



QI442 HSI IMPACTOR PIONEERING SOLUTIONS FOR YOU

TECHNICAL SPECIFICATION

The QI442 is a heavy duty, self-contained track mobile impact crusher which features the unique Sandvik CI621 Prisec impact chamber. This offers unparalleled flexibility through the ability to work in both primary and secondary applications.

This newly developed impactor comes with a host of innovations for efficiency and improved efficiency and greater safety during maintenance. This includes a new patented rotor locking and positioning device for controlled rotor movement during maintenance.

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 extract any undersize material from the feed passing through the impactor, thereby maximizing throughput and reducing wear costs. A further sellable, sized product can be produced using 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.
- Heavy duty underpan feeder with wear resistant liners transfers both the bypassed material from pre-screen and high velocity material from the rotor onto the product conveyor in a controlled manner.
- 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 34 m/s to 42 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.
- Modular double deck hanging screen available to provide a 1, 2 or 3 way split.
- The modular double deck hanging screen can be quickly detached to operate in open circuit.
- Fitted with My Fleet remote monitoring system as standard for live monitoring of plant, hours, location, etc.



KEY SPECIFICATIONS	QI442
Hopper	
Length	4200 mm / 13' 9"
Rear loading width	2530 mm / 8' 4"
Rear loading width with extensions	4090 mm / 13' 5"
Nominal capacity	6.0 m ³ / 7.85 yds ³
Nominal capacity with extensions	10.2 m ³ / 13.3 yds ³
Rear loading height std	3975 mm / 13' 1"
Primary feeder	
Drive	Hydraulic variable speed
Length	2395 mm / 7' 10"
Width	1274 mm / 4' 2"
Hopper liner thickness	12 mm / ½"
Pre screen	
Type	Double deck
Impactor	
Type	Sandvik CI621 Prisec Impactor
Feed opening	1360 mm x 800 mm / 54" x 32"
Hydraulic inlet opening	1360 mm x 1000 mm / 54" x 39"
4 Bar rotor	1150 mm / 45" diameter
Rotor speed (variable)	563 rpm to 696 rpm
Tip Speed (variable)	34 - 42 m/s / 112 - 138 ft/s
2 aprons	Hydraulic assist
Main conveyor	
Belt width	1200 mm / 48"
Discharge height	4074 mm / 13' 4"
Underpan feeder	
Type	Spring mounted stepped vibrating feeder
Width	1022 mm / 40"
Length	2400 mm / 95"

KEY SPECIFICATIONS	QI442
Magnet	
Model	Single pole magnetic separator
Type	Self cleaning suspended
Power pack	
Engine	CAT C13 T3 261 kW / 350 hp CAT C13 T4F 328 kW / 440 hp CAT C13B Stage 5 340 kW / 456 hp
Drive type	Direct wet clutch drive
Diesel tank capacity	660 litres / 174 USG
Hyd tank capacity	660 litres / 174 USG
Tracks	
Length (centres)	4170 mm / 13' 8"
Width (shoe)	500 mm / 20"
Drive	Hydraulic / Gearbox
Control	Radio / Umbilical (proportional)
Tracking speed	1.4 km/h / 0.87 mph
Max incline	20°
Max incline / Side to side	10°
Natural fines conveyor	
Belt width	650 mm / 26"
Discharge height	3084 mm / 10' 1"
Operating dimensions	
Length	16,520 m / 54"
Width	3360 m / 11' 0"
Height	4470 m / 14' 8"
Weight	55,300 kgs / 121,915 lbs
Transport dimensions	
Length	15,700 m / 52"
Width	3040 m / 10"
Height	3620 m / 11' 11"
Performance	
Max feed size	800 mm / 32"
Capacity (up to)	500 tph / 551 stph

Note. All weights and dimensions are for standard units only

STANDARD SPECIFICATION

Primary pan feeder
Vibrating pre-screen
Underpan feeder
Single pole overband magnet
Folding main conveyor complete with dust covers
Natural fines conveyor
Dust suppression spray bars
Hydraulic jacking legs
Remote diesel pump
Tool kit
Radio control tracking, proportional
Light mast and cabinet lights
Pull stop cords all conveyors

Hydraulic water pump
My Fleet telematics

* For option availability please speak with your local Sandvik representative.