

UJ440i jaw crusher unit in Action

Technical specification sheet



- The UJ440i comes in 3 basic types:
 - Comfort: feeder with grizzly, by-pass chute and an optional Natural Fine removal conveyor.
 - Classic: feeder with grizzly, by-pass chute, NF screen and optional NF conveyor.
 - Trend: separate feeder, separate screen with stepped grizzly on top.
- Trouble free and optimal production ensured by on board high level Intelligence and advanced process automation.
- Rubber lined impact zones to reduce wear and noise.
- Step less speed regulation of the feeder.
- The discharge conveyors are fitted with belt scrapers, steering rolls, and impact bars under the crusher. Dimensions are: width 1400mm (52"), discharge height 3.3 – 3.8m (10'10" – 12'5")
- A wide range of jaw plates for different applications are available.
- Jaw setting is by hydraulic CCS with wedges.
- Ease of inspection and maintenance easily accessible maintenance points with inspection points situated on top of the crusher and around the power pack.
- Flash lights and a siren provide visual and sound warning of movement and stand by status.
- The UJ440i is manoeuvred and the process is controlled by radio remote control (option) and has a chord connected remote control as a back-up.
- Sensors are situated at strategic locations to ensure trouble free operation and safe guard against costly breakdowns.
- The unit is transported in one piece with all components remaining on board.
- Emergency stop buttons are located at the most appropriate places.
- Optional NF conveyor: dimensions are width - 500mm (20"), discharge height - 3m (9'10")
- No oil spillage at filter changes due to vacuumized hydraulic system and dust suppression systems.

Technical specifications

UJ440i Jaw	Comfort	Classic	Trend
Operation			
Height	4.25m / 13.9'	4.25m / 13.9'	4.90m / 16.1'
Width	3.13m / 10.3'	3.13m / 10.3'	3.58m / 11.7' *1
Length	16.37m / 53.7'	16.37m / 53.7'	17.90m / 58.7'
Transport			
Height	3.91m / 12.8'	3.91m / 12.8'	3.91m / 12.8'
Width	3.00m / 9.8'	3.00m / 9.8'	3.39m / 11.1' *1
Length	16.43m / 53.9'	16.43m / 53.9'	18.00m / 59.1'
Weight excluding options	62.5mton/ 69ston	63mton/ 69.5ston	74mton/ 81.5ston
*1 Including feed hopper sides mounted			
Feed station			
Feeder type	SW1253	SW1252	ST1241
Grizzly length	1.2m / 4'	1.2m / 4'	-
Hopper	6 m3 / 210 ft3	6 m3 / 210 ft3	10 m3 / 350 ft3
Screen type	-	SS1012	ST1222
Decks	-	2	2 (stepped grizzly on top)
Crusher			
Type	CJ412	CJ412	CJ412
Feed opening	1200x800mm / 48x32"	1200x800mm / 48x32"	1200x800mm / 48x32"
Drive	From diesel engine via V-belts and hydraulic coupling	From diesel engine via V-belts and hydraulic coupling	From diesel engine via V-belts and hydraulic coupling
Discharge conveyor			
Belt width	1400mm / 52"	1400mm / 52"	1400mm / 52"
Drive	Fixed speed hydraulic motors	Fixed speed hydraulic motors	Fixed speed hydraulic motors
Reversible	Yes	Yes	Yes
Approx. discharge height under drum	3.3-3.8m 10'10" +/- 10"	3.3-3.8m 10'10" +/- 10"	3.3-3.8m 10'10" +/- 10"
On-board power pack			
Diesel engine	Volvo TAD 1252 tier III	Volvo TAD 1252 tier III	Volvo TAD 1252 tier III
Rated output	300kW / 408hp at 1500rpm	300kW / 408hp at 1500rpm	300kW / 408hp at 1500rpm
Fuel tank volume	1125dm3 / 300 US gallons	1125dm3 / 300 US gallons	1125dm3 / 300 US gallons
Hydraulic system			
Power source	Pumps mounted on power pack	Pumps mounted on power pack	Pumps mounted on power pack
Oil volume	415dm3 / 296 US Gallons	415dm3 / 296 US Gallons	415dm3 / 296 US Gallons
Crawler tracks			
Type	D6C	D6C	D6C
Length c/c	4170mm / 164"	4170mm / 164"	4170mm / 164"
Track shoe width	500mm / 19.5"	500mm / 19.5"	500mm / 19.5"
Performance			
Max. feed size	760mm / 30"	760mm / 30"	760mm / 30"
Capacity (up to)	700mtph	700mtph	700mtph
Approx. fuel consumption at 75% continuous load	25-35l/h / 7-9 US Gallons/h	25-35l/h / 7-9 US Gallons/h	25-35l/h / 7-9 US Gallons/h
Traveling speed	1.2 km/h	1.2 km/h	1.2 km/h
Max.slope-climbing capability	Approx. 20°	Approx. 20°	Approx. 20°

Options

CM1	Over band magnet
CM4	Dust filter
CM5A	NF conveyor incl. support details (7,2m x 500mm)
CM6	Automatic lubrication system for the jaw crusher
CM7	Hydraulic hammer set. Complete with hammer and boom (type BR927 and BB1425)
CM7A	Preparation for hydraulic hammer (type BR927)
CM8	Water spray system. (Spray nozzles both on crusher and discharge conveyor)
CM10	Belt scale on discharge conveyor
CM11	Radio remote control
CM12	King pin for dolly (2 pcs.)
CM14	Flood lights for the crawler tracks
CM18	Diesel driven heater for the engine

CM20	Adaption mines and quarries for UK
CM29	Complete manometer & o-ring set
CM29A	Complete filter set first service
CM30	Level indicator for stock pile at discharge end, recommended to be used on UJ440i discharge conveyor in combination with option CM36 on US440i and UH440i
CM31	Lifting arrangement for shipping
CM35	Sandvik wear protection in feed hopper and foldable hopper sides
CM36	Hanging screen module with open circuit screen 1500x3000 1d incl. 2 prod. conveyors (Comfort and Classic only)
CM41	Extra shims behind the jaw plates.
CM42	Support frame for separate transport of feed station. (Comfort and Classic only)

The units depicted show all options currently available, and the colour scheme reflects the eventual scheme to be used. Current models may differ from those featured in this brochure. Please contact Sandvik to clarify specification and options. The material in this brochure is of general application for information and guidance only, and no representation or warranty is made or given by the manufacturer that its products will be suitable for a customer's particular purpose and enquiry should always be made of the manufacturer to ensure such suitability. Whilst reasonable efforts have been made in the preparation of this document to ensure its accuracy. The manufacturer assumes no liability resulting from errors or omissions in this document, or from the use or interpretation of the information contained herein. The manufacturer reserves the right to make changes to the information in this brochure and the product design without reservation and without notification to users.

SANDVIK MINING AND CONSTRUCTION (UK) HEARTHCOTE ROAD SWADLINCOTE DERBYSHIRE DE11 9DU ENGLAND
TEL +44 (0)1283 212121 FAX +44 (0) 1283 217342 mobilecs.smc@sandvik.com www.miningandconstruction.sandvik.com

