

# TEREX | FINLAY



# 873

# 873 HEAVY DUTY SCREENER

## SPECIFICATION:

Screen Size:

Net Engine Power:

Tier 3 Equivalent:

Tier 3 Equivalent:

Stage IIIA Constant Speed:

Tier 4F / Stage IV:

3660mm x 1530mm (12' x 5')

Caterpillar C4.4 83kW (111.3hp)

Caterpillar C4.4 97kW (130hp)

Caterpillar C4.4 98kW (131hp)

Caterpillar C4.4 82kW (110hp)

Tracked

Portability:

Operating Weight:

26,300kg (57,982lbs)\*

*\*Standard Machine configuration*



# 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

Beltfeeder with 1.2m plain belt (48")

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

Wear resistant liners on top deck discharge chute

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 Equivalent: Caterpillar C4.4

Engine Power: 83kW (111.3hp)

Engine Speed: 2200 rpm

Tier 3 Equivalent: Caterpillar C4.4

Engine Power: 97kW (130hp)

Engine Speed: 2200 rpm

Stage IIIA Constant Speed: Caterpillar C4.4

Engine Power: 98kW (131hp)

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 panfeeder 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

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



Powerunit - valve bank

**WORKS FOR YOU.**<sup>TM</sup>

## ELECTRICAL SPECIFICATION (DUAL POWER)

2 x 37kW IE3 electric motors c/w hydraulic gear pumps and electrical control panel allowing machine to run in either Diesel or Electric mode. Suitable for voltage supplies varying from 380V – 440V at 50Hz frequency.

Electric Pump 1: Triple 51cc/36cc/36cc

The first section drives the feeder

The second and third section drives the screen

Electric Pump 2: Triple 63cc/41cc/41cc

The first section is split to drive either the middle grade or the oversize minus conveyor

The second section drives the fines (independent fines/collection) or mids (independent mids/overs) or stockpiler

The third section drives the collection, jacking legs and the fines (when not independent fines/collection option)

Please note; when a constant speed engine is used then the second section from each motor will swap role, i.e. the screen will then be driven from the third section of the first motor and the second section of the second motor

## STANDARD FEATURES

### ENGINE:

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

Stage IIIA Caterpillar C4.4 97kW Constant Speed Engine - 4 cylinder diesel engine developing 98kW (131hp) 1800RPM - Europe Only

### FEEDER:

Beltfeeder: 1200mm (40") plain belt

Fixed Hopper

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 1.5m (12' x 5')

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

### OVERSIZE CONVEYOR:

Belt Width: 1200mm (48") c/w chevron belt & skirting

### MIDDLEGRADE CONVEYOR:

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

### FINES CONVEYOR:

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

### ELECTRICAL:

Emergency Stops (4 nr)

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

T-Link Telemetry System fitted c/w 3 years data subscription NOTE: Only included with CAT 97Kw engine option



Dual Power System shows the 883+ plant

### GENERAL:

Safety guards in compliance with machinery directive

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

### OPTIONAL EQUIPMENT

Dual Power – 2 x37kW IE3 electric motors c/w hydraulic gear pumps and electrical control panel allowing machine to run in either Diesel or Electric mode \*\* \*\*STD voltage supply: 380V - 440v @ 50Hz. (Contact the factory for availability, leadtime and, if any local requirements are different from standard offering\*\*

Tier 3 Equivalent Caterpillar C4.4 - 4 cylinder diesel engine developing 97kW (130hp) @ 2200rpm

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

6mm Abrasion Resistant Plate lined hopper

Tines in top deck (40/55/65/75mm) - Max. piece size not to exceed 400mm<sup>3</sup>, based on a Material density of 1,600kg/m<sup>3</sup>

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

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

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

Bottom deck mesh/ speedharp (10-60mm)

Hydraulic tensioning (bottom deck screen mesh)

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

Impact bars full length of oversize conveyor

Magnetic Drive drum on Mid Grade Conveyor (Only Available on STD Conveyors and not Telescopic side conveyors)

Magnetic Drive drum on Fines Conveyor (Only Available on STD Conveyors and not Telescopic side conveyors)

Radio remote control of tracks

68 grade hydraulic oil

300mm increased ground clearance extension

1 nr stockpiler drive

OR Separate drive for middle & oversize conveyors

OR Separate drives for transfer and fines conveyors

Special paint colour (if different from Finlay Orange RAL 2002) RAL must be specified on order

- 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

- 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>)

- 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
  - ▶ Beltfeeder with 1.2m plain belt (48")

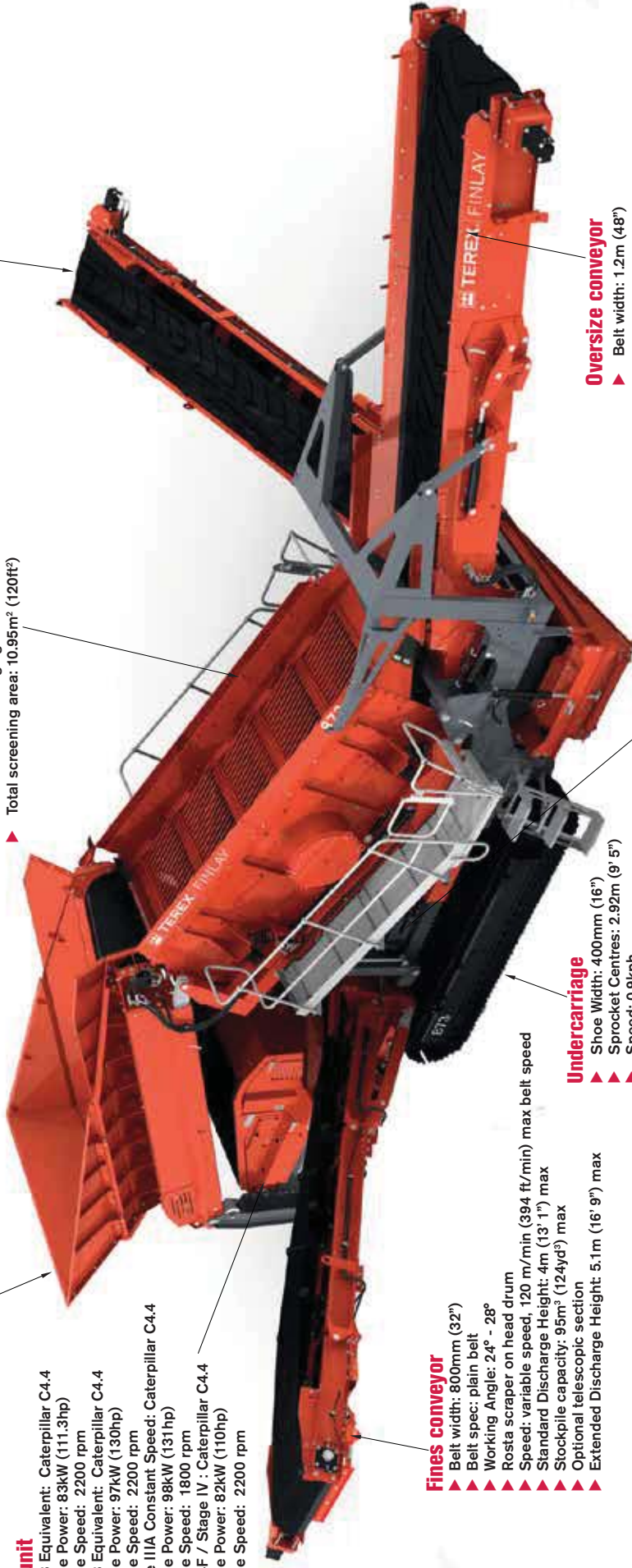
- Powerunit**
- ▶ Tier 3 Equivalent: Caterpillar C4.4
  - ▶ Engine Power: 83kW (111.3hp)
  - ▶ Engine Speed: 2200 rpm
  - ▶ Tier 3 Equivalent: Caterpillar C4.4
  - ▶ Engine Power: 97kW (130hp)
  - ▶ Engine Speed: 2200 rpm
  - ▶ Stage IIIA Constant Speed: Caterpillar C4.4
  - ▶ Engine Power: 98kW (131hp)
  - ▶ Engine Speed: 1800 rpm
  - ▶ Tier 4F / Stage IV : Caterpillar C4.4
  - ▶ 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

- 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

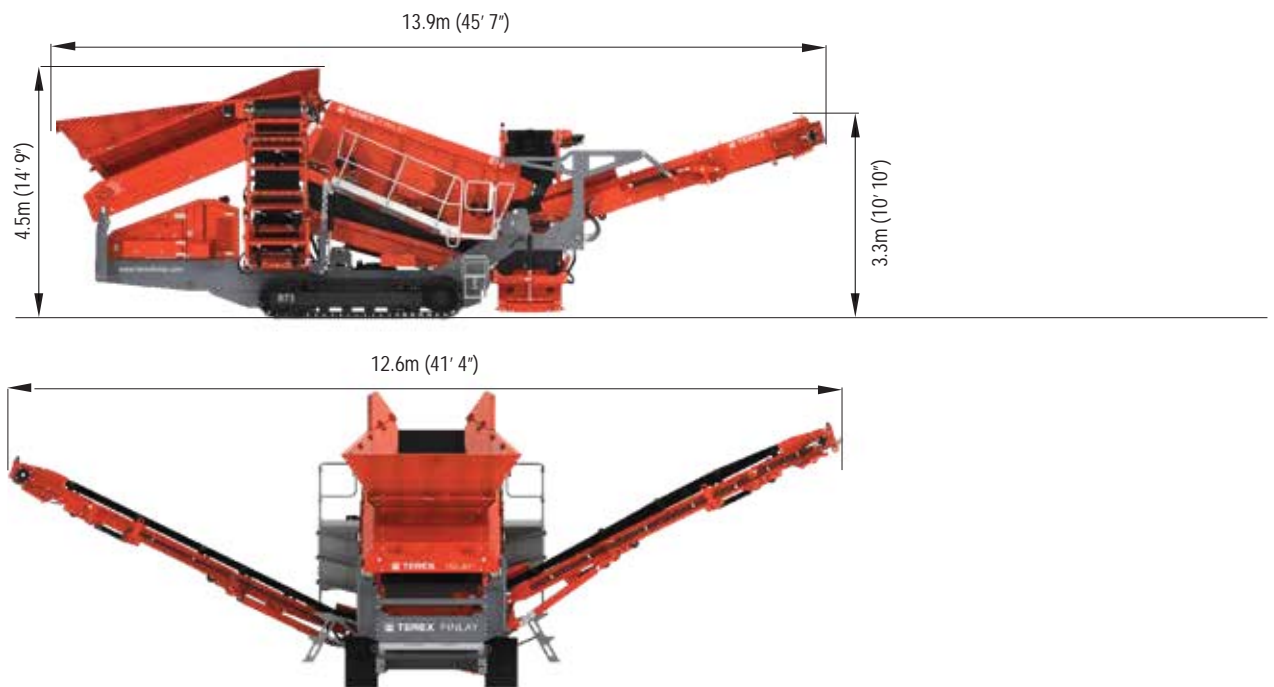
- Overize conveyor**
- ▶ Belt width: 1.2m (48")
  - ▶ Working Angle: 18° - 24°
  - ▶ Speed: Variable speed, 50 m/min max belt speed
  - ▶ Impact bars 2/3 Length of Conveyor
  - ▶ Steel skirted full length of conveyor
  - ▶ Discharge Height: 3.5m (11' 5")
  - ▶ Stockpile capacity: 64m<sup>3</sup> (70yd<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