

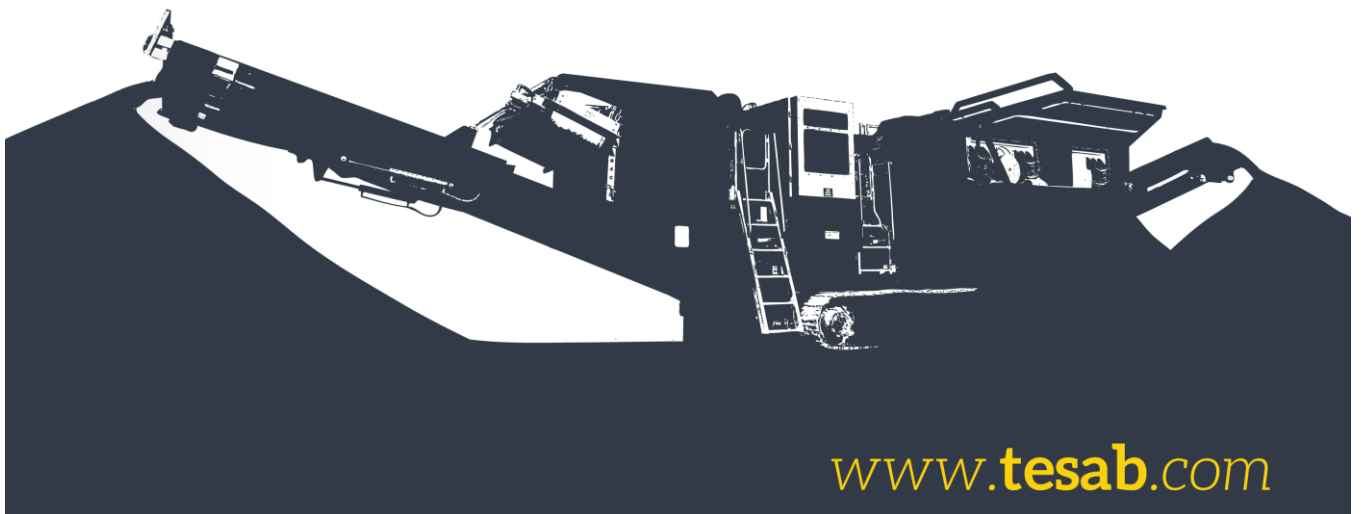
TESAB

ENGINEERED FOR POWER. BUILT TO LAST.

Technical Specification
800ie HYBRID Electric

800ie HYBRID MOBILE JAW CRUSHER 400V 50Hz TECHNICAL SPECIFICATION

Subject to change without notice.



www.tesab.com

Engineered for Power, Built to Last



DESCRIPTION:

Self-Contained Mobile Jaw Crusher with the following features:

- Custom Panel Enclosure with integrated Air Conditioning
 - Minimal risk of electrical failure due to dust ingress
 - Operation in high ambient heat conditions
 - Enclosure includes fan heating element for cold climates as standard
- 10" HMI Colour Display with rugged touch screen interface that is gloves compliant
- Machine Input power from removable onboard Diesel Genset **or** Utility Mains Supply
- Panel Enclosure has a Heavy-Duty P3 Sequential Power Distribution Panel for mains supply termination as standard. No hard wiring required to inside panel enclosure
- C9.3B 330kVA Stage 5 Diesel Genset removable on site for use at ground level as standalone unit for powering the machine (optional cabling required) or power other equipment if not. Lifting points supplied
- 2 power sources can be connected at once – lockable 3 position Isolator switch. Generator - Off - Mains
- Variable Speed - Heavy Duty Single Toggle Jaw Crusher
- 1050mm x 800mm (41" x 32") Crusher Feed Size
- 1820mm (71.5") Crusher Jaws
- Reverse Operation of Crusher via Single Button
- Auto-Unblocking of Crusher via Single Button
- Semi-Hydraulic Adjustable CSS with Manual Shims
- Integrated Electric Linear Drive Primary Feeder
- Variable Speed Control on Primary Feeder
- 2 Deck Independent Electric Linear Scalping Feeder
- 1200mm Hydraulically Folding Product Conveyor
- Product Conveyor Hydraulically Lowers to Ground Level for Ease of Access and Service
- 2 Way Dirt Chute & Hydraulically Folding Dirt Conveyor
- Hydraulically Folding & Locking Cribs
- 400mm Wide 2 Speed Crawler Tracks
- Fast on-Site setup Time – 20 Minutes

DIMENSIONS AND WEIGHT:

- Length – Transport: - 14.91m (48' 11")
- Length – Working: - 16.63m (52' 9")
- Width – Transport: - 3.0m (9' 10")
- Width – Working: - 6.0m (19' 9")
- Height – Transport: - 3.8m (12' 6")
- Weight: - 63,500 Kg* (140,000 lbs)

***NOTE:** The weights and dimensions stated here are given for a standard machine only. Optional extras fitted to the machine and/or transportation laws in force in various countries, may alter the transportation weight and dimensions of the machine.

HOPPER:

- Hopper Length: - 4900mm (16'2")
- Hopper Width: - 2750mm (9')
- Hopper Capacity: - 10m³ (13yd³)
- Spec: - Heavy Duty 15mm thick MSP
- Folding & Locking: - Hydraulic ram folding & Manual Wedge Locking
- Wear Plates: - STANDARD 12mm AR400

PRIMARY FEEDER:

- Vibrating Unit: - Twin 2.3kW Electric Vibration Motors
- Feeder Type: - Electric Linear Plate Feeder
- Variable Feeder Speed: - YES
- Max Feeder Amplitude: - 10mm Stroke
- Max Feeder G-Force: - 5.0 G-Force
- Feeder Length: - 2.6m (8' - 6")
- Feeder Width: - 1000mm (3' - 3")
- Remote Control Start/Stop: - YES
- Wear Plate: - 15mm AR400 STANDARD

SCALPING FEEDER:

- Feeder Motor: - Twin 2.5kW Electric Vibration Motors
- Max Feeder Amplitude: - 7.5mm @ 50Hz
- Max Feeder G-Force: - 4.5 G
- Feeder Screen Dimensions - Top Deck: - 1.75 x 1.06m (5' 9" x 3' 5")
- Feeder Screen Type - Top Deck: - 3" Grizzly Deck
- Tensioning - Top Deck: - Bolted
- Feeder Screen Dimensions - Bottom Deck: - 1040mm x 1015m (3'-5" x 3'-4")
- Feeder Screen Type - Bottom Deck: - Weld Mesh / Punch Plate / Blanking Plate
- Variable Feeder Speed: - No
- Remote Control Start/Stop: - Yes

CRUSHER:

- Direct Drive Electric Motor: - WEG 132kW (3 Year Warranty)
- Feed Opening: - 1050mm x 800mm (3' - 5" x 2' - 8")
- Jaw Length: - 1820mm (71.5")
- Maximum Crusher Speed: - 255 Rpm
- Minimum Crusher Setting: - 90mm (3.5")
- Maximum Crusher Setting: - 170mm (6.7")
- Max Feed Size: - 800mm (32")
- Crusher Drive: - Direct Drive SPC V-Belt 8 off
- Bearings: - Self Aligning Spherical Roller Bearings
- Hydraulic Crusher Adjustment: - Semi - Hydraulic Adjust with Manual Shim
- Trap Metal Protection System: - NO
- Overfill Protection: - YES
- Crusher Speed Sensor: - YES
- Variable Speed: - YES
- Reverse Operation: - YES
- AUTO – UNBLOCK Feature: - YES

MAIN PRODUCT CONVEYOR:

- Twin Drive Electric Motor: - 2 x WEG 7.5kW (3 Year Warranty)
- Gearbox: - 2 x WEG Gear units (3 Year Warranty)
- Discharge Height: - 4255mm (14') @ 22 deg
- Belt Width: - 1200mm (48")
- Belt Spec: - Plain EP630/4 6+2
- Drive Drum Diameter: - 300mm (12")
- Tail Drum Diameter: - 250mm (10")
- Belt Speed: - 111 m/min
- Hydraulic Lower to Ground Level: - YES
- Hydraulic Folding Head Section - YES

SIDE DIRT CONVEYOR:

- Single Electric Motor: - WEG 5.5kW (1 Year Warranty)
- Gearbox: - Bonfiglioli (2 Year warranty)
- Discharge Height: - 3100mm (10' 2")
- Belt Width: - 650mm (26")
- Belt Spec: - Plain – 500/3
- Drive Drum Diameter: - 220mm (8.6")
- Tail Drum Diameter: - 220mm (8.6")
- Belt Speed: - 100 m/min
- Hydraulic folding for Transport: - YES
- Left or Right Side Compatible: - YES

CONTROL PANEL ENCLOSURE:

- 10" HMI Colour Touch Screen: - Hitachi - glove compatible
- Ambient Operating Temperature range: - (-20°C to +40°C)
- Air Conditioning Unit: - Rittal unit with removable filters.
- Crusher Variable Speed Drives: - WEG 132kW VSD
- Primary Feeder Variable Speed Drive: - WEG 15kw VSD
- Product Conveyor Soft Start: - WEG 15kW Soft Start
- Switchgear and Contactors: - Allen Bradley
- Input from Power from Genset: - P3 Connectors on 4 single core cables L1; L2; L3+PE
Hardwired at panel side with plugs at genset side
- Input from Mains Supply: - P3 Sequential Power Distribution Panel on Main enclosure as standard.
Includes x4 Colour coded plugs for Mains Cable termination.
- Thermal Overload protection - YES
- Thermostat controlled Internal Heating Element Fan: - YES
- Surge Protection: - YES
- Mains monitoring Relay: - YES
- Internal LED Light Activated Door Open: - YES
- Limit switch on door to activate LED light: - YES
- Document Holder: - YES

DIESEL GENERATOR SET:

- Engine: - CAT C9.3B Tier 4f (Stage 5)
- Engine Power: - 455Hp - 340 Kw @ 1800 RPM
- Alternator Brand: - Leroy Somer (1 year warranty)
- Alternator Spec: - LSA – L11 365 kVA + abrasive air winding protection & PMG for independent AVR voltage reference
- Generator Rating: - 330 kVA
- Controller Panel: - DSE Deepsea controller
- Engine Speed: - 1500 Rpm (50Hz)
- Diesel Tank Capacity: - 700 Litres (185 US Gal)
- DEF Tank Capacity: - 30 Litres (8 US Gal)
- Machine Power Output Sockets: - P3 Connectors Power Distribution Box
- Auxiliary Power Output Sockets: - Selection of standard 3 phase sockets
- Earth Leakage Relay: - YES
- Lifting Points: - YES
- 10m Earth Spike Supplied: - YES

HYDRAULIC POWERPACK:

- Electric Motor: - WEG 75kW (1 Year Warranty)
- Hydraulic Pumps: - 53/53cc Tandem
- Hydraulic Tank Capacity: - 185 Liters (49 US Gallon)
- Auxiliary Output Coupling: - YES
- Auxiliary Output Flow: - 80Lpm approx.

ELECTRICS

- Chassis Cabling: - SWA Cable
- Emergency Stops: - x7 of,
1 @ Genset Powerunit
1 @ Upper Catwalk
1 @ Middle Catwalk
2 @ Rear Chassis LH & RH Sides
1 @ Front Chassis LH Side
1 @ Hydraulic Console
- Start Siren: - YES – 10 Second Delay
- Warning Beacon: - YES
- Tracking Siren: - YES – 10 Second Delay
- Tracking Beacon: - YES
- Genset Engine Shutdowns: - Low Oil Pressure
- High Water Temp
- Air Filter Blockage
- Fuel Contamination
- Electrical Leakage
- Crusher Shutdowns: - Electrical Overload
- Thermal Overload
- Crusher Overfill Detection: - YES
- Crusher Speed Sensor: - YES
- Automatic Feeder Shut Off System: - YES
- Product Conveyor Tail Lift Detection: - YES
- Remote Control Feeder: - YES
- Pendant Track Control: - YES
- Radio Control Tracks: - OPTIONAL

TRACKS:

- Motor: - Mil 110 2 speed (110cc Max / 64cc Min)
- Gearbox: - PMCI6000
- Ratio: - 162:1
- Speed Max: - 0.5 / 0.9 Kph (0.6 Mph)
- Width: - 400mm (15.8")
- Sprocket/Idler Centres: - 4050mm (13' 3")
- Height: - 830mm (33")
- Flow Rate: - 80 Lpm (21 US GPM)
- Gradeability: - 30°
- Attachment to chassis: - Bolt On

SAFETY FEATURES:

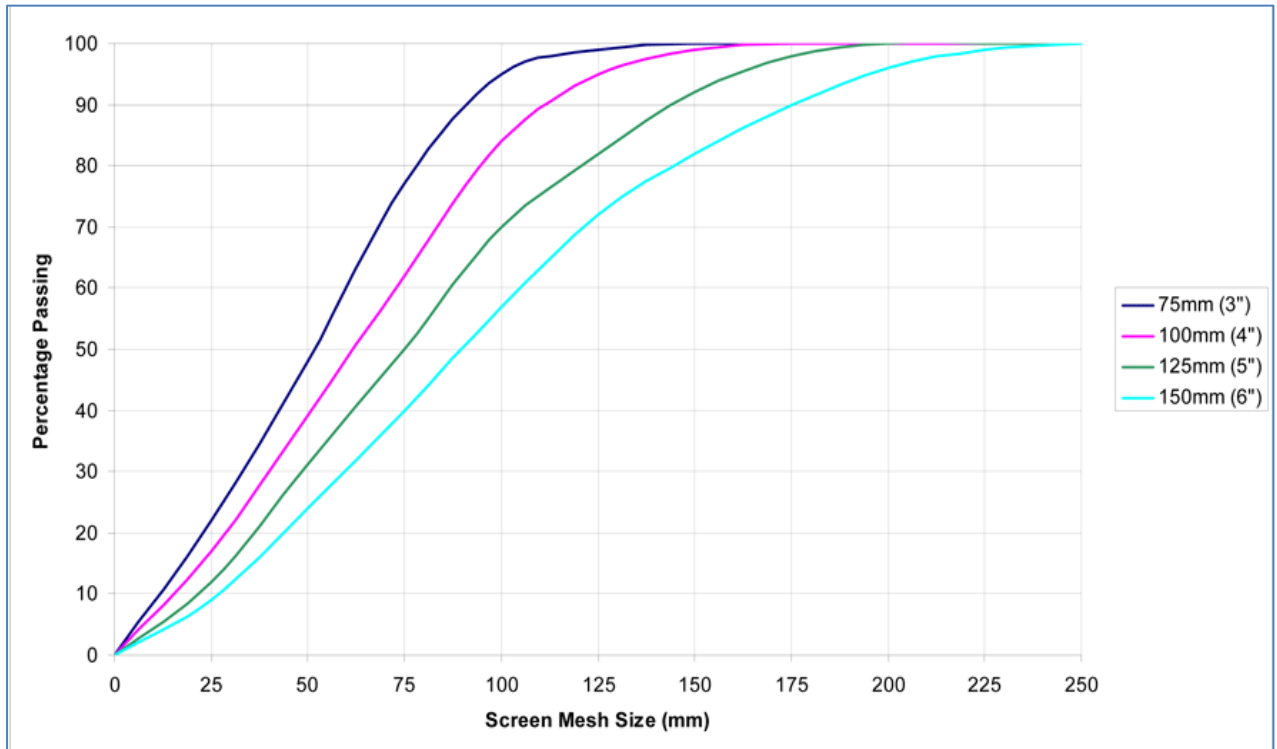
- Genset & Utility Mains Safety Shutdown Systems
- Earth Leakage Protection Inbuilt to Genset
- 10m Earth Spike provided as standard
- Tracking only enabled when utility mains supply is completely disconnected and operating with Genset onboard the machine
- Machine can detect if the Diesel Genset is removed from the machine
- Full Safety Guarding for Nip Points
- Crusher Speed and Overfill Protection Systems
- Key Switch Operated Tracking System
- 10 Second Start and Tracking Delays
- Easy Access Lubrication Points
- CE Compliance

OPTIONS:

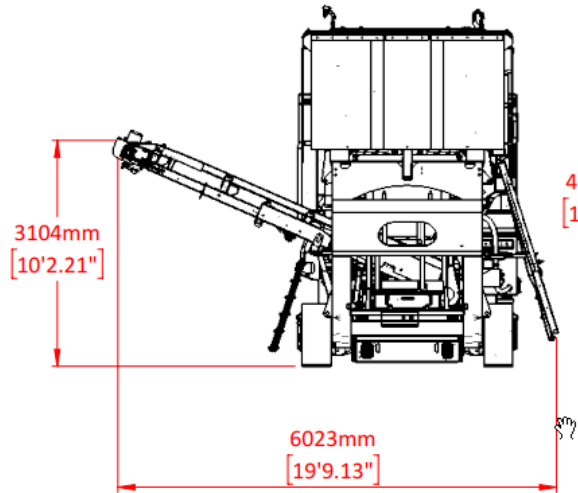
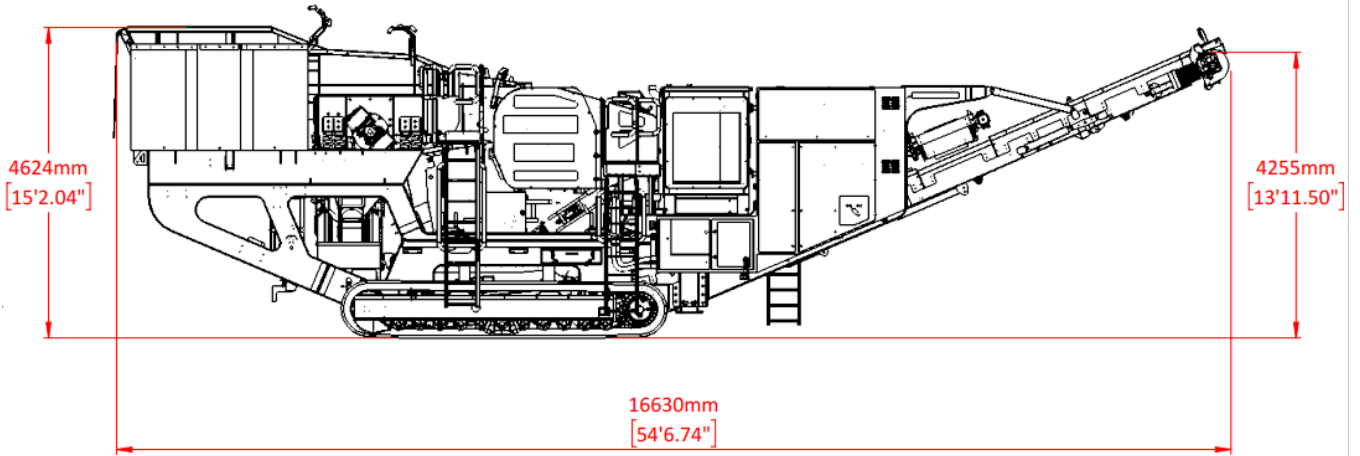
- 10m L1; L2; L3+PE Genset Extension cabling for running Generator Set off the machine at ground level
Includes Manual Cable Reel for storage of Extension Cabling.
- Radio Remote Control for Tracks
- Autolube System
- Belt Weigh Scales
- E-Stop Pull Wires
- Working Lights
- Conveyor Dust Covers & Dust Suppression Water Pump
- Mine Spec Guards & Product Conveyor Head Chute
- Conveyor Belt Upgrade & Jaw Plate Upgrade Options

NOTE: Fitting optional extras to machine may increase the manufacturing lead time & alter the weight and transport dimensions of machine.

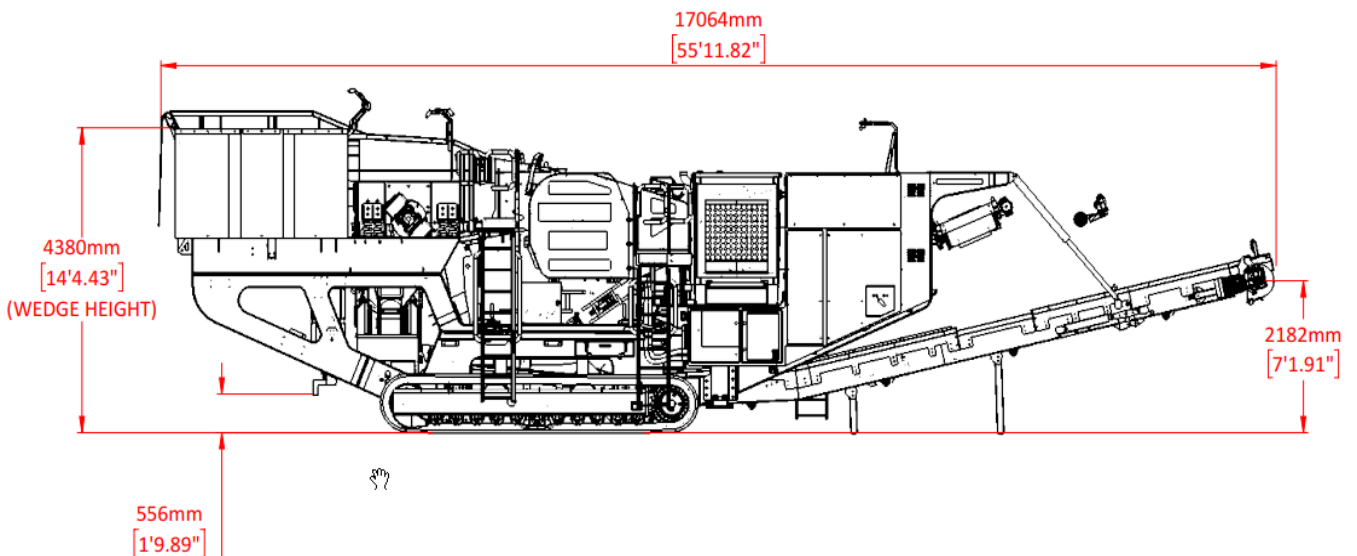
SIEVE ANALYSIS:



WORKING DIMENSIONS:



SERVICE DIMENSIONS:



TRANSPORT DIMENSIONS:

