



# Sandvik UI310

## Wheeled HSI unit

The UI310 is a primary crushing unit fully assembled on a single trailer frame and mounted on a triple axle bogie. Featuring the Sandvik patented CI721 impactor and provided with a ST1363 feeder screen and discharge conveyor, it has been designed to offer a highly versatile, high-end capacity plant at a low cost-per-tonne operation.



### Key benefits

#### Reliability

- Market leading Sandvik CI721 Prisec™ impact chamber for unrivalled flexibility and performance
- All onboard components are electrically driven giving reliability and minimal maintenance
- Heavy duty chassis beams, strength analysis on structural parts and quality components for durability
- Capable of operating in the most hostile environments

#### Productivity

- Patented chamber design ensures high reduction ratios
- Patented adjustment / braking system for relieving blockages whilst in operation, thereby maximizing uptime
- Adjustable apron curtains and tip speed enable a wide range of end product gradations to be achieved
- Pan feeder and double deck vibrating screen for removing of fines, thereby maximizing throughput and reducing wear
- Crusher by-pass chute allows flexibility in material distribution
- Frequency inverter for feeder speed control in order to provide step less regulation of the feed rate
- Simple and efficient operation with soft starting crusher for trouble free operation

#### Cost of ownership

- Low cost-per-tonne due to electric operation
- Quick to set-up and easy to maintain, resulting in more uptime and higher productivity
- Modularized wear parts can be turned for maximum usage

#### Safety

- Patented rotor locking and positioning device for quick and safe maintenance
- Unique key trapped system to ensure safe inspection after the rotor has stopped turning
- Removable electrical control panel can be located on the ground during operation
- Crusher mounted safety guards and multiple emergency stop buttons for safe operation
- Maintenance platforms with handrails and access ladders provide excellent access for service and maintenance

#### Sustainability

- Low emissions due to electrical operation, reducing CO<sub>2</sub> emissions
- Screen design gives longer wear life of components
- Quality components ensure longer lifetime and support optimized service and maintenance

#### Support

- Extensive distributor, sales and service network

## Technical specification

Key specifications	UI310
<b>Feed station</b>	
Screen type	ST1363 feeder screen
Grizzly gap	80, 100 or 120 mm / 3", 4" or 5"
Drive	Electric motor 2x 8 kW ST1341 Electric motor 2x 8 kW ST1342
Hopper volume	15 m <sup>3</sup> / 19.6 yd <sup>3</sup>
<b>Impactor</b>	
Type	Sandvik CI721 HSI
Adj type	Hydraulic
Feed opening	980 x 1360 mm / 39 x 54"
Rotor diameter	1150 mm / 46"
Drive	Electric motor 250 kW, 4 pole
<b>Power system</b>	
All electrics are intended for connection to a mains supply	
Total power	293 kW
Supply voltage	415-50 Hz / 440V-60 Hz / 3-phase a.c.
Control voltage	220V-50 / 60Hz / 3-phase a.c.
If powered by a genset at least 750 KVA is required	
<b>Running gear</b>	
Type	2" / 31 / 2" King-pin, triple-axle bogie with air-brakes, ABS and running lights. Tyres 10" x 20" - 16 ply
<b>Discharge conveyor</b>	
Belt width	1200 mm / 47' 2"
Length	8.3 m / 32' 6"
Drive	Electric motor 15 kW, 15 Hz
Approx discharge height under drum	1.9 m / 6' 2"

Key specifications	UI310
<b>Transport dimensions</b>	
Height	4.10 m / 13.45'
Width	3.3 m / 10.82'
Width without skid assembly	2.72 m / 8.92'
Length	15.65 m / 51.34'
Weight	53,000 kg / 116,845 lbs
Weight without skid assembly	36,500 kg / 80,468 lbs
<b>Operating dimensions</b>	
Length	15.31 m / 50.3'
Width	5.17 m / 17'
Height	6.38 m / 20.11'
<b>Performance</b>	
Max feed size	700 mm / 28"
Capacity (up to)	450 mtph / 496 stph *
Note. All weights and dimensions are for standard units only	

## Standard specification

- Feed hopper complete with wear resistant liners
- Self contained electrical switchgear cabinet with soft starter and variable frequency drive
- Maintenance platform with handrails and access ladder
- Safety guards to crusher drives
- Emergency stop buttons
- 2" / 31 / 2" King-pin, triple-axle bogie with air-brakes, ABS and running lights. Tyres 10" x 20" - 16 ply
- Trailer suitable for 24 V supply

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