



QH441HS HYDROCONE PIONEERING SOLUTIONS FOR YOU

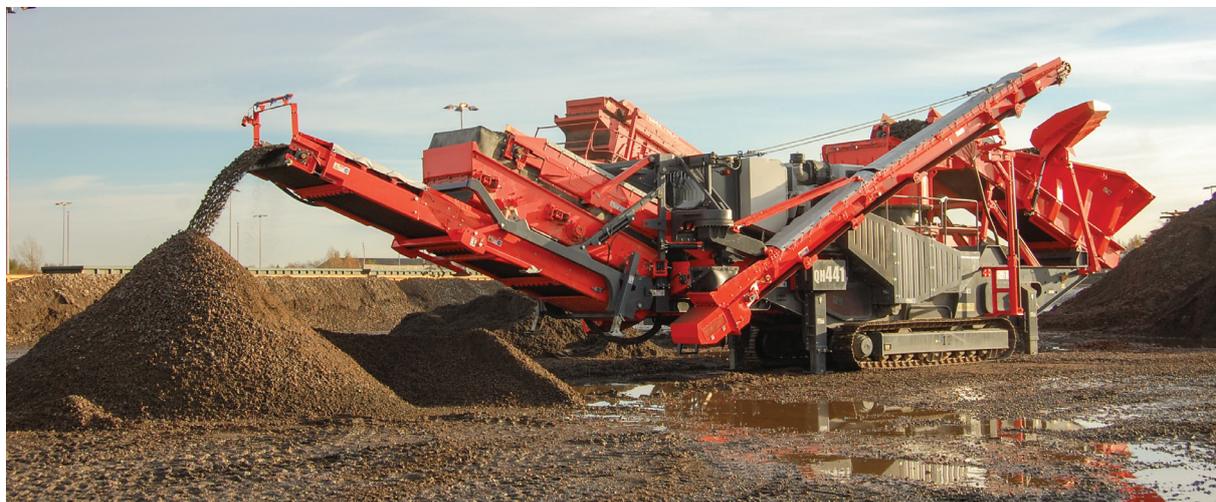
TECHNICAL SPECIFICATION

The QH441 HS is a tracked, self contained cone crusher with an on board diesel engine. The Sandvik CH440 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 QH441 HS represents the perfect marriage 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. Alternatively 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 wear resistant liners
- 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, reduction and shape of the material
- Fitted with four jacking legs for maximum stability
- and to assist with maintenance
- Direct drive through a PT Tech wet clutch with ten SPC drive belts to ensure maximum fuel efficiency and power delivery
- Variable crusher speed through the engine rpm to manipulate the gradation of the end product
- 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 CH440 cone has choice of six concaves and three eccentric bushes providing a range of throws from 16mm to 44mm
- The concave and bush settings give unrivalled flexibility regarding CSS ranges, production and material gradation
- Maximum feed size up to 215mm and capable of up to 388 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 | QH441HS |
|-------------------------------------|--|
| Hopper | |
| Nominal capacity | 6.3 m ³ / 8.25 yds ³ |
| Nominal capacity with extensions | 10.2 m ³ / 13.3 yds ³ |
| Rear loading height | 3490 mm / 11' 5 1/2" |
| Rear loading height (door lowered) | 3090 mm / 10' 1 1/2" |
| Rear loading height with extensions | 3884 mm / 12' 9" |
| Rear loading width | 2630 mm / 8' 7 1/2" |
| Rear loading width with extensions | 3822 mm / 12' 6 1/2" |
| Feed conveyor | |
| Hopper thickness | 10 mm / 3/8" |
| Wear resistant hopper liners | 10 mm / 3/8" |
| Belt width | 1200 mm / 47" |
| Belt length | 13150 mm / 43' 2" |
| Incline angle | 22° |
| Drive | Hydraulic variable speed |
| Gearbox | 31:1 |
| Torque | 8000 Nm / 5900 lbs/ft |
| Head drum diameter | 371 mm / 14 1/2" |
| Tail drum diameter | 265 mm / 10 1/2" |
| Motor | 82.6 cc / 5.04 cu inch |
| Metal detector type | Bridge Coil |
| Crusher | |
| Type | Sandvik CH440 |
| Speed | 327 rpm to 346 rpm |
| Feed opening | 215 mm / 8 1/2" |
| CSS range | 8 - 48 mm / 5/16" - 1 7/8" |
| Std chamber kit | EC |
| Chamber options | F-MF-M-MC-C |
| Std bush settings | 32,36*,40,44 mm / 1 1/4, 1 3/8*, 1 1/2, 1 3/4" |
| Drive | PT Tech 14" Wet Clutch with PTO |
| Drive belts | 10 SPC Single Belts |
| Crusher weight | 14,300 kg / 31,526 lbs |
| Lubrication Tank | |
| Capacity | 250 litres / 66 USG |
| Fixed displacement flow meter | Yes |
| Hyd driven oil cooler | Yes |
| Main conveyor | |
| Belt width | 1200 mm / 47" |
| Belt length | 21600 mm / 70' 10" |
| Discharge height | 3739 mm / 12' 3 1/4" |
| Head drum diameter | 371 mm / 14 1/2" |
| Tail drum diameter | 265 mm / 10 1/2" |
| Drive | Hydraulic |
| Motor cc | 624 cc / 38.1 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)
 Lighting mast and cabinet lights

| KEY SPECIFICATIONS | QH441HS |
|--|---|
| Transfer Conveyor | |
| Belt width | 500 mm / 19 3/4" |
| Belt length (endless) | 5400 mm / 17' 8 1/2" |
| Motor size | 395 cc / 24.1 cu inch |
| Re-Circ Conveyor | |
| Belt width | 500 mm / 19 3/4" |
| Belt length (endless) | 22,250 mm / 73' |
| Motor size | 624 cc / 38.1 cu inch |
| Discharge height | 6.06 m / 19' 10 1/2" |
| Fines Conveyor | |
| Belt width | 1200 mm / 47" |
| Belt length (endless) | 13,350 mm / 43' 9 1/2" |
| Motor size | 395 cc / 24.1 cu inch |
| Discharge height | 3.64 m / 11' 11 1/2" |
| Power pack | |
| Engine | Stage 3A / Tier 3 CAT C13 Acert / Stage 3B / Tier 4i CAT C13 Acert / Stage 4 / Tier 4 Final CAT C13 Acert |
| Engine power | 328 kW / 440 hp |
| Diesel tank capacity | 990 litres / 262 USG |
| Hyd tank capacity | 990 litres / 262 USG |
| Tracks | |
| Length (centres) | 3715 mm / 12' 2" |
| Width (shoe) | 500 mm / 19 3/4" |
| Drive | Hydraulic / Gearbox |
| Control | Radio / Umbilical |
| HS Transport Dimensions | |
| Length HS | 19.26 m / 63' 2 1/2" |
| Width HS | 3.49 m / 11' 5" |
| Height HS | 3.80 m / 12' 5 1/2" |
| Transport weight (HS) | 58,340 kg / 128,618 lbs |
| HS Operating Dimensions | |
| Length HS | 20.20 m / 66' 2" |
| Width HS | 3.93 m / 12' 10 1/2" |
| Height HS | 6.06 m / 19' 10 1/2" |
| Operation weight (HS) | 58,340 kg / 128,618 lbs |
| HS Removed Transport Dimensions | |
| Length HS | 17.21 m / 56' 3/8" |
| Width HS | 3.49 m / 11' 5" |
| Height HS | 3.80 m / 12' 5 1/2" |
| Transport weight (HS) | 54,090 kg / 119,248 lbs |
| HS Removed Operating Dimensions | |
| Length HS | 16.56 m / 54' 4" |
| Width HS | 3.93 m / 12' 10 1/2" |
| Height HS | 6.06 m / 19' 10 1/2" |
| Operation weight (HS) | 54,090 kg / 119,248 lbs |

Note. All weights and dimensions are for standard units only

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
 Single deck hanging screen mesh options
 Pull stop cords on the re-circ and fines conveyor (HS unit)
 Fines conveyor level sensor (stockpile monitor HS unit)