

TESAB

ENGINEERED FOR POWER. BUILT TO LAST.

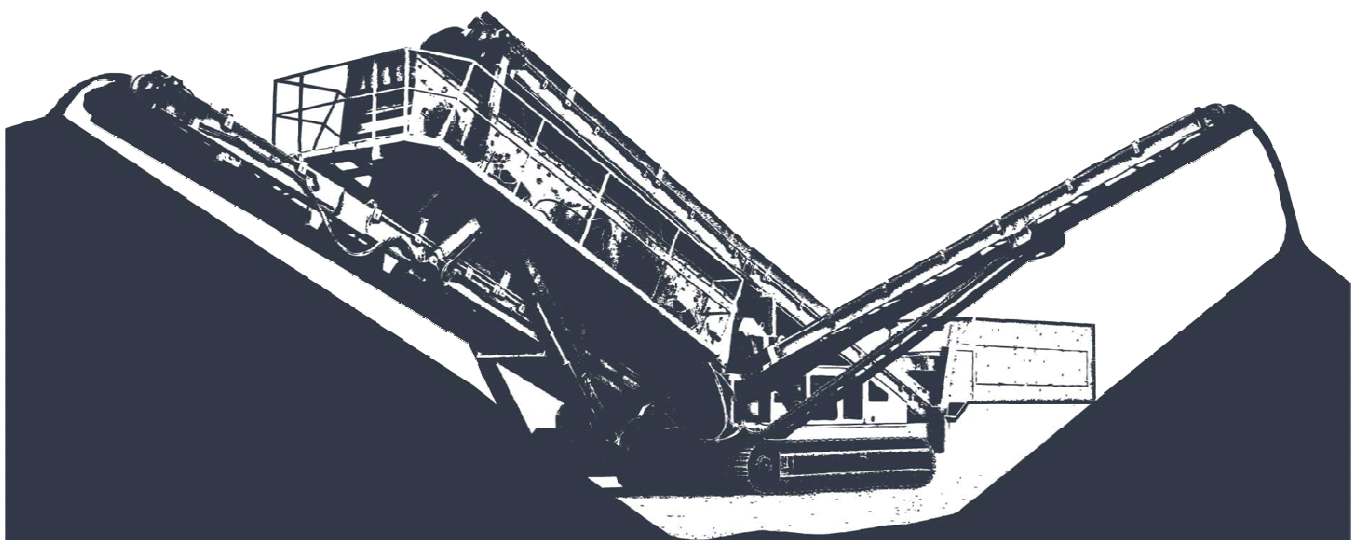
Technical Specification
TS1230 – 01/2015 Issue

TS1230

MOBILE SCREENER

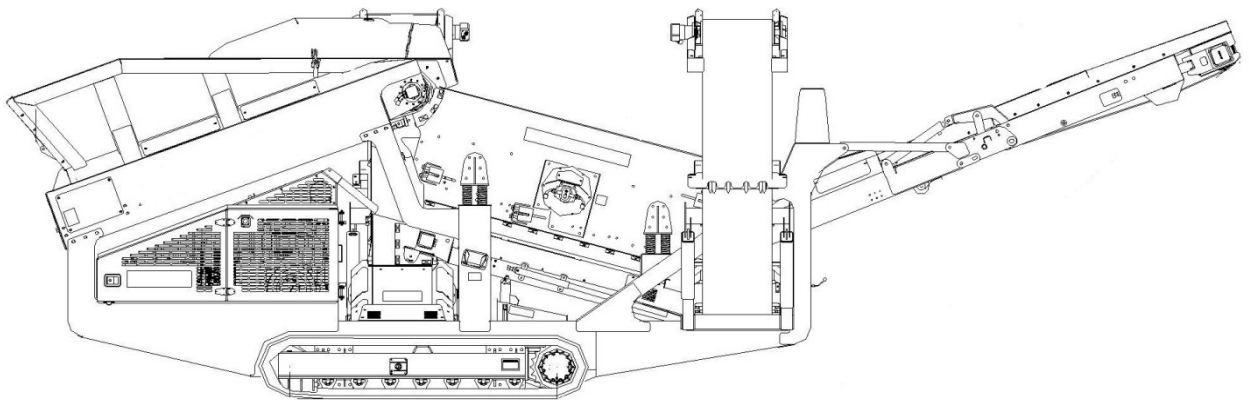
TECHNICAL SPECIFICATION

Subject to change without notice.



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Engineered for Power, Built to Last



DESCRIPTION:

Heavy Duty Mobile Screener with the following features:

- 9x4 heavy duty high energy 2 bearing screenbox.
- 63Kw (84Hp) JCB 444 diesel engine.
- Track mobile.
- Direct feed Hardox lined hopper.
- Integrated hydraulic folding stockpiling conveyors.
- Fast on site setup time – 10 minutes.
- Service standing room inside Powerpack.

DIMENSIONS AND WEIGHT:

- Length – working: - 11.49m (37' – 9")
- Width – working: - 12.45m (40' – 10")
- Length – transport: - 9.68m (31' – 9")
- Width – transport: - 2.50m (8' – 2.4")
- Height – transport: - 3.20m (10' – 6")
- Weight: - 15,400 Kgs (33,951 lbs)

CAPACITIES:

- Diesel tank capacity: - 342 L (90 US gal)
- Hydraulic tank capacity: - 516 L (136 US gal)
- Capacity – hopper: - 4.13m³ (5.4 cu yds)

BELT FEED CONVEYOR:

- Belt width: - 1200mm (48")
- Belt spec: - Heavy Duty Plain 500/4 8+2

- Drive drum dia: - 335mm (13.1")
- Tail drum dia: - 320mm (12.5")
- Gearbox: - Dual drive
- Gearbox ratio: - 24.2 : 1
- Gearbox torque: - 7,000Nm cont, 12,500Nm max
- Motor: - Danfoss OMSS125 / Eaton 125cc
- Flow rate: - 72.6 Lpm (19.2 US gpm)
- Adjustable speed: - YES
- Maximum speed: - 12 rpm

COLLECTION CONVEYOR:

- Belt width: - 1050mm (42")
- Belt spec: - Plain 400/3 4+2
- Drive drum dia: - 230mm (9")
- Tail drum dia: - 220mm (8.7")
- Motor: - Danfoss OMT500 / Eaton 500cc
- Flow rate: - 72.6 Lpm (19.2 US gpm)
- Adjustable speed: - YES
- Maximum speed: - 145.2 RPM

TAIL CONVEYOR:

- Stockpile height: - 3.38m (11' - 1")
- Angle: - 22 degrees fixed
- Belt width: - 1050mm (42")
- Belt spec: - Heavy Duty Chevron – 500/3 5+1.5
- Drive drum dia: - 293mm (11.5")
- Tail drum dia: - 220mm (8.7")
- Motor: - Danfoss OMV630 / Eaton 630cc
- Flow rate: - 72.6 Lpm (19.2 US gpm)
- Adjustable speed: - YES
- Maximum speed: - 115 RPM

MID PRODUCT SIDE CONVEYOR:

- Stockpile height: - 3.56m (11' – 8")
- Angle: - 25 degrees fixed
- Belt width: - 650mm (26")
- Belt spec: - Plain - 400/2 4+2
- Drive drum dia: - 230mm (9")
- Tail drum dia: - 220mm (8.7")
- Motor: - Danfoss OMT400 / Eaton 400cc

- Flow rate: - 59.4 Lpm (15.7 US gpm)
- Adjustable speed: - YES
- Maximum speed: - 148.5 RPM

FINE PRODUCT SIDE CONVEYOR:

- Stockpile height: - 3.56m (11' – 8")
- Angle: - 25 degrees fixed
- Belt width: - 650mm (26")
- Belt spec: - Plain - 400/2 4+2
- Drive drum dia: - 230mm (9")
- Tail drum dia: - 220mm (8.7")
- Motor: - Danfoss OMT400 / Eaton 400cc
- Flow rate: - 59.4 Lpm (15.7 US gpm)
- Adjustable speed: - YES
- Maximum speed: - 148.5 RPM

SCREENBOX:

- Dimensions – top deck: - 2.745m x 1.220m (9' x 4')
- Dimensions – bottom deck: - 2.592m x 1.220m (8.5' x 4')
- Screen area top & bottom deck: - 6.50 m² (70 ft²)
- Bearing type: - NSK 22219
- Screens – top deck: - 2.745m x 1.22m (9' x 4') end tension – 1
off
- Screens – bottom deck: - 1.677m x 1.22m (5.5' x 4') end tension – 1
off
0.915m x 1.22m (3' x 4') end tension – 1
off
- Tensioning – top deck: - Curved tension bar and adjuster
- Tensioning – bottom decks: - Curved tension bars and adjusters
- Screen angle – top deck: - 15 degrees fixed
- Screen angle – btm deck: - 1st section 20 degrees fixed
- Screen angle – btm deck: - 2nd section 15 degrees fixed
- Screen motor: - David Brown Hyd. MCC2208 (58.7cc/rev)
- Drive system: - Direct drive with HRC180 coupling
- Hydraulic flowrate: - 72.6 Lpm (19.2gpm)
- Speed adjustable: - YES – Pressure compensated FCV
- Screen stroke adjustable: - 8 - 10mm
- Screen shaft speed: - 940 - 960 rpm
- Screen 'g' force: - 5.05 g

POWER UNIT AND HYDRAULICS:

- Engine: - JCB 444 IPU T3 TC-63
- Engine power; - 63kW (84Hp)
- Engine speed: - 2200 rpm
- Flywheel Pump : - 1 David Brown Hyd. 5033,5033,5027
- Total system flow: - 204.6 Lpm (54.0 US Gpm)
- Hydraulic tank capacity: - 516 L (114 Gal,136 US gal)
- Hydraulic tank ratio: - 2.52 : 1
- Hydraulic Oil cooler: - YES

ELECTRICS

- Emergency stops: - 2 off @ powerunit RH&LH
- Chassis cabling: - Armored cable
- Start Siren: - YES – 10 sec delay
- Engine shutdowns:
 - Low oil pressure
 - High engine temp
 - Air filter blockage (selectable)
 - Fuel contamination
 - Low hydraulic tank level
- Engine room light: - YES
- Radio control tracks: - Optional – Hetronic system
- Pendant track control: - YES – plugged in at powerunit end

TRACKS:

- Width: - 400mm (1' – 3.75")
- Length: - 2470mm (8' – 1") centres
- Height: - 594mm (2' – 5")
- Gearbox: - Lohman
- Ratio: - 170.2 : 1
- Motor: - Rexroth 45/22.9
- Speed max: - 0.82 Kph (0.51 mph)
- Flow rate: - 72.6 Lpm (19.2 US Gpm)
- Attachment to chassis: - Bolt On for quick change

APRON FEEDER CONVEYOR:

- Apron Width: - 1400mm (55")
- Apron Spec: - 10mm Hardox apron shoes
- Adjustable Speed: - YES
- Motor: - Eaton 395cc
- Flow Rate: - 96 Lpm (25.4 US Gpm)
- Gearbox: - Brevini EC2090
- Gearbox Torque: - 10,000Nm cont
- Gearbox Ratio: - 1:16
- Maximum Speed: - 15.2Rpm

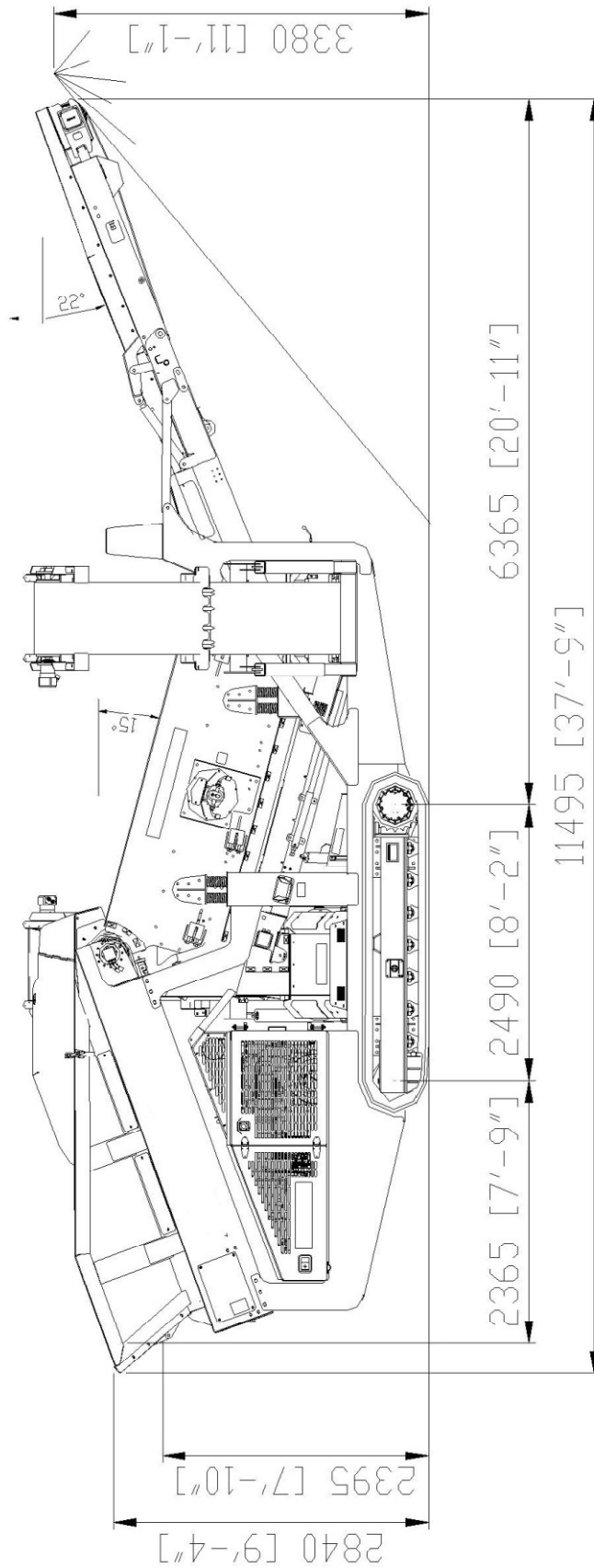
SAFETY FEATURES:

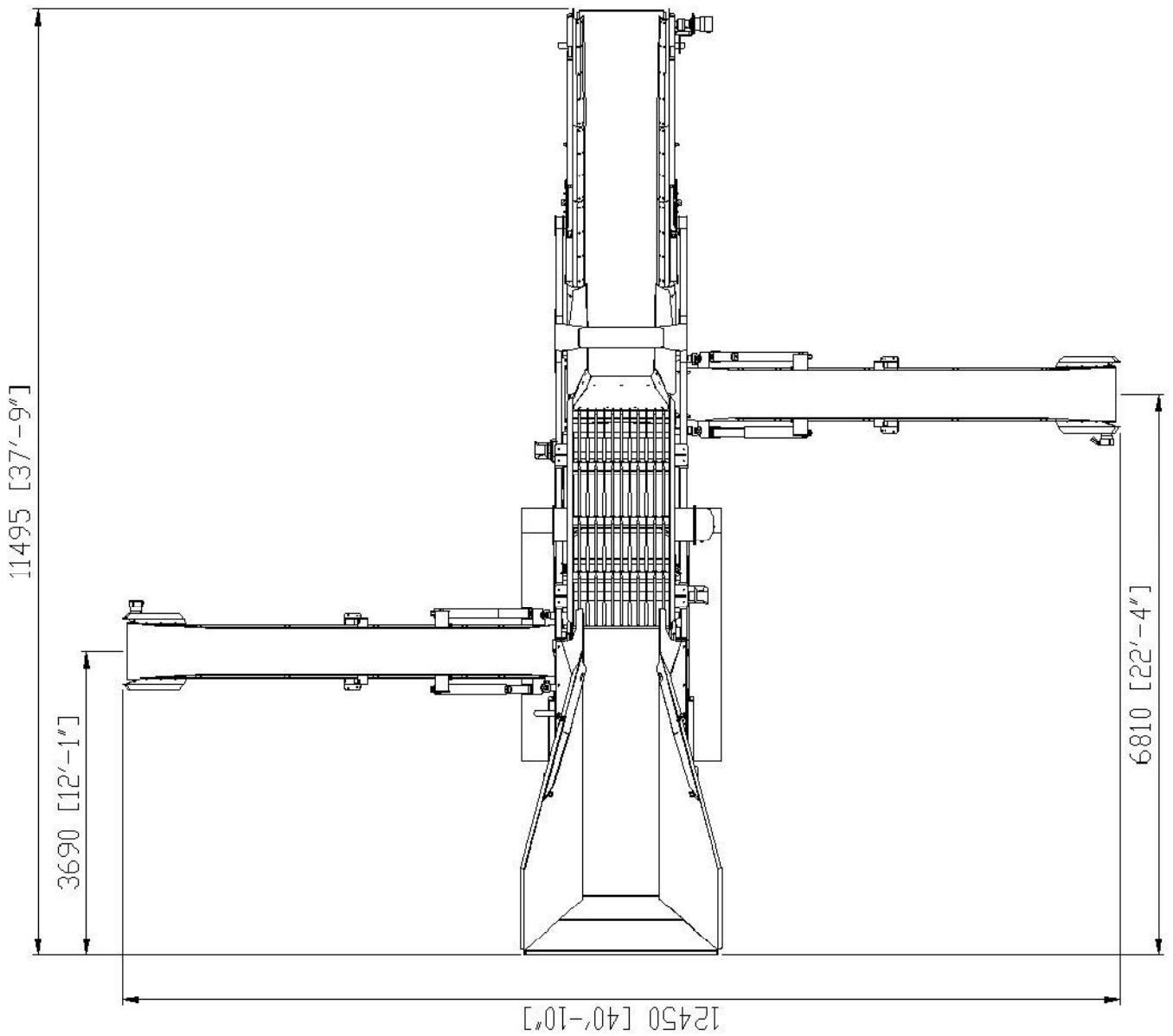
- External belt alignment points.
- External grease points.
- Engine safety shutdown systems.
- Full safety guarding for nip points.
- CE compliance.

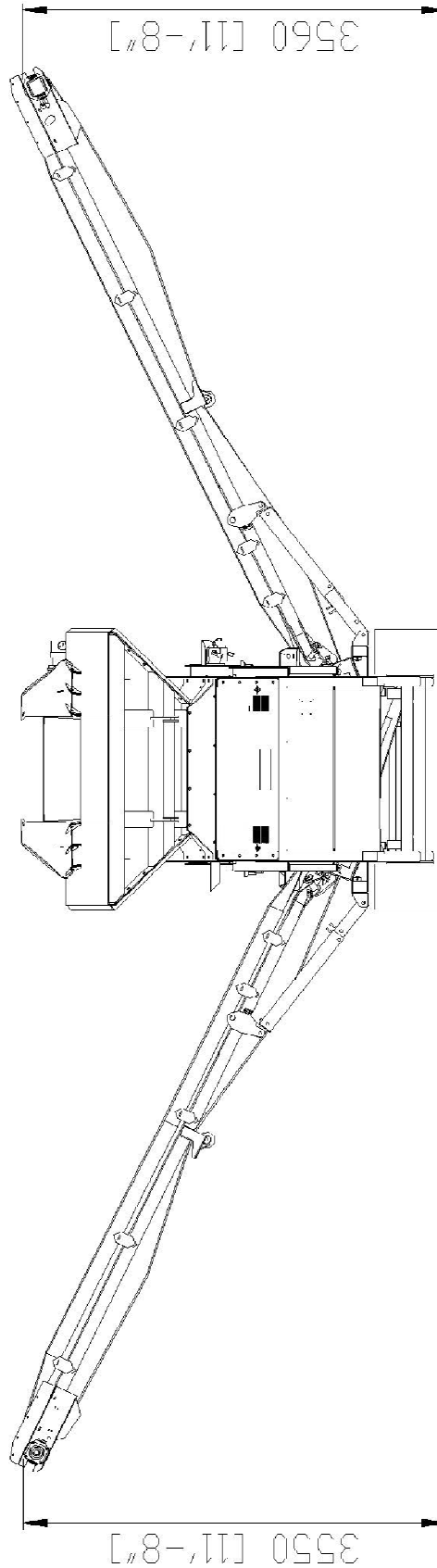
OPTIONS:

- Engine upgrade to 100HP Cat.
- Extended hopped wing plates.
- Auxiliary stockpiller circuit (requires engine upgrade).
- Heavy duty top deck finger screen.
- Bottom deck finger screen.
- Top deck punch plate screen.
- Bottom deck punch plate.
- Finger screen bottom deck.
- Radio remote control for tracks.
- Overband Magnet on oversize conveyor

WORKING DIMENSIONS:







TRANSPORT DIMENSIONS:

