Sandvik US640E

Tracked heavy cone crusher

The US640E is a heavy duty, electrically powered S-type of cone crusher designed for high productivity and low energy consumption. It features the CS660 cone crusher with large intake and an automated process control system. Aimed at the demanding quarry and mining operator, this machine offers the highest performance with minimal downtime and has proven itself in the toughest of applications and in all climatic conditions.



Key benefits

Reliability
- Built for hard and abrasive rock
- Market leading Sandvik CS660 cone for strength and high performance
- Wear lined impact zones
- All onboard components are electrically driven giving reliability and minimal maintenance
- Premium quality components for durability

Productivity
- Large intake opening of 620 mm / 24” 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
- Dual on board interlocking via PLC for optimal performance and operating efficiency. Relay as backup
- A number of sensors at different key locations to ensure a trouble free operation and prevent costly breakdowns
- Choice of chambers, throws and settings for a range of applications, enabling fine tuning to your specification and improved capacity
- Transported in two separate sections, individually self-supported for easy assembly on site, 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

Cost of ownership
- Latest generation fuel efficient engines provide maximum performance and cost efficiency
- Low cost per tonne via electric final drives and onboard diesel generator or electric plug-in option
- 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
- Generator set and fuel tank can be located at ground level for easier service
- LED Floodlights for safe operation 24 hours a day

Sustainability
- Dust suppression system minimizes dust emissions reducing environmental impact
- Unique Constant Liner Performance (CLP) for extended life of chamber liners
- Quality components ensure longer lifetime and support optimized service and maintenance
- 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
- Lower environmental impact due to latest emissions compliant engines, reduced fuel consumption and less operating noise
- Rubber lined impact zones reduce operating noise and need for maintenance

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Key specifications	US640E
Feed conveyor	
Width	1600 mm / 5’ 3”
Length	7700 mm / 25’ 3”
Crusher	
Type	Sandvik CS660 cone
Max feed size	622 mm / 24”
CSS range	29 - 83 mm / 1.1” - 3.3” *
Chamber control	Sandvik Hydroset system (ASRi)
Drive	Electric motor 315 kW / 422 Hp
Discharge conveyor	
Width	1400 mm / 4’ 7”
Length	17 m / 55’ 9”

Key specifications	US640E
Power pack	
Type	Volvo D16
Stage / Tier	EU Stage 5 / USA T4 Final
Generator	670 kVA Stamford
Diesel tank capacity	3000 litres / 635 USG
Main voltage	400V / 50Hz 3-phase a.c.
Control voltage	230V / 50Hz 1-phase a.c.
Tracks	
Drive	Hydraulic
Control	Radio / Umbilical
Transport dimensions part 1 **	
Length	16.75 m / 54’ 12”
Width	4.10 m / 13’ 6”
Height	4.00 m / 13’ 2”
Standard weight	46,000 kg / 101,400 lbs
Transport dimensions part 2 **	
Length	15.32 m / 50’ 3”
Width	3.90 m / 12’ 10”
Height	4.04 m / 13’ 3”
Standard weight	62,000 kg / 136,700 lbs
Operating dimensions	
Length	25.82 m / 84’ 9”
Width	4.64 m / 15’ 2”
Height	75.7 m / 25’ 10”
Standard weight	108,000 kg / 238,100 lbs
Performance	
Max feed size	622 mm / 24”
Capacity (up to)	900 mtph / 990 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

- 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
- Electric refuelling pump
- Light masts, warning beacons, panel light and tracking lights
- Radio remote control with umbilical cord as backup
- Electrical power outlet 125A
- Walkways and ladders
- Tool kit
- Dust suppression spray bars on crusher and main conveyor discharge
- Product conveyor stockpile level sensors
- Self-adjusting stabilizing support legs
- Preparation for connection to electric mains supply

* 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.
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