Sandvik US440i

Tracked heavy cone crusher

The US440i is a high quality, tracked mobile cone crusher that is robust and built to last. This heavy duty workhorse has proved itself worldwide in the toughest of applications and in all climatic conditions. Purpose designed for high capacity applications, it features the CS440 crusher and an automated onboard “intelligence” system, which result in optimal performance, less downtime and better productivity



Key benefits

Reliability
- Built for hard and abrasive rock
- Proven technology combined with Sandvik CS440 cone for strength and high performance
- Rubber lined feed hopper and impact zones for longevity, as well as protection from wear and noise
- Premium quality components for durability

Productivity
- Large intake opening of 450 mm / 18” making it ideal for secondary applications where high size reduction is required
- ASRi assists in optimizing throughput and end product quality, as well as protecting the crusher from “uncrushable” material
- Level sensors and step less regulation of feed belt for optimized production
- Onboard intelligence system integrated with ASRi for optimal performance and operating efficiency
- A number of sensors at different key locations to ensure a trouble free operation and prevent costly breakdowns
- Choice of several chambers, throws and settings for a wide range of applications, enabling fine tuning to your specification and improved capacity
- Quick to set-up and easy to transport, resulting in more uptime and higher productivity
- The unit can work as stand alone or interlocked in a “process train” with other crushing and screening units
- Connected to My Fleet now with 7 year data subscription for remote operator support
- Hanging screen available for open and closed circuit

Cost of ownership
- Latest generation fuel efficient engines provide maximum performance and cost efficiency
- Direct drive, heavy duty fluid coupling and low rpm engine for fuel-efficient operation
- Quick return on investment and high resale value

Safety
- User-friendly control system via PLC from one location and radio remote control as standard
- Minimal maintenance with safe and easy access
- LED floodlights for safe operation 24 hours a day

Sustainability
- Latest emissions compliant engines for reduced emissions and reduced fuel consumption due to low operating rpm, direct drive and “intelligent” hydraulics
- Hydraulic fluid spillage during maintenance minimized, thanks to vacuum pump. All fluids piped to one centrally located drainage point, better for the environment
- Dust suppression system minimizes dust emissions reducing environmental impact
- Rubber lined impact zones reduce operating noise and need for maintenance
- Quality components ensure longer lifetime and support optimized service and maintenance

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Key specifications	US440i
Hopper	
Width	2930 mm / 9’ 7”
Length	4000 mm / 13’
Nominal capacity	6 m^3 / 7.85 yds^3
Rear loading height	3350 mm / 10’ 3”
Rear loading height (door lowered)	3150 mm / 10’ 3”
Feed conveyor	
Belt width	1200 mm / 47”
Drive type	Hyd - variable speed
Metal detector type	Bridge coil
Crusher	
Type	Sandvik CS440 cone
Feed opening	450 mm / 18”
CSS range	25 - 54 mm / 1” - 2” *
Chamber control	Sandvik Hydroset system (ASRi)
Speed	285 rpm
Drive	Direct drive via fluid coupling
Main conveyor	
Belt width	1400 mm / 55”
Discharge height	4050 mm / 13’ 3”

Key specifications	US440i
Power pack	
Type	Volvo D13
Stage / Tier	Stage 5 / T4F / T2 CAT T3 (optional)
Engine power	315 kW / 422 hp
Diesel tank capacity	1125 litres / 297 USG
Tank capacity	415 litres / 110 USG
Lubrication tank capacity	245 litres / 64.7 USG
Tracks	
Length (centres)	4170 mm / 13’ 8”
Width (shoe)	500 mm / 20”
Drive	Hydraulic
Control	Radio / Umbilical
Transport dimensions	
Length	18.77 m / 61’ 7”
Width	3.0 m / 9’ 10”
Height	3.89 m / 12’ 9”
Standard weight	53,700 kg / 118.388 lbs
Operating dimensions	
Length	17.40 m / 57’
Width	3.0 m / 9’ 10”
Height	4.90 m / 16’
Performance	
Max feed size	450 mm / 18”
Capacity (up to)	600 tph / 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

Standard specification

- Rubber lined hopper
- Auto speed controlled feed conveyor
- Metal detector
- Crusher level sensor
- Pressurised cone dust protection
- ASRi cone control system
- Heavy duty main conveyor with dust covers
- 24v canbus PLC control system
- Pre-heating for engine and cone lube systems
- Electric refuelling pump
- Light mast, warning beacons, panel light and tracking lights
- Radio remote control with umbilical cord as backup
- Vacuum pump for maintenance
- Walkways and ladders
- Tool kit
- Dust suppression spray bars on crusher and main conveyor discharge
- My Fleet telematics with 7 year data subscription
- Main conveyor stockpile level sensor

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

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