

# 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 gaurd 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   |
|---|---|---|---|
| <b>Operation</b>                                |   |   |   |
| 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'  |
| <b>Transport</b>                                |   |   |   |
| 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/ 69.5ston                                    | 63mton/ 69.5ston                                      | 74mton/ 81.5ston                                      |
| *1 Including feed hopper sides mounted          |   |   |   |
| <b>Feed station</b>                             |   |   |   |
| 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)                            |
| <b>Crusher</b>                                  |   |   |   |
| 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 |
| <b>Discharge conveyor</b>                       |   |   |   |
| 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"                               |
| <b>On-board power pack</b>                      |   |   |   |
| 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                              |
| <b>Hydraulic system</b>                         |   |   |   |
| 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                               |
| <b>Crawler tracks</b>                           |   |   |   |
| 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"   |
| <b>Performance</b>                              |   |   |   |
| 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  | CM20  | Adaption mines and quarries for UK  |
| CM4  | Dust filter   | CM29  | Complete manometer & o-ring set   |
| CM5A | NF conveyor incl. support details (7,2m x 500mm)                            | CM29A | Complete filter set first service   |
| CM6  | Automatic lubrication system for the jaw crusher                            | 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 |
| CM7  | Hydraulic hammer set. Complete with hammer and boom (type BR927 and BB1425) | CM31  | Lifting arrangement for shipping  |
| CM7A | Preparation for hydraulic hammer (type BR927)                               | CM35  | Sandvik wear protection in feed hopper and foldable hopper sides  |
| CM8  | Water spray system. (Spray nozzles both on crusher and discharge conveyor)  | CM36  | Hanging screen module with open circuit screen 1500x3000 1d incl. 2 prod. conveyors (Comfort and Classic only)  |
| CM10 | Belt scale on discharge conveyor  | CM41  | Extra shims behind the jaw plates.  |
| CM11 | Radio remote control  | CM42  | Support frame for separate transport of feed station. (Comfort and Classic only)  |
| CM12 | King pin for dolly (2 pcs.)   |       |   |
| CM14 | Flood lights for the crawler tracks   |       |   |
| CM18 | Diesel driven heater for the engine   |       |   |

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.