



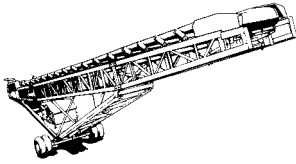
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# ***INTRODUCING THE M85 POWERSTACKER***



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# **M85 Powerstacker Technical Specification**



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## **FEATURES**

- Total weight 7718 kg (17000 lbs)
- Width (transport) 2.5m (8')
- Length (transport) 13.3m (44')
- Height (stockpiling) 8.2m (27')
- Powerunit Cummins B 3.9C 73 Hp ( 55 kW)

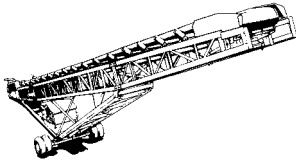
## **ADVANTAGES**

- Capable of handling up to 600 TPH (670 U.S).
- Quick set up time typically under 5 minutes.
- Maximum mobility with fifth wheel, jacking legs, road wheels, brakes and mudguards.
- High performance hydraulic system – Danfoss motors, Commercial control valves.

## **APPLICATIONS**

- Sand and gravel
- Topsoil
- Coal
- Crushed stone
- Recycling

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A mobile radial loading and high capacity stockpiling conveyor which is strong and economical to run. The M85 is an integral part of the Powerscreen system and is constructed to the same high engineering specification.

The M85 consists of a lattice structure framework which folds for transport 5<sup>th</sup> wheel coupling, feedboot and radial wheels with optional hydraulic drive.

### **5<sup>TH</sup> Wheel Plate / Swivel Stand:**

This is attached to the main frame directly below the feedboot. When the conveyor is in operation the fifth wheel plate easily rotates 180 degrees to act as a pivot stand. The conveyor rotates from the centre point when the wheels are turned radially.

### **Feedboot:**

The feedboot directs the sand, gravel, coal etc., on to the conveyor belt. Its unique design allows for ease of loading with minimal spillage.

### **Conveyor:**

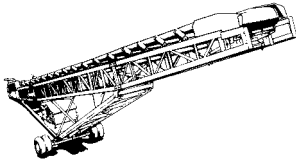
The main frame can be raised or lowered with a hydraulic cylinder, giving two alternative stockpiling heights. The conveyor belt can be either plain or chevron, 2 ply 800mm (32") wide.

### **Radial Wheels:**

The conveyor is mounted on two swivelling wheels to give radial stockpiling through an arc of approximately 300 degrees.

### **Drive Options:**

- a) Self contained 75 HP (56 kW) diesel / hydraulic powerpack.
- b) Electric motor 15 HP (11 kW) with electric hydraulic powerpack supplying hydraulic cylinder.
- c) Coupling



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## **Overall Dimensions:**

Transport Length:	13.3m	(44 ft)
Transport Width:	2.54m	(8 ft)
Working Length:	18.8m	(61.5 ft)
Working Width:	2.54m	(8 ft)
Maximum Stockpiling Height:	7.93m	(27 ft)

## **Capacities:**

Conveyor Capacity (aggregate):	600 TPH	(660 U.S TPH)
Stockpile Capacity:		
Conical (Aggregate):	870 m <sup>3</sup>	(1150 yds <sup>3</sup> )
122 degrees Radial (Aggregate):	4037m <sup>3</sup>	(5290 yds <sup>3</sup> )

## **Weights:**

Approximate Weight:	7718 kg	(17,000 lbs)
On Axle:	5710 kg	(12,620 lbs)
On 5 <sup>th</sup> Wheel Coupling:	1400 kg	(3090 lbs)

## **Wheels:**

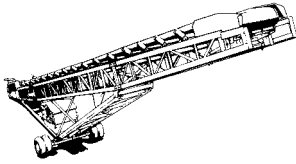
Tyre Size:	10R x 17.5 Dual Fit	
Tyre Pressure:	115 PSI	(7.9 Bar)
Wheel Studs Torque:	460 Nm	(340 lbs ft)

## **Electric Drive:**

Drive Motor:	15 Hp (11.3 kW) WEG 1755 rpm
Gearbox:	Bonfiglioli TA50
Pulleys for 60 Hz Motors:	Driving 2 B 60 SDS Martin Driven 2 B 60 SDS Martin

## **Conveyor:**

Belt Width:	800mm (32")
End Drum Centres:	19.8m (65 ft)
Tail Drum Diameter:	320mm (12.5") solid
Head Drum Diameter:	320mm (12.5") solid-lagged
Belt Speed:	163 m/min (534 ft/min) @ 1800 rpm 197 m/min (647 ft/min) @ 2300 rpm
Head Drum RPM:	170 when engine is at 1800 rpm 206 when engine is at 2300 rpm



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## **DIESEL / HDYRAULIC DRIVE**

### **Engine:**

Cummins 4B3-9 C rated at 73 HP (55 KW) @ 2300 rpm  
Recommended rpm is between 1800 and 2300 rpm

## **HYDRAULICS**

### **Hydraulic Motor:**

Danfoss OMV 630

### **Hydraulic Pump:**

Ultra 3PL180C

### **Control Valve:**

Nimco 2 Bank 1S6450 relief pressure 2800 PSI (193 Bar).

### **Recommended Hydraulic Oil:**

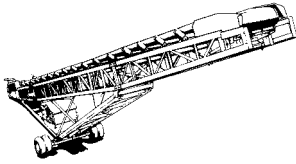
0 Deg – 30 Deg C ambient temp Shell Tellus 46  
30 Deg + Shell Tellus 100 (or equivalent)

### **Hydraulic System Capacity:**

400 litres (88 gallons)

### **Typical Operating Pressures:**

Hydraulic System: 2800 psi (197 Bar)

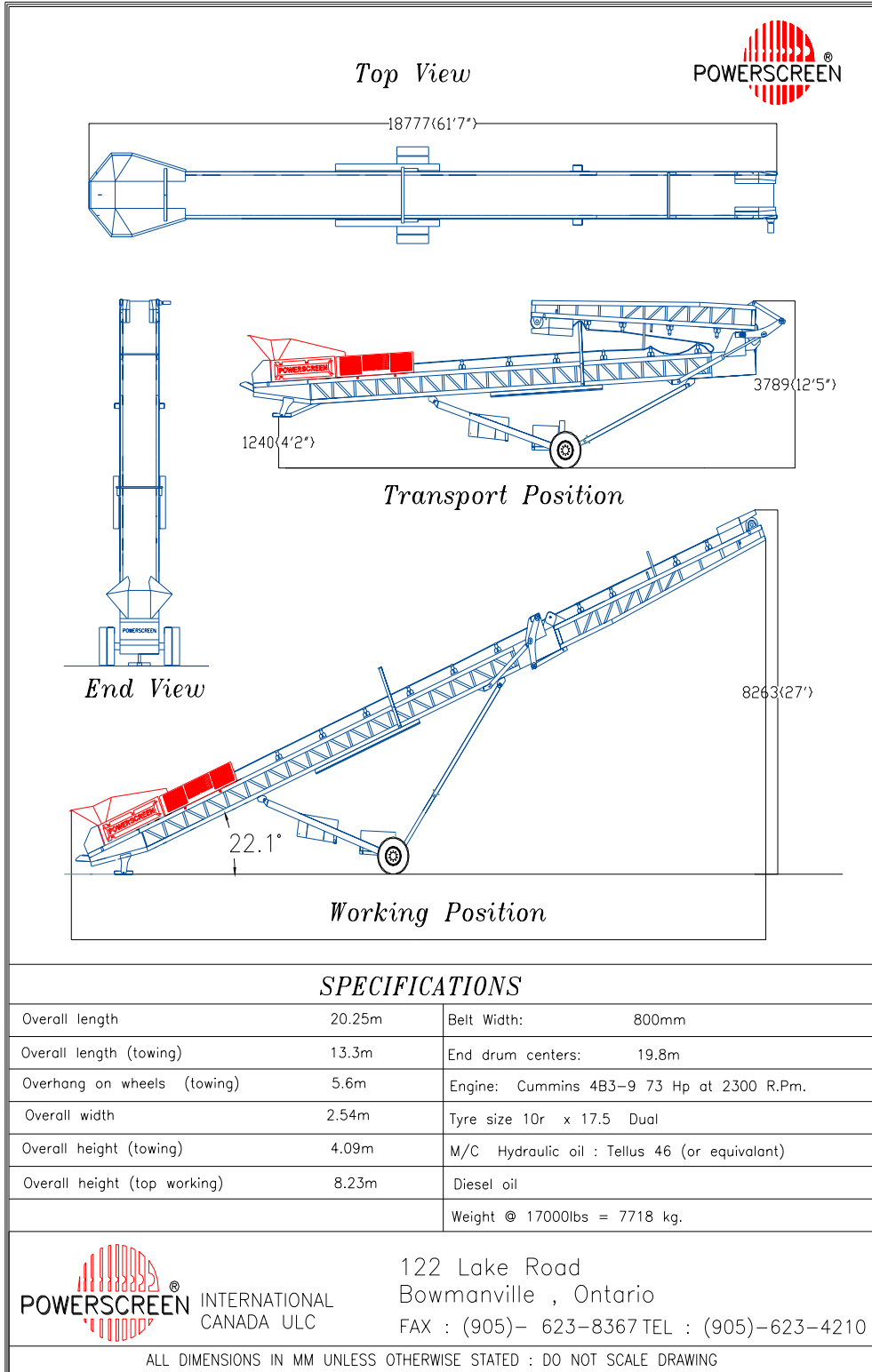


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