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.
**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
- Pre screen grizzly spacing option
- Pre screen top deck punch plate - 30, 60, 80, 100 mm
- Pre screen blanking deck
- Mesh underscreen - 30, 40, 50 mm
- Central auto lube (crusher)
- Central auto lube (conveyors)
- Water pump (Hydraulic)
- 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)

**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**

**Pre screen grizzly spacing option**

**Pre screen top deck punch plate - 30, 60, 80, 100 mm**

**Pre screen blanking deck**

**Mesh underscreen - 30, 40, 50 mm**

**Central auto lube (crusher)**

**Central auto lube (conveyors)**

**Water pump (Hydraulic)**

**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)**

**KEY SPECIFICATIONS**

**QI441**

**Hopper**
- Hopper width: 2530 mm / 8' 4"
- Length: 4200 mm / 13' 9"
- Capacity (heaped): 6 m³ / 7.85 yd³

**Primary feeder**
- Wear resistant lined feeder: 1290 mm x 2405 mm / 4' 3" x 8' 4"
- Speed: 550 rpm to 960 rpm

**Pre screen**
- Hardox top deck grizzly / punch plate
- Bottom deck mesh: 1360 mm x 1730 mm / 4' 6" x 5' 8"
- Punch Plate: 40 mm / 1 ½"
- Underscreen mesh: 20 mm / ¾"

**Impactor**
- Sandvik CI421 Prisec™ Impactor
- Feed opening: 1360 mm x 2160 mm
- Hydraulic inlet opening: 1360 mm x 1000 mm / 4' 6" x 3' 3"
- 4 Bar rotor: 1150 mm / 45 ¼" diameter
- Speed: 563 rpm to 696 rpm
- Peripheral velocity: 34 - 42 m/s / 112 - 138 ft/s
- 2 aprons: Hydraulic assist
- Maximum feed size: 800 mm / 31 ½"

**Main conveyor**
- Belt width: 1200 mm / 47 ½"
- Belt length (endless): 20,700 mm / 67' 11"
- Discharge height: 4074 mm / 13' 4"
- Hydraulic drive: Twin 500 cc / 30.5 cu inch x 2

**Underpan feeder**
- Type: Spring mounted stepped vibrating feeder
- Width: 1022 mm / 40 ¼"
- Length: 2400 mm / 94 ¾"
- Pan feeder amplitude: 10 mm / ¾"

**Magnet**
- Model: Eriez CP20/100-SC2
- Weight: 1295 kg / 2855 lbs
- Type: Self cleaning suspended

**Power pack**
- Engine: Stage 3A / Tier 3 CAT C13 Acert
- Drive type: Direct / Hydraulic

**Tracks**
- Belt width: 650 mm / 25 ½"
- Belt length (endless): 12,063 mm / 39' 7"
- Discharge height: 3084 mm / 10' 1"
- Hydraulic drive: 400 cc / 24.4 cu inch

**Twin pole high power magnet (option)**
- Model: Eriez TP20/100-SC2
- Belt width: 750 mm / 29 ½"
- Height from belt: Adjustable
- Type: Self cleaning
- Weight: 1600 kg / 3527 lbs

**Operating dimensions**
- Length: 16.57 m / 54' 4"
- Width: 3.53 m / 11' 0"
- Height: 4.32 m / 14' 2"

**Performance**
- Max feed size: 800 mm / 31 ½"
- Capacity (up to): 500 tph / 551 stph
- Travel speed: 1.4 km/h / 0.87 mph
- Max incline: 20°
- Max incline / Side to side: 10°

**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**

**Note. All weights and dimensions are for standard units only**