Sandvik QJ241 jaw crusher unit in Action

Technical specification sheet

The new Sandvik QJ241 is the smallest compact tracked jaw crusher in the world leading series of Sandvik tracked crushers. This highly productive yet self-propelled machine brings the revolutionary features of the Sandvik QJ341 to the smaller quarry or demolition site, where operating space is limited, yet high performance demanded.

Compact and mobile, the QJ241 maintains the operational features of the QJ240, 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.
- Hydraulic raise and lower facility on the main conveyor to give increased clearance for rebar discharge in recycling applications. Also extended for greater discharge height.
- Tunnel arrangement to reduce catchment points in recycled materials
- 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.

These new features are aimed at ensuring the QJ241 is now as user and environmentally focused as it is productive and versatile. The QJ241 is designed to be equally productive in both hard rock and recycling applications and is therefore the ultimate all round contracting machine providing maximum efficiency and productivity whilst minimising cost of ownership.

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Technical specifications

	QJ241
Hopper	
Type	Hyd Folding - Side and Rear
Width	1840mm / 6'
Length	3770mm / 12' 4½"
Level Capacity	2.8 m³ / 3.7 yds³
Heaped Capacity	4.95 m³ / 6.5 yds³
Rear Loading Height	3568mm / 11' 8½"
Feeder	
Type	Hyd - Variable Speed Grizzly
Width	800mm / 31½"
Total Length	3580mm / 11' 9"
Grizzly Length	1260mm / 49½"
Standard Aperture	35 - 70mm / 1⅜" - 2¾"
Crusher	
Type	Single Toggle - C10
Feed Opening	1000 x 650mm / 39½ x 26"
Speed	320 rpm
Adjustment Type	Hyd Wedge
Drive	Hyd via V Belts
CSS Range	50 - 150mm / 2" - 6"
Motor Type	Danfoss
Motor cc	250cc / 15.25 cu inch
Main Conveyor	
Belt Width	800mm / 31½"
Belt Length (endless)	21000mm / 68' 11"
Discharge Height	3444mm / 11' 3⅝"
Raise/Lower	Yes - Hydraulic
Head Drum Dia.	282mm / 11"
Tail Drum Dia.	270mm / 10½"
Drive	Hyd Motor
Motor CC	624cc / 38.1 cu inch
Tracks	
Length (Centres)	3310mm / 10' 10½"
Width (Shoe)	400mm / 15½"
Drive	Prop Hyd/Gearbox
Control	Radio/Umbilical

	QJ241
Powerpack	
Engine	Stage 3A / Tier 3 CAT C6.6 Acert or Stage 3B / Tier 4i CAT C7.1 Acert
Engine Power	168 kW / 225 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	750mm / 29½"
Height From Belt	Variable
Type	Self Cleaning
Natural Fines Conveyor	
Belt Width	650mm / 25½"
Belt Length (endless)	6370mm / 20' 11"
Discharge Height	1757mm / 5' 9⅛"
Drive	Hyd Motor
Motor cc	395cc / 24 cu inch
General Tech Data	
Transport Dimensions	
Length	13.90m / 45' 7⅜"
Width	2.64m / 8' 7⅞"
Height	3.22m / 10' 6⅝"
Cubic Volume	118.1 m³ / 4170.7 ft³
Standard Weight	34,000 kg / 74,957 lbs
Operating Dimensions	
Length	13.72m / 45' ¼"
Width	4.2m / 13' 9"
Height (inc light mast)	3.57m / 11' 8½"
Standard Weight	34,500 kg / 76,060 lbs
Performance	
Optimum Feed Size	520mm³ / 21 inch³
Capacity (up to)	225 tph / 248 stph
Travel Speed	1.1 km/h / 0.68 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
Hardox feeder pan liners
Belt protection plate under jaw crusher discharge
Central auto lube (all bearings)
Water pump (Hydraulic)
Product conveyor level sensor
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)
Intelligent line multi-machine communication
Pull stop cords on the main and NF conveyor
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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