

Sandvik QH443E

Mobile cone crusher

The QH443E is Sandvik's flagship Q-Range electric driven cone plant. It combines the renowned Sandvik CH440 Hydrocone, with Constant Liner Performance (CLP), Hydroset CSS adjustment, Optik™ automation system and My Fleet remote monitoring.

The QH443E has been designed with high performance, safety, sustainability and total cost of ownership in mind.

This unit moves one step closer to bridging the gap between track mobile, wheeled portable and stationary plants, combining electric drives and track mobility together on the one platform.



Key benefits

Reliability

- NEW heavy duty feeder design that's electrically driven, improving overall efficiency and reliability
- Market leading Sandvik CH440 Hydrocone for strength and high performance
- Cone crusher unibody mainframe ensures optimal strength and less maintenance
- All onboard components are electrically driven providing reliability and requiring minimal maintenance
- Premium components selected throughout and FEA analysis on structural parts for durability
- Capable of operating in the most hostile environments

Productivity

- Hydraulic cone Hydroset 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
- Unique Constant Liner Performance (CLP) for extended life of chamber liners, minimizing downtime and cost
- Choice of chambers, throws and settings to optimize crusher for a wide range of applications
- NEW Optik™ intuitive automation system to maximize uptime and boost output
- Connected to Sandvik My Fleet with 7-year data subscription offering 24/7 fleet management, geo-fencing and remote operator support

Cost of ownership

- Low cost per ton due to operation through onboard diesel generator or connection to electrical grid
- Latest generation fuel efficient engines provide maximum performance and cost efficiency
- Well-proportioned fuel tank to maximize intervals between refueling

Safety

- Remote camera viewing the crushing chamber ensures full visibility without accessing the machine
- Remote camera viewing the crushing chamber ensures full visibility without accessing the machine
- 270° 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 high-pressure electric water pump to minimize dust, improving operator and onsite safety
- LED lighting for low ambient conditions

Sustainability

- Main components are electrically driven, improving energy efficiency and reducing the need for hydraulic oil on board
- Choose your preferred energy source - connect to a 3rd party external electricity supply or via the onboard genset using HVO or diesel
- High pressure dust suppression system reduces water consumption and improves overall environmental impact
- Lower environmental impact due to reduced fuel consumption, less operating noise and low emissions
- Latest emissions compliant Stage V engine for reduced emissions

Support

- Extensive global distributor and sales support network
- Operational advice through our process knowledge and expertise

Technical specification

Key specifications	QH443E
Hopper	
Capacity	6 m ³ / 7.85 yds ³
Capacity with extensions	10.2 m ³ / 13.3 yds ³
Rear loading height (std)	3.60 m / 11' 10"
Rear loading height (ext)	3.86 m / 12' 8"
Rear loading height (door lowered)	3.20 m / 10' 6"
Feed conveyor	
Belt width	1200 mm / 47"
Drive	Electric drive
Metal detector	Inductive coil
Main conveyor	
Belt width	1200 mm / 47"
Discharge height	3.74 m / 12' 3"
Drive	Electric
Crusher	
Cone	Sandvik CH440 cone
Speed	325 rpm
Max feed size	250 mm / 10"
CSS range	8 – 48 mm / 5/16" – 1 7/8"
Drive	Electric 220kW

Key specifications	QH443E
Tracks	
Length (centers)	3.71 m / 12' 2"
Width (shoe)	500 mm / 20"
Control	Radio / Umbilical
Drive	Hydraulic
Power pack	
Engine	Volvo D13 Stage V
Stage / Tier	CAT C13B Stage V and Tier 4F
	CAT C13 LRC
Power	340-375 kW / 456-502 hp
Alternator	Mecc Alte 450 kVA
Electric standard	400 V / 110 V / 24V 50 Hz
Hydraulic and tanks	
Diesel tank size	800 litres / 210 USG
Hydraulic tank size	200 litres / 53 USG
Lubrication tank size	250 litres / 66 USG
Transport dimensions	
Length	17.21 m / 56' 6"
Width	3.0 m / 9' 10"
Height	3.80 m / 12' 6"
Standard weight	51,000 kg / 112,436 lbs
Operating dimensions	
Length	16.56 m / 54' 4"
Width	3.32 m / 10' 11"
Height	4.94 m / 16' 2"
Performance	
Capacity (up to)	388 tph / 435 stph *
Travelling speed	Up to 1.3 km/h / 0.8 mph
Max incline / side to side	20° / 10°

Note. All weights and dimensions are for standard units only

Standard specification

- Heavy duty feeder c/w wear resistant liners, electric drive and variable frequency drive
- Sandvik CH440 c/w 200 kW electric drive and softstart, EC liner, B mantle, 36 mm bush setting
- Electric product conveyor c/w dust covers
- Metal detector
- Tool kit
- Light mast and cabinet lights
- Pull stop cords

- Camera on crusher feed hopper
- Level sensor on crushing chamber
- Remote diesel pump
- Radio control tracking, proportional
- High pressure water pump c/w dust suppression spray nozzles
- Optik™ Intuitive user interface
- My Fleet telematics with 7 years subscription

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