

Sandvik QI341 Prisec™ impact crusher

Technical specification sheet



Built utilising Sandvik's market leading Prisec™ technology, the QI341 is the most versatile, compact mobile impactor in the market today. Capable of operating in primary and secondary applications, it has been designed with productivity, mobility, minimal environmental impact and user friendliness at its core.

The QI341 is available with an optional hanging screen system, which will allow customers an even greater return on investment through the facility to produce accurately sized products for immediate use.

- The Sandvik Prisec™ impactor is the most flexible impactor currently available on the market designed to meet tight end product specifications.
- The machine is fitted with a pre-screen to ensure maximum scalping capability in order to prevent any undersize material passing through the impactor, thereby maximising throughput and reducing wear costs. This also allows a specified sized product to be produced from the natural fines conveyor.
- The pre-screen has a choice of grizzly or punch plate top deck and mesh bottom deck, providing the flexibility to suit any application.
- The QI341 is fitted with an underpan feeder which drastically

reduces any spillage issues generally associated with impact crushers. The underpan feeder eliminates the need for skirt rubbers that are normally situated in the severe impact zone of a feed boot.

- The underpan feeder also protects the conveyor belt from high velocity material from the rotor. This material is contained on the wear resistant underpan feeder liners and gently delivered onto the conveyor belt.
- Two hydraulically adjustable apron curtains can be positioned to facilitate the machine's operation as a Primary impactor, however they can also be repositioned to operate as a Secondary impactor to produce much smaller end products.
- All of the above combined with the variable engine speed which gives a tip speed range of 30 m/s to 37 m/s resulting in a wide range of product gradations being achievable.
- Capable of operating in the most hostile environments with a 50°C ambient temperature capability without any oil changes.

Technical specifications

	QI341
Feed Hopper	
Width	1800 mm / 5' 11"
Length	3660 mm / 12' 0"
Capacity (heaped)	3.6 m ³ / 4.7 yd ³
Primary Feeder	
Wear resistant lined feeder	910 mm x 2330 mm / 3' x 7' 8"
Hydraulic drive variable speed	550 rpm to 1000 rpm
Twin eccentric shaft	Oil lubrication
Amplitude	Nominal 10 mm / 3/8"
Pre screen	
Type	2 bearing, high amplitude screen 2 screening decks
Top deck	1520 mm x 980 mm / 5' 0" x 3' 2 1/2"
Bottom deck mesh	1020 mm x 980 mm / 3' 4" x 3' 3"
Pre screen grizzly spacing	35 - 55 mm / 1 1/8" - 2 1/4"
Amplitude	10 mm / 3/8"
Speed	990 rpm
Impactor	
Sandvik CI411 Prisec™ impactor	
Feed opening	992 mm x 670 mm / 39" x 26 1/2"
Hydraulic inlet opening	992 mm x 830 mm / 39" x 32 1/2"
4 Bar rotor	1005 mm / 39 1/2"
Rotor speed (variable)	573 - 707 rpm
Tip speed (variable)	30 - 37 m/s / 98 - 121 ft/s
2 aprons	Hydraulic assist
Optimum feed size	500 mm / 19 3/4"
Main conveyor	
Belt Spec	EP500/3 ply 8+2 mm gradeX (1000 mm / 39 1/2")
Belt width	1000 mm / 39 1/2"
Belt length (endless)	18940 mm / 62' 2"
Discharge height	3762 mm / 12' 4"
Hydraulic drive	630cc / 38.5 cu inch
Underpan feeder	
Type	Spring mounted stepped vibrating feeder
Width	830 mm / 32 1/2"
Length	2040 mm / 6' 8"
Hydraulic drive	2 x 32.9cc / 2 cu inch
Feeder liner	Wear resistant 400 steel as standard
Amplitude	9 mm / 3/8"
Speed	960 rpm

Options

Pre screen grizzly spacing option
 Pre screen top deck punch plate
 Pre screen open aperture bottom rubber to feed natural fines conveyor (high fines / sticky applications)
 Hopper extensions for rear loading with wear resistant liners
 Hopper extensions for rear loading with rubber liners
 Hopper wear resistant liner plates back and sides
 Hopper high impact Sandvik rubber liners back and sides
 Central auto lube (crusher bearings only)
 Central auto lube (plant bearings excluding crusher)
 Water pump (Hydraulic)
 Arctic package - 20°C (-4°F) (32 grade hyd oil & engine oil)
 Arctic package -30°C (-22°F) (arctic hyd oil, engine oil, webasto coolant heater and grease)

	QI341
Natural fines conveyor	
Belt width	650 mm / 26"
Belt length (endless)	9720 mm / 31' 11"
Discharge height	2624 mm / 8' 7"
Hydraulic drive	400cc / 24.4 cu inch
Tracks	
Centre length	3800 mm / 12' 6"
Shoe width	400 mm / 15 3/4"
Drive	Hydraulic motors / gearbox
Control	Radio / Umbilical
Power pack	
Engine	Stage 3A / Tier 3 CAT C9 Acert or Stage 3B / Tier 4i CAT C9.3 Acert
Engine Power	261 kW / 350 Hp
Speed	1700 rpm to 2100 rpm
Diesel tank size	660 litres / 174USG
Hydraulic tank size	660 litres / 174USG
Standard options	
Magnet	
Model	Eriez CP20/80-SC2
Weight	800 Kg / 1764 lbs
Belt width	750 mm / 29 1/2"
Length	2450 mm / 8'
Type	Self cleaning suspended
General technical data	
Operation length HS	17.79 m / 58' 4 1/2"
Operation width HS	5.52 m / 18' 1" inc natural fines conv
Operation width HS	10.55 m / 34' 7" stockpile + natural fines conv
Operation height HS	4.58 m / 15'
Transport length HS	17.14 m / 56' 3"
Transport width HS	3.0 m / 9' 10"
Transport width (without stockpile con)	3.0 m / 9' 10"
Transport height HS	3.55 m / 11' 7 1/2"
Weight HS	46,178 kg / 101,805 lbs
Operation length Open	14.65 m / 48' 1"
Operation width Open	5.60 m / 18' 4 1/2"
Operation height Open	4.13 m / 13' 6 1/2"
Transport length Open	14.16 m / 46' 5 1/2"
Transport width Open	2.50 m / 8' 2"
Transport height Open	3.40 m / 11' 2"
Weight Open	39,400 kg / 86,860 lbs

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

Hanging screen system
 Lighting mast and cabinet lights
 Remote diesel pump (electric)
 Mesh underscreen 20, 30, 50
 Pull stop cords on natural fines and main 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)
 Intelligent line multi-machine communication
 Main conveyor level sensor (stockpile monitor)
 Tail conveyor level sensor (Hanging Screen only)
 No natural fines conveyor
 No overband magnet

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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