



TEREX | FINLAY



893

893 HEAVY DUTY SCREENER

SPECIFICATION:

Screen Size:

Net Engine Power: Tier 3 Equivalent:
Tier 4F / Stage IV:

Portability:

Operating Weight:

6100mm x 1830mm (20' x 6')

Caterpillar C7.1 151kW (202hp)

Caterpillar C4.4 129kW (173hp)

Tracked

48,000kgs (106,000lbs)*

**Estimated*



SPECIFICATION

HOPPER / FEEDER

Hopper Capacity: 10m³ (13.08 yd³)

Feed height: 3.27m - 4.16m (10' 9" - 13' 8")

Feed in width: 1.698m - 2.475m (5' 6" - 8' 1")

Drive: Hydraulic variable speed drive via high torque gearbox and heavy duty chain drive

Apron feeder dimensions: 1.1m x Length 5.18m (43" x 16' 12")

Speed: variable, up to 24 mpm

Abrasion Resistant steel pan apron feeder mounted with wide mouth opening

Hopper extensions (Optional): Feed height: 4.905m - 5.29m (16' 1" - 17' 3") Feed in width: 3.724m (12' 2")

SCREEN BOX

Top deck: 6.1m x 1.83m (20' x 6')

Upper deck media: 40mm - 200mm

Bottom deck: 5.5m x 1.83m (18' x 6')

Bottom deck media: 100mm max

Tensioning top deck: side

Tensioning bottom deck: end

Drive: hydraulic with heavy duty bearing single shaft, 2 bearing

Catwalks: Galvanised access catwalk on both sides of screen

Screen Angle: 14° - 18°

Screen Speed: 900 rpm - 1000 rpm

Screen stroke Min/Max range: 8mm - 10mm

Screen stroke standard: 8mm

Wear resistant liners on top deck discharge chute

Screen box discharge end raises hydraulically 600mm to facilitate mesh changing

Media options: Mesh, Punch Plate, Bofor bars, fingers and heavy duty sectional punch plate

Total screening area: 21.2m² (228 ft²)

OVERSIZE CONVEYOR

Belt width: 1.6m (63")

Belt spec: Chevron

Working Angle: Hydraulic raise/lower variable working angle - 14° to 24°

Speed: 52 mpm

Hydraulically folding head section

Impact bars full length of conveyor

Steel skirted full length of conveyor

Discharge Height: 4.55m (14' 11")

Stockpile capacity: 140.1m³ (183.2yd³) @ 24°

TRANSFER CONVEYOR

Belt width: 1.4m (55")

Belt spec: Plain

Belt Speed: 99.4 mpm

Conveyor fully skirted



Heavy Duty Pan Feeder



Hydraulically Folding Hopper Extensions (option)



Apron Feeder



Oversize Conveyor



Oversize Conveyor



Screenbox-Top Deck Bofar Bars

FINES CONVEYOR

Belt width: 1.05m (41")

Belt spec: plain

Working Angle: 25°

Rosta scraper on head drum

Speed: variable speed, up to 122 mpm

Standard Discharge Height: 4.5m (14' 09")

Stockpile capacity: 136m³ (178yd³) @ 40°

MIDSIZE CONVEYOR

Belt width: 900mm (36")

Belt spec: Chevron

Working Angle: 25°

Speed: variable speed, up to 114 mpm

Standard Discharge Height: 4.35m (14' 03")

Stockpile capacity: 122m³ (159.6yd³) @ 40°

POWERPACK

Tier 3 Equivalent: Caterpillar C7.1 LRC

Engine Power: 151kW (202hp)

Engine Speed: 2200 rpm

Tier 4F / Stage IV: Caterpillar C4.4

Engine Power: 129kW (173hp)

Engine Speed: 2200 rpm

Pump 1: Quad 63cc/63cc/33cc/33cc pump

One section driving panfeeder

Second section driving screen

Third section driving the transfer conveyor and low speed left hand track

Fourth section driving the fines conveyor and low speed right hand track

Pump 2: Tandem 29cc/29cc pump

One section driving the midsize conveyor and high speed right hand track

Second section driving the oversize conveyor and high speed left hand track

TANK CAPACITIES

Hydraulic Tank: 780 litres / 172 UK gal / 206 US gal

Fuel Tank: 597 litres / 131 UK gal / 158 US gal

Urea Tank: 36 litres / 7.9 UK gal / 9.5 US gal

UNDERCARRIAGE

Width: 500mm (20")

Sprocket centres: 3.8m (12' 6")

2 Speed with 'soft start'

Speed: High speed: 16.67 m/min (0.62mph)

Low speed: 8.33 m/min (0.31 mph)

Gradeability: 28.9°

Raking Angle: 10°



Powerunit Cat Engine (Standard)



User friendly control panel



Midsize Conveyor



Fines Conveyor



Easy Service Access

STANDARD FEATURES

ENGINE:

Tier 3 Equivalent Caterpillar C7.1 LRC – 6 Cylinder diesel engine developing 151kW (202hp) @ 2200 RPM

Tier 4F / Stage IV - Caterpillar C4.4 - 4 cylinder diesel engine developing 129kW (173hp) @ 2200 RPM

FEEDER:

Abbrasion Resistant plate steel pan apron feeder with heavy duty chain drive

Fixed Hopper

Remote start stop of apron feeder

Adjustable feed height - 435mm range

SCREENBOX:

Modular configuration screen box

Hydraulic raise for mesh changing (600mm)

6.1m x 1.83m (20' x 6') top deck screen and 5.5m x 1.83m(18' x 6') bottom deck screen

Top deck side and Bottom deck end tensioned mesh fitting parts as standard

Screen box extensions fitted as standard, inlet extensions fold for transport

OVERSIZE CONVEYOR:

Belt Width: 1.6m (63") chevron belt & skirting

Oversize conveyor has impact bars in feedboot and impact slips thereafter

MIDDLEGRADE CONVEYOR:

Belt Width: 900mm(36") chevron belt with variable speed, thumper roller & telescopic head section

FINES CONVEYOR:

Belt Width: 1.05m (41") Plain belt with variable speed, belt scraper & telescopic head section

TRANSFER CONVEYOR:

Belt Width: 1.4m (55") variable speed control & high spec scraper

Independent hydraulic drive for each conveyor

Pressure sensor protection against overload on fines and transfer conveyor

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

GENERAL:

Safety guards in compliance with machinery directive

Low level greasing

1 nr stockpiler drive

OPTIONAL EQUIPMENT

Tines in top deck (40/55/65/75/100/125/150mm) - Max. piece size not to exceed 650mm³, based on a Material density of 1,600kg/m³

Top deck abbrasion Resistant Plate punch plate (35/40/50/60/75/85/100/125/150mm) Max. piece size not to exceed 750mm³, based on a Material density of 1,600kg/m³

Top deck heavy duty Bofar bars (75/100/125/150mm)(Check Lead-time - Contact Factory) - Max. piece size not to exceed 750mm³, based on a Material density of 1,600kg/m³

Heavy duty fabricated modular punch plate(80/100/150mm) (200/250/300mm only on last 2 sections)Max piece size not to exceed 750mm³, based on a material density of 1,600kg/m³. Note: Mesh frame removed for this configuration

Top deck mesh (20-150mm) - Max. piece size not to exceed 750mm³, based on a Material density of 1,600kg/m³

Cascade fingers in bottom deck 20/30/40/50/60/75

Bottom deck mesh/ speedharp (10-60mm)

Bottom deck side tensioned c/w mesh fitting parts

Bottom deck side tensioned mesh (not compatible with bottom deck cascade fingers)

Bottom deck punch plate (Side Tensioned 10 -100mm)

Hydraulic tensioning (bottom deck screen end tensioned mesh)

Chain blanket for over the screenbox

Plain belt for middle grade conveyor

Chevron belt for fines conveyor

Radio remote control of tracks

68 grade hydraulic oil

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

Hopper / Feeder

- ▶ Hopper Capacity: 10m³ (13.08 yd³)
- ▶ Feed height: 3.27m - 4.16m (10' 9" - 13' 8")
- ▶ Feed in width: 1.698m - 2.475m (5' 6" - 8' 1")
- ▶ Drive: Hydraulic variable speed drive via high torque gearbox and heavy duty chain drive
- ▶ Apron feeder dimensions: 1.1m x Length 5.18m (43" x 16' 12")
- ▶ Speed: variable, up to 24 mpm
- ▶ Abrasion Resistant steel pan apron feeder mounted with wide mouth opening
- ▶ Hopper extensions (Optional): Feed height: 4.905m - 5.29m (16' 1" - 17' 3"), Feed in width: 3.724m (12' 2")

Screenbox

- ▶ Top deck: 6.1m x 1.83m (20' x 6')
- ▶ Upper deck media: 40mm - 200mm
- ▶ Bottom deck: 5.5m x 1.83m (18' x 6')
- ▶ Bottom deck media: 100mm max
- ▶ Tensioning top deck: side
- ▶ Tensioning bottom deck: end
- ▶ Drive: hydraulic with heavy duty bearing single shaft, 2 bearing
- ▶ Catwalks: Galvanised access catwalk on both sides of screen
- ▶ Screen Angle: 14° - 18°
- ▶ Screen Speed: 800 rpm - 1000 rpm
- ▶ Screen stroke Min/Max range: 8mm-10mm
- ▶ Screen stroke standard: 8mm
- ▶ Wear resistant liners on top deck discharge chute
- ▶ Screen box discharge end raises hydraulically 600mm to facilitate mesh changing
- ▶ Media options: Mesh, Punch Plate, Bofor bars, fingers and heavy duty sectional punch plate
- ▶ Total screening area: 21.2m² (228 ft²)

Midgrade Conveyor

- ▶ Belt width: 900mm (36")
- ▶ Belt spec: Chevron
- ▶ Working Angle: 25°
- ▶ Speed: variable speed, up to 114 mpm
- ▶ Standard Discharge Height: 4.35m (14' 03")
- ▶ Stockpile capacity: 122m³ (159.6yd³) @ 40°

Fines Conveyor

- ▶ Belt width: 1.05m (41")
- ▶ Belt spec: plain
- ▶ Working Angle: 25°
- ▶ Rosta scraper on head drum
- ▶ Speed: variable speed, up to 122 mpm
- ▶ Standard Discharge Height: 4.5m (14' 09")
- ▶ Stockpile capacity: 136m³ (178yd³) @ 40°

Powerpack

- ▶ Tier 3 Equivalent: Caterpillar C7.1 LRC
Engine Power: 151kW (202hp)
Engine Speed: 2200 rpm
- ▶ Tier 4F / Stage IV: Caterpillar C4.4
Engine Power: 129kW (173hp)
Engine Speed: 2200 rpm

Undercarriage

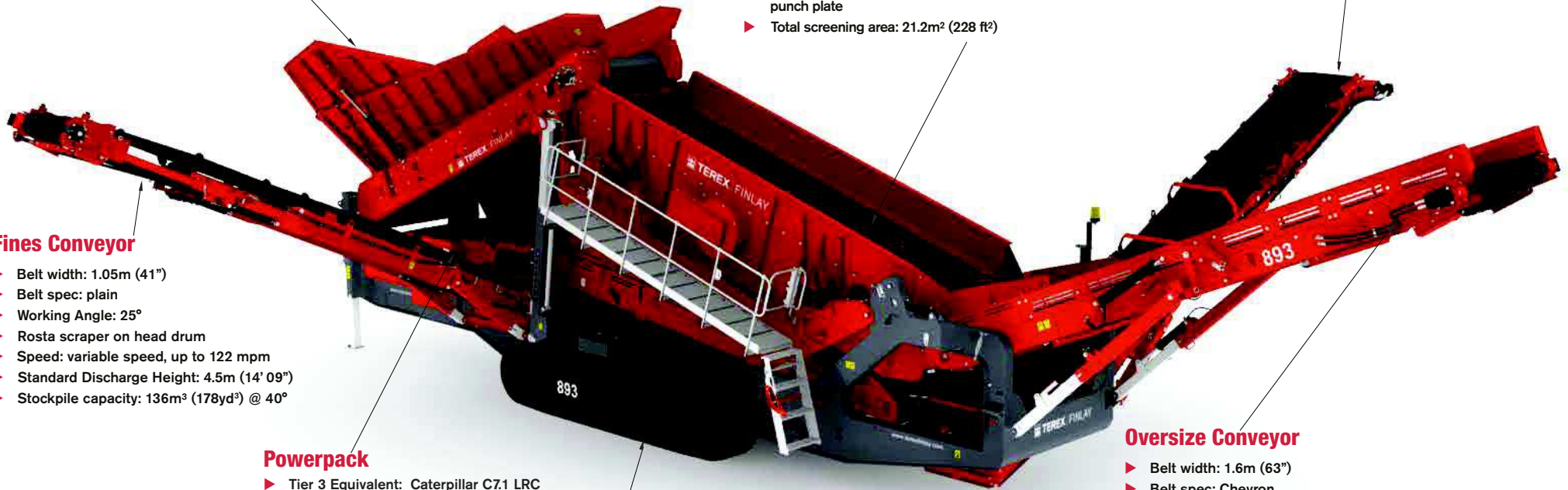
- ▶ Width: 500mm (20")
- ▶ Sprocket centres: 3.8m (12' 6")
- ▶ 2 Speed with 'soft start'
- ▶ Speed:
High speed: 16.67 m/min (0.62mph)
Low speed: 8.33m/min (0.31 mph)
- ▶ Gradeability: 28.9°
- ▶ Raking Angle: 10°

Transfer Conveyor

- ▶ Belt width: 1.4m (55")
- ▶ Belt spec: Plain
- ▶ Belt Speed: 99.4 mpm
- ▶ Conveyor fully skirted

Oversize Conveyor

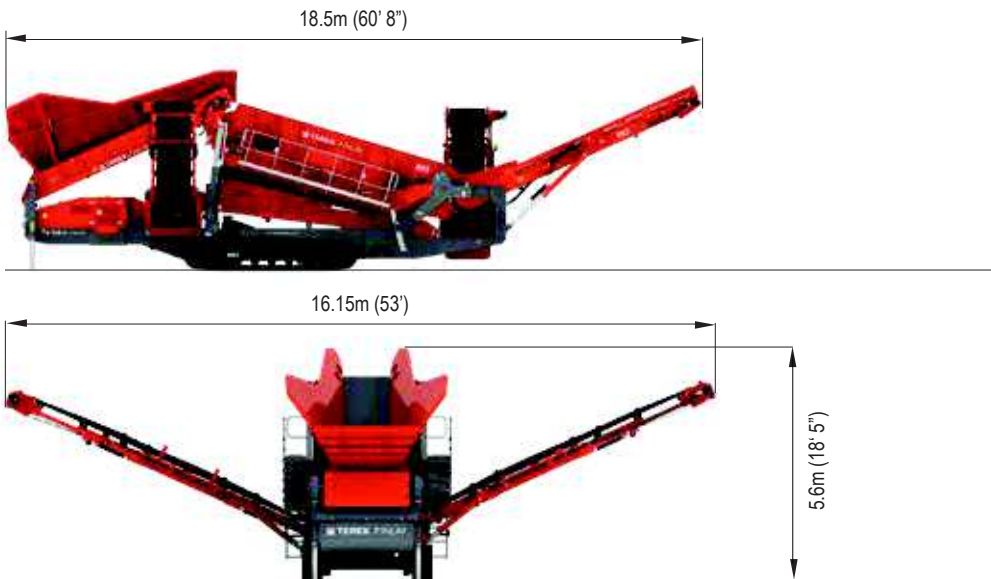
- ▶ Belt width: 1.6m (63")
- ▶ Belt spec: Chevron
- ▶ Working Angle: Hydraulic raise/lower variable working angle - 14° to 24°
- ▶ Speed: 52 mpm
- ▶ Hydraulically folding head section
- ▶ Impact bars in feedboot followed by impact slips thereafter
- ▶ Steel skirted full length of conveyor
- ▶ Discharge Height: 4.55m (14' 11")
- ▶ Stockpile capacity: 140.1m³ (183.2yd³) @ 24°



Transport Dimensions



Working Dimensions



*Machine shows,
Feeder at max feed height
Screen at max working angle
Conveyor max discharge height

MACHINE WEIGHT: 48,000kgs (106,000lbs) Estimated

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