



UH450E MOBILE UNIT PIONEERING SOLUTIONS FOR YOU

TECHNICAL SPECIFICATION

The Sandvik UH450E is a revolutionary track-mounted end product crushing and screening unit which has been designed in response to customer demands. Its innovative design combines the renowned CH440 Cone with a banana-styled main screen for high capacity accurate screening together with a recirculating conveyor.

This unit is the ideal choice for the production of the highest quality end products. Both the cone and screen have many alternative settings and optional crushing chambers and screening media, which makes the unit extremely flexible and useful in many applications even as a secondary and tertiary unit. Due to the advanced automation controls this unit is capable of very high capacities of fine fractions e.g. 300tph of calibrated asphalt fractions conforming to shape requirements.

KEY BENEFITS

- High production capacity of excellent shaped end product
- The complete process is fully automated, well-balanced and with a high level of “intelligence” on

board to maximise production, quality of material and minimise downtime.

- Sandvik CH440 cone crusher, available with a choice of six concaves and eight different bush settings, making this a highly versatile machine
- Fitted with intelligent ASRi system, which monitors and automatically regulates the close side setting.
- Sandvik pre-screen SS1221 with Sandvik modular screening media fitted as standard
- Optional heavy duty pan feeder available for efficient, high capacity feeding with low liner wear
- Diesel-electric drive for powerful, extremely economical and environmentally friendly operation
- Excellent fuel economy with a Volvo power pack
- Innovative compact design in operation, transport and quick set-up
- Unique loop conveying system providing direct feed to the product screen
- Highly efficient double deck banana-shaped LF1850 screen with unique Sandvik modular screening media as standard
- Full radio remote control fitted as standard
- Versatile and capable of working as part of a “process train” or stand-alone unit.



KEY SPECIFICATIONS	UH450E
Pre-screen	
Screen	SS1221 single-deck free-fall screen
Screen deck	1200 mm x 1200 mm / 47" x 47"
Screening media	Sandvik Modular WM6000 system, rubber, stepped deck
Feed conveyor (pre-screen overflow conveyor)	
Width	1000 mm / 39 3/8"
Length	6900 mm / 22' 7 5/8"
Drum motor	11 kW / 15 hp
Closed-circuit conveyor (two sections)	
Conveyor with a drum motor	
Width	1200 mm / 47"
Length	21000 mm / 68' 10 3/4"
Drum motor	30 kW / 40 hp
Friction conveyor	
Width	1300 mm / 51 1/4"
Product screen	
Screen	LF1850 Double-deck linear-motion screen
Decks	1800 mm x 4800 mm / 71" x 189"
Screening media, top deck	Sandvik Modular WM6000 system, rubber, stepped deck
Screening media, bottom deck	Longitudinally tensioned wire mesh
Feed box	Replaceable rubber liner
Crusher	
Crusher	Sandvik CH440
Max. feed opening	215 mm / 8 1/2"
CSS Range	8 - 48 mm / 5/16" - 1 7/8"
Drive	Squirrel cage motor 200 kW / 1500 rpm

OPTIONS

Feed station incl 12m³ hopper, feeder SP1328M and mechanical support legs. SS1222M (2 deck) screen
 Natural Fines conveyor (only available in combination with feed station)
 Coarse fraction stockpile conveyor
 Belt scale for Natural Fines conveyor
 Belt scale for coarse fraction stockpile conveyor
 Belt scale for 0-fraction stockpile conveyor
 High pressure water spray system
 Dolly transportation kit incl four hydraulic legs, king pins, position lights and brake lines (Dolly not incl)
 Oil bath air pre-cleaner for diesel engine

KEY SPECIFICATIONS	UH450E
Product conveyors (2 x)	
Transverse conveyor	
Width	1000 mm / 39 3/8"
Length	3000 mm / 9' 10 1/8"
Drum motor	11 kW / 15 hp
Longitudinal conveyor	
Width	1000 mm / 39 3/8"
Length	9550 mm / 31' 4"
Natural fines conveyor (detachable for transport)	
Width	650 mm / 25 5/8"
Length	6500 mm / 21' 4"
Drum motor	7.5 kW / 10 hp
Discharge height	3700 mm / 12' 1 3/4"
Power pack and electrics	
Diesel generator package	Volvo TAD1641 GE
Generator	Stamford 500 KVA
Onboard electrical power	400/240V 50Hz
Fuel tank volume	950 litres / 250 US Gal
Electrics	Canbus control
Tracks	
Length	3910 mm / 12' 10"
Track shoe width	500 mm / 19 3/4"
Travel speed	0.6 / 1.2 km / h
Transport Dimensions	
Length	19.50 m / 63' 11 3/4"
Width	3.50 m / 11' 5 7/8"
Height	4.45 m / 14' 7 1/4" (dolly)
Standard weight	70,500 kg / 155,426 lbs
Operating Dimensions	
Length	20.00 m / 65' 7 1/2"
Width	4.50 m / 14' 9 1/8"
Height	6.60 m / 21' 7 7/8"

Note. All weights and dimensions are for standard units only

Preparation for connection to mains power supply
 Complete filter set for diesel engine, crusher lubrication oil and hydraulic oils
 Webasto pre-heater with timer for engine coolant and crusher lubrication oil
 Extra illumination including lighting mast and crawler lights
 Electrical heaters for feed hopper
 Level indicator for stockpile conveyor
 Synthetic lubrication oil for crusher