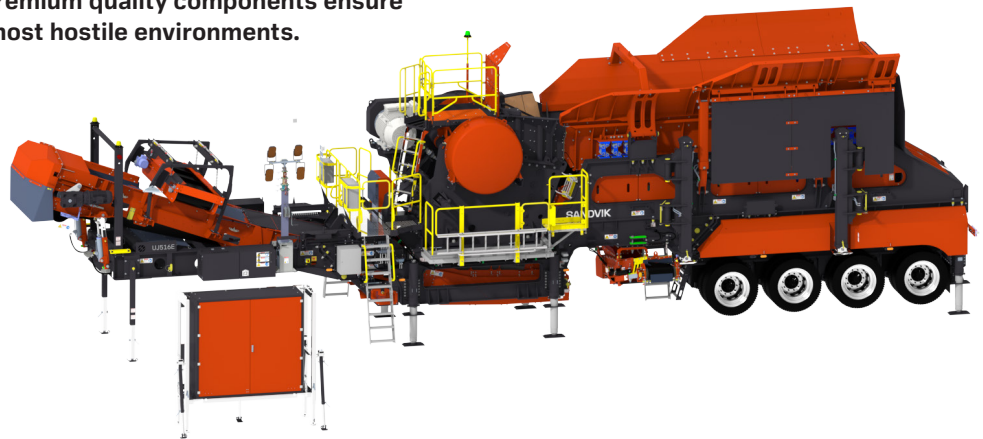


Sandvik UJ516E

Wheeled jaw unit

The UJ516E is Sandvik's new generation of heavy wheeled fully electric primary crushing unit fully assembled on a single trailer frame and mounted on a quadruple axle bogie. Electrically powered for a more sustainable future. Ideal for large quarries and mines, this unit has been designed with sustainability, productivity and ease of set up in mind. Featuring the highly reliable and productive CJ412 jaw crusher, the UJ516E offers high performance with minimal downtime. All onboard components are electrically driven, providing exceptional reliability and minimal maintenance. The heavy-duty chassis beams and premium quality components ensure durability and longevity, even in the most hostile environments.



Key benefits

Reliability

- Market leading Sandvik CJ412 for reliability and high performance
- All onboard components are electrically driven providing reliability and requiring minimal maintenance
- Primary feeder utilizes a simple drive system by two unbalanced vibrating motors, maximizing efficiency
- Heavy duty chassis beams, strength analysis on structural parts and quality components for durability
- Capable of operating in the most hostile environments
- Level sensors at jaw feed to ensure trouble free operation and prevent costly breakdowns
- Premium quality components and motorized pulleys for natural fines and main conveyors, life lubricated idlers bearings and life lubricated tail pulley bearings, minimizing the need for service and maintenance

Productivity

- Large intake opening of 1200 x 830 mm / 47" x 33"
- Hydraulically adjustable jaw setting to maximize your output
- Choice of jaw plates and settings for a wide range of applications
- Jaw level sensor which regulates feeder speed to control material height in jaw and optimize production
- Feed station hydraulically lifts off to allow transport in two pieces
- On board hydraulic power pack for swivel in and out / up and down jacking legs controlled by plug in / out remote and lead
- 1400 mm / 55" discharge conveyor
- 500 mm / 20" side discharge conveyor
- Compact size under grizzly screen with high capacity due to the free-fall principle enabling a quick removal of large amounts of fines
- Level sensor at product conveyor discharge
- Basic telematics

Cost of ownership

- Quick to set-up and easy to maintain, resulting in more uptime and higher productivity
- Low cost per ton due to electric operation and reliable Sandvik feeder and crusher
- Quick return on investment and high resale value

Safety

- 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
- Removable and height adjustable electrical control panel to be located on the ground during operation
- Lower jaw platform has access to two other smaller electrical control panels and the jaw adjust powerpack
- Ground level greasing points on conveyors
- All guarding is easily removed for access for the greasing and general maintenance check of tail drum bearings
- Secure platform area to get access to the jaw plate nuts and for viewing the jaw flywheels and belt drive

Support

- Extensive global distributor and sales support network
- Operational advice through our process knowledge and expertise

Sustainability

- Low emissions due to electrical operation, minimizing environmental impact
- Quality components ensure longer lifetime and supports optimized service and maintenance

Technical specification

UJ516E complete with double deck under grizzly independent screen and natural fines conveyor. Ideally suited where a screened fraction size is required on the natural fines conveyor, and an in feed with large % of fines fractions.

Key specifications	UJ516E
Feed-station (Feeder and Hopper)	
Feeder type	Vibrating Grizzly Feeder
Feeder dimensions	1180 mm x 6260 mm / 4' x 21' Step down / 2 sections
Grizzly layout	
Grizzly length (1st section)	1305 mm / 51"
Grizzly length (2nd section)	1050 mm / 41"
Grizzly opening options*	90-150 mm / 3.5-6" 53-112 mm / 2-4.5"
Feeder installed power	2 x 7 kW / 9 HP – 60 Hz
Hopper (standard)	Up to 7.8 m ³ / 10.3 yds ³
Hopper (with extensions)	Up to 13.8 m ³ / 18 yds ³
Crusher	
Type	CJ412
Feed opening	1200 x 830 mm / 47" x 33"
Drive	160 kW / 215 HP 6 pole squirrel cage motor
Discharge conveyor	
Belt width	1400 mm / 55.1"
Length	10 m / 32.8'
Drive	2 x 9.2 kW / 12 HP
Approx discharge height under drum	3.1 m / 10' 2"
Natural fines side conveyor **	
Belt width	500 mm / 19.7"
Length	2.63 m / 8' 5"
Drive	4 kW / 5.4 HP
Approx discharge height under drum	1.5 m / 4' 11"
Magnetic separator **	
Type	CP20 / 100 or equivalent
Drive	1.5 kW / 2 HP
Suspension height	405 mm / 15.9"
Under-screen	
Number of decks	Two deck
Length	2000 mm / 6' 7"
Width	1000 mm / 3' 3"
Installed power	2 x 3 kW / 4 HP – 60 Hz

Standard specification

- Power supply outlets for two additional stockpiling conveyors
- Jaw level sensors
- Self-locking hydraulically folded feed hopper
- AR400 Hopper doors
- AR400 chute liners
- 2 separate gas hydraulic power units for chassis and feed station
- Electric pump high pressure manifold dust suppression
- Dust suppression with spray nozzles fitted at all material discharge areas and crusher
- (4) E-stop buttons in the unit
- (6) hydraulic self-locking run on jacking legs
- Stabilisers on control cabinet
- Jaw nuts access platform on both sides
- Jaw greasing auto-lube system
- All greasing points at one location at ground level for discharge conveyor
- Cables and jacking / landing pads storage transport frame
- Canvas dust cover on the discharge conveyor
- Hydraulic crusher CSS adjust plug in remote on top of the Jaw platform with a clear view
- Discharge conveyor level sensor to stop the feeder – conveyors will still run

Key specifications	UJ516E
Power	
Total power (normal running)	204 kW / 270 HP - 60 Hz
Supply voltage	380 / 400 / 415 / 440 / 460 V
Control voltage	110 - 120 V and 24 Vdc
Frequency options	50 / 60 Hz
Running gear	2" / 3.5" Kingpin, air suspension quadruple axle bogie, with self levelling load sensing valves. Adjustable ride height. EBS and running lights Tyres 295/80 R 22.5 16P R
Transport dimensions	
Chassis (without feed-station)	
Length	18.2 m / 59' 9"
Width	3.25 m / 10' 8"
Height	4.11 m / 13' 6"
Weight	60,000 kg / 132,277 lbs
Transport dimensions	
Feed-station	
Length	8.12 m / 26' 8"
Width	3.2 m / 10' 6"
Height	2.84 m / 9' 4"
Weight	20,000 kg / 44,092.5 lbs
Operating dimensions	
Length	17 m / 55' 9"
Width	3.7 m / 12' 1"
Height	5.5 m / 18'
Performance	
Max feed size	750 mm / 29.5"
Capacity (up to)	165 - 790 mtpd (182 - 871 stph)

Note. All weights and dimensions are for standard units only

Optional equipment

- Hopper extensions
- Panel controlled adjustable raise and lower tower light with 4 individual LED lights directed to any position
- Belt scales on discharge conveyor with display
- Over band magnet on main discharge conveyor – can be set up to discharge either side of machine.
- Foldable natural fines conveyors with self-support
- UL/CE certified removable electrical switchgear, soft starter for crusher motor and VFD for feeder motors. Wireless radio remote control for feeder control

* Application specific. Please contact a Sandvik representative for clarification on specifications and options. ** Optional
Sandvik Group reserves the right to make changes to the information on this data sheet without prior notification to users.

Technical specification

UJ516E complete with vibrating grizzly feeder with integrated mesh deck, fines chute and natural fines conveyor. Suited where basic scalping screening is required to by-pass the jaw chamber at the grizzly aperture size.

Key specifications	UJ516E
Feed-station (Feeder and Hopper)	
Feeder type	Vibrating Grizzly Feeder
Feeder dimensions	1180 mm x 6260 mm / 4' x 21' Step down / 2 sections 1.62 m / 5' 4"
Grizzly layout	
Grizzly length (1st section)	1305 mm / 51"
Grizzly length (2nd section)	1050 mm / 41"
Grizzly opening options*	90-150 mm / 3.5-6" 53-112 mm / 2-4.5"
Feeder installed power	2 x 7 kW / 9 HP – 60 Hz
Hopper (standard)	Up to 7.8 m ³ / 10.3 yds ³
Hopper (with extensions)	Up to 13.8 m ³ / 18 yds ³
Crusher	
Type	CJ412
Feed opening	1200 x 830 mm / 47" x 33"
Drive	160 kW / 215 HP 6 pole squirrel cage motor
Discharge conveyor	
Belt width	1400 mm / 55.1"
Length	10 m / 32.8'
Drive	2 x 9.2 kW / 12 HP
Approx discharge height under drum	3.1 m / 10' 2"
Natural fines side conveyor **	
Belt width	500 mm / 19.7"
Length	2.63 m / 8' 5"
Drive	4 kW / 5.4 HP
Approx discharge height under drum	1.5 m / 4' 11"
Magnetic separator **	
Type	CP20 / 100 or equivalent
Drive	1.5 kW / 2 HP
Suspension height	405 mm / 15.9"

Key specifications	UJ516E
Power	
Total power (normal running)	197 kW / 264 HP - 60 Hz
Supply voltage	380 / 400 / 415 / 440 / 460 V
Control voltage	110 - 120 V and 24 Vdc
Frequency options	50 / 60 Hz
Running gear	2" / 3.5" Kingpin, air suspension quadruple axle bogie, with self levelling load sensing valves. Adjustable ride height. EBS and running lights Tyres 295/80 R 22.5 16P R
Transport dimensions	
Chassis (without feed-station)	
Length	18.2 m / 59' 9"
Width	3.25 m / 10' 8"
Height	4.11 m / 13' 6"
Weight	60,000 kg / 132,277 lbs
Transport dimensions	
Feed-station	
Length	8.12 m / 26' 8"
Width	3.2 m / 10' 6"
Height	2.84 m / 9' 4"
Weight	20,000 kg / 44,092.5 lbs
Operating dimensions	
Length	17 m / 55' 9"
Width	3.7 m / 12' 1"
Height	5.5 m / 18'
Performance	
Max feed size	750 mm / 29.5"
Capacity (up to)	165 - 790 mtpd (182 - 871 stph)

Note. All weights and dimensions are for standard units only

Standard specification

- Power supply outlets for two additional stockpiling conveyors
- Jaw level sensors
- Self-locking hydraulically folded feed hopper
- AR400 Hopper doors
- AR400 chute liners
- 2 separate gas hydraulic power units for chassis and feed station
- Electric pump high pressure manifold dust suppression
- Dust suppression with spray nozzles fitted at all material discharge areas and crusher
- (4) E-stop buttons in the unit
- (6) hydraulic self-locking run on jacking legs
- Stabilisers on control cabinet
- Jaw nuts access platform on both sides
- Jaw greasing auto-lube system
- All greasing points at one location at ground level for discharge conveyor
- Cables and jacking / landing pads storage transport frame
- Canvas dust cover on the discharge conveyor
- Hydraulic crusher CSS adjust plug in remote on top of the Jaw platform with a clear view
- Discharge conveyor level sensor to stop the feeder – conveyors will still run

Optional equipment

- Hopper extensions
- Panel controlled adjustable raise and lower tower light with 4 individual LED lights directed to any position
- Belt scales on discharge conveyor with display
- Over band magnet on main discharge conveyor – can be set up to discharge either side of machine.
- Foldable natural fines conveyors with self-support
- UL/CE certified removable electrical switchgear, soft starter for crusher motor and VFD for feeder motors. Wireless radio remote control for feeder control

* Application specific. Please contact a Sandvik representative for clarification on specifications and options. ** Optional
Sandvik Group reserves the right to make changes to the information on this data sheet without prior notification to users.