



US440i CONE CRUSHER PIONEERING SOLUTIONS FOR YOU

TECHNICAL SPECIFICATION

The US440i is a heavy-duty cone crusher built using the latest technology which has proven capable of operating in the toughest climatic conditions. Featuring the market leading Sandvik CS440 cone crusher it comes with a choice of mantles and settings which make it suitable for a wide range of applications worldwide.

Trouble free and optimal production is ensured by on board high level Intelligence together with ASRi which comes as standard.

KEY BENEFITS

- Material level in the crusher is optimized at all times by an inbuilt monitoring system. This adjusts the feed conveyor speed and feed from the primary unit.
- Feed conveyor is hydraulically manoeuvred to and from its working position. The input area of the feed conveyor has a 6m³ (212 cubic feet) large rubber lined (with Sandvik modular wear protection) feed hopper and is designed for feeding directly from a front loader, or from a primary crusher. The conveyor belt is protected by a steel structure in the hopper, which is enhanced by impact bars that absorb the shock from loading and extends belt life.
- Wireless communication with Sandvik UJ440i primary unit in combination with optional sonar at the unit's discharge conveyor.
- Metal detector located before crusher.
- It is possible to position the material drop point from the feed conveyor into the crusher via (radio) remote.
- Water spray units situated at discharge conveyor and over the crusher.
- Unit is fitted with an engine and crusher lubrication oil pre-heater as standard
- Platforms are located around the crusher and power pack in order to provide easy access for service and maintenance.
- Radio remote control fitted as standard.
- Sensors are located at strategic locations to ensure a trouble free operation and safe guard against costly breakdowns.
- The US440i is easily transported in one piece, with all components remaining on board.
- No oil spillage during filter changes due to vacuumized hydraulic system and dust suppression systems.



KEY SPECIFICATIONS	US440i
Feed Hopper	
Nominal capacity	6 m ³ / 7.85 yds ³
Rear loading height	3330 mm / 10' 11"
Rear loading height (door lowered)	3136 mm / 10' 3 1/2"
Rear loading width	2930 mm / 9' 7 1/2"
Feed conveyor	
Hopper wall thickness	6 mm / 1/4"
Sandvik high impact rubber Liners	Std
Belt width	1200 mm / 47"
Belt length	14,220 mm / 46' 8"
Conveyor incline angle	20°
Drive type	Hyd - variable speed
Gearbox ratio	65.7:1
Drive torque	9700 Nm (max) / 7154 lbs ft
Head drum diameter	410 mm / 16"
Tail drum diameter	400 mm / 15 1/2"
Motor size	44.3 cc / 2.70 cu inch
Metal detector type	Bridge coil
Crusher	
Type	Sandvik CS440 cone
Speed	285 rpm
Feed opening	450 mm / 18"
CSS range	25 - 54 mm / 1" - 2"
Chamber control	Sandvik hydroset system (ASRI)
Std chamber kit	C
Chamber options	EC-MC
Std bush settings	20, 25, 30, 36 mm / 3/4", 1", 1 1/4", 1 1/2"
Drive	21 KPTO fluid coupling
Drive belts	8 off SPC 7500
Crusher weight	19,300 kg / 42,550 lbs
Lubrication Tank	
Capacity	245 litres / 64.7 USG
Fixed displacement flow meter	Yes
Hyd driven oil cooler	Yes

OPTIONS

Dust filter system
Dust suppression water pump
Block heating for engine
Main conveyor stockpile level sensor
Hanging screen system (open circuit)
Hanging screen system (closed circuit)
Tier 4 Final Engine
Return conveyor for coarse fraction
Hot ambient package (-5 to 45°C)
Extreme cold package (-35 to 15°C)
Webasto engine coolant heater

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Main Conveyor	
Belt width	1400 mm / 4' 7"
Belt length	23,550 mm / 77' 3"
Discharge height	4046 mm / 13' 3"
Head drum dia	340 mm / 13 1/2"
Tail drum dia	250 mm / 10"
Drive	Hyd
Motor cc	750 cc / 45.7 cu inch
Tracks	
Length (centres)	4170 mm / 13' 8"
Width (shoe)	500 mm / 19 3/4"
Drive	Hyd / Gearbox
Control	Umbilical (radio optional)
Power pack	
Type	Volvo D13
Stage / Tier	Stage 2 / Tier 2
Engine power	315 kW / 422 hp
Diesel tank capacity	1125 litres / 297 USG
Hyd tank capacity	415 litres / 110 USG
Transport dimensions	
Length	18.64 m / 61' 2"
Width	3.0 m / 9' 10"
Height	3.9 m / 12' 10"
Cubic volume	218.1 m ³ / 7702 ft ³
Transport weight	54,440 kg / 120,020 lbs
Operating dimensions	
Length	17.38 m / 57' 0"
Width	3.0 m / 9' 10"
Height	5.2 m / 17' 1"
Operating weight	54,575 kg / 120,318 lbs
Performance	
Max feed size	450mm / 18"
Capacity (up to)	600 tph / 661 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

18% Extra Coarse Chamber Kit
18% Coarse Chamber Kit
18% Medium Coarse Chamber Kit
18% Medium Chamber Kit
18% Medium Fine Chamber Kit