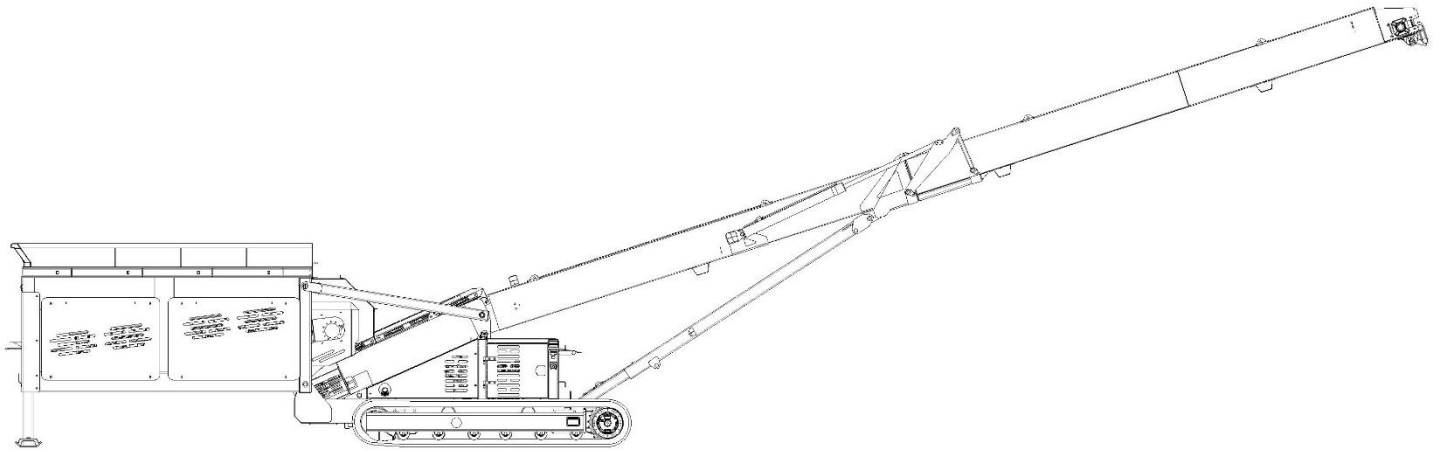


TECHNICAL SPECIFICATION

HF 10T – TRACKED HOPPER FEEDER



HF 10T – TRACKED HOPPER FEEDER



The HF 10T is a track mounted fully mobile conveyor designed to work at production rates of up to 300tph (350 Ton per hr). Telestacks Tracked Hopper Feeder Range is designed to be loaded directly from wheel loaders, grab cranes, excavators etc.), feed auxiliary equipment, reclaim to other conveyors, directly load ships, trucks, rail wagons etc. Since the hopper feeder is track mounted the unit has excellent mobility on site and will eliminate double handling of material, which reduces overall costs for operator.

HF 10T – TYPICAL APPLICATIONS

- Directly from wheel loaders, grabs and excavators
- Stockpiling from secondary crushers and screens
- Building stockpiles in warehouses
- Loading vessels and barges, directly from wheel loaders or grab cranes
- Feeding auxiliary Telestack equipment
- Feeding fixed equipment
- Reclaiming and discharging onto overland conveyor systems
- Mobile reclaim hopper, feeding onto Stacker/Re-claimer belt

HF 10T – KEY FEATURES

- Throughput of up to 300 tph (330 Ton / hr)
- 300mm (12") Tapered Extensions on hopper achieving a 6.8 m³ (8.9yds³) capacity hopper as standard
- Maximum distance between tracks and head drum, for optimum stockpiling capacity
- Maximum lump feed size of up to 100mm (4")
- Front and rear adjustable telescopic to obtain desired discharge height
- Engine protection shutdown system
- Natural design of the hopper gives integral strength and stability in working position.
- Folding head section for ease of transport
- Paint specification, Cream: RAL 7032, Red: RAL 3001
- Options available

HF 10T – 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.
- Reduces screener idle time increasing production.
- Reduces face excavator idle time increasing production.
- Production rates of up to 300 tph (330 Ton / hr)
- Range of hopper capacities depending on application and production rate.
- Hydraulic folding head section allowing for compact road transportation.
- Can be packed into 1 x 40ft container for easy, cost effective transport around the globe.
- Unrivalled mobility and flexibility when in operation.
- High specification machine designed for ease of maintenance commanding an excellent resale value at project conclusion.

HF 10T – STOCKPLING CAPACITIES

All stockpiling capacities are calculated based on material, with a bulk density of 1.6 tonnes per m³ (100 lb/ft³)
Stockpile angle of repose 37°

Conical Stockpile Capacities

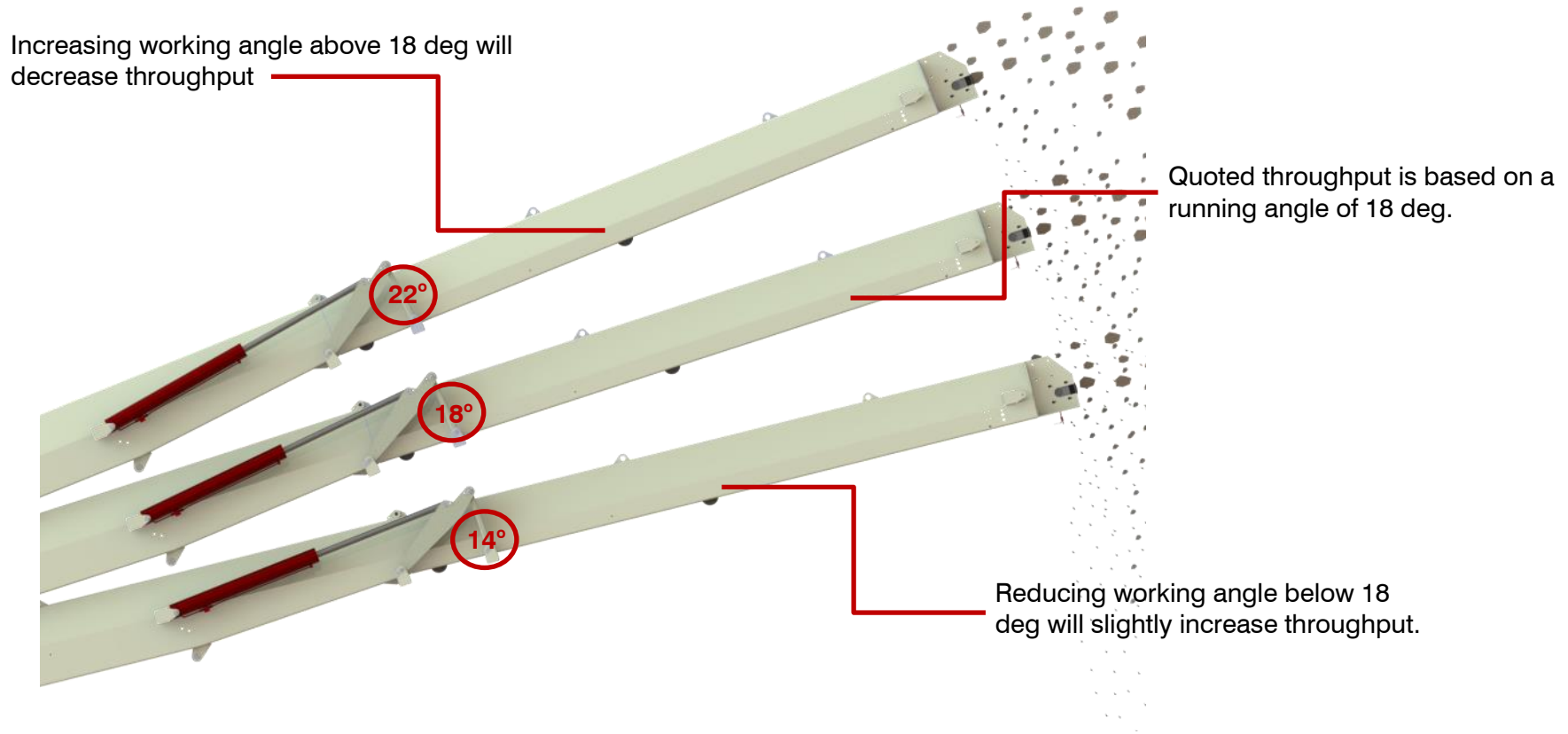
Angle of Conveyor Belt (Degrees)	Stockpile Height		Stockpile Capacity (Volume)		Stockpile Capacity (Mass)	
	(m)	(ft)	(m ³)	(yd ³)	(Tonnes)	(Ton)
24°	6.42	20' 11"	488	638	780	860
22°	6.04	19' 8"	406	531	650	716
20°	5.64	18' 4"	330	432	529	583
18°	5.24	17' 1"	265	347	424	468
16°	4.84	15' 9"	209	273	334	369
14°	4.44	14' 5"	161	211	258	284
12°	4.02	13' 1"	120	157	192	211

Hopper Capacities

HF 10 T Hopper Extensions	Level Hopper Capacity		Heaped Capacity		Feed in Heights	
	(m ³)	(yds ³)	(m ³)	(yds ³)		
300mm (12") Std	4.8	6.28	6.8	8.9	2540mm	8' 3"
500mm (20")	6.9	9.02	8.9	11.64	2740mm	8' 11"
700mm (28")	9.2	12.03	11.2	14.65	2940mm	9' 7"

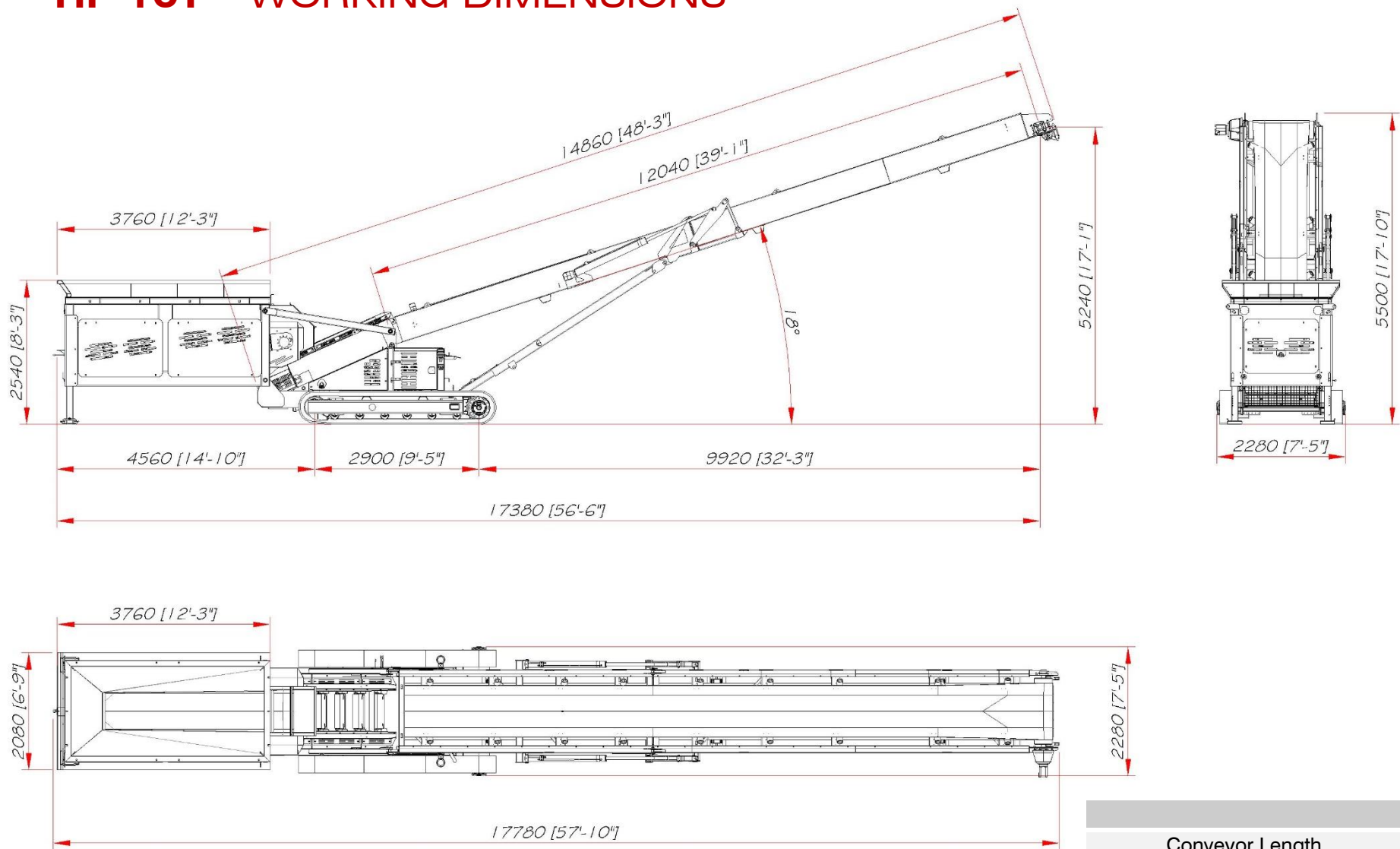
THROUGHPUT - EXPLAINED

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



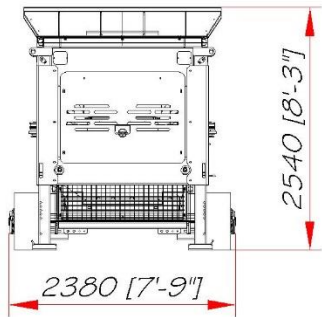
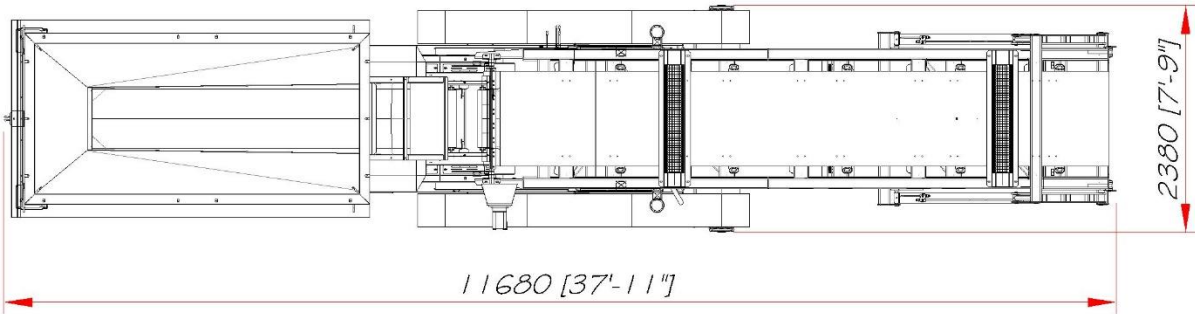
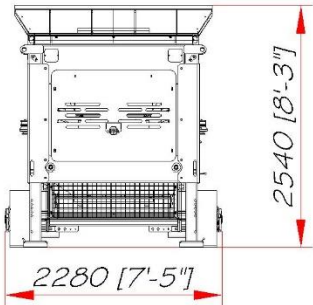
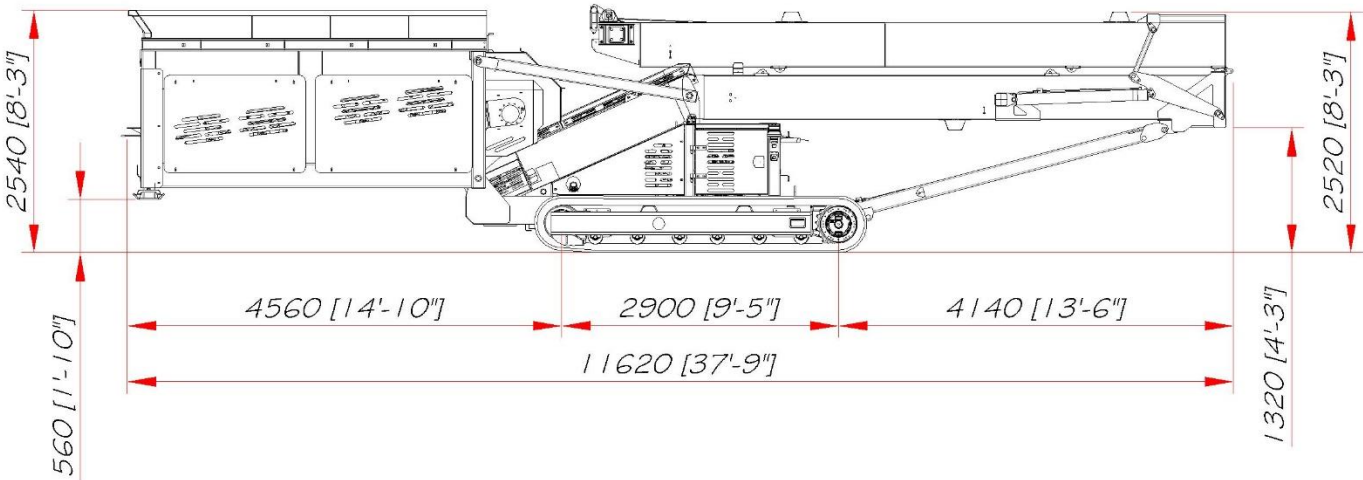
Feed method, material characteristics and environmental conditions can affect throughput, overall performance and maximum working angle.

HF 10T – WORKING DIMENSIONS



	Metric	Imperial
Conveyor Length	14.86m	48' 3"
Machine Working Length (18°)	17.38m	56' 6"
Discharge Height (18°)	5.24m	17' 1"
Feed in Height (Rear)	2.54m	8' 3"
Operating Width	2.28m	7' 5"

HF 10T – TRANSPORT DIMENSIONS



	Metric	Imperial
Transport Height (500mm extension)	2.74m	8' 11"
Transport Height (700mm extension)	2.94m	9' 7"

	Metric	Imperial
Transport Length (Head Folded)	11.68m	37' 9"
Transport Width (300mm Shoe)	2.28m	7' 5"
Transport Width (400mm Shoe)	2.38m	7' 9"
Transport Height (Head Folded)	2.54m	8' 3"
Overall Weight	13,100 Kg	28,880 lbs
Unit can also be transported in 1 x 40' High cube container.		

HF 10T – MACHINE FEATURES

Hopper Feeder

- Manual adjustable jacking legs mounted under hopper side to support the hopper weight
- Hopper Width 2.08m (6' 9")
- Hopper Length 3.76m (12' 3")
- Feed in Height 2.54m (8' 3")
- Capacity 6.8m³ (8.9yds³)
- 1050mm (42") wide EP 500 3 ply, 5 + 1.5mm feeder belting, feeding onto 1050mm (42") incline belt.
- 102mm (4") Plain Return rollers
- Large transfer point opening for maximum throughput, spring tension face scraper, to clear the feeder belt
- Single Internal planetary drive motor with flow control valve mounted in power unit to regulate feeder belt speed.
- Manual adjustable hopper door to regulate material flow



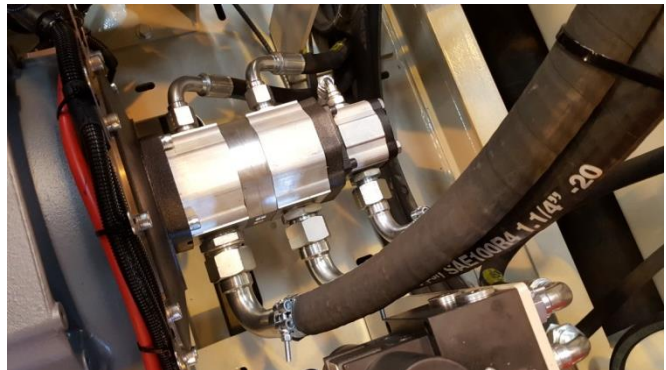
Incline Conveyor

- Heavy duty 15m (50ft) folded plate design incline conveyor to give structural strength to the conveyor frame.
- Hydraulic folding head section, for compact road transportation
- Primary spring mounted poly blade face scraper, to clear access material of the belt
- 1050mm (42") wide EP 400 3 ply, 3 +1.5mm belting running at 2.26 m/s- (445 ft/min)
- 102mm (4") diameter Troughing rollers set
- 102mm (4") diameter plain return rollers.
- 1 x External hydraulic drive motor



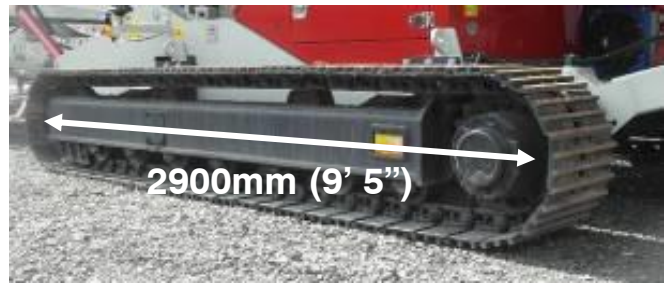
Hydraulics

- Triple aluminium pump mounted on the flywheel to operate functions.
- 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: 440 litre (116 US gallons)
- Oil type: Grade 32



Chassis

- FL4 Tracks
- Longitudinal centres: 2900mm (9' 5")
- Track shoe width: 300mm (12")
- Drive: Two integral hydraulic motors
- Tensioning: Hydraulic adjuster, grease tension
- Tracking: Push button pendant type (dog lead)
- Speed of tracks: 1.05 kph (0.65 mph)
- Heavy duty structural steel chassis.
- All moving joints have incorporated heavy duty bosses for increased strength and wear characteristics
- Lockable doors for easy access to engine and hydraulics



Engine & Control

Lesser regulated Countries EU Stage IIIA/USA

Tier 3

- CAT C2.2 Turbo, Power: 44.7Kw (59.9Hp) @ 2200 Rpm

Regulated Countries

EU Stage IIIB/USA Tier 4

- Deutz TD 2.9 L04i, Electronic, 4 Cylinder, 50kW (68Hp) @ 2200 Rpm
- CAT, C2.2 IPU, 50kW (68Hp) @ 2200 Rpm
- 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: 167 litres (44 US gallons)



HF 10T – OPTIONAL EXTRAS

Bolt in Feedboot Liners

- **Option 1:** 6mm (1/4") mild steel liners.
- **Option 2:** 6mm (1/4") abrasive resistant hardened steel liners.

Hopper Extensions

- **Standard:** 300mm Extension (6.8 m³ /8.9 yds Heaped Capacity)
- **Option 1:** 500mm Extension (8.9 m³ / 11.64ydsHeaped Capacity)
- **Option 2:** 700mm Extension (11.2 m³ / 14.65 Heaped Capacity)

Feedboot, Fall break System

- Integrated, Bolt in fall break system to stop larger pieces in the material hitting the belt and causing damage to the conveyor.

Oil Upgrade

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

Belting Upgrade

- **Incline Belt Upgrade:** 1050m (42") 3 ply EP 500 5+ 1.5mm Heavy Duty Belt

Conveyor Side Skirting

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

Remote Control

- **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 FL4 Tracks x 400mm shoe (Tracks can be removed to load into a container)

Hydraulic Tipping Grid

- Hydraulic Tipping grid available aperture of 100mm with Bofar bars

Conveyor Side Skirting

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

Drive Drum upgrade

- Feeder conveyor drive drum upgraded to ceramic lagging

Double Deck Vibrating Grid (DDVG)

- **Option 1:** Machine prepared hydraulically run (DDVG), includes remote control
- **Option 2:** Machine prepared hydraulically to tip a standard grid, includes remote control
- **Option 3:** Double Deck Live Head: Vibrating Grid

Hydraulic Jacking Legs

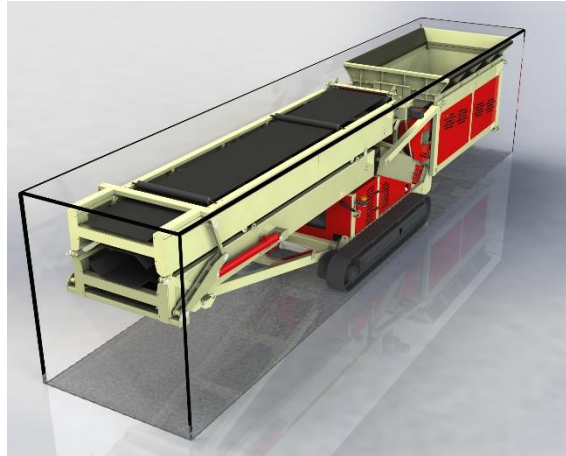
- Upgrade to 2 x hydraulic jacking legs at the rear of hopper

HF 10T – TRANSPORT INFORMATION

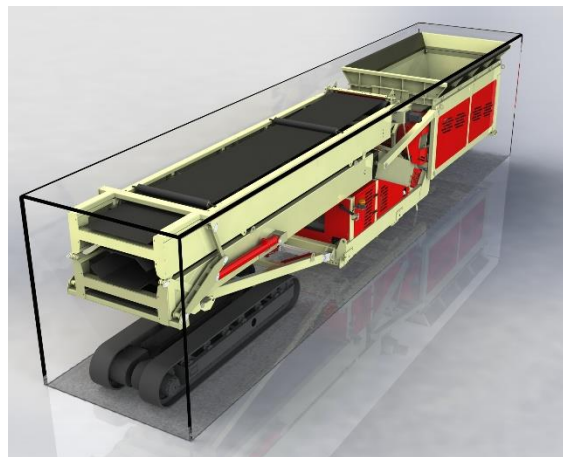
Options

The HF 10T 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 1 x 40' High Cube container for global distribution
 - a) 300mm Shoes – Driven into container – no re assembly

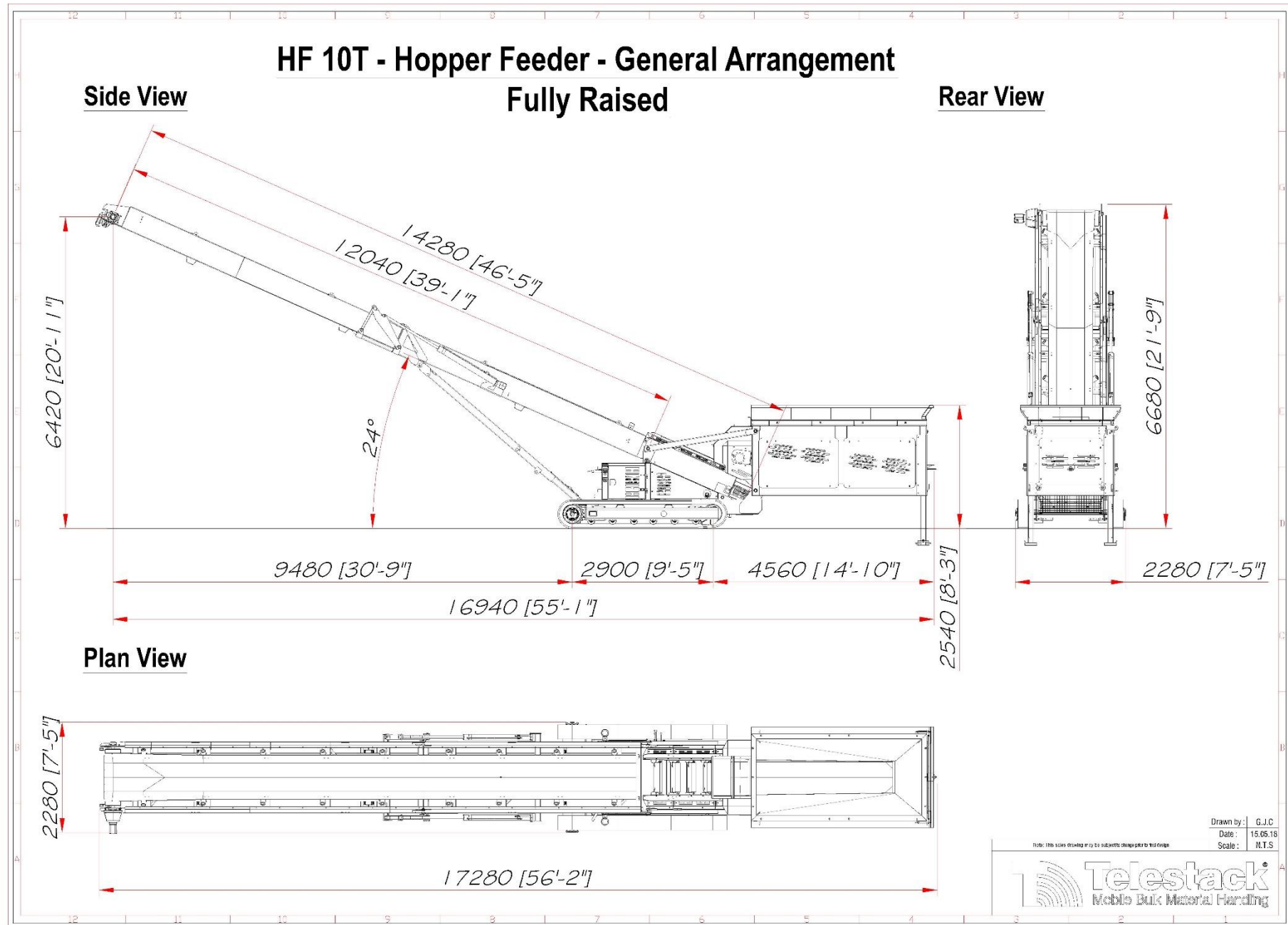


- b) 400mm Shoes – pushed into container –re assembly of tracks required on site



HF 10T – GENERAL ARRANGEMENT

OPERATIONAL



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**THE
POWER
TO MOVE
MATERIALS**

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