

Sandvik QI353HS

Tracked HSI crusher

The QI353HS 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

Reliability

- Market leading Sandvik Prisec™ impact chamber for unrivalled flexibility and performance
- Rock box and under pan feeder featuring wear resistant liners for extended wear life
- Premium components selected throughout and FEA analysis on structural parts for durability
- Steel pipe work used extensively to give superior heat dissipation and maximum reliability
- Capable of operating in the most hostile environments

Productivity

- Load sensing system for feeder drive ensures continuous crushing
- Pre-screen with choice of media for effective removal of fines, maximizing throughput and reducing wear
- Largest feed opening in class, fewer reduced blockages and better uptime
- Adjustable apron curtains and tip speed enable a wide range of end product gradations to be achieved
- Selection of hammers to suit a wide range of applications
- NEW Optik™ intuitive automation system to maximize uptime and boost output
- Prepared for modular HS323 hanging screen as standard to provide a 1, 2 or 3 way split
- 15% larger fuel storage to maximize intervals between refuelling
- Connected to Sandvik My Fleet with 7 year data subscription. Benefits include 24/7 fleet management, geo-fencing and remote operator support

Cost of ownership

- Latest generation fuel efficient powerpack provides maximum performance and cost efficiency
- Fluid clutch drive for smoother power transmission for optimum fuel efficiency and maximum power transfer
- 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)

Safety

- Patented rotor locking and positioning device for quick and safe maintenance
- Unique 4 key trapped system to ensure safe inspection after the rotor has stopped turning
- Includes integrated lifting jib, chain hoist and lifting cradle for safe removal, rotation and fitment of hammers
- Mandatory audible and visual warnings for safe operation whilst tracking and start-up / shut down
- Emergency stop buttons and conveyor pull stop cords around the plant for easy access during operation
- Wireless radio handset and proportional speed control for safe tracking onsite
- Spacious platforms provide safe access for service and maintenance

Sustainability

- Double-deck pre-screen maximizes crusher throughput, reduces wear costs and energy consumption
- Largest rotor diameter in class reducing energy consumption
- Latest generation powerpack for reduced emissions and optimum fuel economy
- Dust suppression system minimizes dust emissions reducing environmental impact
- Extended service intervals and less oil consumption, up to 64% less as highlighted above*, results in a more sustainable operation

Technical specification

Key specifications	QI353HS
Hopper	
Nominal capacity	5 m ³ / 6.5 yds ³
Nominal capacity with extensions	7.3 m ³ / 9.5 yds ³
Rear loading height	3.95 m / 13'
Rear loading height with extensions	4.62 m / 15' 2"
Rear loading width	2.24 m / 7' 4"
Rear loading width with extensions	3.68 m / 12' 1"
Primary feeder	
Wear resistant lined feeder	1024 mm x 2277 mm / 40" x 7' 6"
Drive	Hydraulic variable speed
Pre screen	
Type	Double deck
Top deck	1930 x 1108mm / 6' 4" x 3' 8"
Bottom deck mesh	1260 x 1108 mm / 4' 2" x 3' 8"
Punch plate	40 mm / 1.5"
Underscreen mesh	20 mm / ¾"
Impactor	
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
Main conveyor	
Belt width	1200 mm / 47"
Discharge height	4.02 m / 13' 2"
Underpan feeder	
Type	Spring mounted vibrating feeder
Width	1030 mm / 40"
Length	2.18 m / 7' 2"
Natural fines conveyor	
Belt width	650 mm / 26"
Discharge height	2.90 m / 9' 6"
Magnet	
Model	Single pole overband magnet
Type	Self cleaning, height adjustable

Key specifications	QI353HS
Hanging screen	
Model - HS323	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 / ⅝"
Maximum mesh size	75 mm / 3"
Transfer conveyor	
Belt width	650 mm / 26"
Re-circ conveyor	
Belt width	500 mm / 20"
Discharge height	5.39 m / 17' 8" (stockpile)
Stockpile conveyor	
Belt width	500 mm / 20"
Discharge height	2.97 m / 9' 9"
Fines conveyor	
Belt width	1200 mm / 48"
Discharge height	3.67 m / 12'
Power pack	
Engine	CAT C9.3B Acert IPU Stage 5 / Stage 3A
Engine power	310 kw / 415 hp
Drive type	Direct wet clutch drive
Diesel tank capacity	760 litres / 200 USG
Hyd tank capacity	400 litres / 105 USG
Tracks	
Length (centres)	4.05 m / 13' 3"
Width (shoe)	500 mm / 20"
Control	Radio / Umbilical
HS transport dimensions	
Length	18.3 m / 60' 8"
Width	3.58 m / 11' 9"
Height	3.66 m / 12'
Transport weight	56,500 kg / 124,561 lbs
HS operating dimensions	
Length	18.48 m / 60' 8"
Width open circuit	11.18 m / 36' 6"
Width closed circuit	6.47 m / 21' 2"
Height	5.49 m / 18'
Performance	
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)

Standard specification

- Pan feeder
- Vibrating pre screen
- Underpan feeder
- Single pole overband magnet
- Folding main conveyor complete with dust covers
- Telescopic 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 *
- Diverter chute
- Lighting mast and cabinet lights
- High pressure water pump
- Optik™ intuitive user interface
- Hopper extensions for rear loading
- My Fleet telematics with 7 year data subscription

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