



# SANDVIK QI442 HS MOBILE HSI CRUSHER

## TECHNICAL SPECIFICATION

The QI442 HS is a large heavy duty tracked impact crusher, featuring the Sandvik market leading Prisec technology and modular double deck hanging screen. Capable of operating in primary and secondary applications, it has been designed with productivity, safety and user friendliness at its core.

### KEY BENEFITS

<b>Reliability</b>	<ul style="list-style-type: none"><li>- Market leading Sandvik CI621 Prisec impact chamber for unrivalled flexibility and performance</li><li>- Patented adjustment / braking system for relieving blockages whilst in operation, thereby maximizing uptime</li><li>- Rock box and under pan feeder featuring wear resistant liners for extended wear life</li><li>- Premium components selected throughout and FEA analysis on structural parts for durability</li><li>- Steel pipe work used extensively to give superior heat dissipation and maximum reliability</li><li>- Capable of operating in the most hostile environments</li></ul>
<b>Productivity</b>	<ul style="list-style-type: none"><li>- Adjustable apron curtains and tip speed enable a wide range of end product gradations to be achieved</li><li>- Load sensing system for feeder drive ensures continuous crushing</li><li>- Pre-screen with choice of screen media for effective removal of fines, thereby maximizing throughput and reducing wear</li><li>- Selection of hammers to suit a wide range of applications</li><li>- Full PLC control system with colour screen allowing visual data output and push button adjustment of all plant operating parameters</li><li>- Modular double deck hanging screen with patent pending adjustment system to provide a 1, 2 or 3 way split</li><li>- Open or closed circuit set-up can be achieved in less than 30 minutes</li></ul>
<b>Cost of ownership</b>	<ul style="list-style-type: none"><li>- Latest generation fuel efficient engines provide maximum performance and cost efficiency</li><li>- Fluid clutch drive for smoother power transmission for optimum fuel efficiency and maximum power transfer</li><li>- Well-proportioned fuel tank to maximize intervals between refueling</li></ul>
<b>Safety</b>	<ul style="list-style-type: none"><li>- Patented rotor locking and positioning device for quick and safe maintenance</li><li>- Unique 4 key trapped system to ensure safe inspection after the rotor has stopped turning</li><li>- Includes integrated lifting jib, chain hoist and lifting cradle for safe removal, rotation and fitment of hammers</li><li>- Hanging screen is fully detachable without the need for additional lifting equipment</li><li>- Mandatory audible and visual warning for safe operation whilst tracking and start-up / shut down</li><li>- Emergency stop buttons and conveyor pull stop cords around the plant for easy access during operation</li><li>- Wireless radio handset and proportional speed control for safe tracking onsite</li><li>- Spacious platforms provide safe access for service and maintenance</li><li>- Dust suppression spray bars and onboard water pump to minimize dust improving operator and onsite safety</li></ul>
<b>Support</b>	<ul style="list-style-type: none"><li>- Connected to Sandvik My Fleet with 7 year data subscription. Benefits include 24/7 fleet management, geo-fencing and remote operator support</li><li>- Extensive global distributor network</li><li>- Global aftermarket support, with standard stock parts to ensure minimum loss of production</li></ul>





KEY SPECIFICATIONS	QI442 HS
<b>Hopper</b>	
Length	4200 mm / 13' 9"
Rear loading width	2530 mm / 8' 4"
Rear loading width with extensions	4090 mm / 13' 5"
Capacity	6.0 m <sup>3</sup> / 7.85 yds <sup>3</sup>
Capacity with extensions	10.2 m <sup>3</sup> / 13.3 yds <sup>3</sup>
Rear loading height std	3970 mm / 13' 1"
<b>Primary feeder</b>	
Wear resistant lined feeder	2390 mm x 1270 mm / 7' 10" x 4' 2"
Drive	Hydraulic variable speed
<b>Pre screen</b>	
Type	Double deck
Screen size	2160 mm x 1360 mm / 7' 1" x 4' 6"
<b>Impactor</b>	
Type	Sandvik CI621 HSI
Feed opening	1360 mm x 800 mm / 54" x 32"
Hydraulic inlet opening	1360 mm x 1000 mm / 54" x 39"
Variable speed 4 bar rotor	1150 mm / 45" diameter
2 aprons	Hydraulic assist
<b>Main conveyor</b>	
Belt width	1200 mm / 48"
Discharge height	4070 mm / 13' 4"
<b>Screen</b>	
Size (open area)	4000 mm x 1500 mm / 13' x 5'
Number of decks	2
Number of bearings	2
Operating angle	20° - 24° - 27° (DD breaker deck)
Minimum mesh size	16 mm / 5/8"
Maximum mesh size	75 mm / 3"
<b>Transfer conveyor</b>	
Belt width	650 mm / 25.5"
<b>Re-circ conveyor</b>	
Belt width	500 mm / 20"
Discharge height	5390 mm / 17' 8"
<b>Stockpile conveyor</b>	
Belt width	500 mm / 20"
Discharge height	2940 mm / 9' 6"
<b>Fines conveyor</b>	
Belt width	1200 mm / 47"
Discharge height	3670 mm / 12'

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<b>Underpan feeder</b>	
Type	Spring mounted stepped vibrating feeder
Width	1020 mm / 40"
Length	2400 mm / 95"
<b>Magnet</b>	
Model	Single pole overband magnet
Type	Self cleaning suspended
<b>Natural fines conveyor</b>	
Belt width	650 mm / 26"
Discharge height	3080 mm / 10' 1"
<b>Tracks</b>	
Length (centres)	4170 mm / 13' 8"
Width (shoe)	500 mm / 20"
Control	Radio / Umbilical
<b>Power pack</b>	
Engine	CAT C13 Stage 5 / T4F 340 kW / 456 hp CAT C13 T3 328 kW / 440 hp
Drive type	Direct wet clutch drive
Diesel tank capacity	660 litres / 174 USG
Hyd tank capacity	660 litres / 174 USG
<b>Transport dimensions</b>	
Length	19.38 m / 63' 6"
Width	3.54 m / 11' 6"
Height	3.74 m / 12' 3"
Weight	65,800 kg / 145,064 lbs
<b>Operating dimensions</b>	
Length	19.64 m / 64' 6"
Closed circuit width	6.85 m / 22' 6"
Open circuit width	17.19 m / 56' 4"
Height	4.98 m / 16' 4"
<b>Performance</b>	
Max feed size	800 mm / 32"
Capacity (up to)	500 tph / 551 stph *
Travel speed	1.4 km/h / 0.87 mph
Max incline / Side to side	20° / 10°
Note. All weights and dimensions are for standard units only	

## STANDARD SPECIFICATION

Primary pan feeder  
 Vibrating pre-screen  
 Underpan feeder  
 Hopper extensions for rear loading  
 Natural fines conveyor  
 Folding main conveyor complete with dust covers  
 Single pole overband magnet  
 Tool kit

Light mast and cabinet lights  
 Pull stop cords on all conveyors  
 Dust suppression spray bars  
 Remote diesel pump  
 Radio control tracking, proportional  
 Hydraulic water pump  
 Hydraulic jacking legs  
 My Fleet telematics

For option availability please speak with your local Sandvik representative

\* Application specific. Please contact a Sandvik representative for clarification on specifications and options  
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