

Sandvik QS44 I cone crusher

Technical specification sheet



The QS441 is a tracked, self contained cone crusher with an on board diesel engine. Featuring the world leading CS440 Sandvik cone crusher the QS441 is capable of accepting large feed sizes and achieving exceptional throughput combined with high product quality. It is equipped with a hydroset system which provides both safety and setting adjustment functions. The automatic setting regulation system not only optimizes production, it also keeps track of liner wear, thus making it easy to plan liner changes and minimize interruptions in production. The QS441 represents the perfect combination of advanced cone crusher technology and tracked mobility. Features include -

- The chassis is constructed from heavy duty 'I' beam to ensure maximum durability
- The machine is designed for ease of mobility, for rapid set up time and transportation
- Heavy duty, hydraulically positioned feed conveyor with wear resistant liners
- Up and over metal detector to provide ultimate cone protection from tramp metal
- Automated variable speed feed conveyor via a level sensor to ensure maximum production and reduction of the material
- Hydraulically driven, variable speed cooling fan for maximum efficiency and auto reverse facility to back flush dust from the radiator
- Direct drive through a PT Tech wet clutch with ten SPC drive belts to ensure maximum fuel efficiency and power delivery
- Fitted with four jacking legs to provide a level operating platform and stability
- The CS440 cone has choice of three concaves and four eccentric settings from a single bush ranging from 20mm to 36mm
- The concave and bush settings give unrivalled flexibility regarding CSS ranges, production and material gradation
- Maximum feed size up to 450mm and capable of up to 600 tph on the larger bush setting
- Can operate in the most hostile environments with a 50°C ambient capability
- Superb access around the crusher for easy maintenance, especially during liner changes
- Remote camera viewing the crushing chamber enables the operator to set up and ensure a choke feed on the crusher from ground level
- Hydraulic driven hydraulic and lubrication coolers to deal with the most arduous conditions

Technical specifications

	QS441
Feed Hopper	
Nominal Capacity	6.3 m ³ / 8.25 ³ yds
Nominal Capacity With Extensions	10.2 m ³ / 13.3 yds ³
Rear Loading Height std	3547mm / 11' 7 1/2"
With Rear Door Lowered	3162mm / 10' 4 1/2"
With Extensions	3969mm / 13' 0 1/2"
Rear Loading Width	2630mm 8' 7 1/2"
Rear Loading Width With Extensions	3822mm / 12' 6 1/2"
Feed Conveyor	
Hopper Thickness	10mm / 3/8"
Hopper Liner Thickness	10mm / 3/8"
Belt Width	1200mm / 47"
Belt Length	13,150mm / 43' 2"
Incline Angle	22°
Drive	Hydraulic Variable Speed
Gearbox	31:1
Torque	8000 Nm / 5900 lbs/ft
Head Drum Diameter	371mm / 14 1/2"
Tail Drum Diameter	265mm / 10 1/2"
Motor	82.6cc / 5.04 Cu Inch
Metal Detector Type	Bridge Coil
Crusher	
Type	Sandvik CS440
Speed	289 rpm to 305 rpm
Feed Opening	up to 450mm / 17 3/4"
CSS Range	25mm - 51mm / 1"- 2"
Standard Chamber Kit	Medium Coarse
Standard Bush Settings	20, 25, 30*, 36 3/4 / 1, 1 1/4*, 1 1/2
Drive	PT Tech 14" Wet Clutch
Drive Belts	10 off SPC Single Belts
Crusher Weight	19,300kg / 42,549 lbs
Lubrication Tank	
Capacity	250 Litres / 66 US Gallon
Fixed Displacement Flow Meter	Yes
Hydraulic Driven Cooler	Yes

Options

Coarse and Extra Coarse 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
 Tool Box And Contents
 Remote Diesel Pump (electric)

	QS441
Main Conveyor	
Belt Width	1200mm / 47"
Belt Length	21,600mm / 70' 10"
Discharge Height	3739mm 12' 3 1/4"
Head Drum Diameter	371mm / 14 1/2"
Tail Drum Diameter	265mm / 10 1/2"
Drive	Hydraulic
Motor	624cc / 38.1 cu inch
Tracks	
Length (Centres)	3715mm / 12' 2"
Width (Shoe)	500mm / 19 3/4"
Drive	Hydraulic / Gearbox
Control (proportional)	Radio / Umbilical
Travel Speed	0-1.3 km/h / 0-0.8 mph
Max Incline	20°
Max Incline (side to side)	10°
Powerpack	
Engines	Stage 3A / Tier 3 Cat C13 Acert Stage 3B / Tier 4i Cat C13 Acert
Engine Power	328 kW / 440 hp
Diesel Tank Capacity	990 Litres / 262 US Gallon
Hydraulic Tank Capacity	990 Litres / 262 US Gallon
Transport Dimensions	
Length	17.47m / 57' 4"
Width	2.95m / 9' 8 1/2"
Height	4.0m / 13' 1 1/2"
Cubic Volume	206 m ³ / 7285 ft ³
Transport Weight	55,753 kg / 122,914 lbs
Operation Dimensions	
Length	16.78m / 55' 1/2"
Width	3.32m / 10' 10 1/2"
Height	5.05m / 16' 7"
Operation Weight	55,753 kg / 122,914 lbs
Performance	
Max Feed Size	450mm / 17 3/4"
Capacity (up to)	600 tph / 661 stph

* Standard

Note. All weights and dimensions are for standard units only with full diesel tanks

Pull Stop Cords On The Main Conveyor

Water Pump (hydraulic)

Overband Magnet

Engine Filter Kit 250 - hours (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

Head drum Guard On The Main Conveyor only

Main Conveyor Underguards, Head drum Guard and additional Side and Rear Guards

(Blue chip guarding)

Radio remote control

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.

SANDVIK CONSTRUCTION MOBILE CRUSHERS AND SCREENS LTD
 HEARTH COTE ROAD SWADLINCOTE DERBYSHIRE DE11 9DU ENGLAND
 TEL +44 (0)1283 212121 FAX +44 (0) 1283 217342 info.mobilecs@sandvik.com www.sandvikmobiles.com

