

UJ440i jaw crusher unit

Technical specification sheet



The UJ440i is a heavy-duty jaw crusher built using the latest technology which has proven capable of operating in the toughest climatic conditions. Featuring the market leading Sandvik CJ412 jaw with a feed opening of 1200 x 830mm / 47 1/4" x 32 3/4" it has a hydraulically adjustable CSS setting with wedges and a choice of jaw plates making it suitable for a wide range of different applications. Trouble free and optimal production is ensured by an onboard high level Intelligence system as standard.

The UJ440i comes in 3 basic types:

- Comfort: Feeder with grizzly, by-pass chute and an optional NF conveyor.
- Classic: Feeder with grizzly, by-pass chute, NF screen and optional NF conveyor.
- Trend: Separate feeder, separate screen with stepped grizzly on top.

Features include:

- Rubber lined impact zones to reduce wear and noise.
- Step less speed regulation of the feeder.

- The discharge conveyors are fitted with belt scales, steering rolls, and impact bars under the crusher. Dimensions are: width 1400mm (52"), discharge height 3.3 – 3.8m (10' 10" – 12' 5").
- Platforms are located around the crusher and powerpack to provide easy access for service and maintenance.
- Radio remote control fitted as standard.
- Sensors are situated at strategic locations to ensure trouble free operation and safe guard against costly breakdowns.
- The unit is easily transported in one piece with all components remaining on board.
- Emergency stop buttons are located throughout the machine.
- Optional Natural Fines conveyor: dimensions are width - 500mm (20"), discharge height - 3m (9' 10")
- No oil spillage during filter changes due to vacuumised hydraulic system and dust suppression systems.

UJ440i Jaw	Comfort	Classic	Trend
Hopper			
Type	Hyd Folding - Side and Rear	Hyd Folding - Side and Rear	Manual Folding - Side and Rear
Width	3130mm / 10' 3 1/4"	3130mm / 10' 3 1/4"	3678mm / 12' 1"
Length	5105mm / 16' 9"	5105mm / 16' 9"	5574mm / 18' 3 1/2"
Level Capacity	6 m³ / 7.85 yds³	6 m³ / 7.85 yds³	10 m³ / 13.1 yds³
Rear Loading Height	3825mm / 12' 7"	3825mm / 12' 7"	4657mm / 15' 3"
Feeder			
Type	SW1253H - Hyd Var Speed Grizzly	SW1252H - Hyd Var Speed Grizzly Feeder	ST1241 - Hyd Var Speed Pan Feeder
Width	1200mm / 47 1/2"	1200mm / 47 1/2"	1080mm / 42 1/2"
Total Length	4850mm / 15' 11"	4850mm / 15' 11"	3500mm / 11' 5 1/4"
Grizzly Length	1550mm / 61"	1550mm / 61"	-
Standard Aperture	90mm max / 3 1/2"	90mm max / 3 1/2"	-
Pre Screen			
Type	-	SS1012 (Under Feeder Screen)	ST1222 - Live Pre Screen
Number of Decks	-	2	2
Top Deck	-	Screen Media	Stepped Grizzly Section
Bottom Deck	-	Screen Media	Screen Media
Width	-	1020mm / 40 1/4"	1150mm / 45 1/4"
Length	-	1110mm / 43 1/2"	2070mm / 6' 9 1/2"
Standard Top Deck Aperture	-	Mesh Sizes Optional	105mm / 4"
Crusher			
Type	Single Toggle - CJ412	Single Toggle - CJ412	Single Toggle - CJ412
Feed Opening	1200 x 830mm / 47 1/4" x 32 3/4"	1200 x 830mm / 47 1/4" x 32 3/4"	1200 x 830mm / 47 1/4" x 32 3/4"
Speed	240 rpm	240 rpm	240 rpm
Adjustment Type	Hyd Wedge	Hyd Wedge	Hyd Wedge
Drive	Direct via V Belts	Direct via V Belts	Direct via V Belts
CSS Range	100 - 275mm / 4" - 11"	100 - 275mm / 4" - 11"	100 - 275mm / 4" - 11"
Main Conveyor			
Width	1400mm / 4' 7"	1400mm / 4' 7"	1400mm / 4' 7"
Length	23,550mm / 77' 3"	23,550mm / 77' 3"	23,550mm / 77' 3"
Discharge Height	4045mm / 13' 3"	4045mm / 13' 3"	4045mm / 13' 3"
Raise/Lower	Yes - Manually	Yes - Manually	Yes - Manually
Head Drum Dia.	340mm / 13 1/2"	340mm / 13 1/2"	340mm / 13 1/2"
Tail Drum Dia.	250mm / 10"	250mm / 10"	250mm / 10"
Drive	Hyd Motor	Hyd Motor	Hyd Motor
Motor CC	750 cc / 45.7 cu inch	750 cc / 45.7 cu inch	750 cc / 45.7 cu inch
Tracks			
Length (Centres)	4170mm / 13' 8"	4170mm / 13' 8"	4170mm / 13' 8"
Width (Shoe)	500mm / 19 3/4"	500mm / 19 3/4"	500mm / 19 3/4"
Drive	Hyd/Gearbox	Hyd/Gearbox	Hyd/Gearbox
Control	Umbilical (Radio Optional)	Umbilical (Radio Optional)	Umbilical (Radio Optional)
Powerpack			
Type	Volvo D13	Volvo D13	Volvo D13
Stage/Tier	Stage 3B/Tier 4i	Stage 3B/Tier 4i	Stage 3B/Tier 4i
Engine Power	315 kW / 422 hp	315 kW / 422 hp	315 kW / 422 hp
Clutch	21 KPTO Fluid Coupling	21 KPTO Fluid Coupling	21 KPTO Fluid Coupling
Diesel Tank Capacity	1125 litres / 297 US Gal	1125 litres / 297 US Gal	1125 litres / 297 US Gal
Hyd Tank Capacity	415 litres / 110 US Gal	415 litres / 110 US Gal	415 litres / 110 US Gal
General Tech Data			
Transport Dimensions			
Length	16.58m / 54' 5"	16.58m / 54' 5"	58' 10"
Width	3.0m / 9' 10"	3.0m / 9' 10"	9' 10"
Height	3.92m / 12' 10"	3.92m / 12' 10"	12' 10"
Cubic Volume	195 m³ / 6886 ft³	195 m³ / 6886 ft³	7440.8 ft³
Transport Weight	62,500 kg / 137,790 lbs	63,000 kg / 138,890 lbs	74,000 kg / 163,142 lbs
Operating Dimensions			
Length	16.41m / 53' 10"	16.41m / 53' 10"	17.75m / 58' 3"
Width	3.13m / 10' 3"	3.13m / 10' 3"	3.70m / 12' 2"
Height	4.26m / 14' 0"	4.26m / 14' 0"	4.95m / 16' 3"
Operating Weight	62,500 kg / 137,790 lbs	63,000 kg / 138,890 lbs	74,000 kg / 163,142 lbs
Performance			
Max Feed Size	760mm / 2' 6"	760mm / 2' 6"	760mm / 2' 6"
Capacity (up to)	700 tph / 772 stph	700 tph / 772 stph	700 tph / 772 stph
Travel Speed	1.2 kph / 0.75 mph	1.2 kph / 0.75 mph	1.2 kph / 0.75 mph
Max Incline	20°	20°	20°
Max Incline (Side to Side)	10°	10°	10°

Note. All weights and dimensions are for standard units only

Options

Overband Magnet
Dust Filter System
Natural Fines Conveyor
Auto Lube for Jaw Crusher Bearings
Hydraulic Hammer and Boom
Preparation for Hydraulic Hammer
Spray Nozzles on Crusher and Discharge Conveyor
High Pressure Water Pump - Dust Suppression
Belt Scale on Main Conveyor
King Pin for Dolly
Webasto Engine Coolant Heater

Block Heating for Engine
Adaption for UK Mines and Quarries
Pressure Gauges and O Ring Set
Stockpile Conveyor Level Sensors
Lifting Arrangement for Shipping
Sandvik High Impact Rubber Liners for Hopper
Hanging Screen System (Open Circuit)
Jaw Plate Shims
Support Frame for Feeder Station Transport
Complete First Service Filter Kit
Ambient Package

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.

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