

Sandvik QH443E Mobile cone crusher



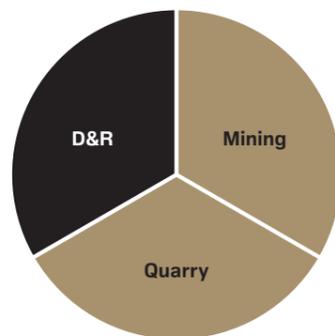
Designed for the future Engineered for productivity



The QH443E is Sandvik's flagship Q-Range electric-driven cone plant, marking the next step in Sandvik's sustainability journey.

This model features an updated tracked platform with a diesel/ electric generator-based drivetrain, Optik™ automation system, My Fleet remote monitoring, and the Sandvik CH440 Hydrocone cone crusher. The CH440 is renowned for its Hydroset CSS adjustment and protection system, as well as its Constant Liner Performance (CLP) technology.

Combining electric drive technology with tracked mobility on a single platform, the QH443E is designed with safety, sustainability, and total cost of ownership in mind. This unit is ideal for secondary or tertiary crushing in aggregate production, quarries, and mines.



Sustainability

Our purpose is to make the shift and advance the world through engineering. We have a unique contribution to make in helping to create a net zero, circular and regenerative world.

The future of rock processing will be net zero with equipment forming part of a circular value chain. Equipment will be powered by fossil-free energy and designed for maximum energy efficiency. Rock processing will be circular and highly productive, enabling customers to extract maximum value from resources from their mining or infrastructure applications, while minimizing waste and energy intensity.

Circularity: More than 90% circular	
Climate: Halve the CO ₂ impact	
Champion people: Zero harm to people	
Play fair: Always do the right thing	



Up to
25%
fuel saving vs previous generation

One platform Endless possibilities

The QH443E takes a significant step towards bridging the gap between tracked mobile, wheeled portable, and stationary plants by combining electric drives and track mobility on a single platform.

It features an onboard genset, an electrically driven crusher, feeder, discharge conveyor, and auxiliaries. This setup allows the QH443E to operate either by connecting to an external electricity supply or via the onboard genset using HVO or diesel.

Using an external supply or grid connection provides further advantages, including significantly lower running costs, extended drivetrain service intervals, minimal onsite emissions, and lower noise levels.

Additionally, the alternator is sized accordingly so that a downstream screening plant could be operated from the plant's onboard genset, simplifying servicing and maintenance an improving overall fuel consumption.

NEW heavy duty feeder design that's electrically driven, improving overall efficiency and reliability

Market leading Sandvik CH440 Hydrocone allows for fine tuning to create optimal material shape, capacity and generate more sellable product

Improved system control with direct feedback to the drive motor for increased throughput and maintenance

Choice of chambers, throws and settings to optimize crusher for a wide range of applications

Dust covers and spray nozzles provided to compliment high pressure electric water pump which consumes less water, improves operator and onsite safety

Under crusher impact bed to protect and prolong belt life

All operation related components are electrically driven

Can be powered by onboard genset or via external electrical power supply

Automation system with Optik™ intuitive user experience

Remote camera viewing the crushing chamber ensures full visibility without the need to access the machine

The alternator is sized accordingly so that a downstream screening plant could be operated from the plant's onboard genset, simplifying servicing and maintenance an improving overall fuel consumption

Up to
388 tph

Up to
78%
reduction in oil usage vs previous generation



QH443E

Cone lubrication

- New hydroset control system designed to maximize material throughput with cone protection at the forefront
- Optimized lubrication system improving efficiency
- Enhanced cold weather heating
- Improved service access

Discharge conveyor

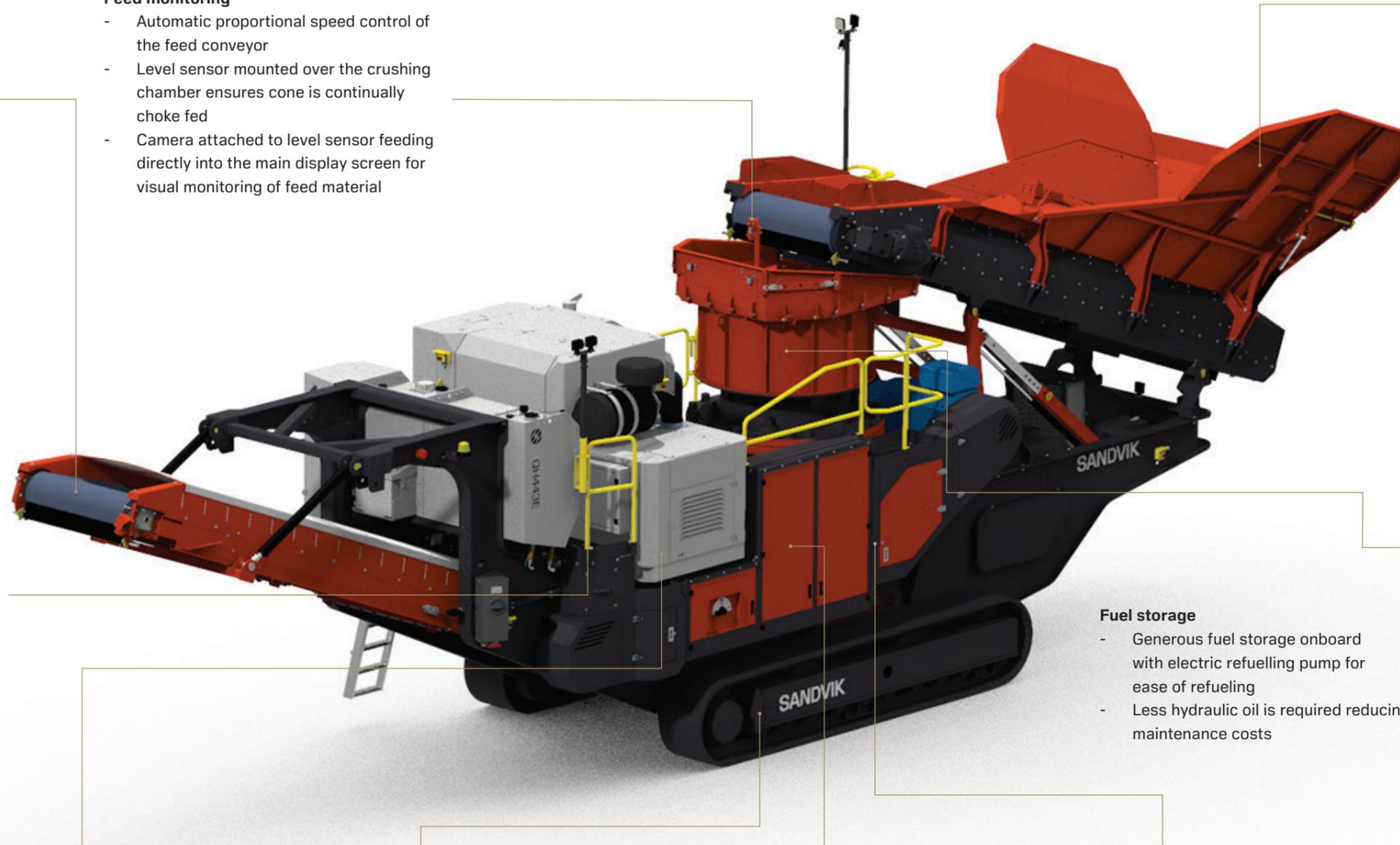
- Heavy duty conveyor with 1200 mm / 47" wide belt and high efficiency electric head drum motor
- Belt speed optimised to maximize component life and reduce maintenance requirements
- Angle adjustable to optimise material drop height at transfer point and for easier servicing
- Maximum discharge height - 3739 mm / 12' 3"
- Dust covers and spray nozzles provided to compliment high pressure electric water pump, consumes less water, improves operator and onsite safety
- Under crusher impact bed to protect and prolong belt life
- Low friction liners positioned along full length of the conveyor to provides a maintenance free, spillage free solution
- Optional belt scale and level sensor

Safety

- Multiple platforms and ladders with self-locking gates for inspection and maintenance
- New maintenance platform giving 270° access around the cone for safe setup and service tasks
- 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
- LED lighting for low ambient conditions
- Remote camera viewing the crushing located at ground level

Feed monitoring

- Automatic proportional speed control of the feed conveyor
- Level sensor mounted over the crushing chamber ensures cone is continually choke fed
- Camera attached to level sensor feeding directly into the main display screen for visual monitoring of feed material



Feeder

- NEW and improved heavy duty feeder design
- 10.2 m³ / 13.3 yds capacity, with wear resistant liners, 1200 mm / 47" belt width
- Impact cradle protects the belt from material impacts
- Hydraulically raised and lowered for transport
- Blade style belt scraper fitted for better cleaning
- Hopper extensions optional
- Heavy duty impact bars in hopper feeding area
- Fitted with under belt style metal detector "inductive detector coil" as standard

Cone crusher

- Sandvik CH440 cone which is a proven design for strength and reliability
- Cone crusher unibody mainframe ensures optimal strength and less maintenance
- Maximum feed size of up to 250 mm / 10" depending on liner option
- Closed side setting CSS range 8 – 48 mm / 5 / 16" – 1, 7/8" depending upon application
- Improved system control with direct feedback to the drive motor for increased throughput and maintenance
- Simple and direct belt adjustment with access from the side and rear of the chassis
- Belt slippage monitoring to protect drive belts
- Choice of chambers, throws and settings to optimize crusher for a wide range of applications

Engine

- Genset with engine fulfilling latest emission norms
- Operate via onboard genset using HVO or diesel, or connect to a 3rd party external supply
- Low fuel consumption
- Excellent all-round engine serviceability

Chassis

- F.E.A. optimized heavy duty chassis frame for easy transportation and durable operation
- Hydraulically driven crawler tracks for full site mobility

Power

- All operation related components are electrically driven
- Powered by onboard genset or via external electrical power supply
- 125A electrical outlet for powering a downstream plant

Connectivity

- Automation system with Optik™ intuitive user experience
- Remote camera positioned above crusher, displayed on main user interface screen

Fuel storage

- Generous fuel storage onboard with electric refuelling pump for ease of refueling
- Less hydraulic oil is required reducing maintenance costs

Connectivity

Intuitive control: Optik™ intuitive user experience, simplified operation controls and total integration with My Fleet telematics solution.

- **Maximize uptime:** Real time information
- **Optimize decision making:** Accurate data collection
- **Boost output:** Diagnostic assistance
- **Enhance troubleshooting:** Pre-installed guides
- **Easy navigation:** User-friendly dashboard



7 year data subscription

My Fleet

Get in-depth insights into your connected crusher with Sandvik My Fleet. It is the smart, intelligent way of monitoring crusher behavior and using that information to optimize and improve business performance. Now you can make informed business decisions using accurate, reliable data.

Connected to Sandvik My Fleet with 7-year data subscription. Benefits include 24/7 fleet management, geo-fencing, and remote operator support.



Aftermarket offering

Regular and efficient maintenance is vital to your productivity but in the event of an unexpected breakdown, you need to have the replacement parts available to hand immediately to avoid any unnecessary downtime. Our new packages will ensure that you have all the relevant parts and consumables in stock giving you peace of mind.

The kits are designed around “best practice” repair and replace, and include all items required for professional repair, removing the concern of secondary failure. Each kit is available individually to allow selection on our portal that best suits each customer’s needs. No two applications are the same, so having this flexibility to select the type and package quantity to suit individual needs is crucial to delivering optimum performance and support.

- 01  **Maintenance package**
Faster wearing items.
- 02  **Repair package**
Slower moving items where high usage is not expected.
- 03  **Overhaul package**
Items which we would not expect to be required under standard operating conditions.
- 04  **Endurance package**
Selection of packages which can be tailored to specific customer’s needs for high hour operations, to maximize uptime and performance.



Transportation dimensions



Transport dimensions	
Height	3.80 m / 12' 6"
Width	3.0 m / 9' 10"
Length	17.21 m / 56' 6"
Weight	51,000 kg / 112,436 lbs

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