



# SANDVIK QI353 MOBILE HSI CRUSHER

## TECHNICAL SPECIFICATION

The QI353 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 underpan 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 its class, resulting in fewer reduced blockages and higher 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 refueling</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 its 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
<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 mm x 1108 mm / 6' 4" x 3' 8"
Bottom deck mesh	1260 mm 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 2 aprons	1150 mm / 45" diameter 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>Magnet</b>	
Model	Single pole overband magnet
Type	Self cleaning, height adjustable

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<b>Natural fines conveyor</b>	
Belt width	650 mm / 26"
Discharge height	2900 mm / 9' 6"
<b>Tracks</b>	
Length (centres)	4050 mm / 13' 3"
Width (shoe)	500 mm / 20"
Control	Radio / Umbilical
<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 type
Diesel tank capacity	760 litres / 200 USG
Hydraulic tank capacity	400 litres / 105 USG
<b>Transport dimensions</b>	
Length	14.05 m / 46' 1"
Width	
HS Recirc chute fitted	3.16 m / 10' 5"
HS Recirc chute removed	2.8 m / 9' 3"
Height	3.46 m / 11' 4"
Transport weight	45,500 kg / 100,310 lbs
<b>Operating dimensions</b>	
Length	15.22 m / 50'
Width	6.47 m / 21' 2"
Height	4.98 m / 16' 4"
Operating weight	45,500 kg / 100,310 lbs
<b>Performance</b>	
Max feed size	700 mm / 28"
Capacity (up to)	400 tph / 441 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)

## 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  
Hydraulic jacking legs

Remote diesel pump  
Tool kit  
Radio control tracking  
Proportional Light mast and cabinet lights  
Pull stop cords all conveyors  
My Fleet telematics with 7 year data subscription

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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