

Sandvik QH44 I cone crusher

Technical specification sheet



The QH441 is a tracked, self contained cone crusher with an on board diesel engine.

- The chassis is constructed from a 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 to ensure maximum production, reduction and shape.
- Remote camera viewing the crushing chamber ensures full visibility without the need to access the crusher.
- Fitted with four jacking legs for additional stability during operation and to assist with maintenance.
- 13 litre diesel engine with direct drive to ensure maximum power delivery and fuel efficiency.
- The machine is designed for ease of mobility, for rapid set up time and transportation.
- The QH441 is fitted with the CH440 Sandvik cone which has a choice of six concaves and a CSS range of 8mm to 48mm allowing a feed size of up to 215mm
- Capable of up to 388 TPH.
- 8 available bush settings to give an eccentric throw range from 16mm to 44mm.
- Capable of operating in the most hostile environments with a 50°C ambient temperature capability with just a lubrication oil change.
- This flexibility makes the Sandvik cone crusher one of the most versatile tracked machines on the market to suit the most arduous application requirements.

Technical specifications

	QH441
Feed 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	3884mm / 12' 6 1/2"
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	82.6cc / 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 / 1/4, 1/8*, 1/2, 1/4"
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 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
 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

	QH441
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	624cc / 38.1 cu inch
Tracks	
Length (Centres)	3715 mm / 12' 2"
Width (Shoe)	500 mm / 19 3/4"
Drive	Hydraulic/Gearbox
Control	Radio/Umbilical
Powerpack	
Engine	Stage 3A / Tier 3 CAT C13 Acert or Stage 3B / Tier 4i CAT C13 Acert
Engine Power	328 kW / 440 hp
Diesel Tank Capacity	990 litres / 262 US Gal
Hyd Tank Capacity	990 litres / 262 US Gal
General Tech Data	
Transport Dimensions	
Length	17.21 m / 56' 5 5/8"
Width	2.95 m / 9' 8 1/2"
Height	3.8 m / 12' 5 1/2"
Cubic Volume	193 m ³ / 6826 ft ³
Transport Weight	50,080 kg / 110,407 lbs
Operating Dimensions	
Length	16.56 m / 54' 4"
Width	3.32 m / 10' 10 1/2"
Height	4.91 m / 16' 1"
Operating Weight	50,080 kg / 110,407 lbs
Performance	
Max Feed Size	215mm / 8 1/2"
Capacity (up to)	388 tph / 435 stph
Travel Speed	0 - 1.3 km/h / 0 - 0.8 mph
Max Incline	20°
Max Incline (Side to Side)	10°

Note. All weights and dimensions are for standard units only (full diesel tank)

Remote diesel pump (electric)
 Pull stop cords on the main conveyor
 Water pump (hydraulic)
 Overband magnet
 Engine filter kit - 250 hours (air and oil filters - for 3A engines only)
 Plant and engine filter kit - 500 hours (3A engine)
 Plant and engine filter kit - 500 hours (3B engine)
 Intelligent line multi-machine communication
 Tool box and contents
 Head drum guard on the main conveyor only
 Main conveyor underguards, head drum guard and additional side and rear guards (blue chip guarding)

The units depicted show all options currently available, and the colour scheme reflects the eventual scheme to be used. Current models may differ from those featured in this brochure. Please contact Sandvik to clarify specification and options. The material in this brochure is of general application for information and guidance only, and no representation or warranty is made or given by the manufacturer that its products will be suitable for a customer's particular purpose and enquiry should always be made of the manufacturer to ensure such suitability. Whilst reasonable efforts have been made in the preparation of this document to ensure its accuracy, the manufacturer assumes no liability resulting from errors or omissions in this document, or from the use or interpretation of the information contained herein. The manufacturer reserves the right to make changes to the information in this brochure and the product design without reservation and without notification to users.

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