Sandvik QJ341 jaw crusher unit in Action

Technical specification sheet



The QJ341 is the latest development in the series of tracked jaw crushers that utilises Sandvik's unrivalled design and manufacturing expertise, that builds upon the success of one of the world's best-selling track mounted mobile jaw crushers.

Compact and mobile, the QJ341 maintains the operational features of the QJ340, such as hydraulic adjustment and reversible jaw, but has now been upgraded to meet Stage 3B/Tier 4i legislation whilst also including a number of new and improved design features as standard to achieve greater productivity and ease of maintenance. These features include:

- New Danfoss hydraulic control system for greater efficiency with all controls located at ground level for ease of access and maintenance.
- Full PLC control system and Danfoss colour screen allowing visual data output of all plant operating parameters.
- Improved load control system for feeder drive to ensure continuous, uninterrupted crushing.
- Level sensor fitted to jaw to control feed rate into the crusher thereby maximising production.
- Steel pipe work used extensively to give superior heat dissipation and to provide a maintenance free sealing solution.
- Speed wheel fitted to main conveyor to stop the feeder, negating the need to dig out a heavily loaded conveyor.
- Hydraulically driven cooling fan allows fan speed control to give increased efficiency, and auto reverse facility to periodically back flush any dust build up in the radiator.
- Proportional control for tracking the machine producing enhanced mobility.
- Enhanced fuel economy with emissions reduced by up to 45% for lower cost of ownership, and reduced carbon footprint.
- Capable of operating in the most hostile environments with a 50°C ambient temperature capability without any oil changes.
- Hydraulic raise and lower facility fitted to the main conveyor for clearance of rebar in recycling applications.
- Tunnel arrangement to reduce catchment points in recycled materials

These new features are aimed at ensuring the QJ341 is now as user and environmentally focused as it is productive and versatile. The QJ341 is designed to be equally productive in both hard rock and recycling applications and is therefore the ultimate all round workhorse providing maximum efficiency and productivity whilst minimising cost of ownership.

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Technical specifications

	QJ341
Hopper	
Type	Hyd Folding - Side and Rear 15 mm / ⅝“ thick
Width	2471 mm / 8’ ¼”
Length	4339 mm / 14’ 2 ⅞”
Level Capacity	5.1 m³ / 6.8 yds³
Heaped Capacity	9.4 m³ / 12.3 yds³
Rear Loading Height	4041 mm / 13’ 3 ⅛”
Feeder	
Type	Hyd - Variable Speed Grizzly
Width	1100 mm / 43”
Total Length	4000 mm / 13’ 1 ½”
Grizzly Length	1630 mm / 64”
Standard Aperture	35 - 75 mm / 1 ⅜” - 3”
Crusher	
Type	Single Toggle - C12
Feed Opening	1200 x 750 mm / 47 x 29”
Speed	320 rpm
Adjustment Type	Hyd Wedge
Drive	Hyd via V Belts
CSS Range	50 - 175 mm / 2” - 7”
Motor Type	Danfoss
Motor cc	250 cc / 15.25 cu inch
Hydraulically lowering Main Conveyor	
Belt Width	1000 mm / 39½”
Belt Length (endless)	24500 mm / 80’ 4 ½”
Discharge Height	3859 mm / 12’ 8”
Head Drum Dia.	371 mm / 14 ½”
Tail Drum Dia.	276 mm / 10 ½”
Drive	Hyd Motor
Motor CC	624 cc / 38.1 cu inch
Tracks	
Length (Centres)	3715 mm / 12’ 2”
Width (Shoe)	500 mm / 19 ¾”
Drive	Prop Hyd / Gearbox
Control	Radio / Umbilical

	QJ341
Powerpack	
Engine	Stage 3A / Tier 3 CAT C9 / C9.3 Acert or Stage 3B / Tier 4i CAT C9 / C9.3 Acert
Engine Power	261 kW / 350 hp
Diesel Tank Capacity	660 litres / 174 US Gal
Hyd Tank Capacity	660 litres / 174 US Gal
Standard Options	
Magnet	
Model	Eriez CP20/80 - SC2
Weight	800 kg / 1764 lbs
Belt Width	750 mm / 29½”
Height From Belt	Adjustable
Type	Self Cleaning
Natural Fines Conveyor	
Belt Width	650 mm / 25 ½”
Belt Length (endless)	6925 mm / 22’ 8 ½”
Discharge Height	1929 mm / 6’ 4”
Drive	Hyd Motor
Motor CC	395 cc / 24 cu inch
General Tech Data	
Transport Dimensions	
Length	14.15 m / 46’ 5 ⅛”
Width	2.82 m / 9’ 3 ⅛”
Height	3.44 m / 11’ 3 ¼”
Cubic Volume	137.2 m³ / 4845.2 ft³
Standard Weight	50,380 kg / 111,069 lbs
Operating Dimensions	
Length	15.81 m / 51’ 10 ½”
Width	4.55 m / 14’ 10 ⅞”
Height (inc light mast)	4.52 m / 14’ 10”
Standard Weight	50,380 kg / 111,069 lbs
Performance	
Optimum Feed Size	650 mm³ / 25.6 inch³
Capacity (up to)	400 tph / 440 stph
Travel Speed	1.3 km/h / 0.81 mph
Max Incline	20°
Max Incline (Side to Side)	10°

Note. All weights and dimensions are for standard units only (full diesel tank)

Options

Hopper Hardox liner plates back and sides
One piece 15 mm / ⅝“ thick extended Hardox hopper side walls for rear loading
Belt protection plate under jaw crusher discharge
Central auto lube (all bearings)
Water pump (Hydraulic)
Arctic package -20°C (-4°F) (arctic hyd oil and engine oil)
Arctic package -30°C (-22°F) (arctic hyd oil, engine oil, webasto coolant heater and grease)
Hydraulic breaker arm complete with hammer

Intelligent line multi-machine communication
Pull stop cords on the main and NF conveyor
Product conveyor level sensor
Engine filter kit - 250 hours (fuel, air and oil filters - for 3A engines only)
Plant and engine filter kit - 500 hours (3A Engine)
Plant and engine filter kit - 500 hours (3B Engine)
No overband magnet
No natural fines conveyor

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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