

UH440i cone crusher unit

Technical specification sheet



The UH440i is a heavy-duty cone crusher built using the latest technology which has proven capable of operating in the toughest climatic conditions. Featuring the market leading Sandvik CH440 cone crusher it comes with a choice of mantles and settings which make it suitable for a wide range of applications worldwide.

Trouble free and optimal production is ensured by on board high level Intelligence together with ASRi which comes as standard. Other features include:

- Material level in the crusher is optimised at all times by an inbuilt monitoring system. This adjusts the feed conveyor speed and feed from the primary unit.
- Feed conveyor is hydraulically manoeuvred to and from its working position. The input area of the feed conveyor has a 6m³ (212 cubic feet) large rubber lined (with Sandvik modular wear protection) feed hopper and is designed for feeding directly from a front loader, or from a primary crusher. The conveyor belt is protected by a steel structure in the hopper, which is enhanced by impact bars that absorb the shock from loading and extends belt life.
- Wireless communication with Sandvik UJ440i primary unit in combination with optional sonar at the unit's discharge conveyor.
- Metal detector located before crusher.
- It is possible to position the material drop point from the feed conveyor into the crusher via (radio) remote.
- Water spray units situated at discharge conveyor and over the crusher.
- Unit is fitted with an engine and crusher lubrication oil pre-heater as standard.
- Platforms are located around the crusher and power pack in order to provide easy access for service and maintenance.
- Radio remote control fitted as standard.
- Sensors are located at strategic locations to ensure a trouble free operation and safe guard against costly breakdowns.
- Emergency stop buttons are located throughout the machine.
- The UH440i is easily transported in one piece, with all components remaining on board.
- No oil spillage during filter changes due to vacuumised hydraulic system and dust suppression systems.

Technical specifications

	Sandvik UH440i
Feed Hopper	
Nominal Capacity	6 m ³ / 7.85 yds ³
Rear Loading Height	3334mm / 10' 11"
Rear Loading Height (door lowered)	3136mm / 10' 3½"
Rear Loading Width	2930mm / 9' 7½"
Feed Conveyor	
Hopper Wall Thickness	6mm / ¼"
Sandvik High Impact Rubber Liners	Std
Belt Width	1200mm / 47"
Belt Length	14,220mm / 46' 8"
Conveyor Incline Angle	20°
Drive Type	Hyd - Variable Speed
Gearbox Ratio	65.7:1
Drive Torque	9700 Nm (max) / 7154 lbs ft
Head Drum Diameter	410mm / 16"
Tail Drum Diameter	400mm / 15 ½"
Motor Size	44.3cc / 2.70 cu inch
Metal Detector Type	Bridge Coil
Crusher	
Type	Sandvik CH440 Cone
Speed	320 rpm
Feed Opening	215mm / 8½"
CSS Range	8 - 48mm / 5/16" - 1¾"
Chamber Control	Sandvik Hydroset System (ASRI)
Std Chamber Kit	EC
Chamber Options	F-MF-M-MC-C
Std Bush Settings	32, 36, 40, 44mm / 1¼, 1½, 1½, 1¾"
Drive	21 KPTO Fluid Coupling
Drive Belts	8 off SPC 7500
Crusher Weight	13,700 kg / 30,203 lbs
Lubrication Tank	
Capacity	245 litres / 64.7 US Gal
Fixed Displacement Flow Meter	Yes
Hyd Driven Oil Cooler	Yes

Options

Dust Filter System
 Belt Scale on Main Conveyor
 Belt Scale on Fines Conveyor (Hanging Screen only)
 King Pin for Dolly
 Block Heating for Engine
 Adaption for UK Mines and Quarries
 Pressure Gauges and O Ring Set

	Sandvik UH440i
Main Conveyor	
Belt Width	1400mm / 4' 7"
Belt Length	23,550mm / 77' 3"
Discharge Height	4046mm / 13' 3"
Head Drum Dia	340mm / 13 ½"
Tail Drum Dia	250mm / 10"
Drive	Hyd
Motor cc	750 cc / 45.7 cu inch
Tracks	
Length (Centres)	4170mm / 13' 8"
Width (Shoe)	500mm / 19 ¾"
Drive	Hyd/Gearbox
Control	Umbilical (Radio Optional)
Powerpack	
Type	Volvo D13
Stage/Tier	Stage 3B/Tier 4i
Engine Power	315 kW / 422 hp
Diesel Tank Capacity	1125 litres / 297 US Gal
Hyd Tank Capacity	415 litres / 110 US Gal
General Tech Data	
Transport Dimensions	
Length	18.78 m / 61' 7"
Width	3.0 m / 9' 10"
Height	3.88 m / 12' 8¾"
Cubic Volume	218.6 m ³ / 7719.8 ft ³
Transport Weight	49,440 kg / 108,996 lbs
Operating Dimensions	
Length	17.45 m / 57' 3"
Width	3.0 m / 9' 10"
Height	4.87 m / 16' 0"
Operating Weight	48,975 kg / 107,972 lbs
Performance	
Max Feed Size	215mm / 8½"
Capacity (up to)	388 tph / 435 stph
Travel Speed	1.2 km/h / 0.75 mph
Max Incline	20°
Max Incline (Side to Side)	10°

Note. All weights and dimensions are for standard units only

Stockpile Conveyor Level Sensor
 Lifting arrangement for shipping
 Hanging Screen System (Open Circuit)
 Hanging Screen System (Closed Circuit)
 Return Conveyor for Coarse Fraction
 Complete First Service Filter Kit
 Ambient Packages

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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