



# SANDVIK QA451 MOBILE DOUBLESREEN

## TECHNICAL SPECIFICATION

The world's first triple deck Doublescreen, the QA451 is capable of producing large volumes of high specification product. Featuring two inline 3 x 1.5 m / 10' x 5' screen boxes these provide you with ultimate flexibility and control. The first screen performs as a fines extractor, whilst the second screen performs as a grader. Two processes combined on one plant, offering exceptional flexibility and massive throughput.

### KEY BENEFITS

<b>Reliability</b>	<ul style="list-style-type: none"><li>- Premium components selected throughout and FEA analysis on structural parts for durability</li><li>- Capable of operating in the most hostile environments</li><li>- Wear resistant liners in hopper and side conveyor feed boots</li><li>- Feeder load sensing facility to prevent blockages and unnecessary downtime</li></ul>
<b>Productivity</b>	<ul style="list-style-type: none"><li>- World class Doublescreen design with triple deck 6 x 1.50 m / 20' x 5' equivalent, enabling high throughput</li><li>- Doublescreen offers greater adjustability, increased accuracy and higher screening efficiencies</li><li>- The screen box delivers an aggressive and effective vibrating action up to 1200 rpm, meaning your output will be at optimum levels</li><li>- Versatile unit, capable of producing large volumes of high specification product</li><li>- Large stockpiling capability through integrated hydraulic conveyors</li><li>- Oversize conveyor features both hydraulic raise / lower and hydraulic slew functions to optimize feed</li><li>- User friendly PLC control system with sequential start-stop for speed and ease of set-up</li><li>- Choice of screen media to suit a wide range of applications</li><li>- Quick to set-up and easy to transport, resulting in more uptime and higher productivity</li><li>- Connected to Sandvik My Fleet with 7 year data subscription offering 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 engines provide maximum performance and cost efficiency</li><li>- Reduced fuel consumption through optimized hydraulic system and reduced engine RPM</li><li>- Well-proportioned fuel tank to maximize intervals between refueling</li><li>- Reduced cost of ownership through extended hydraulic fluid change intervals from 2000 hrs to 4000 hrs</li><li>- Hybrid "e" drive option with electric plug-in to run in diesel or electric mode for lower operating costs</li></ul>
<b>Safety</b>	<ul style="list-style-type: none"><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 two speed control for safe tracking onsite</li><li>- Wrap-around hydraulically operated maintenance platforms provide safe access for service and maintenance</li><li>- Oversize conveyor features both hydraulic raise / lower and slew functions eliminating the need for a crane onsite</li></ul>
<b>Sustainability</b>	<ul style="list-style-type: none"><li>- Latest emissions compliant engine lowers environmental impact due to reduced fuel consumption, less operating noise and low emissions</li><li>- 50 % hydraulic fluid saving with extended service interval from 2,000 to 4,000 hours</li><li>- Hybrid "e" drive option reduces carbon emissions and minimizes fuel handling onsite</li><li>- Dust suppression system minimizes dust emissions reducing environmental impact</li></ul>





KEY SPECIFICATIONS	QA451
<b>Hopper</b>	
Capacity	11.33 m <sup>3</sup> / 14.8 yd <sup>3</sup>
Type	Hydraulic tipping grid
Standard aperture	128 mm / 5"
<b>Feed conveyor belt</b>	
Width	1200 mm / 3' 11"
Length	3890 mm / 12' 9"
Belt speed	18 m / min
<b>Screen box</b>	
Type	Doublescreen
Decks	3 deck
First screen box size	3040 mm x 1520 mm / 10' x 5'
Second screen box size	Top 3040 mm x 1520 mm / 10' x 5' Mid 3040 mm x 1520 mm / 10' x 5' Bottom 2430 mm x 1520 mm / 8' x 5'
Tensioning system	Ratchet
Speed	1200 rpm
Throw	7.7 mm
<b>Side conveyor (Mid overs) RHS</b>	
Discharge height	5130 mm / 16' 10"
Width	700 mm / 28"
<b>Side conveyor (Mid fines) LHS</b>	
Discharge height	4910 mm / 16' 9"
Width	700 mm / 28"
<b>Fines conveyor</b>	
Discharge height	5030 mm / 16' 6"
Width	1200 mm / 47"

## STANDARD SPECIFICATION

Light mast and cabinet lights  
 Radio control tracks 2 speed  
 Hydraulic folding maintenance platforms  
 Hydraulic leveling legs on hopper  
 Wear resistant liners in hopper and side conveyor feed boots  
 Main conveyor complete with anti roll back  
 Variable speed feed conveyor  
 3 hydraulic folding discharge conveyors  
 My Fleet telematics  
 Pull stop cords on side conveyors  
 Dust suppression spray bars  
 Hydraulic water pump

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<b>4th Conveyor (oversize) LHS</b>	
Discharge height	4890 mm / 16' 1"
Width	650 mm / 26"
Belt speed	111 m / min
<b>Tracks</b>	
Length (centres)	3800 mm / 12' 5"
Width (shoe)	500 mm / 20"
Control	Radio / Umbilical
<b>Power pack</b>	
Engine	CAT C4.4 Stage 5 / T4F 98 kW / 132 hp CAT C4.4 Stage 3A Constant Speed 98 kW / 132 hp
Diesel tank size	290 litres / 76.5 USG
Hydraulic tank size	370 litres / 98 USG
<b>Transport dimensions</b>	
Length	18.37 m / 60' 3"
Width	3.20 m / 10' 5"
Height	3.55 m / 11' 6"
Standard weight	33,935 kg / 74,814 lbs
<b>Operating dimensions</b>	
Length	18.80 m / 61' 8"
Width	17.85 m / 58' 7"
Height	6.47 m / 21' 3"
<b>Performance</b>	
Max feed size	200 mm / 8"
Capacity (up to)	600 mtp / 661 stph **
Travel speed	1.06 km/h / 0.66 mph
Max incline / Side to side	20° / 10°

Note. All weights and dimensions are for standard units only

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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