



# QH331 HYDROPHONE PIONEERING SOLUTIONS FOR YOU

## TECHNICAL SPECIFICATION

**The QH331 mobile cone crusher has been designed to meet the most exacting aggregate product quality demands through the use of the Sandvik CH430 cone crusher on a tracked chassis. Through this cone the QH331 is able to take advantage of the Sandvik developed CSC (cubical shape crushing) techniques, producing material of excellent shape and high quality.**

The CH430 cone is at the heart of the QH331; this world leading piece of crushing technology is equipped with a hydroset system which provides both safety and setting adjustment functions. 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.

### KEY BENEFITS

- Direct drive through a PT Tech wet clutch with eight SPC drive belts to ensure maximum fuel efficiency and power delivery
- Greatly improved efficiency and power transfer resulting in tighter close side settings, and larger bush variations for precision crushing.
- Superb access around the crusher for easy maintenance, especially during liner changes
- The diesel and hydraulic tank are easily accessible from the front platform on the machine with inspection covers.
- Steel pipe work used extensively for superior heat dissipation, and a maintenance free sealing solution.
- For enhanced control and efficiency engine data outputs may be viewed via the colour PLC screen.
- Hydraulically driven cooling fan allows speed control producing increased efficiency, and auto reverse facility to periodically back flush any dust build up in the radiator.
- Hydroset facility incorporated into the plant hydraulic system for increased reliability and response time and reduced service requirements.
- Bridge Coil (up and over) metal detector fitted to the feed conveyor allowing improved stability and controlled detection.
- The lubrication tank has internal coupling drives, gear wheel flow meter and internal lubrication heater, and Bowman heater for rapid cold start up times.
- Remote camera viewing the crushing chamber enables the operator to ensure a choke feed without the need to access the machine.



KEY SPECIFICATIONS	QH331
<b>Hopper</b>	
Nominal capacity	5 m <sup>3</sup> / 6.5 yds <sup>3</sup>
Nominal capacity with extensions	6.5 m <sup>3</sup> / 8.5 yds <sup>3</sup>
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"
<b>Feed conveyor</b>	
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	324mm / 12 3/4"
Motor	130.6cc / 7.97 cu inch
Metal detector type	Bridge coil
<b>Crusher</b>	
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*, 29mm / 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
<b>Lubrication Tank</b>	
Capacity	250 litres / 66 US Gal
Fixed displacement flow meter	Yes
Hyd driven oil cooler	Yes

## OPTIONS

C chamber kit  
 MC chamber kit  
 M chamber kit  
 MF chamber kit  
 F chamber kit  
 Wear resistant hopper liner plates back and sides  
 Hydraulic folding hopper extensions for rear loading  
 Pull stop cords on the main conveyor  
 Overband magnet (not available with HS option)  
 Central auto lube (all bearings)  
 Water pump (hydraulic)  
 Remote diesel pump (electric)  
 Lighting mast and cabinet lights  
 Main conveyor level sensor (stockpile monitor)  
 Tropical package (220 grade lubrication oil) for +30°C ambient  
 Arctic package -20°C (-4°F) (32 Grade hydraulic oil, engine oil and 100 Grade lubrication oil)

KEY SPECIFICATIONS	QH331
<b>Main conveyor</b>	
Belt width	1000 mm / 39 1/2"
Belt length	17400 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 cc	490cc / 29.9 cu inch
<b>Tracks</b>	
Length (centres)	3800 mm / 12' 5 5/8"
Width (shoe)	500 mm / 19 3/4"
Drive	Hydraulic / gearbox
Control	Radio / umbilical
<b>Power pack</b>	
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 US Gal
Hyd tank capacity	660 litres / 174 US Gal
<b>Transport dimensions</b>	
Length	14.56 m / 47' 9 1/4"
Width	2.80 m / 9' 2 1/4"
Height	3.40 m / 11' 1 3/4"
<b>Operating dimensions</b>	
Length	13.50 m / 44' 3 1/2"
Width	3.14 m / 10' 3 1/2"
Height	4.38 m / 14' 4 1/4"
Standard weight	32,800 kg / 72,312 lbs
<b>Performance</b>	
Max feed size	185 mm / 7 1/4"
Capacity (up to)	220 tph (242 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

Arctic package -30°C (-22°F) (arctic hydraulic oil, engine oil, 100 Grade lubrication oil and webasto coolant heater)  
 Engine filter kit - 250 hours (fuel, air and oil filter - 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  
 Tool box and contents  
 Head drum guard on the main conveyor only (not available with HS option)  
 Main conveyor underguards, head drum guard and additional side and rear guards (blue chip guarding) (not available with HS option)  
 Radio remote control  
 1.75m extended main conveyor