

Sandvik QH441HS

Tracked cone crusher

The QH441HS is the largest Sandvik Q-Range mobile cone crusher with single deck HS311 hanging screen, designed for versatility, safety and high performance. Featuring the market leading Sandvik CH440 cone crusher, it comes with a number of features to ensure maximum uptime and minimum operator intervention.



Key benefits

Reliability

- Market leading Sandvik CH440 cone for strength and high performance
- Cone crusher unibody mainframe ensures optimal strength and less maintenance
- Premium components selected throughout and FEA analysis on structural parts for durability
- Up-and-over metal detector for stable and controlled detection
- Steel pipe work used extensively to give superior heat dissipation and maximum reliability
- Capable of operating in the most hostile environments

Productivity

- Hydraulic cone Hydrosert™ setting (CSS) and overload protection for maximum uptime
- Superior power transfer resulting in tighter close side settings, and larger throw variations for precision crushing
- Load sensing system for feeder drive, camera and level sensor ensure continuous crushing
- Choice of chambers, throws and settings to optimize crusher for a wide range of applications
- Full PLC control system with colour screen allowing visual data output and push button adjustment of all plant operating parameters
- Connected to Sandvik My Fleet with 7 year data subscription offering 24/7 fleet management, geo-fencing and remote operator support
- Single deck HS311 hanging screen to provide a 1 or 2 way split

Cost of ownership

- Latest generation fuel efficient engines provide maximum performance and cost efficiency
- Fluid clutch drive for smoother power transmission for optimum fuel efficiency and maximum power transfer
- Well-proportioned fuel tank to maximize intervals between refueling
- Unique Constant Liner Performance (CLP) for extended life of chamber liners, minimizing downtime and cost

Safety

- Remote camera viewing the crushing chamber ensures full visibility without the need to access the machine
- Superb access around the crusher for easy maintenance, especially during liner changes
- Mandatory audible and visual warning for safe operation whilst tracking and start-up / shut down
- Emergency stop buttons and conveyor pull stop cords around the plant for easy access during operation
- Wireless radio handset and proportional speed control for safe tracking onsite
- Spacious platforms provide safe access for service and maintenance
- Dust suppression spray bars and onboard water pump to minimize dust improving operator and onsite safety

Sustainability

- Latest emissions compliant Stage V engine for reduced emissions
- Dust suppression system minimizes dust emissions reducing environmental impact

Technical specification

Key specifications	QH441HS
Hopper	
Capacity	6.3 m ³ / 8.25 yds ³
Capacity with extensions	10.2 m ³ / 13.3 yds ³
Rear loading height	3.49 m / 11' 5"
Rear loading height (door lowered)	3.09 m / 10' 1"
Feed conveyor	
Belt width	1200 mm / 47"
Drive	Hydraulic variable speed
Metal detector type	Bridge coil
Crusher	
Cone	Sandvik CH440 cone
Speed	327 rpm to 346 rpm
Max feed size	250 mm / 9.8"
CSS range	4 - 48 mm / 0.3" - 1.8" *
Drive	Wet clutch with PTO
Main conveyor	
Belt width	1200 mm / 47"
Discharge height	3.73 m / 12' 3"
Hanging screen	
Model - HS311	4 x 1.5 m / 13' x 5'
Number of decks	1
Number of bearings	2
Operating angle	22°
Minimum mesh size	20 mm / ¾"
Maximum mesh size	75 mm / 3"
Transfer conveyor	
Belt width	500 mm / 20"
Re-circ conveyor	
Belt width	500 mm / 20"
Discharge height	6.06 m / 19' 10"
Fines conveyor	
Belt width	1200 mm / 47"
Discharge height	3.64 m / 11' 11"

Key specifications	QH441HS
Lubrication tank	
Capacity	250 litres / 66 USG
Tracks	
Length (centres)	3.71 m / 12' 2"
Width (shoe)	500 mm / 20"
Control	Radio / Umbilical
Power pack	
Engine	CAT C13 Stage 5 / T4F 340 kW / 456 hp CAT C13 T3 328 kW / 440 hp CAT NR4 (China) 340 kW / 456 hp
Diesel tank size	990 litres / 262 USG
Hydraulic tank size	990 litres / 262 USG
Transport dimensions	
Length	19.26 m / 63' 2"
Width	3.49 m / 11' 5"
Height	3.80 m / 12' 5"
Standard weight	60,206 kg / 132,731 lbs
Operating dimensions	
Closed circuit length	20.20 m / 66' 2"
Closed circuit width	3.93 m / 12' 10"
Closed circuit height	6.10 m / 20'
Open circuit length	20.20 m / 66' 2"
Open circuit width	12.79 m / 41' 9"
Open circuit height	6.06 m / 19' 9"
Performance	
Max feed size	250 mm / 9.8"
Capacity (up to)	388 tph / 435 stph *
Travel speed	0 - 1.3 km/h / 0 - 0.8 mph
Max incline / Side to side	20° / 10°
Note. All weights and dimensions are for standard units only	

Standard specification

- Feed hopper with wear resistant liner
- Folding hopper extensions for rear loading
- Main conveyor complete with dust covers
- Tool kit
- Light mast and cabinet lights
- Pull stop cords
- Camera on crusher feed hopper
- Level sensor on crushing chamber

- Dust suppression spray bars
- Over and under metal detector
- Remote diesel pump
- Radio control tracking, proportional
- Hydraulic water pump
- Hydraulic jacking legs
- My Fleet telematics with 7 year data subscription

* Application specific. Please contact a Sandvik representative for clarification on specifications and options

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