



**TEREX® | FINLAY**

**873**

# 873 Heavy Duty Screener

**PRELIMINARY  
SPECIFICATION**



## **SPECIFICATION:**

|                   |                            |                                 |
|-------------------|----------------------------|---------------------------------|
| Screen Size:      |                            | 3660mm x 1530mm (12' x 5')      |
| Net Engine Power: | Tier 3 / Stage IIIA:       | Caterpillar C4.4 83kW (111.3hp) |
|                   | Tier 3 / Stage IIIA:       | Caterpillar C4.4 97kW (130hp)   |
|                   | Stage IIIA Constant Speed: | Perkins 1104 97kW (130hp)       |
|                   | Tier 4F / Stage IV:        | Caterpillar C4.4 82kW (110hp)   |

|                   |                                        |
|-------------------|----------------------------------------|
| Portability:      | Tracked                                |
| Operating Weight: | 26,300kg (57,982lbs)*                  |
|                   | <i>*Standard Machine configuration</i> |

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# SPECIFICATION

## HOPPER / FEEDER

Hopper Capacity: 7m<sup>3</sup> (9.16yd<sup>3</sup>)

Feed height 3.56m (11' 8")

Feed width: 2.6m (8' 6")

Drive: Twin drive motor gearbox arrangement

Belt width: 1.2m (40")

Speed Variable: 0 - 21 m/min

## SCREEN BOX

Top & bottom deck: 3.66m x 1.53m (12' x 5')

Tensioning top deck: side

Tensioning bottom deck: end

Drive: hydraulic with heavy duty bearing

Catwalks: Galvanised access catwalk on both side of screen

Screen angle: 13° - 19°, hydraulic adjustable

Screen speed: 1000 rpm

Screen stroke: 8mm (0.4")

Screen box discharge end raises hydraulically 500mm to facilitate mesh changing

Total screening area: 10.95m<sup>2</sup> (120ft<sup>2</sup>)

## OVERSIZE CONVEYOR

Belt width: 1.2m (48")

Working Angle: 18° - 24°

Speed: Variable speed, 50 m/min max belt speed

Impact bars 2/3 Length of Conveyor

Steel skirted full length of conveyor

Discharge Height: 3.5m (11' 5")

Stockpile capacity: 64m<sup>3</sup> (70yd<sup>3</sup>) max

## TRANSFER CONVEYOR

Belt width: 1.2m (48")

Belt Speed: 83 m/min (272 ft/min)

Conveyor fully skirted

## FINES CONVEYOR

Belt width: 800mm (32")

Belt spec: plain belt

Working Angle: 24° - 28°

Rosta scraper on head drum

Speed: variable speed, 120 m/min (394 ft/min) max belt speed

Standard Discharge Height: 4m (13' 1") max

Stockpile capacity: 95m<sup>3</sup> (124yd<sup>3</sup>) max

Optional telescopic section

Extended Discharge Height: 5.1m (16' 9") max



Hopper - Extensions folded for crusher feed



Screen Box



Oversize Conveyor



Oversize Conveyor



Fines Conveyor

## MID GRADE CONVEYOR

Belt width: 800mm (32")

Belt spec: chevron belt

Working Angle: 22° - 26°

Speed: variable speed 120 m/min (394 ft/min) max belt speed

Standard Discharge Height: 3.4m (11' 2") max

Stockpile capacity: 58m<sup>3</sup> (76yd<sup>3</sup>) max

Optional telescopic section

Extended Discharge Height: 4.4m (14' 5") max

Stockpile capacity: 126m<sup>3</sup> (165yd<sup>3</sup>) max

## POWERUNIT AND HYDRAULICS

Tier 3 / Stage IIIA: Caterpillar C4.4

Engine Power: 83kW (111.3hp)

Engine Speed: 2200 rpm

Tier 3 / Stage IIIA: Caterpillar C4.4

Engine Power: 97kW (130hp)

Engine Speed: 2200 rpm

Stage IIIA Constant Speed: Perkins 1104

Engine Power: 97kW (130hp)

Engine Speed: 1800 rpm

Tier 4F / Stage IV: Caterpillar C4.4

Engine Power: 82kW (110hp)

Engine Speed: 2200 rpm

Pump 1: Tandem 33/33cc

One section driving the belt feeder or right track

Second section driving oversize and mid-grade in parallel or left track.

Pump 2: 46/27cc

Driving screenbox and fines & transfer conveyor in parallel

Pump 1: Triple 63/41/41cc (Constant Speed)

First section driving the screen.

Second section driving the oversize or mid-grade conveyors in parallel or the right track.

The third section driving the feeder or the left track.

Pump 2: Tandem 33/33cc (constant speed)

Driving the fines and transfer conveyor

## TANK CAPACITIES

Hydraulic Tank Capacity: 470 litres / 103 UK gal / 124 US gal

Fuel Tank Capacity: 327 litres / 72 UK gal / 86 US gal

Urea Tank Capacity: 19 litres / 4.2 UK gal / 5 US gal

## UNDERCARRIAGE

Shoe Width: 400mm (16")

Sprocket Centres: 2.92m (9' 5")

Speed: 0.9kph

Gradeability: 27°



Midgrade Conveyor



Galvanised Catwalk around Screen



Top Deck Tines



Top Deck Punch Plate



Cat Powerunit

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## STANDARD FEATURES

### ENGINE:

Tier 3 / Stage IIIA Caterpillar C4.4 - 4 cylinder diesel engine developing 83kW (111.3hp) 2200 rpm

Tier 3 / Stage IIIA Caterpillar C4.4 ATAAC ACERT - 4 cylinder diesel engine developing 97kW (130hp) @ 2200 rpm

Stage IIIA Perkins 1104 97kW Constant Speed Engine - 4 cylinder diesel engine developing 97kW (130hp) 1800 rpm - Europe Only

Tier 4F / Stage IV - Caterpillar C4.4 - 4 cylinder diesel engine developing 82kW (110hp) @ 2200 rpm

### FEEDER:

Hopper Capacity: 7m<sup>3</sup> (9.16yd<sup>3</sup>)

Beltfeeder with 1200mm plain belt (40") and twin hydraulic gearbox drive

No grid unit

Remote start stop of pan feeder

### SCREENBOX:

Modular configuration screen box

Hydraulic raise for mesh changing (500mm)

Both top and bottom decks 3.66m x 1.53m (12' x 5')

No mesh included for any deck (but all mesh fitting parts included as standard)

Galvanised Catwalk around screen c/w handrail, kick board and access ladder

Screen box reject chute (1)

### OVERSIZE CONVEYOR:

Belt Width: 1.2m (48") O/S conveyor with twin drive and chevron belt (3.5m discharge height)

### MIDDLE GRADE CONVEYOR:

Belt Width: 800mm (32") chevron belt on middle grade conveyor with variable speed & thumper roller

### FINES CONVEYOR:

Belt Width: 800mm (32") plain belt on fines conveyor with variable speed and belt scraper

### GENERAL:

Heavy duty undercarriage unit with 400mm wide pads - 2920mm sprocket centres

Control operation of tracks via hand held-set with 5m connection lead

Safety guards in compliance with machinery directive

Low level greasing

Emergency Stops (4 nr)

## OPTIONS

Radio remote control of tracks

Tines in top deck (40/55/65/75/100/125/150mm) - Max. piece size not to exceed 500mm<sup>3</sup>, based on a Material density of 1,600kg/m<sup>3</sup>

Abbrasion Resistant Plate punch plate in top deck of screen (35/40/50/60/75/85/100/125/150mm) (175/200mm punch plate also available but only on last 2 screens) - Max. piece size not to exceed 500mm<sup>3</sup>, based on a Material density of 1,600kg/m<sup>3</sup>

Heavy duty Bofar bars in top deck (75/100/125/150mm) - Max. piece size not to exceed 500mm<sup>3</sup>, based on a Material density of 1,600kg/m<sup>3</sup>

Punch plate bofar style (55/65mm) Max. piece size not to exceed 500mm<sup>3</sup>, based on a Material density of 1,600kg/m<sup>3</sup>

Cascade fingers in bottom deck 15/40/50/60

Top deck mesh (20-150mm) - Max. piece size not to exceed 500mm<sup>3</sup>, based on a Material density of 1,600kg/m<sup>3</sup>

Bottom deck mesh/ speedharp (10-60mm)

Hydraulic tensioning (bottom deck screen mesh)

1 nr stockpiler drive

OR Separate drive for middle & oversize conveyors

OR Separate drives for transfer and fines conveyors

68 grade hydraulic oil

Special paint colour (if different from Terex MPE White RAL 1013 or Finlay Orange RAL 2002) RAL must be specified on order

10mm Abrasion Resistant Plate lined hopper

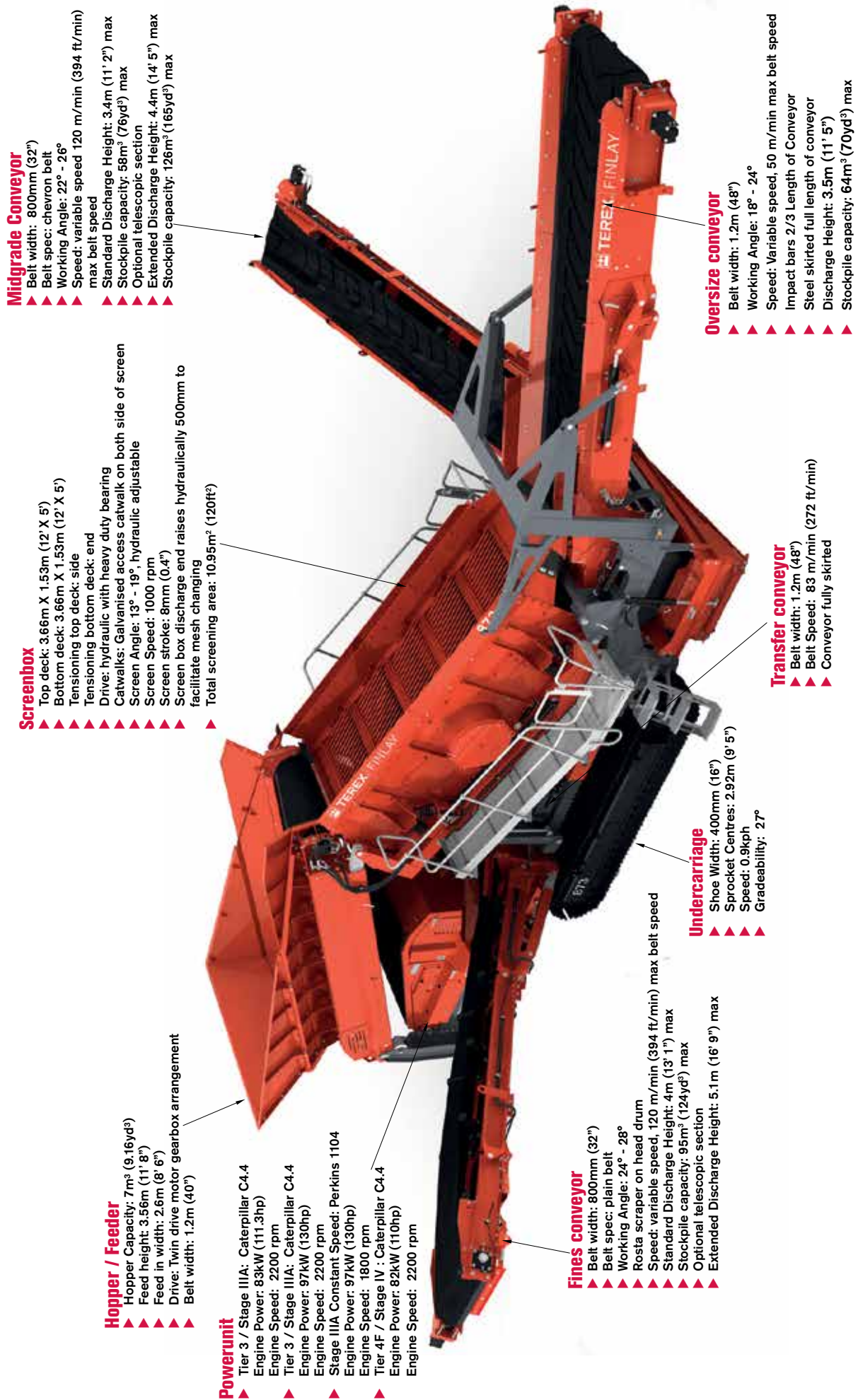
300mm increased ground clearance extension

Impact bars full length of oversize conveyor

Extended fines & middle grade conveyors (fines 750mm extra height, mid grade 800mm extra height)



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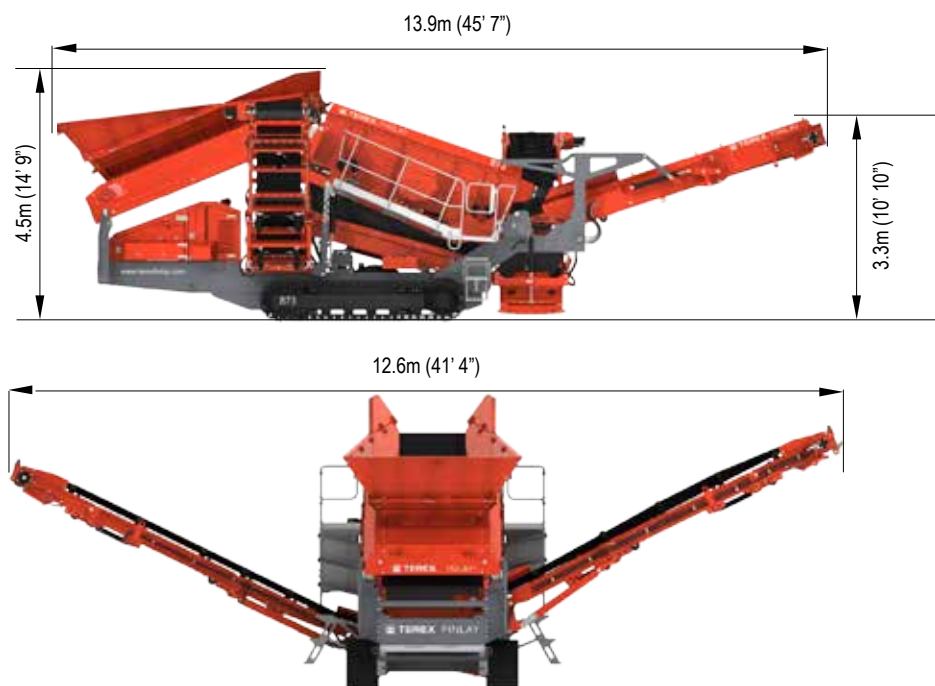


- Hopper / Feeder**
- ▶ Hopper Capacity: 7m<sup>3</sup> (9.16yd<sup>3</sup>)
  - ▶ Feed height: 3.56m (11' 8")
  - ▶ Feed in width: 2.6m (8' 6")
  - ▶ Drive: Twin drive motor gearbox arrangement
  - ▶ Belt width: 1.2m (40")
- Powerunit**
- ▶ Tier 3 / Stage IIIA: Caterpillar C4.4
  - ▶ Engine Power: 83kW (111.3hp)
  - ▶ Engine Speed: 2200 rpm
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  - ▶ Engine Power: 97kW (130hp)
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  - ▶ Stage IIIA Constant Speed: Perkins 1104
  - ▶ Engine Power: 97kW (130hp)
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  - ▶ Engine Power: 82kW (110hp)
  - ▶ Engine Speed: 2200 rpm
- Fines conveyor**
- ▶ Belt width: 800mm (32")
  - ▶ Belt spec: plain belt
  - ▶ Working Angle: 24° - 28°
  - ▶ Rosta scraper on head drum
  - ▶ Speed: variable speed, 120 m/min (394 ft/min) max belt speed
  - ▶ Standard Discharge Height: 4m (13' 1") max
  - ▶ Stockpile capacity: 95m<sup>3</sup> (124yd<sup>3</sup>) max
  - ▶ Optional telescopic section
  - ▶ Extended Discharge Height: 5.1m (16' 9") max
- Screenbox**
- ▶ Top deck: 3.66m X 1.53m (12' X 5')
  - ▶ Bottom deck: 3.66m X 1.53m (12' X 5')
  - ▶ Tensioning top deck: side
  - ▶ Tensioning bottom deck: end
  - ▶ Drive: hydraulic with heavy duty bearing
  - ▶ Catwalks: Galvanised access catwalk on both side of screen
  - ▶ Screen Angle: 13° - 19°, hydraulic adjustable
  - ▶ Screen Speed: 1000 rpm
  - ▶ Screen stroke: 8mm (0.4")
  - ▶ Screen box discharge end raises hydraulically 500mm to facilitate mesh changing
  - ▶ Total screening area: 10.95m<sup>2</sup> (120ft<sup>2</sup>)
- Midgrade conveyor**
- ▶ Belt width: 800mm (32")
  - ▶ Belt spec: chevron belt
  - ▶ Working Angle: 22° - 26°
  - ▶ Speed: variable speed 120 m/min (394 ft/min) max belt speed
  - ▶ Standard Discharge Height: 3.4m (11' 2") max
  - ▶ Stockpile capacity: 58m<sup>3</sup> (76yd<sup>3</sup>) max
  - ▶ Optional telescopic section
  - ▶ Extended Discharge Height: 4.4m (14' 5") max
  - ▶ Stockpile capacity: 126m<sup>3</sup> (165yd<sup>3</sup>) max
- Undercarriage**
- ▶ Shoe Width: 400mm (16")
  - ▶ Sprocket Centres: 2.92m (9' 5")
  - ▶ Speed: 0.9kph
  - ▶ Gradeability: 27°
- Transfer conveyor**
- ▶ Belt width: 1.2m (48")
  - ▶ Belt Speed: 83 m/min (272 ft/min)
  - ▶ Conveyor fully skirted
- Oversize conveyor**
- ▶ Belt width: 1.2m (48")
  - ▶ Working Angle: 18° - 24°
  - ▶ Speed: Variable speed, 50 m/min max belt speed
  - ▶ Impact bars 2/3 Length of Conveyor
  - ▶ Steel skirted full length of conveyor
  - ▶ Discharge Height: 3.5m (11' 5")
  - ▶ Stockpile capacity: 64m<sup>3</sup> (70yd<sup>3</sup>) max

## TRANSPORT DIMENSIONS



## WORKING DIMENSIONS



**MACHINE WEIGHT:** **26,300kg (57,982lbs)**  
Standard Machine configuration

For further information on specific machine weight configurations please consult Terex Finlay



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