



SANDVIK QA451e MOBILE DOUBLESREEN

TECHNICAL SPECIFICATION

The world's first triple deck Doublescreen, the QA451e 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. Fitted with hybrid drive, this model provides the flexibility to operate in diesel or electric mode for lower operating costs and reduced carbon footprint.

KEY BENEFITS

Reliability	<ul style="list-style-type: none">- Premium components selected throughout and FEA analysis on structural parts for durability- Capable of operating in the most hostile environments- Wear resistant liners in hopper and side conveyor feed boots- Feeder load sensing facility to prevent blockages and unnecessary downtime
Productivity	<ul style="list-style-type: none">- World class Doublescreen design with triple deck 6 x 1.50 m / 20' x 5' equivalent, enabling high throughput- Doublescreen offers greater adjustability, increased accuracy and higher screening efficiencies- The screen box delivers an aggressive and effective vibrating action up to 1200 rpm, meaning your output will be at optimum levels- Versatile unit, capable of producing large volumes of high specification product- Large stockpiling capability through integrated hydraulic conveyors- Oversize conveyor features both hydraulic raise / lower and hydraulic slew functions to optimize feed- User friendly PLC control system with sequential start-stop for speed and ease of set-up- Choice of screen media to suit a wide range of applications- Quick to set-up and easy to transport, resulting in more uptime and higher productivity- Connected to Sandvik My Fleet with 7 year data subscription offering 24/7 fleet management, geo-fencing and remote operator support
Cost of ownership	<ul style="list-style-type: none">- Latest generation fuel efficient engines provide maximum performance and cost efficiency- Reduced fuel consumption through optimized hydraulic system and reduced engine RPM- Well-proportioned fuel tank to maximize intervals between refueling- Reduced cost of ownership through extended hydraulic fluid change intervals from 2000 hrs to 4000 hrs- Hybrid "e" drive with electric plug-in to run in diesel or electric mode for lower operating costs
Safety	<ul style="list-style-type: none">- Mandatory audible and visual warning 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 two speed control for safe tracking onsite- Wrap-around hydraulically operated maintenance platforms provide safe access for service and maintenance- Oversize conveyor features both hydraulic raise / lower and slew functions eliminating the need for a crane onsite
Sustainability	<ul style="list-style-type: none">- Hybrid "e" drive reduces carbon emissions and minimizes fuel handling onsite- Latest emissions compliant engine lowers environmental impact due to reduced fuel consumption, less operating noise and low emissions- 50 % hydraulic fluid saving with extended service interval from 2,000 to 4,000 hours- Dust suppression system minimizes dust emissions reducing environmental impact





KEY SPECIFICATIONS	QA451e
Hopper	
Capacity	11.33 m ³ / 14.8 yd ³
Type	Hydraulic tipping grid
Standard aperture	128 mm / 5"
Feed conveyor belt	
Width	1.20 m / 3' 11"
Length	3.89 m / 12' 9"
Belt speed	18 m / min
Screen box	
Type	Doublescreen
Decks	3 deck
First screen box size	3.04 m x 1.52 m / 10' x 5'
Second screen box size	Top 3.04 m x 1.52 m / 10' x 5' Mid 3.04 m x 1.52 m / 10' x 5' Bottom 2.43 m x 1.52 m / 8' x 5'
Tensioning system	Ratchet
Speed	1200 rpm
Throw	7.7 mm
Side conveyor (Mid overs) RHS	
Discharge height	5.13 m / 16' 10"
Width	700 mm / 28"
Side conveyor (Mid fines) LHS	
Discharge height	4.91 m / 16' 9"
Width	700 mm / 28"
Fines conveyor	
Discharge height	5.03 m / 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
 Pull stop cords on side conveyors
 Dust suppression spray bars
 Hydraulic water pump
 My Fleet telematics with 7 year data subscription

KEY SPECIFICATIONS	QA451e
4th Conveyor (oversize) LHS	
Discharge height	4.89 m / 16' 1"
Width	650 mm / 26"
Belt speed	111 m / min
Tracks	
Length (centres)	3.80 m / 12' 5"
Width (shoe)	500 mm / 20"
Control	Radio / Umbilical
Power pack	
Engine	CAT C4.4 Stage 5 / T4F 98 kW / 132 hp CAT C4.4 Stage 3A Constant Speed 98 kW / 132 hp CAT NR4 (China) 110 kW / 147 hp
Diesel tank size	290 litres / 76.5 USG
Hydraulic tank size	370 litres / 98 USG
Transport dimensions	
Length	18.37 m / 60' 3"
Width	3.20 m / 10' 5"
Height	3.55 m / 11' 8"
Standard weight	37,912 kg / 83,582 lbs
Operating dimensions	
Length	18.80 m / 61' 8"
Width	17.85 m / 58' 7"
Height	6.47 m / 21' 3"
Performance	
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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