Sandvik QE442e

Free Flow tracked scalper

The QE442e Free Flow provides you with a versatile and highly efficient mobile solution for difficult to screen materials, without any of the plugging or blockages often experienced with traditional screens. Fitted with hybrid drive option, this model provides the flexibility to operate in diesel or electric mode for lower operating costs and reduced carbon footprint.



Key benefits

Reliability
- Premium components selected throughout and FEA analysis on structural parts for durability
- Proven reliability and high performance
- Capable of operating in the most hostile environments
- Heavy duty chassis designed to accommodate interchangeable side conveyors and compatible for 2-way or 3-way split configurations
- Large capacity wear resistant hopper with one-piece hopper design to minimize set-up time
- Feeder load sensing facility to prevent blockages and unnecessary downtime

Productivity
- Heavy duty top deck scalping screen allows you to process large un-screened material
- Aggressive Free Flow screen with wide range of adjustable throws and speeds enables the bottom deck to be tailored for numerous applications
- Dual motion Free Flow lower deck featuring polyurethane mats generates a huge throw and eliminates plugging and blockages
- Large stockpiling capability through integrated hydraulic conveyors
- 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
- Interchangeable side conveyors, which are compatible for 2-way or 3-way split operation
- 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
- 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
- Hydraulic service intervals increased from 2000 hrs to 4000 hrs, subject to oil sampling
- Hybrid “e” drive with electric plug-in to run in diesel or electric mode for lower operating costs

Safety
- 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
- Screen box jack up facility allows safe and easy access to the bottom deck for maintenance and media changes

Sustainability
- 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

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Key specifications	QE442e Free Flow
Hopper	
Type	One-piece wear resistant
Width	3.14 m / 10’ 3”
Length	5.72 m / 18’ 8”
Capacity	8.5 m^3 / 11.1 yd^3
Feeder	
Type	Heavy duty belt
Width	1300 mm / 51”
Belt speed (adjustable)	17 m / min (max)
Oversize conveyor	
Width	1600 mm / 63”
Discharge angle (adjustable)	18° to 25°
Discharge height (adjustable)	3.6 m / 11’ 10” - 4.3 m / 14’ 1”
Side conveyor (midsize)	
Width	900 mm / 36”
Discharge angle (adjustable)	18° to 25°
Discharge height (adjustable)	4 m / 13’ 1”
Side conveyor (fines)	
Width	1000 mm / 39”
Discharge angle (adjustable)	20° to 25°
Discharge height (adjustable)	4.28 m / 14’ 1”
Transfer conveyor	
Width	1400 mm / 55”
Screen box	
Top deck	4 off modular cassettes, side tension / bolted
Top deck screen size	5.39 m x 1.73 m / 17’ 8” x 5’ 8’
Top deck screen area	9.34 m^2 / 11 yrd^3
Bottom deck	17 off polyurethane Free Flow mats, wedge fastened
Bottom deck screen size	5 m x 1.75 m / 16’ 5” x 6’
Bottom deck screen area	9 m^2 / 10.7 yrd^3
Variable screen angles	11° to 17°

Key specifications	QE442e Free Flow
Tracks	
Length (centres)	3.8 m / 12’ 5”
Width (shoe)	500 mm / 20”
Control	Radio / Umbilical
Power pack	
Engine	CAT C4.4 Stage 5 / T4F 110 kW / 147 hp CAT C4.4 Stage 3A constant speed 98 kW / 132 hp
Hybrid drive	2 (x 45 kW / 60 hp)
Diesel tank size	460 litres / 121.5 USG
Hydraulic tank size	400 litres / 105 USG
Transport dimensions	
Length	16.33 m / 53’ 7”
Width	3.20 m / 10’ 6”
Height	3.50 m / 11’ 6”
Standard weight	40,287 kg / 88,817 lbs
Operating dimensions	
Length	16.82 m / 55’ 2”
Width	14.56 m / 47’ 9”
Height	4.68 m / 15’ 4”
Performance	
Max feed size	200 mm^3 / 8”
Capacity (up to)	400 mtph / 441 stph **
Travel speed	0.9 km/h / 0.55 mph slow 1.6 km/h / 1.0 mph fast
Max incline / Side to side	20° / 10°

Note. All weights and dimensions are for standard units only

Standard specification

- Light mast and cabinet lights
- Radio control tracks 2 speed
- Hydraulic folding maintenance platforms
- Stabilizing legs
- Wear resistant liners in hopper and both side conveyor feed boots
- Toughflex belt
- Variable speed feed conveyor
- 3 hydraulic folding discharge conveyors
- Heavy duty bearings
- Pull stop cords on all conveyors *
- Dust suppression spray bars *
- 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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