

QI441 PRISEC™ IMPACTOR PIONEERING SOLUTIONS FOR YOU

TECHNICAL SPECIFICATION

The QI441 is a heavy duty, tracked, self propelled impact crusher which features the unique Sandvik CI421 Prisec™ impact chamber, offering customers unparalleled flexibility through the ability to work in both primary and secondary applications.

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

KEY BENEFITS

- The Sandvik Prisec[™] impactor is the most flexible impactor currently available on the market designed to meet 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 QI441 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 produce a wide range of material, product sizes and specifications.
- 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 of product gradations being achievable.
- Capable of operating in the most hostile environments with a 50°C ambient temperature capability without any oil changes.



KEY SPECIFICATIONS	Ql441	KEY SPECIFICATIONS	QI441
Hopper		Power pack	
Hopper width Length Capacity (heaped)	2540 mm / 8′ 4″ 4290 mm / 14′ 1″ 6 m³ / 7.85 yd³	Engine	Stage 3A / Tier 3 CAT C13 Acert / Stage 3B / Tier 4i CAT C13 Acert /
Primary Feeder		•	Stage 4 / Tier 4 Final CAT C13 Acert
Wear resistant lined feeder	1278 mm x 2365 mm / 4' 2" x 7' 9"	Engine power Drive type Fuel tank	328 kW / 440 hp Direct / Hydraulic 660 litres / 174 USG
Speed	550 rpm to 1000 rpm	Hydraulic tank	660 litres / 174 USG
Pre screen		Tracks	
Hardox top deck grizzly / punch plate Bottom deck mesh Punch Plate Underscreen mesh	1360 mm x 2160 mm / 4' 6" x 7' 1" 1360 mm x 1730 mm / 4' 6" x 5' 8" 40 mm / 1 ½" 20 mm / 34"	Length (centres) Width (shoe) Drive Control	3715 mm / 12' 2" 500 mm / 19 ¾" Hydraulic motors / Gearbox Radio / Umbilical
Impactor	20111117 74	Natural fines conveyor (option	n)
Sandvik Cl421 Prisec™ Impactor Feed opening	1360 mm x 800 mm / 54" x 31 ½"	Belt width Belt length (endless) Discharge height Hydraulic drive	650 mm / 25 ½" 12,063 mm / 39' 7" 3084 mm / 10' 1" 400 cc / 24.4 cu inch
Hydraulic inlet opening	1360 mm x 1000 mm / 54" x 39 ½"	Twin pole high power magnet (option)	
4 Bar rotor Speed Peripheral velocity 2 aprons Maximum feed size	1150 mm / 45 1/4" diameter 502 rpm to 620 rpm 34 - 42 m/s / 108 - 138 ft/s Hydraulic assist 800 mm / 31 1/2"	Model Belt width Height from belt Type Weight	Eriez TP20/100-SC2 750 mm / 29 ½" Adjustable Self cleaning 1434 kg / 3162 lbs
Main conveyor		Operating dimensions	
Belt width Belt length (endless) Discharge height Hydraulic drive	1200 mm / 47 1/4" 20,700 mm / 67' 11" 4074 mm / 13' 4" Twin 500 cc / 30.5 cu inch x 2	Length Width Height	16.57 m / 54′ 4″ 3.53 m / 11′ 0″ 4.32 m / 14′ 2″
Underpan feeder		Transport dimensions	
Type Width Length	Spring mounted stepped vibrating feeder 1022 mm / 40 1/4" 2400 mm / 94 1/2"	Length Width Height Weight	15.67 m / 51′ 5″ 3.00 m / 9′ 10″ 3.60 m / 11′ 10″ 49,205 kg / 108,478 lbs
Pan feeder amplitude	9 mm / 3/8"	Performance	
Magnet		Max feed size	800 mm / 31 ½"
Model Weight Type	Eriez CP20/100-SC2 998 kg / 2200 lbs Self cleaning suspended	Capacity (up to) Travel speed Max incline / Side to side	500 tph / 551 stph 1.4 km/h / 0.87 mph 20° / 10°

OPTIONS

Hopper extensions for rear loading
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
Pre screen grizzly spacing option
Pre screen top deck punch plate - 30, 60, 80, 100 mm
Pre screen open aperture bottom rubber to feed natural fines
conveyor (high fines / sticky applications)
Pre screen blanking deck
Mesh underscreen - 30, 40, 50 mm
Central auto lube (crusher)
Central auto lube (conveyors)
Water pump (Hydraulic)

Note. All weights and dimensions are for standard units only

Arctic package -20°C (-4°F) (32 grade hyd oil and engine oil)
Arctic package -30°C (-22°F) (arctic hyd oil, engine oil, lubrication
oil and webasto coolant heater)
Lighting mast and cabinet lights
Remote diesel pump (electric)
Double deck hanging screen system
Pull stop cords for 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
Intelligent line multi-machine communication
Main conveyor level sensor (stockpile monitor)
Natural fines conveyor
Radio remote control
Jacking legs
Heavy duty twin pole magnet

No overband magnet

