

Sandvik QJ241 jaw crusher

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.



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 / 1½" - 2¾" |
| Crusher | |
| Type | Single Toggle - C10 |
| Feed Opening | 1000 x 650mm / 40 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' 3¾" |
| Raise/Lower | Yes - Hydraulic |
| Head Drum Diameter | 282mm / 11" |
| Tail Drum Diameter | 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 |

Options

Wear resistant hopper liner plates back and sides
 Wear resistant feeder pan liner
 Belt protection plate under jaw crusher discharge
 Central auto lube (all bearings)
 Water pump (Hydraulic)
 Main conveyor level sensor (stockpile monitor)
 Arctic package -20°C (-4°F) (32 Grade oil and engine oil)
 Arctic package -30°C (-22°F) (arctic hydraulic oil, engine oil, webasto coolant heater and grease)
 Remote diesel pump (electric)

| | 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' 9¾" |
| Drive | Hyd Motor |
| Motor cc | 395cc / 24 cu inch |
| General Tech Data | |
| Transport Dimensions | |
| Length | 13.90m / 45' 7¾" |
| Width | 2.64m / 8' 7¾" |
| Height | 3.22m / 10' 6¾" |
| Cubic Volume | 118.1 m³ / 4170.7 ft³ |
| Operating Dimensions | |
| Length | 13.74m / 45' 1" |
| Width | 4.20m / 13' 9" |
| Height (inc lighting mast) | 4.30m / 14' 1¾" |
| Standard Weight | 34,000 kg / 74,957 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)

Main conveyor dust cover
 Lighting mast and cabinet lights
 Intelligent line multi-machine communication
 Pull stop cords on the main and natural fines conveyor
 Engine filter kit - 250 hours (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.

SANDVIK CONSTRUCTION MOBILE CRUSHERS AND SCREENS LTD
 HEARTHCOTE ROAD SWADLINCOTE DERBYSHIRE DE11 9DU ENGLAND
 TEL +44 (0)1283 212121 FAX +44 (0) 1283 217342 info.mobilecs@sandvik.com www.construction.sandvik.com

