Sandvik QH441 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 thecrushing 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

Feed HopperNominal Capacity6.3 m³ / 8.25 yds³Nominal Capacity with Extensions10.2 m³ / 13.3 yds³Rear Loading Height3900 mm / 10° 1 ½°Rear Loading Height (door lowered)3980 mm / 12° 6 ½°Rear Loading Height with Extensions2630 mm / 8° 7 ½°Rear Loading Width with Extensions2630 mm / 8° 7 ½°Wear Resistant Hopper Lines I 10 mm / %°10 mm / %°Belt Length13150 mm / 43° 2°Incline Angle22°Drive1000 Nm / 5900 lbs/ftGearbox311Torque8000 Nm / 5900 lbs/ftHoad Drum Diameter265 cm / 10 ½°Motor26.6c / 5.04 cu inchMotor81.6g ColiMotor21.5 mm / 8 ½°Stender21.5 mm / 8 ½°Stender21.5 mm / 8 ½°Stender21.5 mm / 8 ½°Stender21.5 mm / 8 ½°Motor21.5 mm / 8 ½°Motor21.5 mm / 8 ½°Stender21.5 mm / 8 ½°Stender21.5 mm / 8 ½°Stender21.5 mm / 8 ½°Stender21.5 mm /		QH441
Nominal Capacity with Extensions10.2 m³ / 13.3 yds³Rear Loading Height3490 mm / 11' 5 ½"Rear Loading Height (door lowered)3090 mm / 10' 1 ½"Rear Loading Height (door lowered)3884mm / 12' 6 ½"Rear Loading Withh2630 mm / 8' 7 ½"Rear Loading Withh with Extensions3822 mm / 12' 6 ½"Rear Loading With with Extensions3822 mm / 12' 6 ½"Feed Conveyor10 mm / 3"Feed Conveyor10 mm / 3"Wear Resistant Hopper Liners10 mm / 3"Belt Width1200 mm / 47"Belt Length13150 mm / 43 2"Incline Angle22"DriveHydraulic variable speedGearbox31:1Torque8000 Nm / 5900 los/ftHead Drum Diameter371 mm / 14 ½"Tail Drum Diameter265 mm / 10 ½"Motor8.26c / 5.04 cu inchMetal Detector TypeSaddvik CH440Speed327 pm to 346 rpmFued Opening215 mm / 8½"Std Chamber KitECChamber OptionsF-MF-M-MC-CStd Bush Settings3.38*,40,44 mm / 1¼, 1½, 1½, 1½Drive Belts0.520% right BeltsDrive Belts0.50% right BeltsDrive Belts0.50% right BeltsCusher Weight10 SPC Single BeltsCusher Weight50% litres / 66 US GalFixed Displacement Flow MeterYes	Feed Hopper	
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Capacity 250 litres / 66 US Gal Fixed Displacement Flow Meter Yes	Crusher Weight	14,300 kg / 31,526 lbs
Fixed Displacement Flow Meter Yes	Lubrication Tank	
	Capacity	250 litres / 66 US Gal
Hyd Driven Oil Cooler Yes	Fixed Displacement Flow Meter	Yes
	Hyd Driven Oil Cooler	Yes

QH441Main ConveyorBelt Width1200 mm / 47"Belt Length21600 mm / 70' 10"Discharge Height3739 mm / 12' 3 ¼"Head Drum Diameter371 mm / 14 ¼"Tail Drum Diameter265 mm / 10 ½"DriveHydraulicMotor cc624cc / 38.1 cu inchTarcks"Utdth (Shoe)3715 mm / 12' 2"Width (Shoe)500 mm / 19 ¾"DriveHydraulic/GearboxControlRadio/UmbilicalPowerpack"Engine Power328 kW / 440 hpDiesel Tank Capacity990 litres / 262 US GalHight12.21 m / 56 5\%"Yidth295 m / 98 \%"Height3.8 m / 12' 5 \%"Uidti Volume193 m³ / 6826 ft"Transport Dimensions"Height3.8 m / 12' 5 \%"Uidti Volume3.008 kg / 110,407 lbsHeight3.22 m / 10' 10 \%"Height3.22 m / 10' 10 \%"He		
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Discharge Height 3739 mm / 12' 3 ¼" Head Drum Diameter 371 mm / 14 ¼" Tail Drum Diameter 265 mm / 10 ¼" Drive Hydraulic Motor cc 624cc / 38.1 cu inch Tarcks	Belt Width	1200 mm / 47"
Head Drum Diameter371 mm / 14 ½"Tail Drum Diameter265 mm / 10 ½"DriveHydraulicMotor cc624cc / 38.1 cu inchTacksLength (Centres)3715 mm / 12' 2"Width (Shoe)500 mm / 19 ½"DriveHydraulic/GearboxControlRadio/UmbilicalPowerpackEngine328 kW / 440 hpDiesel Tank Capacity990 litres / 262 US GalHydra Tank Capacity990 litres / 262 US GalHeight17.21 m / 56' 5 %"Width2.95 m / 9 8 ½"Height3.8 m / 12' 5 ½"Cubic Volume193 m³ / 6826 ft³Transport DimensionsUtick Volume16.56 m / 54' 4"Width3.22 m / 10' 10 ½"Height4.91 m / 16' 1"Operating DimensionsLength16.56 m / 54' 4"Width3.22 m / 10' 10 ½"Height3.81 m / 12' 5 ½"Cubic Volume3.00 kg / 110,407 lbsDerating DimensionsMax Feed Size215mm / 8 ½"Height4.91 m / 16' 1"Cupacity Up loj388 kp / 435 stphTravel Speed0-1.3 km/ / 0-0.8 mphTravel Speed02"	Belt Length	21600 mm / 70' 10"
Tail Drum Diameter265 mm / 10 ½"DriveHydraulicMotor cc624cc / 38.1 cu inchMotor cc624cc / 38.1 cu inchTracksLength (Centres)3715 mm / 12' 2"Width (Shoe)500 mm / 19 ¾"DriveHydraulic/GearboxControlRadio/UmbilicalPowerpackEngine328 kW / 440 hpDiesel Tank Capacity990 litres / 262 US GalHydra Sage 38 / Tier 4i CAT C13 Acert or Stage 38 / Tier 4i	Discharge Height	3739 mm / 12' 3 ¼"
DriveHydraulicMotor cc624cc / 38.1 cu inchMotor cc624cc / 38.1 cu inchTracksLength (Centres)3715 mm / 12° 2"Width (Shoe)500 mm / 19 %"DriveHydraulic/GearboxControlRadio/UmbilicalPowerpackEngineStage 3A / Tier 3 CAT C13 Acert or Stage 3B / Tier 41 CAT C13 AcertFingine Power328 kW / 440 hpDiesel Tank Capacity990 litres / 262 US GalHydTank Capacity990 litres / 262 US GalHugth17.21 m / 56' 5 %"Kidth2.95 m / 9' 8 ½"Height3.8 m / 12' 5 ½"Cubic Volume13 m³ / 6826 ft³Transport Weight50.080 kg / 110,407 lbsOperating DimensionsLength16.56 m / 54 4"Width3.32 m / 10' 10 ½"Height50,080 kg / 110,407 lbsMidth50,080 kg / 110,407 lbsMidth3.32 m / 10' 10 ½"Height50,080 kg / 110,407 lbsMax Feed Size215mm / 8 ½"Capacity (up to)38 tbh / 435 stphTravel Speed0-1.3 km/h / 0-0.8 mphMax Incline20"	Head Drum Diameter	371 mm / 14 ½"
Motor cc624cc / 38.1 cu inchTracksLength (Centres)3715 mm / 12' 2"Width (Shoe)500 mm / 19 ¾"DriveHydraulic/GearboxControlRadio/UmbilicalPowerpackEngineStage 3A / Tier 3 CAT C13 Acert or Stage 3B / Tier 4i CAT C13 Acert or St	Tail Drum Diameter	265 mm / 10 ½"
TracksLength (Centres)3715 mm / 12' 2"Width (Shoe)500 mm / 19 ¾"DriveHydraulic/GearboxControlRadio/UmbilicalPowerpackFingineStage 3A / Tier 3 CAT C13 Acert or Stage 3B / Tier 4I CAT C13 AcertEngine Power328 kW / 440 hpDiesel Tank Capacity990 litres / 262 US GalHyd Tank Capacity990 litres / 262 US GalHeight17.21 m / 56' 5 ⅓"Length17.21 m / 56' 5 ⅓"Width2.95 m / 9' 8 ½"Height3.8 m / 12' 5 ½"Cubic Volume19.3 m³ / 6826 ft³Transport Weight50,080 kg / 110,407 lbsOperating DimensionsLength16.56 m / 54' 4"Width3.32 m / 10' 10 ½"Height50,080 kg / 110,407 lbsPerformanceMax Feed Size215mm / 8 ½"Capacity (up to)388 tph / 435 stphTravel Speed0- 1.3 km/h / 0 - 0.8 mphMax Incline20"	Drive	Hydraulic
Length (Centres)3715 mm / 12' 2"Width (Shoe)500 mm / 19 ¾"DriveHydraulic/GearboxControlRadio/UmbilicalPowerpackEngineStage 3A / Tier 3 CAT C13 Acert or Stage 3B / Tier 4i CAT C13 AcertEngine Power328 kW / 440 hpDiesel Tank Capacity990 litres / 262 US GalHyd Tank Capacity990 litres / 262 US GalHeight17.21 m / 56' 5 ¼"Length17.21 m / 56' 5 ¼"Vidth2.95 m / 9' 8 ½"Length193 m³ / 6826 ft³Transport DimensionsLength16.56 m / 54' 4"Width3.32 m / 10' 10 ½"Height3.32 m / 10' 10 ½"Height4.91 m / 16' 1"Operating DimensionsHeight50,080 kg / 110,407 lbsDerating DimensionsLength16.56 m / 54' 4"Width3.32 m / 10' 10 ½"Height4.91 m / 16' 1"Operating Weight50,808 kg / 110,407 lbsPerformanceMax Feed Size215mm / 8½"Capacity (up to)388 tph / 435 stphTravel Speed0 - 1.3 km/h / 0 - 0.8 mphMax Incline20°	Motor cc	624cc / 38.1 cu inch
Width (Shoe)500 mm / 19 ¾"Width (Shoe)Hydraulic/GearboxControlRadio/UmbilicalPowerpackIEngineStage 3A / Tier 3 CAT C13 Acert or Stage 3B / Tier 4i CAT C13 AcertEngine Power328 kW / 440 hpDiesel Tank Capacity990 litres / 262 US GalHyd Tank Capacity990 litres / 262 US GalGeneral Tech DataITransport DimensionsILength17.21 m / 56' 5 %"Width2.95 m / 9' 8 ½"Ubic Volume193 m³ / 6826 ft³Transport Weight50,080 kg / 110,407 lbsOperating DimensionsILength1.656 m / 54' 4"Width3.32 m / 10' 10 ½"Height3.21 m / 16' 1"Operating Weight50,080 kg / 110,407 lbsPerformanceIMax Feed Size215mm / 8 ½"Capacity (up to)388 tph / 435 stphTravel Speed0 - 1.3 km/h / 0 - 0.8 mphMax Incline20°	Tracks	
DriveHydraulic/GearboxControlRadio/UmbilicalPowerpackEngineStage 3A / Tier 3 CAT C13 Acert or Stage 3B / Tier 4i CAT C13 AcertEngine Power328 kW / 440 hpDiesel Tank Capacity990 litres / 262 US GalHyd Tank Capacity990 litres / 262 US GalHyd Tank Capacity990 litres / 262 US GalGeneral Tech DataTransport Dimensions17.21 m / 56' 5 ¼°Length17.21 m / 56' 5 ¼°Width2.95 m / 9' 8 ½°Cubic Volume193 m³ / 6826 ft³Transport Weight50,080 kg / 110,407 lbsDerating DimensionsLength16.56 m / 54' 4°Vidth3.32 m / 10' 10 ½°Height3.91 m / 16' 1°Operating Weight50,080 kg / 110,407 lbsPartorng Weight50,080 kg / 110,407 lbsMax Feed Size215mm / 8 ½°Capacity (up to)388 tph / 435 stphTravel Speed0 - 1.3 km/h / 0 - 0.8 mphMax Incline20°	Length (Centres)	3715 mm / 12' 2"
ControlRadio/UmbilicalPowerpackRadio/UmbilicalPowerpackStage 3A / Tier 3 CAT C13 Acert or Stage 3B / Tier 41 CAT C13 Acert or Stage 3D / Tier 41 CAT C13 Acert	Width (Shoe)	500 mm / 19 ¾"
PowerpackImage: stage 3A / Tier 3 CAT C13 Acert or Stage 3B / Tier 4i CAT C13	Drive	Hydraulic/Gearbox
EngineStage 3A / Tier 3 CAT C13 Acert or Stage 3B / Tier 4i CAT C13 AcertEngine Power328 kW / 440 hpDiesel Tank Capacity990 litres / 262 US GalHyd Tank Capacity990 litres / 262 US GalGeneral Tech Data	Control	Radio/Umbilical
Stage 3B / Tier 4i CAT C13 AcertEngine Power328 kW / 440 hpDiesel Tank Capacity990 litres / 262 US GalHyd Tank Capacity990 litres / 262 US GalGeneral Tech Data	Powerpack	
Diesel Tank Capacity990 litres / 262 US GalHyd Tank Capacity990 litres / 262 US GalGeneral Tech Data	Engine	Stage 3A / Tier 3 CAT C13 Acert or Stage 3B / Tier 4i CAT C13 Acert
Hyd Tank Capacity990 litres / 262 US GalGeneral Tech Data	Engine Power	328 kW / 440 hp
General Tech DataITransport DimensionsILength17.21 m / 56' 5 %"Width2.95 m / 9' 8 ½"Height3.8 m / 12' 5 ½"Cubic Volume193 m³ / 6826 ft³Transport Weight50,080 kg / 110,407 lbsDerating DimensionsIVidth3.32 m / 10' 10 ½"Height3.32 m / 10' 10 ½"Operating Weight50,080 kg / 110,407 lbsOperating Weight3.32 m / 10' 10 ½"Height4.91 m / 16' 1"Operating Weight50,080 kg / 110,407 lbsParformanceIMax Feed Size215mm / 8 ½"Capacity (up to)388 tp / 435 stphTravel Speed0 - 1.3 km/h / 0 - 0.8 mphMax Incline20°	Diesel Tank Capacity	990 litres / 262 US Gal
Transport Dimensions Image: Figure Figu	Hyd Tank Capacity	990 litres / 262 US Gal
Length 17.21 m / 56' 5 %" Width 2.95 m / 9' 8 ½" Height 3.8 m / 12' 5 ½" Cubic Volume 193 m³ / 6826 ft³ Transport Weight 50,080 kg / 110,407 lbs Operating Dimensions	General Tech Data	
Width 2.95 m / 9' 8 ½" Height 3.8 m / 12' 5 ½" Cubic Volume 193 m³ / 6826 ft³ Transport Weight 50,080 kg / 110,407 lbs Operating Dimensions	Transport Dimensions	
Height 3.8 m / 12' 5 ½" Cubic Volume 193 m³ / 6826 ft³ Transport Weight 50,080 kg / 110,407 lbs Operating Dimensions	Length	17.21 m / 56' 5 ⁵ /8"
Cubic Volume 193 m³ / 6826 ft³ Transport Weight 50,080 kg / 110,407 lbs Operating Dimensions	Width	2.95 m / 9' 8 ½"
Transport Weight 50,080 kg / 110,407 lbs Operating Dimensions Length 16.56 m / 54' 4" Width 3.32 m / 10' 10 ½" Width 3.32 m / 10' 10 ½" Height 4.91 m / 16' 1" Operating Weight 50,080 kg / 110,407 lbs Performance Max Feed Size 215mm / 8 ½" Capacity (up to) 388 tph / 435 stph Travel Speed 0 - 1.3 km/h / 0 - 0.8 mph Max Incline 20°	Height	3.8 m / 12' 5 ½"
Operating Dimensions Composition Length 16.56 m / 54' 4" Width 3.32 m / 10' 10 ½" Height 4.91 m / 16' 1" Operating Weight 50,080 kg / 110,407 lbs Performance 215mm / 8 ½" Capacity (up to) 388 tph / 435 stph Travel Speed 0 - 1.3 km/h / 0 - 0.8 mph Max Incline 20°	Cubic Volume	193 m³ / 6826 ft³
Length 16.56 m / 54' 4" Width 3.32 m / 10' 10 ½" Height 4.91 m / 16' 1" Operating Weight 50,080 kg / 110,407 lbs Performance 1000000000000000000000000000000000000	Transport Weight	50,080 kg / 110,407 lbs
Width 3.32 m / 10' 10 ½" Height 4.91 m / 16' 1" Operating Weight 50,080 kg / 110,407 lbs Performance 1000 kg / 110,407 lbs Max Feed Size 215mm / 8 ½" Capacity (up to) 388 tph / 435 stph Travel Speed 0 - 1.3 km/h / 0 - 0.8 mph Max Incline 20°	Operating Dimensions	
Height 4.91 m / 16' 1" Operating Weight 50,080 kg / 110,407 lbs Performance	Length	16.56 m / 54' 4"
Operating Weight 50,080 kg / 110,407 lbs Performance 215mm / 8 ½" Max Feed Size 215mm / 8 ½" Capacity (up to) 388 tph / 435 stph Travel Speed 0 - 1.3 km/h / 0 - 0.8 mph Max Incline 20°	Width	3.32 m / 10' 10 ½"
PerformanceMax Feed Size215mm / 8 ½"Capacity (up to)388 tph / 435 stphTravel Speed0 - 1.3 km/h / 0 - 0.8 mphMax Incline20°	Height	4.91 m / 16' 1"
Max Feed Size 215mm / 8 ½" Capacity (up to) 388 tph / 435 stph Travel Speed 0 - 1.3 km/h / 0 - 0.8 mph Max Incline 20°	Operating Weight	50,080 kg / 110,407 lbs
Capacity (up to)388 tph / 435 stphTravel Speed0 - 1.3 km/h / 0 - 0.8 mphMax Incline20°	Performance	
Travel Speed 0 - 1.3 km/h / 0 - 0.8 mph Max Incline 20°	Max Feed Size	215mm / 8 1⁄2"
Max Incline 20°	Capacity (up to)	388 tph / 435 stph
	Travel Speed	0 - 1.3 km/h / 0 - 0.8 mph
Max Incline (Side to Side) 10°	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 (3A 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)

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

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 The units deploced show an option's on entry available, and the control scheme relation to the deploced only, and one representation on varianty is made or given by the manufacturer is of general application for information and guidance only, and one representation or varianty is made or given by the manufacturer that its products dative 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 is accuracy. The mature is no liability resulting from errors or omissions in this document, or from the use or interpretation or other 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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SANDVIK CONSTRUCTION MOBILE CRUSHERS AND SCREENS LTD HEARTHCOTE ROAD SWADLINCOTE DERBYSHIRE DEII 9DU ENGLAND TEL +44 (0)1283 212121 FAX +44 (0) 1283 217342 info.mobilecs@sandvik.com www.sandvikmobiles.com