

# US440E crushing and screening unit in Action

Technical specification sheet



The US440E is an electrically powered tracked mounted cone crusher aimed at the demanding quarry operator, construction company or contractor working with hard and abrasive applications. It features the Sandvik CS440 cone crusher, the SS1443 triple deck screener and the SS1013H pre-screen. The cone crusher can take a feed size of 450 mm and produce up to 500 tph. This makes it the perfect mobile cone crusher for secondary crushing applications where high capacity and high size reduction are desired.

The US440E is available with a product screen and return conveyor, for enhanced product quality. The machine is also available in a simplified version, the US440E Swift, with no screening station and featuring an extended stockpiler.

The Sandvik US440E is powered by electricity (tracks and support legs are hydraulically driven), which results in an environmentally friendly and cost effective solution. It is equipped with a powerful diesel driven generator, which provides an alternative to the mains grid connection, whenever high mobility and multi site duty is required.

It can be directly fed by a wheel loader or by another jaw crusher, such as the Sandvik UJ440E. For best results the undersize material is initially separated by the on board pre-screen, it can then either be discharged via an optional side conveyor or sent directly to the product screen, by-passing the crusher. The cone and the screen will then work in closed circuit, with the undersize being discharged via a stockpiling conveyor.

Some of the outstanding technical features are:

- Sandvik CS440 cone crusher, available with a choice of three mantles (EC, C and MC) and 4 different eccentric throw settings spanning from 20 to 36, which has been specifically designed for use in secondary crushing applications.
- Sandvik SS1443 product screen. It can be configured to separate undersize into either one or two fractions, and is available with a choice of screen media.
- Sandvik SP1020H heavy duty pan feeder designed for efficient, high capacity feeding with low liner wear.
- Sandvik SS1013H triple deck pre screen, available with a choice of screen media
- Radio remote control for starting, stopping and tracking the equipment.
- The crusher is fitted with an intelligent ASRi system, which monitors and automatically regulates the close side setting
- ASRi is integrated with the PLC control screen which is easy to operate and available in several languages
- The US440E is transported in three separate sections which are easily put together on site and tracked via radio remote control
- Metal detector on feed conveyor for the protection of the crusher
- The unit is fully automated and is easily interlocked with other crushing units

## Technical specifications

	Sandvik US440E
<b>Transport</b>	
Part 1	
Length	14.8 m / 48.6'
Width	3.5 m / 11.5'
Height	3.85 m / 12.6'
Weight	62 mton / 68 ston
Part 2	
Length	4.5 m / 14.8'
Width	3.05 m / 10'
Height	3.0 m / 9.8'
Weight	8 mton / 9 ston
Part 3	
Length	7.9 m / 25.1'
Width	3.05 m / 10'
Height	2.8 m / 9.2'
Weight	8 mton / 9 ston
<b>Total weight</b>	82 mton / 90 ston

### Options

Overband magnet  
 Belt scale on discharge conveyor  
 Electrical power outlet 125A  
 Diesel driven heater for the engine  
 Diesel driven heating for engine and lubrication oil  
 Synthetic oil for CH 660  
 Synthetic oil for CH 440  
 Removable sidewall extension on feed hopper (width 4.0 m, volume 12 m<sup>3</sup>) 2008  
 Extra mast with floodlights

	Sandvik US440E
<b>Operation</b>	
Length	31.4 m / 103' 0"
Width	4.5 m / 14.8'
Height	6.2 m / 20' 4"
<b>Equipment</b>	
Crusher	Sandvik CS440
Feeder	Sandvik SP 1020 H
Pre screen	Sandvik SS 1013 H
Screen	SS 1443
Capacity	500 mtph / 551 stph
Electric motor	200 kW / 268 hp
Generating set	600 kVA
Engine	Volvo 1642 GE diesel generator

Note. All weights and dimensions are for standard units only

Electric conveyor heating  
 Dust filter  
 Product conveyor no.2 (800mm x 8m)  
 Belt scale  
 Preparation for connection to main supply  
 Oil bath cleaner for filter  
 Electrical Heating Feeder SP1020 and Hopper  
 NF conveyor incl. Support (8m x 650mm)  
 Belt scale for NF conveyor

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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