



# SANDVIK US440E MOBILE CONE CRUSHER

## TECHNICAL SPECIFICATION

The US440E is an electrically powered high quality, tracked mobile cone crusher that is robust and built to last. A complete processing unit, it is fitted with the CS440 cone crusher and screens onboard. Aimed at the demanding quarry and mining operator or contractor, who is looking for high capacity crushing, it offers a versatile, highly productive secondary unit at a low cost-per-tonne operation. This heavy duty workhorse has proved itself worldwide in the toughest of applications and in all climatic conditions.

### KEY BENEFITS

<b>Reliability</b>	<ul style="list-style-type: none"> <li>- Built for hard and abrasive rock</li> <li>- Market leading Sandvik CS440 cone for strength and high performance</li> <li>- Wear lined impact zones</li> <li>- All onboard components are electrically driven giving reliability and minimal maintenance</li> <li>- Premium quality components for durability</li> </ul>
<b>Productivity</b>	<ul style="list-style-type: none"> <li>- Large intake opening of 450 mm / 18" making it ideal for secondary applications where high size reduction and high capacity crushing is required</li> <li>- ASRI assists in optimizing throughput and end product quality, as well as protecting the crusher from "uncrushable" material</li> <li>- Level sensors and step less regulation of feed belt for optimized production</li> <li>- Dual on board interlocking via PLC for optimal performance and operating efficiency, relay as backup</li> <li>- A number of sensors at different key locations to ensure a trouble free operation and prevent costly breakdowns</li> <li>- Choice of several chambers, throws and settings for a wide range of applications, enabling fine tuning to your specification and improved capacity</li> <li>- Transported in three separate sections, individually self-supported for easy assembly on site, resulting in more uptime and higher productivity</li> <li>- The unit can work as stand alone or interlocked in a "process train" with other crushing and screening units</li> </ul>
<b>Cost of ownership</b>	<ul style="list-style-type: none"> <li>- Latest generation fuel efficient engines provide maximum performance and cost efficiency</li> <li>- Low cost per tonne via electric final drives and onboard diesel generator or electric plug-in option</li> <li>- Constant Liner Performance (CLP) for extended life and performance of chamber liners, minimizing downtime and cost</li> <li>- Quick return on investment and high resale value</li> </ul>
<b>Safety</b>	<ul style="list-style-type: none"> <li>- User-friendly control system via PLC from one location and radio remote control as standard</li> <li>- Minimal maintenance with safe and easy access</li> <li>- Generator set and fuel tank can be located at ground level for easier service</li> <li>- LED Floodlights for safe operation 24 hours a day</li> </ul>
<b>Sustainability</b>	<ul style="list-style-type: none"> <li>- Lower environmental impact due to latest emissions compliant engines, reduced fuel consumption and less operating noise</li> <li>- Electric plug-in option allows you choose your preferred energy source, diesel mode or electric mode to lower your operation costs and reduce environmental impact</li> <li>- Dust suppression system minimizes dust emissions reducing environmental impact</li> <li>- Rubber lined impact zones reduce operating noise and need for maintenance</li> <li>- Quality components ensure longer lifetime and support optimized service and maintenance</li> </ul>





KEY SPECIFICATIONS	US440E
<b>Hopper</b>	
Width	4000 mm / 13'
Length	2500 mm / 8' 2"
Capacity	3 m <sup>3</sup> / 3.93 yds <sup>3</sup>
Rear loading height	4100 mm to 4700 mm / 13' 5" – 15' 5"
<b>Feeder</b>	
Type	Sandvik SP1020H
Width	1000 mm / 3' 3"
Length	2000 mm / 6' 6"
<b>Feed conveyor</b>	
Width	1200 mm / 47"
Length	7700 mm / 25' 8"
<b>Pre screen</b>	
Type	Sandvik SS1013H
Decks	3 deck
Width	1020 mm / 40"
Length	1460 mm / 57"
<b>Crusher</b>	
Type	Sandvik CS440 cone
Max feed size	500 mm / 19.7"
CSS range	25 - 57 mm / 1" - 2.2" *
Chamber control	Sandvik Hydroset system (ASRi)
Drive	Electric motor 200 kW / 268 hp
<b>Screen unit (closed circuit)</b>	
Type	Sandvik SS1443
Decks	3 deck
Width	1400 mm / 4' 7"
Length	3200 mm / 10' 6"
Product conveyor 1	1000 mm x 8500 mm / 40" x 28' 4"
Discharge height under drum (approx)	4200 mm / 13' 7"
Product conveyor 2	800 mm x 8000 mm / 32" x 26' 8"
Discharge height under drum (approx)	3600 mm / 11' 8"
Return conveyor	800 mm x 10 m / 32" x 33'
<b>Discharge conveyor</b>	
Width	1200 mm / 4'
Length	13.9 m / 45.6'
<b>Natural fines conveyor</b>	
Width	650 mm / 25.6'
Length	8000 mm / 26.2'
Discharge height under drum (approx)	4000 mm / 13.1'

## STANDARD SPECIFICATION

Wear lined hopper  
 Auto speed controlled feed conveyor  
 Metal detector  
 Crusher level sensor  
 Pressurised cone dust protection  
 ASRi cone control system  
 Heavy duty conveyors with dust covers  
 PLC control system (Relays as backup)  
 Standard main voltage 400V AC 50Hz  
 Control voltage is 230V AC and 24V DC  
 Pre-heating for engine and cone lube systems

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<b>Power pack</b>	
Type	Volvo D16 / Volvo D16 / Volvo D16 alt. CAT C18
Stage / Tier	Stage 5 / T4F / T3
Generator	Stamford 670 kVA
Diesel tank capacity	3000 litres / 635 USG
Main voltage	400V / 50Hz 3-phase a.c.
Control voltage	230V / 50Hz 1-phase a.c.
<b>Tracks</b>	
Length (centres)	4040 mm / 13' 8"
Width (shoe)	500 mm / 20"
Drive	Hydraulic
Control	Radio / Umbilical
<b>Transport dimensions part 1 **</b>	
Height (excl trailer)	4.1 m / 13'
Width	3.5 m / 11' 5"
Length	16.3 m / 53' 5"
Weight	61,500 kg / 135,600 lbs
<b>Transport dimensions part 2 **</b>	
Height (excl trailer)	3.1 m / 10'
Width	3.1 m / 10'
Length	11.9 m / 39'
Weight	13,000 kg / 28,660 lbs
<b>Transport dimensions part 3 **</b>	
Height (excl trailer)	3.5 m / 11.5'
Width	3.1 m / 10'
Length	5.2 m / 17'
Weight	7200 kg / 15,890 lbs
<b>Operating dimensions</b>	
Height	6.2 m / 20' 5"
Width	10.5 m / 34' 5"
Length	31.5 m / 103'
Weight	82,000 kg / 180,800 lbs
<b>Performance</b>	
Max feed size	500 mm / 19.7"
Capacity (up to)	600 mtp/h / 660 stph *
Travel speed	1.2 km / h / 0.75 mph
Max Incline / side to side	20° / 10°
Note. All weights and dimensions are for standard units only	

Light masts, warning beacons, panel light and tracking lights  
 Radio remote control with umbilical cord as back-up.  
 Electrical power outlet 125A  
 Walkways and ladders  
 Tool kit  
 Dust suppression spray bars on crusher and main conveyor discharge  
 Natural fines conveyor  
 2x Product conveyors plus one in return  
 Product conveyor stockpile level sensors  
 Self-adjusting stabilizing support legs  
 Preparation for connection to mains supply  
 Diesel refilling from ground level incl. electric pump.

For option availability please speak with your local Sandvik representative

\* Application specific. Please contact a Sandvik representative for clarification on specifications and options.

\*\* Check with your Sandvik representative for correct dimensions and valid transport drawing. Extra transport for loose parts might be needed. Sandvik reserves the right to make changes to the information on this data sheet without prior notification to users