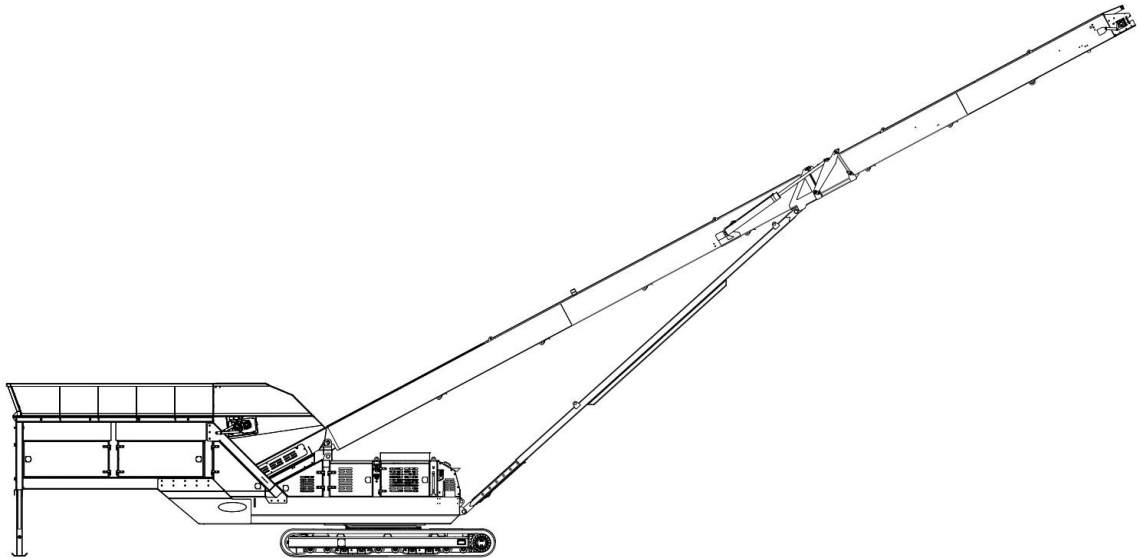


# TECHNICAL SPECIFICATION

MH 5680 (56"x80ft) – TRACKED MULCH HOPPER



# MH 5680 – TRACKED HOPPER FEEDER



The MH 5680 is a track mounted fully mobile feeder conveyor designed to stockpile materials such as mulch, biomass, woodchips, shredded pallets, wood pellet, green waste, palm kernel shells etc. It can be directly fed by wheel loaders, grab cranes, wood grinders, shredders, screeners or trommels. The MH 5680 has a 1400mm (56") wide feeder belt and steep 70° hopper sides. These features maximise the hopper opening to allow material to flow unrestricted onto the Incline conveyor. A rotating auger at the outlet aerates and untangles difficult materials and regulates the flow onto the incline conveyor. The unit has excellent mobility on site and will eliminate double handling of material, which reduces overall costs for the operator.

## MH 5680 – TYPICAL APPLICATIONS

- Stockpiling from wheel loaders, grabs cranes, wood grinders, shredders, screeners or trommels
- Building stockpiles in yards and warehouses
- Loading vessels/ barges / rail wagons
- Feeding fixed equipment
- Reclaiming and discharging onto overland conveyor systems

## MH 5680 – KEY FEATURES

- Large 11.5 m<sup>3</sup> (15 yds<sup>3</sup>) capacity hopper as standard
- Maximum distance between tracks and head drum, for optimum stockpiling capacity
- Front and rear adjustable telescopic to obtain desired discharge or feed in height
- Engine protection shutdown system
- Conveying angle up to 28 deg.
- Chevron incline belt
- Discharge heights up to 11.8m (38' 9 ")
- Folding head section for ease of transport
- Paint specification, Cream: RAL 7032, Red: RAL 3001
- Options available

## MH 5680 – KEY ADVANTAGES

- Reduces fuel cost by up to 75%
- Reduces operating cost by up to 70%
- Reducing loading shovel movements which reduces operating cost and improves safety.
- Increased safety as no need to stockpile with wheel loaders.
- Hydraulic folding head section allowing for compact road transportation.
- Unrivalled mobility and flexibility when in operation.
- High specification machine designed for ease of maintenance commanding an excellent resale value at project conclusion.
- Heavy duty design and manufacture.

## MH 5680 – HOPPER CAPACITIES

MH 5680 Hopper Extension	Hopper Capacity		Heaped Capacity		Feed in Heights	
	(m <sup>3</sup> )	(yds <sup>3</sup> )	(m <sup>3</sup> )	(yds <sup>3</sup> )		
700mm	11.50	15.00	13.00	17.00	3320mm	10' 11"

## MH 5680 – STOCKPLING CAPACITIES

All stockpiling capacities are calculated based on material, with a stockpile angle of repose 42°

### Conical Stockpile Capacities (Standard Machine)

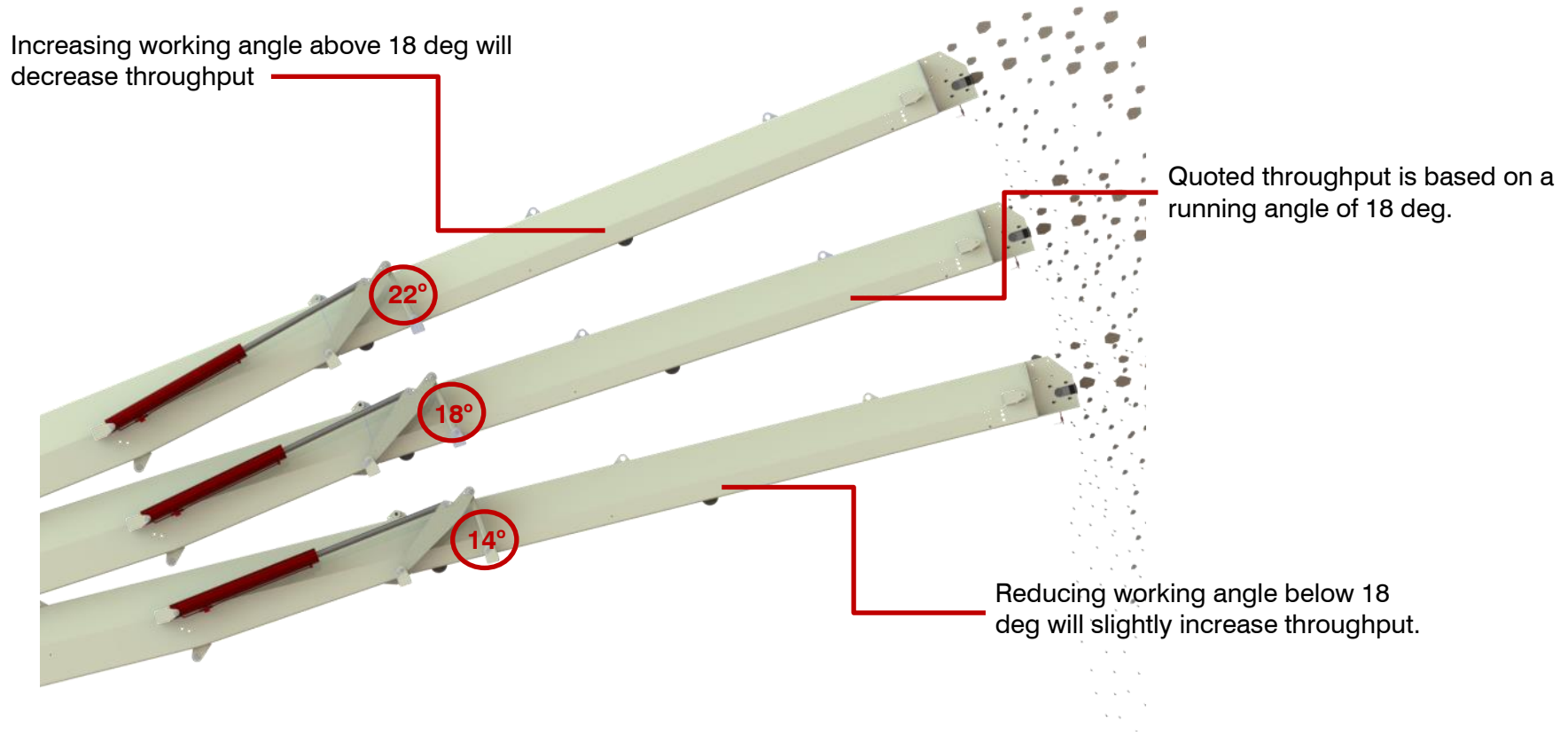
Angle of Conveyor Belt (Degrees)	Stockpile Height		Stockpile Capacity (Volume)	
	(m)	(ft)	(m <sup>3</sup> )	(yd <sup>3</sup> )
28°	11.04	36' 3"	1740	2280
26°	10.44	34' 3"	1470	1920
24°	9.82	32' 3"	1220	1600
22°	9.2	30' 3"	1010	1320
20°	8.58	28' 2"	820	1070
18°	7.94	26' 1"	650	850
16°	7.3	24'	500	660

### Stockpile Capacities (Revolution Model)

Angle of Conveyor Belt (Degrees)	Radial Arc Angle (Degrees)	Stockpile Height		Stockpile Capacity (Volume)	
		(m)	(ft)	(m <sup>3</sup> )	(yd <sup>3</sup> )
28	0	11.42	37' 6"	2000	2600
28	60	11.42	37' 6"	4600	6000
28	120	11.42	37' 6"	7300	9500

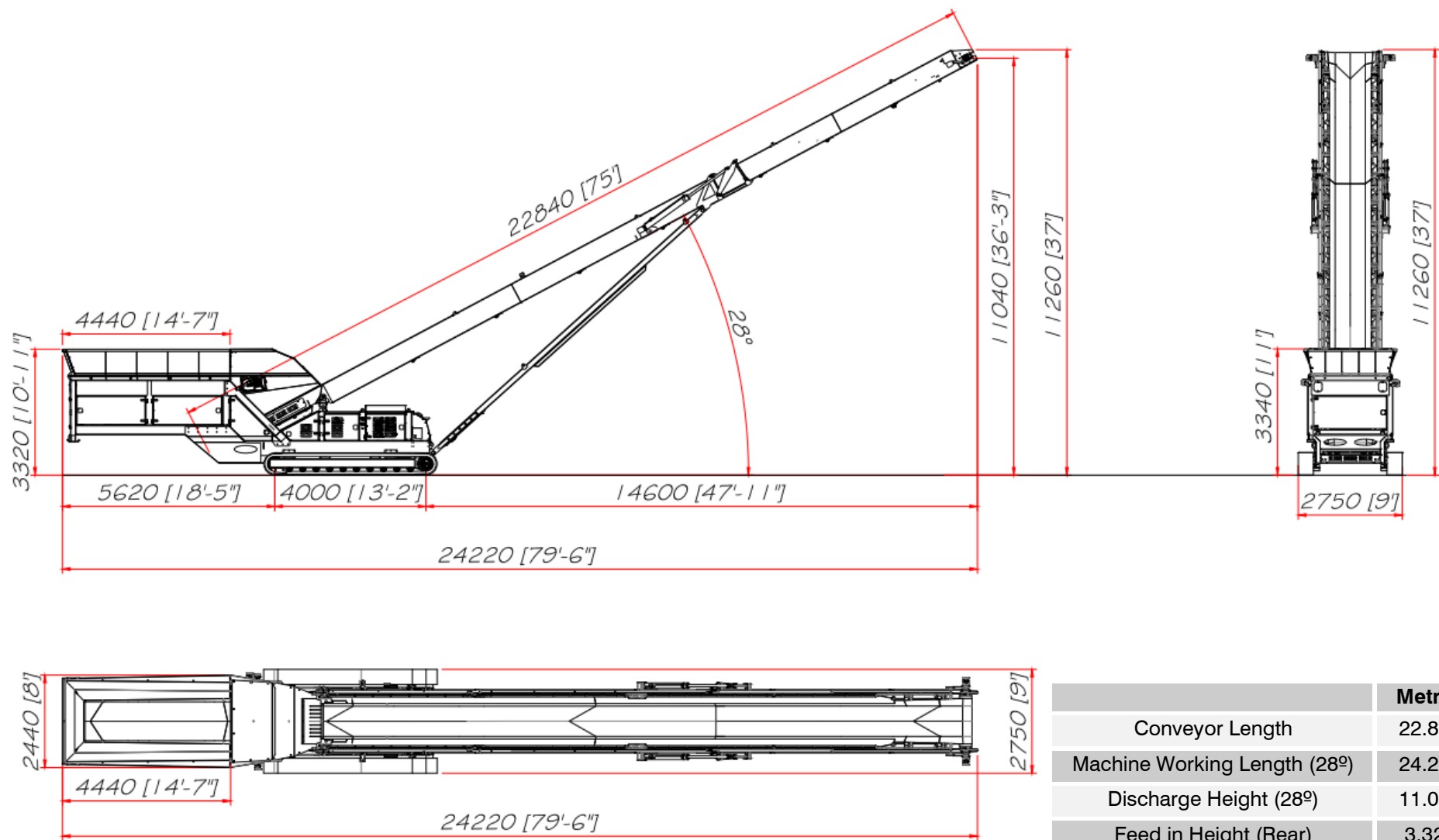
# THROUGHPUT - EXPLAINED

Telestack throughputs are primarily based on a typical running angle of 18°. Depending on selected angle of operation throughput will vary.



Feed method, material characteristics and environmental conditions can affect throughput, overall performance and maximum working angle.

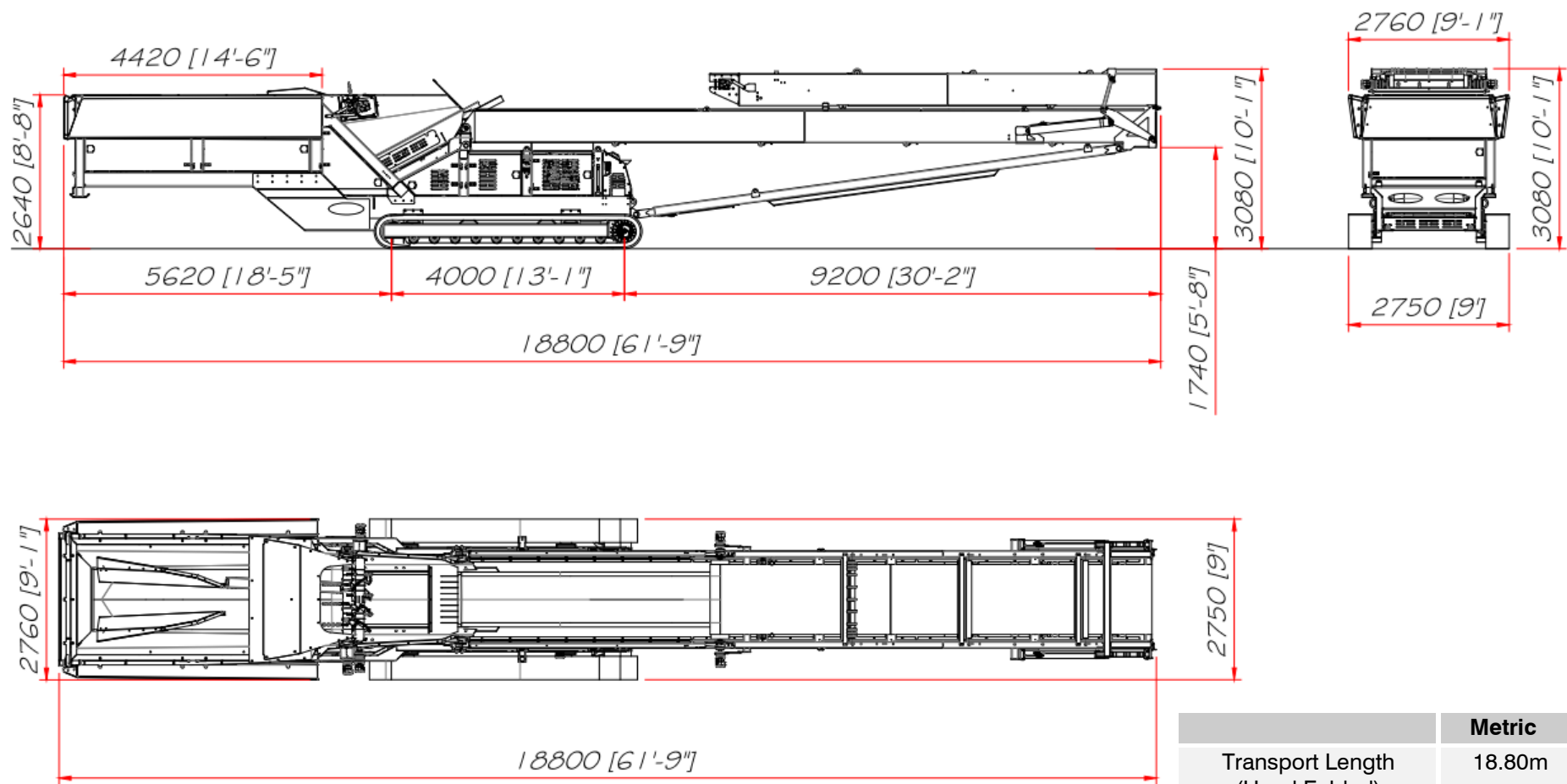
MH 5680 – Working DIMENSIONS (STANDARD)



	Metric	Imperial
Conveyor Length	22.84m	75'
Machine Working Length (28°)	24.22m	79' 6"
Discharge Height (28°)	11.04m	36' 3"
Feed in Height (Rear)	3.32m	10' 11"
Operating Width	2.75m	9'

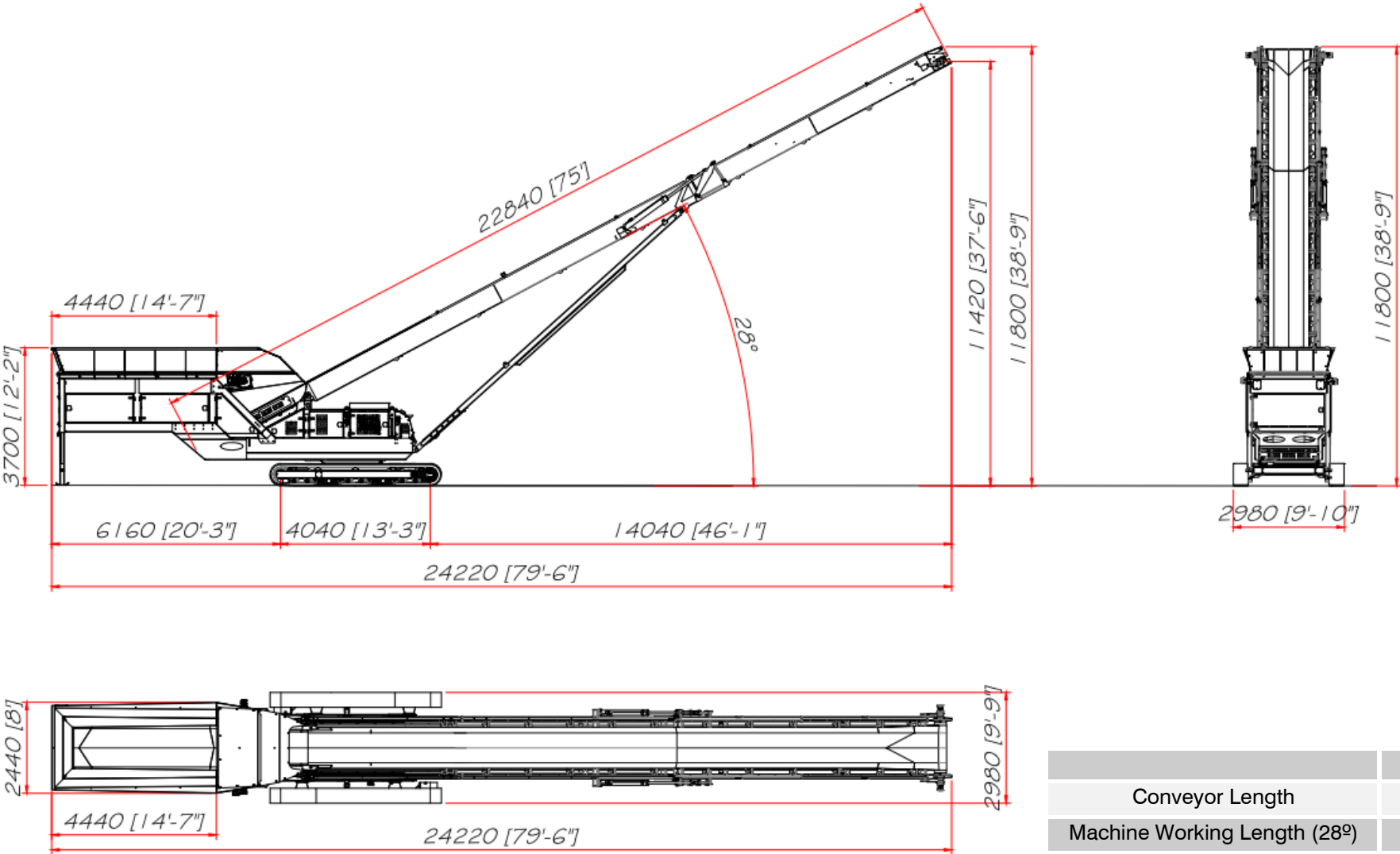


# MH 5680 – TRANSPORT DIMENSIONS (STANDARD)



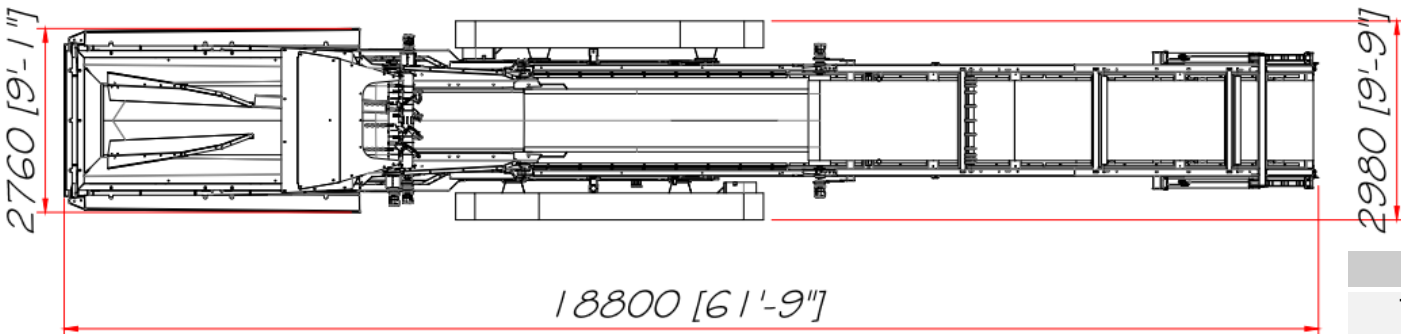
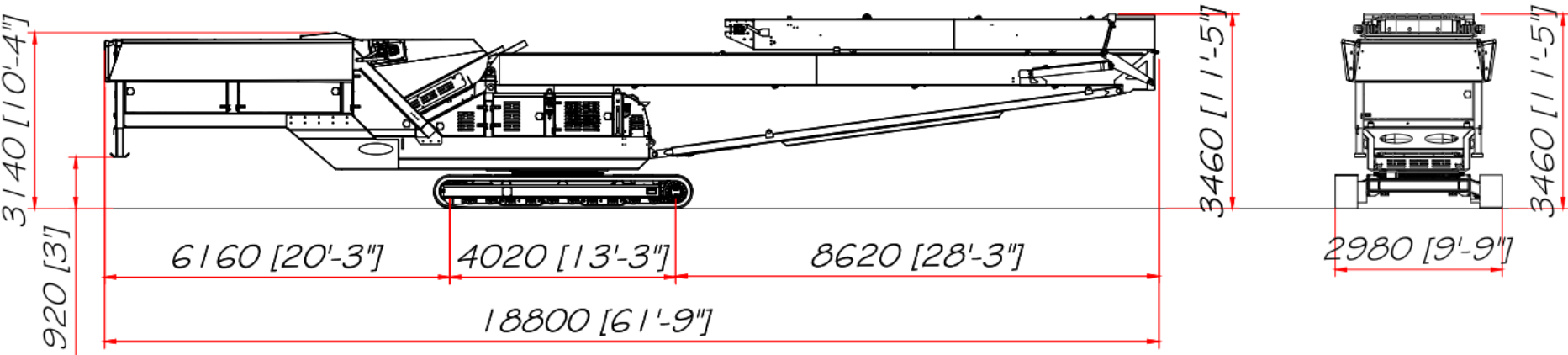
	Metric	Imperial
Transport Length (Head Folded)	18.80m	61' 9"
Transport Width	2.76m	9' 1"
Transport Height (Head Folded)	3.08m	10' 1"
Overall Weight	19,850 Kg	43,770 lbs

# MH 5680 – WORKING DIMENSIONS (REVOLUTION)



	Metric	Imperial
Conveyor Length	22.84m	75'
Machine Working Length (28°)	24.22m	79' 6"
Discharge Height (28°)	11.42m	37' 6"
Feed in Height (Rear)	3.70m	12' 2"
Operating Width	2.98m	9' 9"

# MH 5680 – TRANSPORT DIMENSIONS (REVOLUTION)



	Metric	Imperial
Transport Length (Head Folded)	18.80m	61' 9"
Transport Width	2.98m	9' 9"
Transport Height (Head Folded)	3.46m	11' 5"
Overall Weight	22,850 Kg	50,375 lbs



# MH 5680 – MACHINE FEATURES

## Hopper Feeder

- Hydraulic adjustable jacking legs mounted under hopper side to support the hopper weight

### Standard:

- Hopper Width 2.44m (8')
- Hopper Length 4.44m (14' 7")
- Feed in Height 3.32m (10' 11")

### Revolution:

- Hopper Width 2.44m (8')
- Hopper Length 4.44m (14' 7")
- Feed in Height 3.70m (12' 2")
- Capacity  $11.5\text{m}^3$  (15yds<sup>3</sup>)
- 700mm (27.5") Hopper extensions as standard.
- Impact centre rollers 102mm (4").
- Impact bars along sides to eliminate material spillage.
- 1400mm (56") wide EP 500 3 ply, 5 + 1.5mm feeder belting, feeding onto 1200mm (48") wide incline belt.
- 102mm (4") Return rollers
- Large transfer point opening for maximum throughput, spring tension face scraper, to clean the feeder belt
- Internal planetary drive motor for high torque output, with flow control valve mounted in power unit to regulate feeder belt speed.
- A rotating auger at the outlet aerates and untangles difficult materials and regulates the flow onto the incline conveyor.



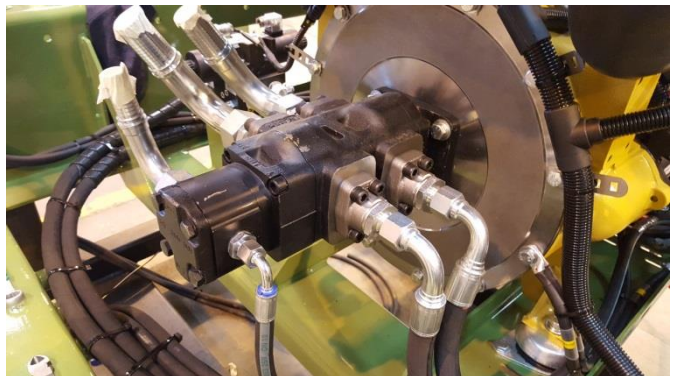
## Incline Conveyor

- Proven 22.84m (75ft) folded plate design incline conveyor to give structural strength to the conveyor frame.
- Hydraulic folding head section, for compact road transportation
- 1200mm (48") wide EP 315 3 ply, 3 + 1.5mm (15mm chevron) belt.
- 102mm (4") dia Troughing rollers (3 roll set)
- 102mm (4") plain return rollers.
- 2 x hydraulic drive motors for increased torque
- 3.0 m/s (590 ft/min) Maximum belt speed. Includes flow control to regulate belt speed.



## Hydraulics

- Triple cast Iron pump mounted on the flywheel to operate functions.
- Additional pump mounted on PTO.
- Easy access for maintenance to all hydraulic components such as pumps, filters, tanks, valves etc
- Steel fabricated hydraulic tank complete with fill level gauge and lockable filler cap.
- Capacity: 435 litre (115 US gallons)
- Oil type: Grade 32





# Chassis

- Heavy Duty FL4 Tracks
- Longitudinal centres: 4000mm (13')
- Track shoe width: 400mm (16")
- Drive: Two integral hydraulic motors
- Tensioning: Hydraulic adjuster, grease tension
- Tracking: Push button pendant type (dog lead)
- Dual speed tracks:
  - Speed 1 0.86 m/s (0.53 mph)
  - Speed 2 1.13 kph (0.7 mph)
- Heavy duty structural steel chassis, with integrated webbed plate design for the rear telescopic mountings.
- All moving joints have incorporated heavy duty bosses for increased strength and wear characteristics
- Multiple large, lockable doors for easy access to engine, hydraulics, fuel tank etc.

## Standard Tracks



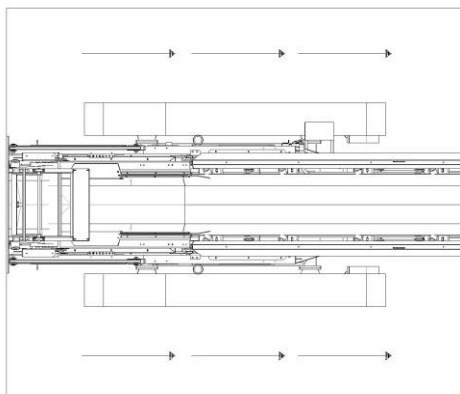
## Revolution (Upgrade)



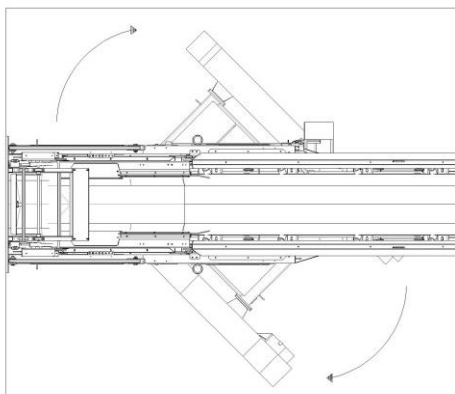
### Revolution Upgrade

- Optional slew, centre mounted chassis
- Full 360° rotation enabling the machine to work in parallel mode

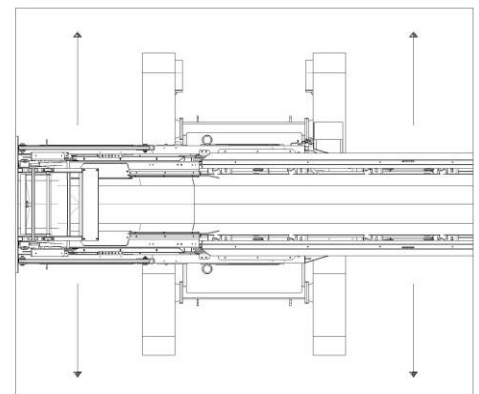
In-line Travel



360° Rotation



Parallel Travel



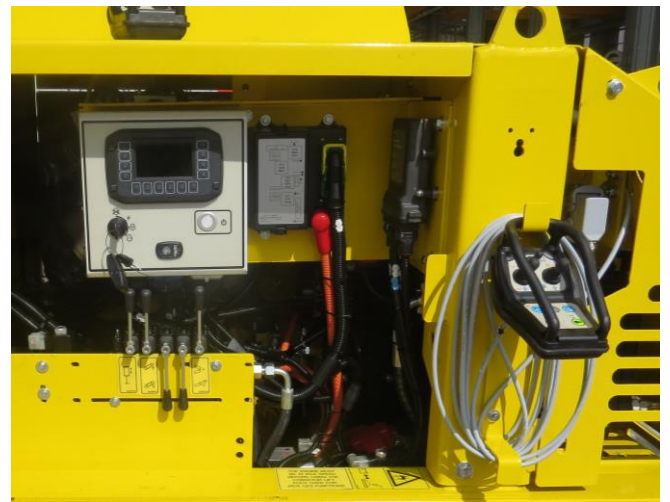
# Engine & Control

## Standard / Unregulated Countries

- CAT C4.4 Mechanical, Water Cooled, Power: 75Kw (100Hp) @ 2200 Rpm

## EU Stage V/USA Tier 4 Final

- CAT C 3.6 74.5kw ACERT Industrial Power Unit
- Start-up system with safety features (fully fused and fault display).
- Engine monitoring and tracking system
- Standard electrical PCB microprocessor technology with led indication.
- Faults are logged on led indicators until resolved.
- LED indicator self-test executed every time unit is switched on.
- One place label using standard symbols.
- Full frequency certified CE, FCC, AU and Japanese remotes systems.
- Panel mounted in secure canopy with lockable doors.
- Steel fabricated fuel tank complete with fill level gauge and lockable filler cap.
- Capacity: 200 litres (52 US gallons)



# MH 5680 – OPTIONAL EXTRAS

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## Engine Options

- Deutz Stage IIIB/Tier 4 85KW (114 Hp) @ 2200 Rpm

## Belt Weigher

- Integrated belt weighing system, with control panel.
- Optional USB data logger.

## Dust Suppression System

- Dust suppression system is used with materials that are likely to create a lot of dust.
- The system has dust covers running the full length of the conveyor and a head chute with rubber sock.

## All Electric Conveyor

- Upgrade to all electric drives, dual feeder and incline drives, panel upgrade and all hydraulic functions controlled from the diesel engine

## Dual Power

- Dual power. Machine upgraded to dual power. 2 x 37kw electric motor to run belts only

## Oil Upgrade

- **Option 1:** Type 46 hydraulic Oil
- **Option 2:** Type 68 Hydraulic Oil

## Conveyor Side Skirting

- Bolt on rubber side skirting up the length of the conveyor to avoid material spillage.

## Remote

- **Option 1:** Radio remote to start/stop feeder, start/stop incline, raise/lower incline
- **Option 2:** Radio remote to start/stop feeder, start/stop incline, raise/lower incline & track machine

## Track Upgrade

- Tracks upgraded to Heavy Duty FL6 Tracks x 400mm shoe

## Drive Drum upgrade

- Feeder conveyor drive drum upgraded to ceramic lagging



## MH 5680 – TRANSPORT INFORMATION

### Options

The MH 5680 can be transported in a number of ways:

1. Machine can be transported via low loader trailer with all features folded into transport position
2. Machine can also be transported in 2 x 40' High Cube containers for global distribution



Image Showing A MH4875 Being Transported. MH5680 Can be transported the same way

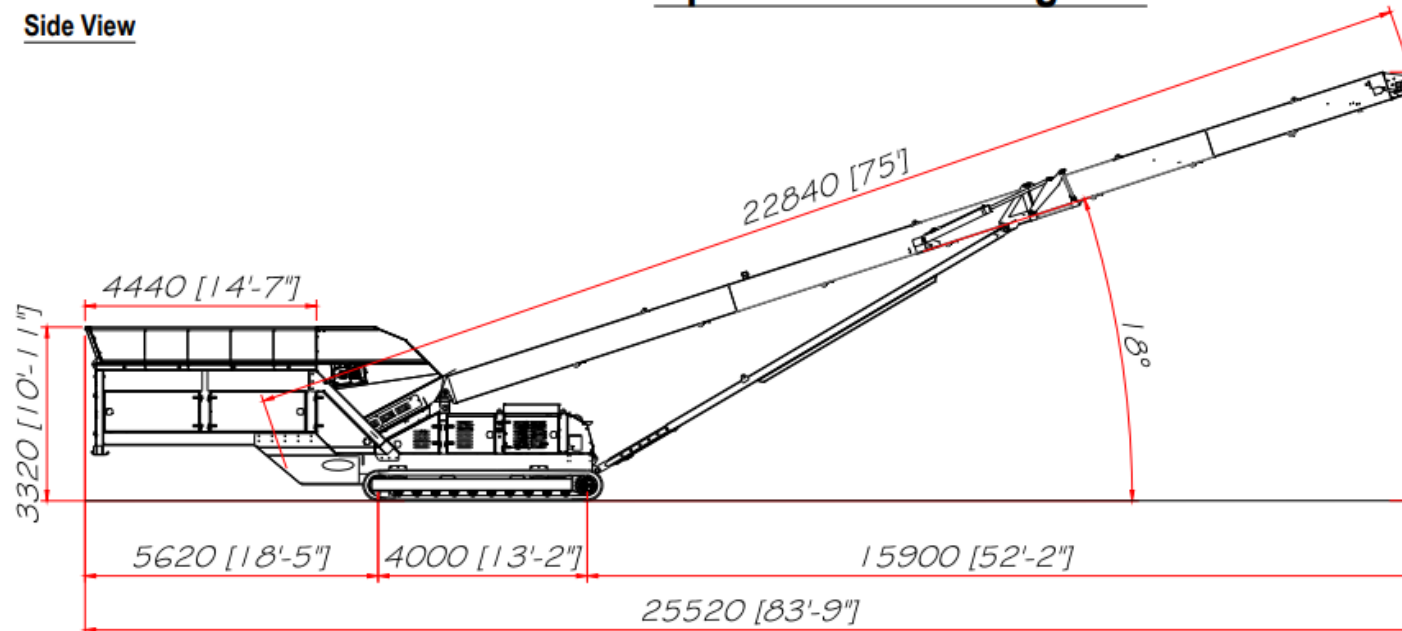


# MH 5680 – GENERAL ARRANGEMENT

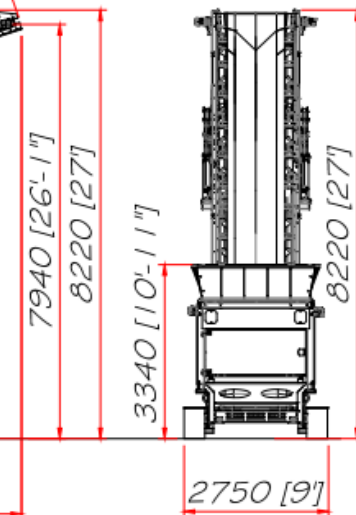
OPERATIONAL 18°

## MH 5680 - Mulch Hopper - General Arrangement Operational - 18 Degrees

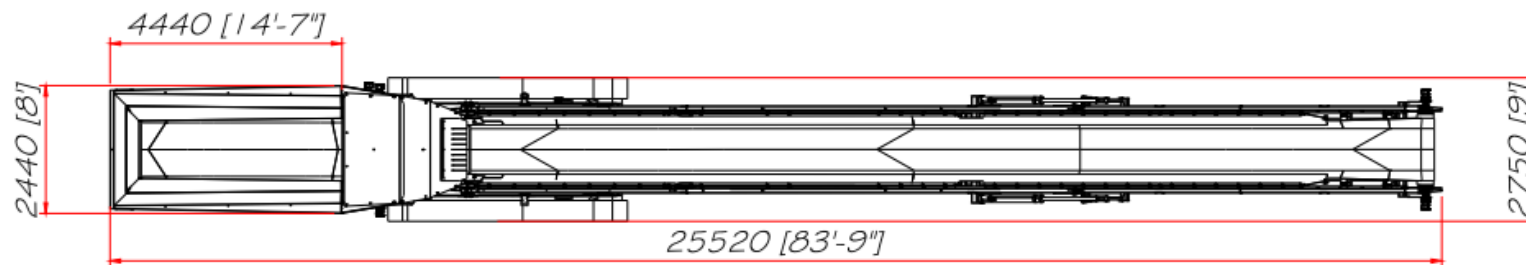
Side View



Rear View



Plan View



Drawn by: D.B Date: Jun 11, 2021

Note: This sales drawing may be subject to change prior to final design.

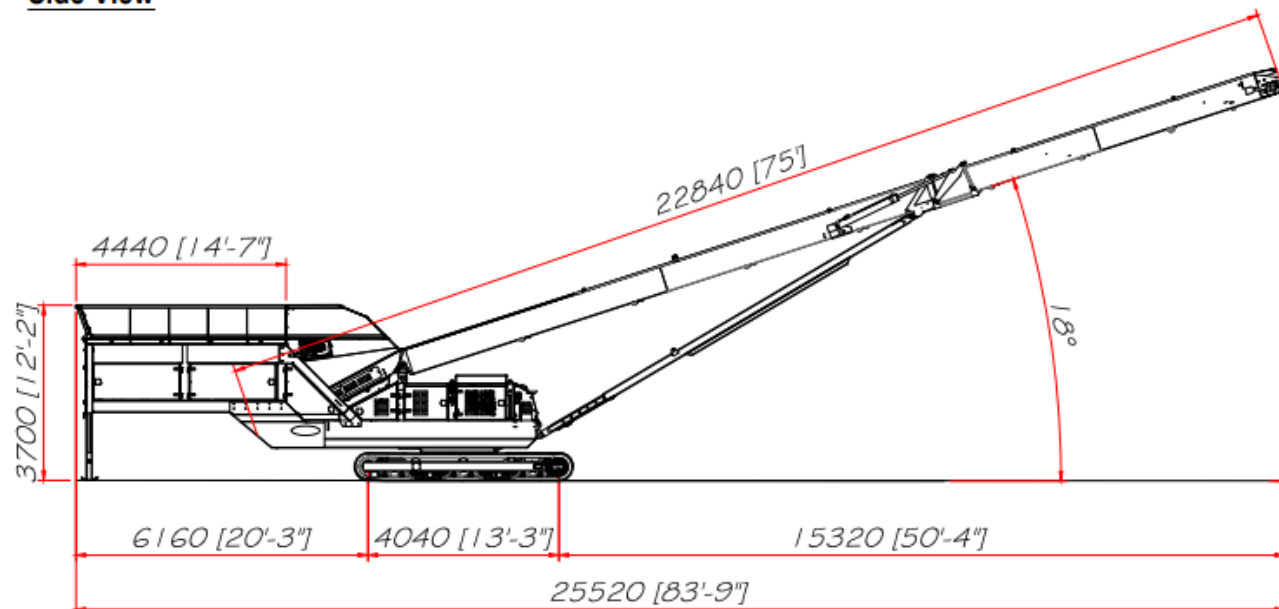
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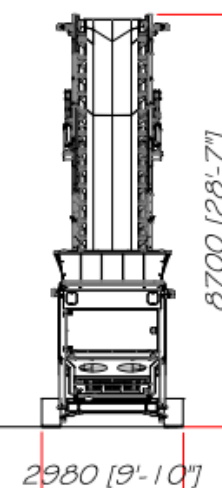
**Telestack**  
Mobile Bulk Material Handling

## OPERATIONAL 18°

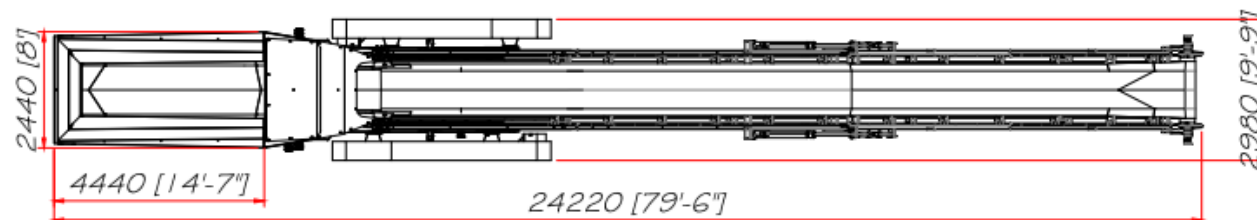
### Side View



### Rear View



### Plan View



Drawn by :	D.B	Date :	Mar 15, 2021
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Note: This sales drawing may be subject to change prior to final design.

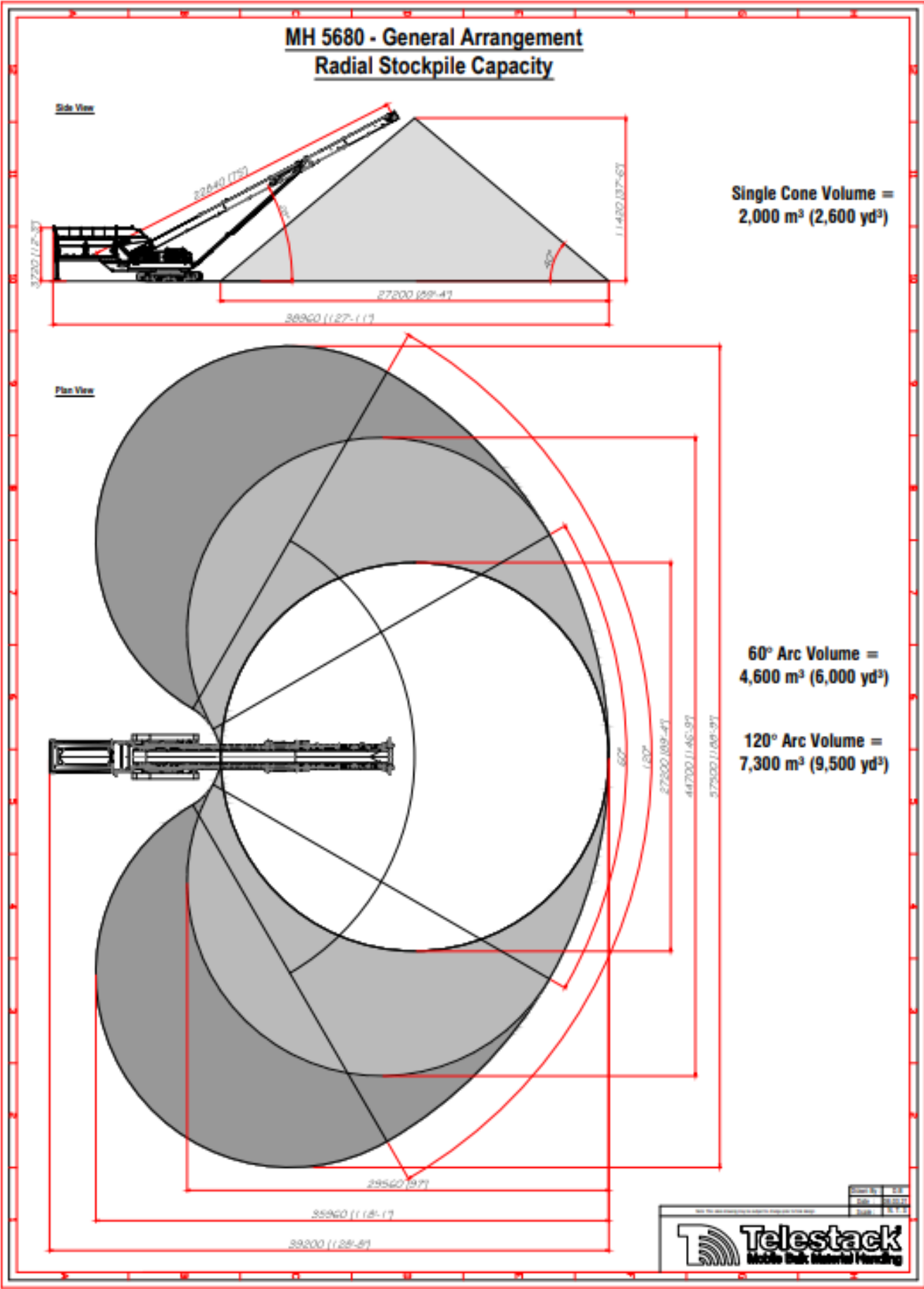
Scale : N.T.



**Telestack**  
Mobile Bulk Material Handling

# MH 5680 REVOLUTION – GENERAL ARRANGEMENT

## Radial Capacities



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POWER  
TO MOVE  
MATERIALS**

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