

# TESAB

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**Technical Specification**  
**824TR with Volvo D8 Engine**

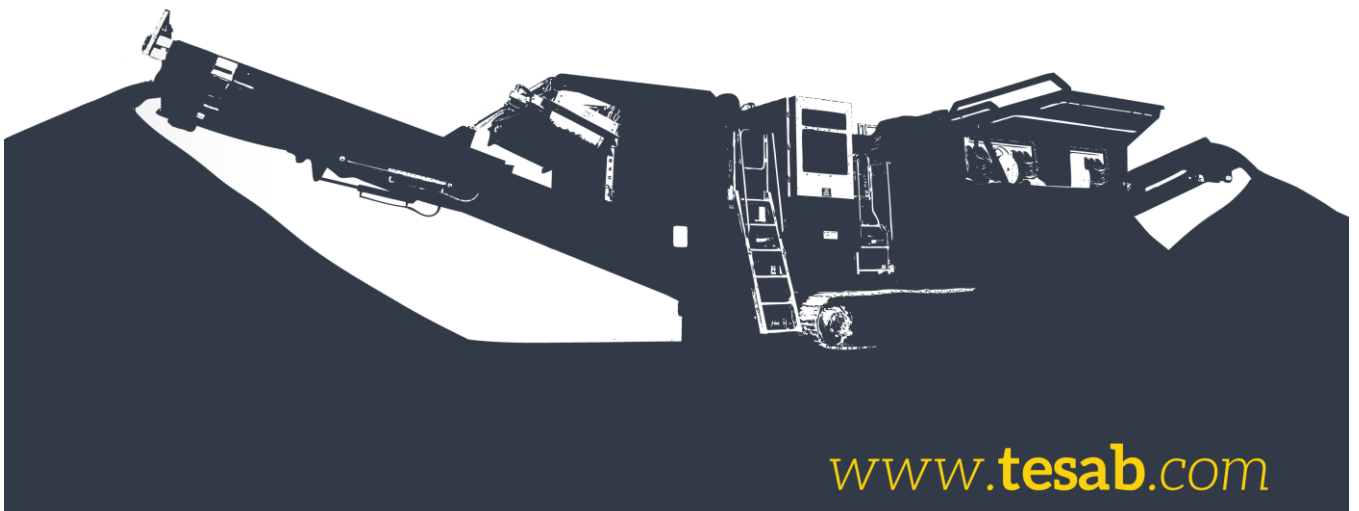
# 824TR

## MOBILE IMPACT CRUSHER

with Volvo D8 Engine

# TECHNICAL SPECIFICATION

**Subject to change without notice.**



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## **DESCRIPTION:**

Self Contained Mobile Impact Crusher with the following features:

- 900mm (35.4") diameter x 820mm (32.3") wide Impactor.
- 252Hp (188kW) Volvo D8 T3 or T4 Final engine.
- Integrated hydraulic folding stockpiling conveyors.
- I-beam plate fabricated chassis construction.
- Open chassis design for ease of maintenance.
- Apron adjustment to suit primary or secondary crushing.
- Single Deck recirculation screen.
- Swing out radial return conveyor.
- 400mm Wide Crawler Tracks.
- Fast on Site setup Time – 20 Minutes.

## **DIMENSIONS AND WEIGHT:**

- Length – Transport: - 14.021m (46')
- Width – Transport: - 2.55m (8' 4")
- Height – Transport: - 3.056m (10')
- Weight – Estimated: - 26,300 Kgs (57,982 Lbs)

## **CAPACITIES**

- Diesel Tank: - 280L (74 US gal)
- Hydraulic Tank: - 350L (92.5 US gal)

**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.

## CRUSHER CHAMBER:

- Feed Opening: - 860 x 650mm, (34 x 25.6")
- Impactor Rotor: - 900mm (35.4") x 820mm (32.3")
- Crusher Speed: - 678-756 rpm (32-35.5m/sec rotor tip)
- Number of Aprons: - 1
- Number of Blowbars: - 4, 2 High and 2 low as standard
- Full Blowbar Weight: - 148Kg (326 lbs)
- Crusher Drive: - Direct Drive
- Feed Size: - 600 x 500 x 500mm (24" x 20" x 20")
- Impactor Weight: - 7,150kg (15,763 lbs)
- Rotor Weight: - 1,789kg (3,944 lbs)
- CSS Adjustment: - Hydraulic rams, Shim system, Spring tension
- Speed Sensor: - YES
- Load Sensor: - Engine load monitoring

## POWER UNIT AND HYDRAULICS:

- Engine: - Volvo D8 Tier 3 or Tier 4 Final
- Engine Power: - 188Kw - 252 HP
- Engine Speed: - 1750 - 1950 Rpm
- Impactor Drive Clutch: - PT Tech HPTO12
- Flywheel Pump: - Turolla 31.8/31.8/22.5
- PTO Pump: - Turolla 25.4/22.5
- Total System Flow: - 263.7 lpm (69.6 US gpm)
- Hydraulic Tank Capacity: - 350 Ltrs (92.5 US Gal)
- Hydraulic Tank Ratio: - 1.6:1
- Hydraulic Oil Cooler: - YES

## GRIZZLY FEEDER:

- Feeder Width: - 800mm (31.5")
- Feeder Length: - 3750mm (147.6")
- Hopper Width: - 2000mm (78.7")
- Hopper Length: - 4215mm (166")
- Drive System: - Hydraulic
- Feeder Motor: - Turolla 42.9cc/rev
- Grizzly Section Opening: - Tapered 30-50mm or 45-65mm
- Grizzly Section Length: - 1080mm (42.5")
- Flow Rate: - Up to 62 Lpm (16.4 US gpm)
- Adjustable Speed: - YES
- Max Speed: - 970rpm
- Volume: - 2.75m<sup>3</sup> (3.6yd<sup>3</sup>)

## MAIN PRODUCT CONVEYOR:

- Stockpile Height: - 3006mm (9' 10")
- Belt Width: - 900mm (36")
- Belt Spec: - Plain 630/2 9+3 straight warp
- Drive Drum Dia: - 256.5mm (10")
- Tail Drum Dia: - 220mm (8.6") - spoked
- Motor: - OMS500
- Max Flow Rate: - 62Lpm (16.4 US Gpm)
- Max Speed: - 124 rpm
- Angle Adjustable: - YES (when recirc removed)

## SIDE CONVEYOR:

- Stockpile Height: - 2583mm (8' 6")
- Belt Width: - 500mm (20")
- Belt Spec: - Plain – 400/3 3+1.5
- Drive Drum Dia: - 254.5mm (10")
- Tail Drum Dia: - 220mm (8.6") - spoked
- Motor: - OMS315
- Flow Rate: - 43.8 Lpm (11.5 US Gpm)
- Adjustable Speed: - YES
- Max Speed: - 139 rpm

## FINES CONVEYOR:

- Stockpile Height: - 3015mm (9' 11")
- Belt Width: - 900mm (36")
- Belt Spec: - Plain – 500/3 8+2
- Drive Drum Dia: - 256.5mm (10")
- Tail Drum Dia: - 208mm (8") - spoked
- Motor: - OMS400
- Flow Rate: - 50.8 Lpm (13.4 US Gpm)
- Max Speed: - 114 rpm

## TOP DECK TRANSFER CONVEYOR:

- Belt Width: - 500mm (20")
- Belt Spec: - Plain – 400/3 4+2
- Drive Drum Dia: - 193.7mm (7.6")
- Tail Drum Dia: - 193.7mm (7.6")
- Motor: - OMH500
- Flow Rate: - 45 Lpm (11.9 US Gpm)
- Adjustable Speed: - YES
- Max Speed: - 113 rpm

## RETURN CONVEYOR:

- Belt Width: - 400mm (26")
- Belt Spec: - Plain – 400/3 6+1.5
- Drive Drum Dia: - 254.5mm (10")
- Tail Drum Dia: - 193.7mm (7.6")
- Motor: - OMS315
- Flow Rate: - 45 Lpm (11.9 US Gpm)
- Adjustable Speed: - YES
- Radial Angle: - 0 to 180 degrees
- Max Speed: - Up to 128 rpm

## SCREENBOX:

- Dimensions - Top Deck: - 2000mm x 1100mm (6' 7" x 3' 7")
- Bearing Type: - SKF 22215
- Screens - Top Deck: - 6' 7" x 3' 7" end tension - 1 off
- Screen Angle: - 25°
- Screen Motor: - Turolla (38.6cc/rev)
- Drive System: - Direct Drive with HRC130 coupling
- Hydraulic Flow Rate: - 50.8 Lpm (13.4 US Gpm)
- Speed Adjustable: - YES – Pressure Compensated FCV
- Screen Stroke: - 8mm
- Screen Shaft Speed: - 970 rpm
- Screen 'G' Force: - 5.05

## MAGNET:

- Belt Width: - 559mm (22")
- Drive Drum Dia: - 320mm (12.6")
- Tail Drum Dia: - 320mm (12.6")
- Motor: - OMH400
- Flow Rate: - 43.8 Lpm (11.5 US Gpm)
- Reversible: - YES
- Twin Pole: - YES

## SAFETY FEATURES:

- External Belt Alignment Points
- External Grease Points
- Engine Safety Shutdown Systems
- Full Safety Guarding for Nip Point

## ELECTRICS

- Emergency Stops:
  - 4 off, 1 @ Powerunit
  - 1 @ Chamber
  - 2 @ Chassis
- Start Siren:
  - YES – 10 Second delay
- Control Panel:
  - Tedd Engineering / IFM
- Engine Shutdowns:
  - Low Oil Pressure
  - High Water Temp
  - Air Filter Blockage
  - Fuel Contamination
  - Low Hydraulic Tank Level
  - High Hydraulic Oil Temperature
- Radio Control Tracks & Feeder:
  - Standard
- Pendant Tracks Control:
  - YES – Plugged in control cabinet

## TRACKS:

- Width:
  - 400mm (15.7")
- Length:
  - 3240mm (10' 8") crs
- Height:
  - 738mm (29")
- Gearbox:
  - Bonfiglioli 709 (or equivalent)
- Ratio:
  - 147:1
- Motor:
  - MAG 85VP
- Speed max:
  - 1 Kph (0.62 Mph)
- Flow rate:
  - 124 Lpm (32.7 US gpm)
  - 3 speeds, selectable on remote control
- Creep Tracking when Crushing:
  - Yes, activate from remote control
- Attachment to Chassis:
  - Bolt On for quick change

## OPTIONS:

- Main Conveyor Variable Speed Control
- Water Pump and Dust Suppression System
- Various Blow Bar Material Options
- Working Lights
- Refueling Pump
- 4 Full Height Blow Bars
- Hoist
- Grizzly Blanking Plate
- Feeder Punch Plate

**WORKING DIMENIONS:**

