

# US440i cone crusher unit

## in Action

Technical specification sheet



- Trouble free and optimal production ensured by on board high level Intelligence together with ASRi which comes as standard
- Market leading Sandvik CS440 cone crusher with a wide range of mantels and settings for different applications are available.
- Material level in the crusher is optimized at all time by a inbuilt monitoring system. This adjusts the feed conveyor speed and feed from the primary unit.
- Feed conveyor is hydraulically manoeuvred from and to working position. The input area of the feed conveyor has a 6m<sup>3</sup> (212cubic 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 absorbs the shock from loading and extends belt life.
- Wireless communication with Sandvik UJ440i primary unit in combination with optional sonar at units 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 lubrication oil pre-heater
- Platforms are located around the crusher and power pack in order to provide access for inspection and maintenance.
- Unit and process is operated via with radio control as an option. Cable remote control as standard.
- Sensors are located at strategic locations to ensure a trouble free operation and safe guard against costly breakdowns.
- Emergency stop buttons are situated at key locations.
- The US440i is transported in one piece, with all components remaining on board.
- No oil spillage at filter changes due to vacuumized hydraulic system and dust suppression systems.

## Technical specifications

	Sandvik US440i
<b>Operation</b>	
Height	4.9m / 16.1'
Width	3.0m / 9.8'
Length	17.5m / 57.4'
<b>Transport</b>	
Height	3.92m / 12.9'
Width	3.0m / 9.8'
Length	18.8m / 61.7'
Weight *1	53mton/58ston
*1 Excluding options	
<b>Feed Conveyor</b>	
Conveyor width	1.2m / 4'
Conveyor speed	0–0.55m/s 0-2ft/s
Speed is automatically adjusted to maintain material level in the crusher	
Manually adjustable for optimal loading point in crusher.	
Hopper volume	6 m3 / 210 ft3
<b>Crusher</b>	
Type	Sandvik CS440
Drive	From diesel engine via V-belts and hydraulic coupling

	Sandvik US440i
<b>Discharge conveyor</b>	
Belt width	1400mm / 52"
Drive	Fixed speed hydraulic motors
Reversible	Yes
Approx. discharge height under drum	3.3-3.8m 10'10" +/- 10"
<b>On-board power pack</b>	
Diesel engine	Volvo TAD 1252 tier III
Rated output	313kW / 425hp at 1800rpm
Fuel tank volume	1125dm3 / 300 US gallons
<b>Hydraulic system</b>	
Power source	Pumps mounted on power pack
Oil volume	415dm3 / 296 US Gallons
<b>Crawler tracks</b>	
Type	D6C
Length c/c	4170mm / 164"
Track shoe width	500mm / 19.5"
<b>Performance</b>	
Max. feed size	400mm / 16"
Capacity (up to)	500mtph / 550 stph
Approx. fuel consumption at 75% continuous load	35-45l/h / 9-11 US Gallons/h
Traveling speed	1.2 km/h / 0,8 mph
Max. slope-climbing capability	Approx. 20°

### Options

CM4	Dust filter
CM10	Belt scale on discharge conveyor basic unit
CM10A	Belt scale on product conveyor. Fitting option 36 & 36A
CM11	Radio remote control (Cable control standard)
CM12	King pin for dolly
CM20	Adaption mines and quarries for UK
CM29	Manometer & o-ring set
CM29A	Complete filter set (incl. filters for engine, hydraulics and for crusher lubrication)

CM30	Level indicator for stock pile at discharge end. Recommended to be used on UJ440i discharge conveyor in combination with option CM36 on US440i
CM36	Hanging screen module, open circuit - see separate technical data sheet
CM36A	Hanging screen module, closed circuit - see separate technical data sheet
CM36B	Separate product conveyor course fraction (fitting option 36A)

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.