



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

| | |
|--------------------------|---|
| Reliability | <ul style="list-style-type: none">- Built for hard and abrasive rock- Market leading Sandvik CS440 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 | <ul style="list-style-type: none">- Large intake opening of 450 mm / 18" making it ideal for secondary applications where high size reduction and high capacity crushing 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 several chambers, throws and settings for a wide range of applications, enabling fine tuning to your specification and improved capacity- Transported in three 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 | <ul style="list-style-type: none">- Low cost per tonne due to operation through onboard diesel generator or connection to electrical mains supply- Quick return on investment and high resale value |
| Safety | <ul style="list-style-type: none">- User-friendly control system via PLC from one location and radio remote control as standard- Dust suppression and pressurised dust protection minimize dust, improving operator and onsite safety- Minimal maintenance with safe and easy access- Low emissions due to electrical operation, minimizing environmental impact- Generator set and fuel tank can be located at ground level for easier service- LED Floodlights for safe operation 24 hours a day |
| Support | <ul style="list-style-type: none">- Extensive global distributor network- Operational advice through our process knowledge and expertise |





| KEY SPECIFICATIONS | US440E |
|--------------------------------------|--|
| Hopper | |
| Width | 4000 mm / 13' |
| Length | 2500 mm / 8' 2" |
| Capacity | 3 m ³ / 3.93 yds ³ |
| Rear loading height | 4100 m to 4700 m / 13' 5" – 15' 5" |
| Feeder | |
| Type | Sandvik SP1020H |
| Width | 1000 mm / 3' 3" |
| Length | 2000 mm / 6' 6" |
| Feed conveyor | |
| Width | 1200 mm / 48" |
| Length | 7700 mm / 25' 8" |
| Pre screen | |
| Type | Sandvik SS1013H |
| Decks | 3 deck |
| Width | 1020 mm / 40" |
| Length | 1460 mm / 57" |
| Crusher | |
| Type | Sandvik CS440 cone |
| Feed opening | 450 mm / 18" |
| CSS range | 25 - 54 mm / 1" - 2" * |
| Chamber control | Sandvik Hydroset system (ASRi) |
| Drive | Electric motor 200 kW / 268 hp |
| Screen unit (closed circuit) | |
| 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' |
| Discharge conveyor | |
| Width | 1200 mm / 4' |
| Length | 13.9 m / 45.6' |
| Natural fines conveyor | |
| 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

| KEY SPECIFICATIONS | US440E |
|------------------------------------|--------------------------|
| Power pack | |
| Type | Volvo D16 |
| 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. |
| Tracks | |
| Length (centres) | 4040 mm / 13' 8" |
| Width (shoe) | 500 mm / 20" |
| Drive | Hydraulic |
| Control | Radio / Umbilical |
| Transport dimensions part 1 | |
| Height (excl trailer) | 4.1 m / 13' |
| Width | 3.5 m / 11' 5" |
| Length | 16.3 m / 53' 5" |
| Weight | 61,500kg / 135,600 lbs |
| Transport dimensions part 2 | |
| Height (excl trailer) | 3.1 m / 10' |
| Width | 3.1 m / 10' |
| Length | 11.9 m / 39' |
| Weight | 13,000 kg / 28,660 lbs |
| Transport dimensions part 3 | |
| Height (excl trailer) | 3.5 m / 11.5' |
| Width | 3.1 m / 10' |
| Length | 5.2 m / 17' |
| Weight | 7200 kg / 15,890 lbs |
| Operating dimensions | |
| Height | 6.2 m / 20' 5" |
| Width | 10.5 m / 34' 5" |
| Length | 31.5 m / 103' |
| Weight | 82,000kg / 180,800 lbs |
| Performance | |
| Max feed size | 450 mm / 18" |
| Capacity (up to) | 600 mtp / 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

Electric refuelling pump
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

For option availability please speak with your local Sandvik representative

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