

Sandvik QI240 impact crusher unit in Action

Technical specification sheet



The QI240 has been developed over the last two years by Sandvik's renowned research and development programme. Purpose designed to process construction materials on site, the QI240 has been designed with mobility, productivity, transportability, minimal environmental impact and user friendliness at its core.

The QI240 possesses recent developments that will ensure it becomes the impact crusher of choice throughout the construction industry:

- 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, punch plate or heavy duty mesh top deck and mesh bottom deck, providing the flexibility to suit any application.
- The QI240 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.
- The Sandvik PriSec impactor is the most flexible impactor currently available on the market designed to meet end product specifications.
- 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 gives a tip speed range of 30 m/s to 37 m/s resulting in a wide range product gradations being achievable.

Technical specifications

	QI240
Feed Hopper	
Width	1800mm / 5' 11"
Length	3660 mm / 12' 0"
Capacity	3.6 m ³ / 4.7 yd ³
Primary Feeder	
Hardox lined feeder	910mm x 2330mm / 3' x 7' 8"
Hydraulic drive variable speed	550 rpm to 1000 rpm
Twin eccentric shaft	Oil lubrication
Amplitude	Nominal 10mm / 3/8"
Pre screen	
Type	2 bearing, high amplitude screen 2 screening decks
Top deck	1520 mm x 980 mm / 5' 0" x 3' 3"
Bottom deck mesh	1020 mm x 980 mm / 3' 4" x 3' 3"
Pre screen grizzly spacing	35 - 55mm / 1 3/8" - 2 1/4"
Amplitude	10mm / 3/8"
Speed	990rpm
Impactor	
Sandvik CI411 impact chamber	
Feed opening	992mm x 670mm / 39" x 26 1/2"
Hydraulic inlet opening	992mm x 830mm / 39" x 32 1/2"
4 Bar rotor	1005mm / 39 1/2"
Rotor speed (variable)	573 - 707rpm
Tip speed (variable)	30 - 37 m/s / 98 - 121 ft/s
2 aprons	Hydraulic assist
Max feed size	600mm / 24"
Main conveyor	
Belt Spec	EP500/3 ply 8+2 mm gradeX (1000 mm / 39 1/2")
Belt width	1000mm / 39 1/2"
Belt length (endless)	18940mm / 62' 2"
Discharge height	3718mm / 12' 3"
Hydraulic drive	630cc / 38.4 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	Hardox 400 steel as standard
Amplitude	9mm / 3/8"
Speed	960 rpm

Options

Hopper extensions with Hardox liners for rear loading
Hopper hardox liner plates back & sides
Hopper high impact Sandvik rubber liners back & sides
Central auto lube (crusher bearings only)
Central auto lube (excluding crusher bearings)
Remote diesel pump (electric)
Water pump (Hyd)
-20°C / -4F Arctic package
-30°C / -22F Arctic package
Tropical package (68 Grade Hydraulic Oil)

	QI240
Natural fines conveyor	
Belt Spec	EP400/3 ply 3+1.5 mm (650 mm / 26")
Belt width	650mm / 26"
Belt length (endless)	9720mm / 31' 11"
Discharge height	2575mm / 8' 6"
Hydraulic drive	400cc / 24.4 cu inch
Tracks	
Tracking speed	0 - 1.1 kph / 0.68 mph (proportional)
Centre length	3800 mm / 12' 6"
Shoe width	400 mm / 15 3/4"
Drive	Hydraulic motors / gearbox
Control	Radio / Umbilical
Power pack	
Engine	Cat C9 Tier 3A or CAT C9.3 Tier 3B/4*
Engine Power	262 kW / 350 Hp
Speed	1700rpm to 2100rpm
Diesel tank size	660 litres / 174USG
Hydraulic tank size	660 litres / 174USG
Standard options	
Magnet	
Model	Eriez CP20/100-SC2
Weight	1300 Kg / 2866 lbs
Belt width	800 mm / 32"
Length	2450 mm / 8'
Type	Self cleaning suspended
Gauss at 200 mm distance from belt	600 gauss / force density 15Kdynes/cc
Gauss at 250 mm distance from belt	490 gauss / force density 10Kdynes/cc
General technical data	
Transport dimensions	
Length	14.15 m / 46' 5"
Width	2.50 m / 8' 2"
Height	3.40 m / 11' 2"
Operating dimensions	
Length	14.65 m / 48' 1"
Width	5.60 m / 18' 4"
Height	4.13 m / 13' 7"
Standard weight	39,400Kg / 86860 lbs

Note. All weights and dimensions are for standard units only
* Volvo option available late 2011. Please inquire within for further details.

Wheeled dolly
Conveyor stop pull cords
Pre screen grizzly spacing option
Pre screen top deck punch plate
Pre screen heavy duty top deck mesh (asphalt / secondary applications)
Pre screen open aperture bottom rubber to feed natural fines conveyor
(high fines / sticky applications)
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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