Sandvik UV320E

Wheeled heavy VSI unit

The UV320E is a complete integrated wheeled processing unit, which is equipped with the CV217 Vertical Shaft Impactor (VSI) and three-way split screening system. Powered by electricity it is fully mobile with hydraulically folding side conveyors and can be easily set-up and transported from site to site within a very short time. Designed to produce premium shaped aggregates for the concrete and asphalt industries, and two versions available, to optimize the quality and capacity in different applications.



Key benefits

Reliability
- Built for hard and abrasive rock
- Market leading Sandvik CV217 VSI impactor and three-way split screening system
- Wear lined impact zones
- All onboard components are electrically driven giving reliability and minimal maintenance
- Premium quality components for durability

Productivity
- Sandvik VSI technology renowned for high capacity production and cubical shape at a consistent quality
- Level sensors and step less regulation of feeder for optimized production
- Foldable hopper extensions provide wider loading area enabling high throughput
- Three-port patented rotor design and Bi-Flow™ technique enable consistent material flow and high throughput
- A number of sensors at different key locations to ensure a trouble free operation and prevent costly breakdowns
- All conveyors are electrically driven and hydraulically foldable for transport. Return conveyor excluded
- Quick to set-up and easy to transport as one unit, 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
- Flex: Fitted with three flap gate that gives the flexibility to divide the feed material so that 33%, 66% or 100% are sent to the crusher alternatively to the screen first. All to optimize the quality and capacity in different applications
- Able to operate in open or closed circuit

Cost of ownership
- Low cost-per-tonne due to electric final drives and electrical supply connection or genset (not provided)
- Quick return on investment and high resale value
- Quick and easy replacement of wear parts, which keeps your equipment productive with minimal downtime
- Patented 3-port rotor and Bi-Flow™ technique result in low consumption of wear parts due to rock-on-rock crushing, and thereby lower running costs

Safety
- User-friendly control system from one location
- Rollaway discharge chute on screen provides easy access for service and maintenance
- Wheel suspension and air brakes complete with lights for safe road transport
- LED Floodlights for safe operation 24 hours a day

Sustainability
- Lower environmental impact due to electric plug in, less operating noise and no emissions
- Rubber lined impact zones reduce operating noise and need for maintenance
- Quality components ensure longer lifetime and support optimized service and maintenance

Support
- Extensive distributor, sales and service network

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Key specifications	UV320E Flex
Feed station	
Type	Sandvik SP0830
Width	800 mm / 31’ 5”
Length	3000 mm / 10’
Capacity	7 m³ / 9.19 yds³
Pre screen	
Type	PJ1010
Width	1020 mm / 40”
Length	1000 mm / 39’ 4”
Crusher	
Type	Sandvik CV217 VSI
Feed opening	50 mm / 2”
Standard speed	51 M / sec
Drive	2 x 185 kW electric motor
Screen	
Type	Sandvik SF1843
No. of decks	3 deck
Screening area	6.5 m² / 69.9 ft²
Hydraulic driven components	
Coarse stone grizzly, foldable conveyors, supporting legs, retractable screen	
Conveyors	
Feed conveyor to crusher	-
Feed conveyor to screen	800 mm x 10.6 m / 32” x 34’ 7”
Rear conveyor	800 mm x 9.5 m / 32” x 31’ 1”
Product conveyors x 3	650 mm x 8 m / 25.6” x 26’ 8”
By-pass conveyor	800 mm x 4.7 m / 32” x 15’ 4”
Return conveyor	650 mm x 9 m / 25.6” x 29’ 5”
Natural fines conveyor	500 mm x 8 m / 20” x 26’ 8”
Power pack	
Required genset size (external)	
Required power	325 kVA
Main voltage	400 V / 50 Hz / 3-phase a.c.
Control voltage	230 V / 50 Hz / 1-phase a.c
Running gear	
Type	King-pin 3.5” or 2” Three axles (2 axle leaf-sprung bogie and one with air suspension) with 12 wheels in total, air brakes and running lights
Transport dimensions	
Length	17.8 m / 58’ 4”
Width	3.0 m / 9’ 8”
Height	4.5 m / 14’ 8”
Standard weight	46,300 kg / 102,100 lbs
Operating dimensions	
Length	22 m / 72’
Width	16 m / 52’ 5”
Height	5.4 m / 18’
Performance	
Max feed size	50 mm / 2”
Capacity (up to)	200 mtph / 220 stph *

Key specifications	UV320E Direct
Feed station	
Type	-
Width	-
Length	-
Capacity	-
Pre screen	
Type	-
Width	-
Length	-
Crusher	
Type	Sandvik CV217 VSI
Feed opening	50 mm / 2”
Standard speed	51 M / sec
Drive	185 kW electric motor
Screen	
Type	Sandvik SF1843
No. of decks	3 deck
Screening area	6.5 m² / 69.9 ft²
Hydraulic driven components	
Foldable conveyors, supporting legs, retractable screen	
Conveyors	
Feed conveyor to crusher	800 mm x 6 m / 32” x 19’ 8”
Feed conveyor to screen	800 mm x 10.6 m / 32” x 34’ 7”
Rear conveyor	800 mm x 9.5 m / 32” x 31’ 1”
Product conveyors x 3	650 mm x 8 m / 25.6” x 26’ 8”
By-pass conveyor	-
Return conveyor	650 mm x 9 m / 25.6” x 29’ 5”
Natural fines conveyor	-
Power pack	
Required genset size (external)	
Required power	325 kVA
Main voltage	400 V / 50 Hz / 3-phase a.c.
Control voltage	230 V / 50 Hz / 1-phase a.c
Running gear	
Type	King-pin 3.5” or 2” Three axles (2 axle leaf-sprung bogie and one with air suspension) with 12 wheels in total, air brakes and running lights
Transport dimensions	
Length	18.6 m / 61’
Width	3.0 m / 9’ 8”
Height	4.5 m / 14’ 8”
Standard weight	38,300 kg / 84,440 lbs
Operating dimensions	
Length	22.7 m / 74’ 5”
Width	16 m / 52’ 5”
Height	5.4 m / 18’
Performance	
Max feed size	50 mm / 2”
Capacity (up to)	200 mtph / 220 stph *

Note. All weights and dimensions are for standard units only

Standard specification

- Hydraulic radio remote controlled tipping grid
- Return conveyor with metal detector
- Maintenance platforms for service and maintenance
- 3 axles, 2-axle leaf-sprung bogie and one with air suspension,
- 12 wheels in total
- Complete with lights for road transport
- Natural fines conveyor
- Two extra rear hydraulic legs
- Warning beacons, twin LED light masts and various LED work lamps
- Standard main voltage 400V AC 50Hz
- Control voltage is 230V AC and 24V DC
- 220V transformer for power outlet (2pc.10A, 1pc.16A)
- Onboard interlocking system
- Rollaway discharge chute on screen
- 4x hydraulic foldable heavy duty product conveyors onboard
- ASRi cone control system
- King-pin 3 ½” or 2”
- Air-brakes
- Foldable back wall on each side for loading ramp

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

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