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 $\frac{1}{4}$ x 32 $\frac{3}{4}$ " 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.



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Length - 111 Standard Top Deck Aperture - Met Crusher - Met Type Single Toggle - CJ412 Single - CJ412<	10mm / 43 ½" esh Sizes Optional hgle Toggle - CJ412 00 x 830mm / 47 ¼" x 32 ¾" 0 rpm d Wedge ect via V Belts	2070mm / 6' 9 ½" 105mm / 4" Single Toggle - CJ412 1200 x 830mm / 47 ½" x 32 ¾"
Number - Met Crusher - Met Type Single Toggle - C.J412	ssh Sizes Optional ngle Toggle - CJ412 00 x 830mm / 47 ¼" x 32 ¾" 0 rpm d Wedge ect via V Belts	105mm / 4" Single Toggle - CJ412 1200 x 830mm / 47 ½" x 32 ½"
Crusher Single Toggle - C.1412 <t< td=""><td>ngle Toggle - CJ412 00 x 830mm / 47 ¼" x 32 ¼" 0 rpm d Wedge ect via V Belts</td><td>Single Toggle - CJ412 1200 x 830mm / 47 1/2" x 32 1/2"</td></t<>	ngle Toggle - CJ412 00 x 830mm / 47 ¼" x 32 ¼" 0 rpm d Wedge ect via V Belts	Single Toggle - CJ412 1200 x 830mm / 47 1/2" x 32 1/2"
Crusher Single Toggle - C.1412 <t< td=""><td>ngle Toggle - CJ412 00 x 830mm / 47 ¼" x 32 ¼" 0 rpm d Wedge ect via V Belts</td><td>Single Toggle - CJ412 1200 x 830mm / 47 1/2" x 32 1/2"</td></t<>	ngle Toggle - CJ412 00 x 830mm / 47 ¼" x 32 ¼" 0 rpm d Wedge ect via V Belts	Single Toggle - CJ412 1200 x 830mm / 47 1/2" x 32 1/2"
Type Single Toggle - CJ412 Single - CJ412 Single Toggle - CJ412 Single Toggle - CJ412 Single Toggle - CJ412 Single - CJ412	00 x 830mm / 47 ¼" x 32 ¼" 0 rpm d Wedge ect via V Belts	1200 x 830mm / 47 ¼" x 32 ¾"
Feed Opening 1200 x 830mm / 47 ½ x 32 ½" 1220 Speed 240 rpm 240 Adjustment Type Hyd Wedge Hyd Drive Direct via V Belts Direct via V Belts DSs Range 100 - 275mm / 4" - 11" Direct via V Belts Width 1400mm / 4 7" 140 Length 240,550mm / 77 3" 240 Discharge Height 4045mm / 13' 3" 400 Raise/Lower Yes - Manually Yes Head Drum Dia. 240mm / 13 ½" 240 Drive Hyd Motor Hyd Motor CC 750 cc / 45.7 cu inch 750 Drive 4170mm / 13 8" 400 Drive 4170mm / 13 %" 500 Drive 4170mm / 13 8" 500 Drive Hyd Gearbox Hyd Drive Hyd Gearbox	00 x 830mm / 47 ¼" x 32 ¼" 0 rpm d Wedge ect via V Belts	1200 x 830mm / 47 ¼" x 32 ¾"
Speed 240 rpm 244 Adjustment Type Hyd Wedge Hyd Dirve Direct via V Belts Dirot CSS Range 100 - 275mm / 4" - 11" 100 Main Conveyor V Main Conveyor 144 Length 1400mm / 4' 7" 144 Length 23,550mm / 77 3" 23,350mm / 13" 3" Discharge Height 4045mm / 13 3" 404 Raise/Lower Yes - Manually Yes Head Drum Dia. 240mm / 13 ½" 344 Tail Drum Dia. 250mm / 10" 250 Drive Hyd Motor Hyd Motor CC 750 cc / 45.7 cu inch 750 Tracks V 1400mm / 13 %" 140 Udith (Shoe) 500mm / 19 ¾" 500 Drive Hyd Glearbox Hyd Onve Hyd Glearbox Hyd Drive Umbilical (Radio Optional) Um Powerpack Volvo D13 Volvo	0 rpm d Wedge rect via V Belts	
Adjustment Type Hyd Wedge Hyd Dirve Direct via V Belts Dir CSS Range 100 - 275mm / 4" - 11" 100 Main Conveyor V 140 Width 1400mm / 4" 7" 144 Length 23,550mm / 7" 3" 23,00 Discharge Height 4045mm / 13" 3" 404 Haad Drum Dia. 340mm / 13 %" 344 Tall Drum Dia. 250mm / 10" 250 Drive Hyd Motor Hyd Motor CC 750 cc / 45.7 cu inch 750 Tracks V 400 Uidth (Shoe) 500mm / 13 %" 500 Drive 4170mm / 13 %" 500 Drive 1400mm / 13 %" 500 Uidth (Shoe) 500mm / 19 %" 500 Drive Hyd Gearbox Hyd Powerpack Valvo D13 700	d Wedge rect via V Belts	240 rpm
Direct via V Belts Direct via V Partici V Aet Direct via V Partici V Aet Direct via V Partici V Aet Direct via V Partici V Part	rect via V Belts	
CSS Range 100 - 275mm / 4" - 11" 100 Main Conveyor 1400mm / 4" - 11" 1400mm / 4" - 11" Width 1400mm / 4" 7" 140 Length 23,550mm / 77" 3" 23, Discharge Height 4045mm / 13" 3" 404 Raise/Lower Yes - Manually Yee Head Drum Dia. 260mm / 13", 3" 344 Tail Drum Dia. 260mm / 13", 3" 344 Tail Drum Dia. 260mm / 13", 3" 344 Drive Hyd Motor Hyd Motor CC 750 cc / 45.7 cu inch 750 Tracks 100mm / 13" 8" 410 Width (Shoe) 500mm / 13" 8" 410 Drive 4170mm / 13" 8" 410 Control Hyd/Gearbox Hyd Drive Umbilical (Radio Optional) Hyd Powerpack 100 100		Hyd Wedge
Main Conveyor Main Conveyor Wildth 1400mm /4 7" 140 Length 23,550mm / 77 3" 23, Discharge Height 4045mm / 13 3" 404 Raise/Lower Yes - Manually Yes Head Drum Dia. 340mm / 13 3" 404 Tall Drum Dia. 250mm / 10" 265 Drive Hyd Motor Hyd Motor CC 750 cc / 45.7 cu inch 750 Tacks 750 750 750 Urive 4170mm / 13" 8" 401 Width (Shoe) 500mm / 19",4" 500 Drive Hyd/Gearbox Hyd Powerpack Type Volvo D13 Volvo	0 - 275mm / 4" - 11"	Direct via V Belts
Width 1400mm / 4' 7" 144 Length 23,550mm / 77 '3" 23, Discharge Height 4045mm / 13' 3" 404 Raise/Lower Yes - Manually Yes Head Drum Dia. 340mm / 13 '3" 404 Tail Drum Dia. 250mm / 10" 260 Drive Hyd Motor Hyd Motor CC 750 cu inch 750 Tracks 4170mm / 13' 8" 417 Urive 4170mm / 13' 8" 500 Drive 500mm / 19 '4" 500 Drive Hyd/Gearbox Hyd Control Umbilical (Radio Optional) Um Powerpack Yolvo D13 Yolvo		100 - 275mm / 4" - 11"
Width 1400mm / 4' 7" 144 Length 23,550mm / 77 '3" 23, Discharge Height 4045mm / 13' 3" 404 Raise/Lower Yes - Manually Yes Head Drum Dia. 340mm / 13 '3" 404 Tail Drum Dia. 250mm / 10" 260 Drive Hyd Motor Hyd Motor CC 750 cu inch 750 Tracks 4170mm / 13' 8" 417 Urive 4170mm / 13' 8" 500 Drive 500mm / 19 '4" 500 Drive Hyd/Gearbox Hyd Control Umbilical (Radio Optional) Um Powerpack Yolvo D13 Yolvo		
Length 23,550mm / 77 '3" 23, Discharge Height 4045mm / 13' 3" 404 Raise/Lower Yes - Manually Yes Head Drum Dia. 340mm / 13 '4" 340 Tail Drum Dia. 250mm / 10" 250 Dirke Pdd Motor 750 Dirke 4170mm / 13'8" 411 Woth CC 500mm / 19'4" 500 Dirke 4170mm / 13'8" 411 Witht (Shoe) 500mm / 19'4" 500 Dirke Hyd/Gearbox Hyd Powerpack Volvo D13 Volvo D13	00mm / 4' 7"	1400mm / 4' 7"
Adv5mm / 13' 3" 404 Raise/Lower Yes - Manually Yes Head Drum Dia. 340mm / 13 '3" 340 Tail Drum Dia. 340mm / 13 '3" 340 Tail Drum Dia. 250mm / 10" 250 Drive Hyd Motor Hyd Motor CC 750 cc / 45.7 cu inch 750 Tracks 1000 13" 400 Uridt (Shoe) 500mm / 19 '4" 500	.550mm / 77' 3"	23.550mm / 77' 3"
Raise/Lower Yes - Manually Yes Head Drum Dia. 340mm / 13 ½° 344 Tail Drum Dia. 250mm / 10° 250 Drive Hyd Motor Hyd Motor CC 750 cc / 45.7 cu inch 750 Tracks 1000 1000 1000 Udith (Shoe) 500mm / 19 ¾° 500 500 Drive Hyd/Gearbox Hyd 500 Drive Umbilical (Radio Optional) Umbilical (Radio Optional) Umbilical (Radio Optional)		
Head Drum Dia. 340mm / 13 ½° 344 Tail Drum Dia. 250mm / 10° 256 Drive Hyd Motor Hyd Motor CC 750 cc / 45.7 cu inch 750 Tracks 750 750 Undy (Centres) 4170mm / 13'8° 4170 Width (Shoe) 500mm / 19 ¾° 500 Drive Hyd/Gearbox Hyd Control Umbilical (Radio Optional) Um Powerpack Yolvo D13 Yolvo	45mm / 13' 3"	4045mm / 13' 3"
Tail Drum Dia. 250mm / 10" 255 Drive Hyd Motor Hyd Motor CC 750 cc / 45.7 cu inch 750 Tracks 1000 mm / 13" 8" 410 Unidh (Shoe) 4170mm / 13" 8" 410 Drive Hyd/Gearbox 500 mm / 19" 3" Control Umbiliad (Radio Optional) Um Powerpack Volvo D13 Volvo	s - Manually	Yes - Manually
Drive Hyd Motor Hyd Motor CC 750 cc / 45.7 cu inch 750 Tracks 4170 4170 Length (Centres) 4170 mm / 13'8" 417 Width (Shoe) 500 mm / 19 ¼" 500 Drive Hyd/Gearbox Hyd Control Umbilical (Radio Optional) Um Powerpack Yolvo D13 Volvo	0mm / 13 1⁄2"	340mm / 13 1/2"
Motor CC 750 cc / 45.7 cu inch 75 Tracks 750 cc / 45.7 cu inch 75 Length (Centres) 4170mm / 13' 8" 417 Width (Shoe) 500mm / 19 %" 500 Drive Hyd/Gearbox Hyd Control Umbilical (Radio Optional) Um Powerpack 70 Volvo D13 Volvo D13	0mm / 10"	250mm / 10"
Motor CC 750 cc / 45.7 cu inch 750 cc /	d Motor	Hyd Motor
Tracks Fracks Fracks<	0 cc / 45.7 cu inch	750 cc / 45.7 cu inch
Length (Centres) 4170 mm / 13' 8" 417 Width (Shoe) 500 mm / 19 ¼" 500 Drive Hyd/Gearbox Hyd Control Umbilical (Radio Optional) Um Powerpack Yolvo D13 Volvo		
Wildh (Shoe) 500mm / 19 ¾* 500 Drive Hyd/Gearbox Hyd Control Umbilical (Radio Optional) Um Powerpack Yolvo D13 Volvo		
Drive Hyd/Gearbox Hyr Control Umbilical (Radio Optional) Um Powerpack Volvo D13 Volvo	70mm / 13' 8"	4170mm / 13' 8"
Control Umbilical (Radio Optional) Um Powerpack Type Volvo D13 Vol	0mm / 19 ¾"	500mm / 19 ¾"
Powerpack Type Volvo D13 Vol	d/Gearbox	Hyd/Gearbox
Type Volvo D13 Vol	nbilical (Radio Optional)	Umbilical (Radio Optional)
	lvo D13	Volvo D13
	age 3B/Tier 4i	Stage 3B/Tier 4i
	5 kW / 422 hp	315 kW / 422 hp
	KPTO Fluid Coupling	21 KPTO Fluid Coupling
Diesel Tank Capacity 1125 litres / 297 US Gal 112	25 litres / 297 US Gal	1125 litres / 297 US Gal
Hyd Tank Capacity 415 litres / 110 US Gal 415	5 litres / 110 US Gal	415 litres / 110 US Gal
General Tech Data		
Transport Dimensions		
	.58m / 54' 5"	58' 10"
-		
	0m / 9' 10"	9' 10"
•	92m / 12' 10"	12' 10"
Cubic Volume 195 m³ / 6886 ft³ 195	5 m³ / 6886 ft³	7440.8 ft ³
Transport Weight 62,500 kg / 137,790 lbs 63,	,000 kg / 138,890 lbs	74,000 kg / 163,142 lbs
Operating Dimensions		
	.41m / 53' 10"	17.75m / 58' 3"
	I3m / 10' 3"	3.70m / 12' 2"
-	26m / 14' 0"	4.95m / 16' 3"
	,000 kg / 138,890 lbs	74,000 kg / 163,142 lbs
Performance		
Max Feed Size 760mm / 2' 6" 760	0mm / 2' 6"	760mm / 2' 6"
Capacity (up to) 700 tph / 772 stph 700	0 tph / 772 stph	700 tph / 772 stph
		1.2 kph / 0.75 mph
Max Incline 20° 20°	2 kph / 0.75 mph	20°
Max Incline (Side to Side) 10° 20	2 kph / 0.75 mph	20 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 statist 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. other countries

