2"
Height HS	5.33 m / 17' 5 3/4"
Operation weight (HS)	41,270 kg / 90,985 lbs
HS Removed Transport dimensions	
Length	17.20 m / 56' 5 1/2"
Width	3.19 m / 10' 5 1/2"
Height	3.4 m / 11' 1 3/4"
Transport weight	37,020 kg / 81,615 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	37,020 kg / 81,615 lbs

Note. All weights and dimensions are for standard units only

Lighting mast and cabinet lights
 Tool box and contents
 Radio remote control
 Remote diesel pump (electric)
 Pull stop cords on the main conveyor
 Water pump (hydraulic)
 Engine filter kit 250 - hours (for 3A engines only)
 Plant and engine filter kit - 500 hours
 Intelligent line multi-machine communication
 Pull stop cords on the re-circ and fines conveyor (HS unit)
 Fines conveyor level sensor (stockpile monitor HS unit)