Sandvik US440i
General information

• US440i Direct Type; is transported in one piece. Everything stays on board.
• Feed conveyor is hydraulic raised from transport- to working position. The feed area of the feed conveyor has a 6m² (212 cubic feet) big rubber lined (Sandvik modular wear protection) feed hopper for feeding directly from front loader or from primary unit. The conveyor belt is protected by a steel structure in the hopper. Also by impact bars that absorbs the shock load and extend belt life.
• Possibility to fine tune the material drop point from feed conveyor into the crusher.
• Discharge conveyor with belt scraper, steering rolls and impact bars under the crusher. Width 1400mm (52"), Discharge height 3.3-3.8m (10'10"-12'5").
• Ground clearance below discharge conveyor (under crusher) approx. 350mm (14") when crawling.
• Well known Sandvik CS440 cone crusher with a wide range of mantels and settings for different applications are available.
• ASRi is standard.
• Metall detector before crusher.
• Water spray at discharge conveyor and over crusher.
• Engine pre-heater.
• Platforms around crusher and power pack provide good access for inspection and maintenance.
• Four 24V floodlights are fitted on mast for illumination at night.
• Two plus two floodlights for illumination when crawling.
• Flash light and siren are fitted to give visual and aural warning of movement, alarms and stand by.
• Material level in the crusher is optimized at any time by a monitoring system. It adjusts the feed conveyor speed and feed from primary unit.
• Wire less communication with Sandvik UJ440i primary unit in combination with optional sonar at UJ440i:s discharge conveyor.
• Communicates with other units via cable.
• Operated via cable remote control, radio as option.
• A number of sensors at different key locations ensure a trouble free operation and safe guard against costly breakdowns.
• Emergency stop buttons are provided at appropriate places.
• Advanced process automation by interlocking.
• The process is continuously and automatically monitored by the "intelligence".
• No spillage of hydraulic oil during filter changes due to vacuumized system.
• Pump for refilling diesel with over filling protection.
• The design and manufacture of the Sandvik US440i complies with ISO 9001 and all the directives required for CE-marking. The Diesel engine complies with EU Emission Regulations step III and US norms Tier III.
**Dimension**

**Operation**
- Height: 4.9m / 193"
- Width: 3.0m / 118"
- Length: 17.5m / 57'

**Transport**
- Height: 3.9m / 153"
- Width: 3.0m / 118"
- Length: 18.8m / 62'

<table>
<thead>
<tr>
<th>Weight</th>
<th>tons</th>
<th>49</th>
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<tbody>
<tr>
<td></td>
<td>short tons</td>
<td>54</td>
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1 excluding options

**Feed Conveyor**
- 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

**Crusher**
- Type: Sandvik CS440
- Drive: From diesel engine via V-belts and hydraulic coupling.

**Discharge conveyor**
- Belt width: 1400mm / 52"
- Speed: 0–2m/s 0-7ft/s
- Approx. Discharge height under drum: 3.3-3.8m 10'10" +/- 10"

**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. Recomended 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)

**On-board power pack**
- Diesel engine: Volvo TAD 1252 tier III
- Rated output: 313kW / 425hp at 1800rpm
- Fuel tank volume: 1125dm³ / 300 US gallons

**Hydraulic system**
- Power source: Pumps mounted on power pack.
- Oil tank volume: 420dm³ / 111 US Gallons

**Crawler tracks**
- Type: D6C
- Length c/c: 4170mm / 164"
- Track shoe width: 500mm / 20"

**Performance**
- Max.feed size: 400mm / 16"
- Capacity (up to): 500mtph / 550 stph
- Approx. fuel consumption: 35-45l/h / 9-11 US Gallons/h
- Traveling speed: 1.2 km/h / 0.8 mph
- Max. slope-climbing capability: Approx. 20°