

Sandvik QI353

Tracked HSI crusher

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

Reliability

- Market leading Sandvik Prisec™ impact chamber for unrivalled flexibility and performance
- Rock box and underpan 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 its class, resulting in fewer reduced blockages and higher 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 double deck hanging screen as standard to provide a 1, 2 or 3 way split (see QI353 HS for full specification)
- 15% larger fuel storage to maximize intervals between refueling
- 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 trapping 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 its 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	QI353
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 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"
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"
Magnet	
Model	Single pole overband magnet
Type	Self cleaning, height adjustable

Key specifications	QI353
Natural fines conveyor	
Belt width	650 mm / 26"
Discharge height	2.9 m / 9' 6"
Tracks	
Length (centres)	4.05 m / 13' 3"
Width (shoe)	500 mm / 20"
Control	Radio / Umbilical
Power pack	
Engine	Stage 5 CAT C9.3B Acert IPU Stage 3A 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
Transport dimensions	
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	46,000 kg / 101,412 lbs
Operating dimensions	
Length	15.22 m / 50'
Width	6.47 m / 21' 2"
Height	4.98 m / 16' 4"
Performance	
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
- Telescopic natural fines conveyor *
- Dust suppression spray bars
- Hydraulic jacking legs
- Remote diesel pump *
- Tool kit

- Radio control tracking
- 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