



# SANDVIK QI353 HS MOBILE HSI CRUSHER

## TECHNICAL SPECIFICATION

The QI353 HS is the most versatile, mid-sized mobile impactor available today, we have developed the QI353 to deliver more for our customers. It's based upon a new modular track platform and features Sandvik's market leading Prisec technology, capable of operating in primary and secondary applications.

### KEY BENEFITS

<b>Reliability</b>	<ul style="list-style-type: none"><li>- Market leading Sandvik Prisec impact chamber for unrivalled flexibility and performance</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>- Load sensing system for feeder drive ensures continuous crushing</li><li>- Pre-screen with choice of media for effective removal of fines, maximizing throughput and reducing wear</li><li>- Largest feed opening in class, fewer reduced blockages and better uptime</li><li>- Adjustable apron curtains and tip speed enable a wide range of end product gradations to be achieved</li><li>- Selection of hammers to suit a wide range of applications</li><li>- NEW automation system featuring Optik™ intuitive user experience to maximize uptime and boost output</li><li>- Prepared for modular hanging screen as standard to provide a 1, 2 or 3 way split (see HS323 specification)</li><li>- 15 % larger fuel storage to maximize intervals between refuelling</li><li>- Connected to Sandvik My Fleet with 7 year data subscription. Benefits include 24/7 fleet management, geo-fencing and remote operator support</li></ul>
<b>Cost of ownership</b>	<ul style="list-style-type: none"><li>- Latest generation fuel efficient powerpack provides maximum performance and cost efficiency</li><li>- Fluid clutch drive for smoother power transmission for optimum fuel efficiency and maximum power transfer</li><li>- Requires 40% less hydraulic oil per service and extended hydraulic oil replacement intervals, overall up to 64 % less hydraulic oil consumed over 10,000 hrs of machine usage* (subject to oil sampling)</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>- Mandatory audible and visual warnings 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></ul>
<b>Sustainability</b>	<ul style="list-style-type: none"><li>- Double-deck pre-screen maximizes crusher throughput, reduces wear costs and energy consumption</li><li>- Largest rotor diameter in class reducing energy consumption</li><li>- Latest generation powerpack for reduced emissions and optimum fuel economy</li><li>- Dust suppression spray bars and onboard water pump to minimize dust reducing environmental impact</li><li>- Extended service intervals and less oil consumption, up to 64% less as highlighted above*, results in a more sustainable operation</li></ul>





KEY SPECIFICATIONS	QI353 HS
<b>Hopper</b>	
Nominal capacity	5 m <sup>3</sup> / 6.5 yds <sup>3</sup>
Nominal capacity with extensions	7.3 m <sup>3</sup> / 9.5 yds <sup>3</sup>
Rear loading height	3950 mm / 13'
Rear loading height with extensions	4620 mm / 15' 2"
Rear loading width	2245 mm / 7' 4"
Rear loading width with extensions	3680 mm / 12' 1"
<b>Primary feeder</b>	
Wear resistant lined feeder	1024 mm x 2277 mm / 40" x 7' 6"
Drive	Hydraulic variable speed
<b>Pre screen</b>	
Type	Double deck
Top deck	1930 x 1108 mm / 6' 4" x 3' 8"
Bottom deck mesh	1260 x 1108 mm / 4' 2" x 3' 8"
Punch plate	40 mm / 1.5"
Under screen mesh	20 mm / ¾"
<b>Impactor</b>	
Type	Sandvik Prisec HSI
Feed opening	1170 mm x 730 mm / 46" x 29"
Hydraulic inlet opening	1170 mm x 830 mm / 46" x 33"
Variable speed 4 bar rotor	1150 mm / 45" diameter
2 aprons	Hydraulic assist
<b>Main conveyor</b>	
Belt width	1200 mm / 47"
Discharge height	4020 mm / 13' 2"
<b>Underpan feeder</b>	
Type	Spring mounted vibrating feeder
Width	1030 mm / 40"
Length	2180 mm / 7' 2"
<b>Natural fines conveyor</b>	
Belt width	650 mm / 26"
Discharge height	2900 mm / 9' 6"
<b>Magnet</b>	
Model	Single pole overband magnet
Type	Self cleaning, height adjustable

## STANDARD SPECIFICATION

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

For option availability please speak with your local Sandvik representative

\*\* Application specific. Please contact a Sandvik representative for clarification on specifications and options  
 Sandvik reserves the right to make changes to the information on this data sheet without prior notification to users

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KEY SPECIFICATIONS	QI353 HS
<b>Screen</b>	
Size (open area)	4.0 m x 1.5 m / 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 / 26"
<b>Re-circ conveyor</b>	
Belt width	500 mm / 20"
Discharge height	5.39 m / 17' 8" (stockpile)
<b>Stockpile conveyor</b>	
Belt width	500 mm / 20"
Discharge height	2.97 m / 9' 9"
<b>Fines conveyor</b>	
Belt width	1200 mm / 48"
Discharge height	3.67 m / 12'
<b>Power pack</b>	
Engine	Stage 3A CAT C9.3B Acert IPU Stage 5 CAT C9.3B Acert IPU
Engine power	310 kW / 415 hp
Drive type	Direct wet clutch drive
Diesel tank capacity	760 litres / 200 USG
Hydraulic tank capacity	400 litres / 105 USG
<b>Tracks</b>	
Length (centres)	4050 mm / 13' 3"
Width (shoe)	500 mm / 20"
Control	Radio / Umbilical
<b>HS transport dimensions</b>	
Length HS	18.3 m / 60' 8"
Width HS	3.58 m / 11' 9"
Height HS	3.66 m / 12'
Transport weight (HS)	55,900 kg / 123,240 lbs
<b>HS operating dimensions</b>	
Length HS	18.48 m / 60' 8"
Width HS	11.18 m / 36' 6"
Height HS	5.49 m / 18'
Operation weight (HS)	55,900 kg / 123,240 lbs
<b>Performance</b>	
Max feed size	700 mm / 28"
Capacity (up to)	350 tph / 385 stph **
Travel speed	0 - 1 kph / 0 - 0.62 mph
Max incline / Side to side	9° / 10°

Note. Weights are approximated  
 Dimensions are for full option variants selected (max size)

Hydraulic jacking legs  
 Remote diesel pump  
 Tool kit  
 Radio control tracking, proportional  
 Proportional light mast and cabinet lights  
 Pull stop cords all conveyors  
 My Fleet telematics with 7 year data subscription