

Sandvik QE442

Tracked scalper

The QE442 is the largest in the heavy-duty range of Sandvik mobile scalpers. Designed for the large-scale aggregate producer, it is reliable, versatile and boasts high throughput, with the fines conveyor alone able to handle up to 900 TPH.



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

- Class leading open scalping area enabling it to deliver enormous rates of production
- Heavy duty 18' x 6' / 5.48 x 1.75 m screen box with high speed and aggressive throw for optimum throughput
- 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
- Reduced cost of ownership through extended hydraulic fluid change intervals from 2000 hrs to 4000 hrs
- Hybrid "e" drive option 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
- Hydraulically folding 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

- 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
- Hybrid "e" drive option reduces carbon emissions and minimizes fuel handling onsite

Technical specification

Key specifications	QE442
Hopper	
Type	One-piece wear resistant
Width	3.0 m / 9' 10"
Length	5.72 m / 18' 8"
Capacity	8.5 m ³ / 11.1 yd ³
Feeder	
Type	Steel apron or heavy duty belt
Width	1300 mm / 51"
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	
Type	2 bearing
Decks	2 deck
Top deck	5.48 m x 1.75 m / 18' x 6'
Bottom deck	5 m x 1.75 m / 16' 5" x 6'
Variable screen angles	11° to 17°

Key specifications	QE442
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
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	37,220 kg / 82,056 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	800 mm ³ / 28"
Capacity (up to)	900 mtp ^h / 992 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 (with belt feeder)

- 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