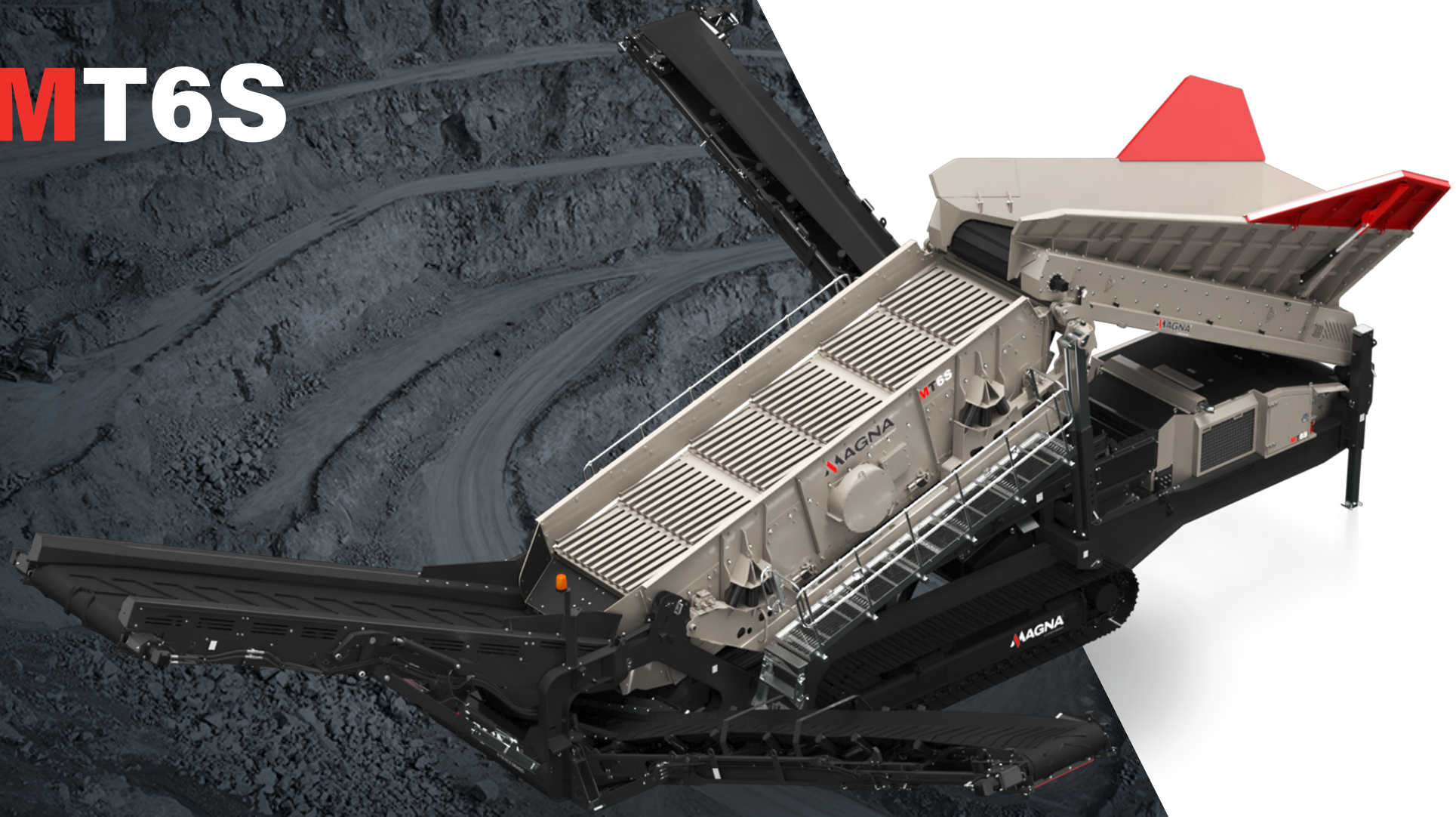
MAGNA™
A TEREX BRAND

TECHNICAL
SPECIFICATION

# MT6S



# OVERVIEW

## SPECIFICATION

**Total Weight:** 48,000kg (105,821lbs)

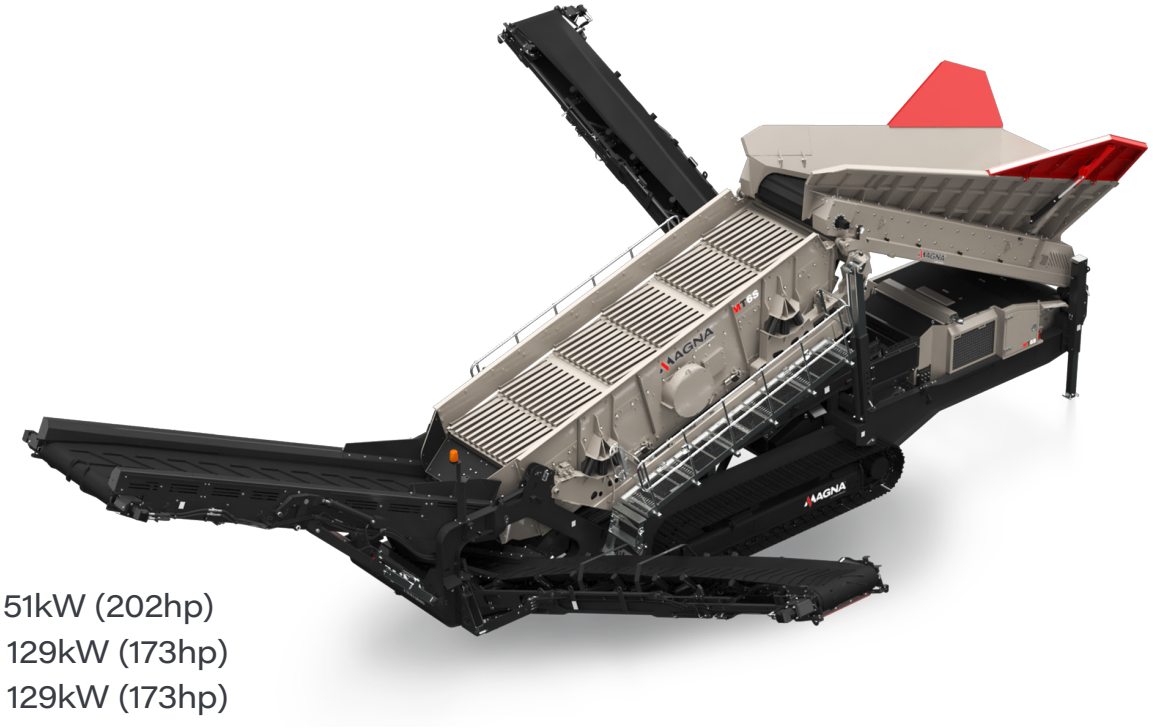
**Transport:**
**Length:** 17.9m (58′ 8″)
**Height:** 3.6m (11′9″)
**Width** 3m (9′10″)

**Working:**
**Length:** 18.3m (60′8″)
**Height:** 5.6m (18′5″)
**Width:** 16.2m (53′2″)

**Screen size:** 6,100mm x 1,830mm (20′ x 6′)

**Power Unit:**
Tier 3: Caterpillar C7.1 151kW (202hp)
Tier 4F / Stage IV: Caterpillar C4.4 129kW (173hp)
Stage V: Caterpillar C4.4 129kW (173hp)

**Plant Colour:** RAL 7030, RAL 3020, RAL 7024, RAL 9005



# OVERVIEW



The MAGNA MT6S is a highly adaptable and robust screen designed for use in large-scale operations, including quarrying, mining, construction, demolition debris handling, topsoil processing and recycling. It can also handle applications including sand, gravel, coal, ore, and aggregates. The MT6S can process up to 800TPH and features a powerful 6,100mm x 1,830mm (20′ x 6′) screenbox for efficient screening.

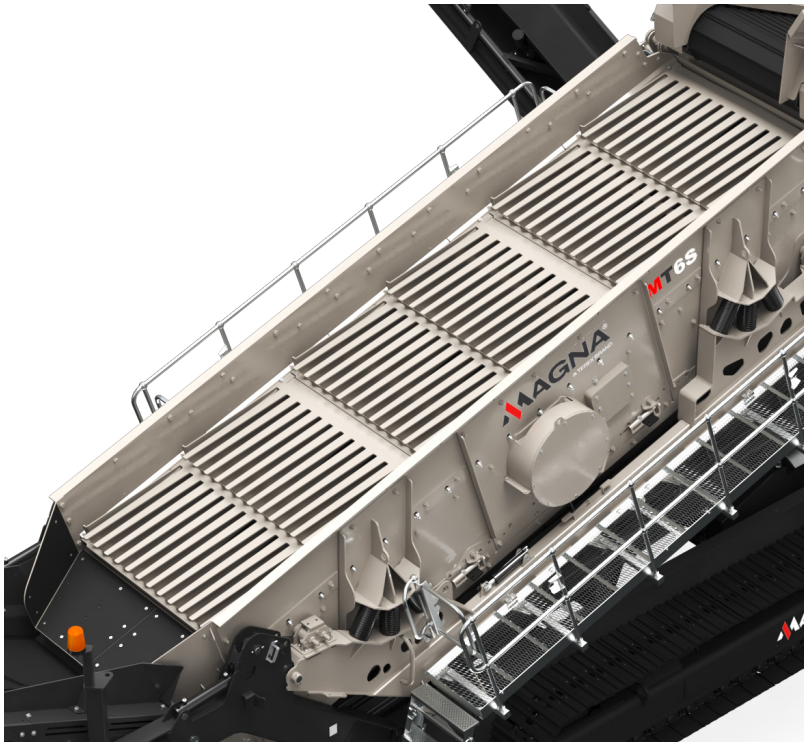
## FEATURES & BENEFITS

- High capacity up to 800 tph / 881 US tph (depending on media sizes & material type)
- Versatile aggressive screen box can be easily adapted to suit many applications
- Modular configuration screen box with 6.1m x 1.8m (20′ x 6′) top deck and 5.5m x 1.8m (18′ x 6′) bottom deck screen
- Screen box angle can be hydraulically adjusted to an angle between 14 – 18°
- Screen box discharge end can be hydraulically raised 600mm (24″) to facilitate efficient and easy media access and changing
- All stockpiling conveyors are hydraulic angle adjustable with hydraulic extending head sections for maximum discharge & stockpile height
- Apron feeder angle adjustable, lower position to accommodate crusher feed, high position provides reduced feeder incline angle when operated in direct feed mode from excavator/loader

# SCREENBOX



| | |
|---|---|
| **Top deck:** | 6.1m x 1.83m (20′ x 6′) |
| **Upper deck media:** | 40mm – 200mm |
| **Bottom deck:** | 5.5m x 1.83m (18′ x 6′) |
| **Bottom deck media:** | 100mm max |
| **Tensioning top deck:** | Side |
| **Tensioning bottom deck:** | End |
| **Drive:** | Hydraulic with heavy duty bearing single shaft, 2 bearing |
| **Catwalks:** | Galvanised access catwalk on both sides of screen |
| **Screen Angle:** | 14° - 18° |
| **Screen Speed:** | 900 rpm - 1000 rpm |
| **Screen stroke Min/Max range:** | 8mm - 10mm |
| **Screen stroke standard:** | 8mm Wear resistant liners on top deck discharge chute |
| | Screen box discharge end raises hydraulically 600mm to facilitate mesh changing |
| **Media options:** | Mesh, Punch Plate, Bofor bars, fingers and heavy duty sectional punch plate |
| | Total screening area: 21.2m² (228 ft²) |



# HOPPER/FEEDER




| | |
|---|---|
| **Hopper Capacity:** | 10m³ (13.08 yd³) |
| **Feed height:** | 3.27m - 4.16m (10′ 9″ - 13′ 8″) |
| **Feed in width:** | 1.7m - 2.48m (5′ 6″ - 8′ 1″) |
| **Drive:** | Hydraulic variable speed drive via high torque gearbox and heavy duty chain drive |
| **Apron feeder dimensions:** | Width 1.1m x Length 5.18m (43″ x 16′ 12″) |
| **Speed:** | Variable, up to 24mpm |
| | Abrasion Resistant steel pan apron feeder mounted with wide mouth opening |
| **Hopper extensions (Optional):** | Feed height: 4.9m - 5.29m (16′1″ - 17′ 3″)<br>Feed in width: 3.724m (12′ 2″) |

# CONVEYORS

## OVERSIZE CONVEYOR

| | |
|---|---|
| **Belt width:** | 1.6m (63″) |
| **Belt spec:** | Chevron |
| **Working Angle:** | Hydraulic raise/lower variable working angle - 14° to 24° |
| **Speed:** | 52 mpm |
| **Discharge Height:** | 4.55m (14′ 11″) |
| **Stockpile capacity:** | 140.1m$^3$ (183.2yd$^3$) @ 24° |

- Hydraulically folding head section
- Impact bars full length of conveyor
- Steel skirted full length of conveyor

## TRANSFER CONVEYOR

| | |
|---|---|
| **Belt width:** | 1.4m (55″) |
| **Belt spec:** | Plain |
| **Belt Speed:** | 99.4 mpm<br>Conveyor fully skirted |

# CONVEYORS



## FINES CONVEYOR

| | |
|---|---|
| **Belt width:** | 1.05m (41″) |
| **Belt spec:** | plain |
| **Working Angle:** | 25° |
| Rosta scraper on head drum | |
| **Speed:** | variable speed, up to 122 mpm |
| **Standard Discharge Height:** | 4.5m (14′ 09″) |
| **Stockpile capacity:** | 136m$^3$ (178yd$^3$) @ 40° |

## MIDGRADE CONVEYOR

| | |
|---|---|
| **Belt width:** | 900mm (36″) |
| **Belt spec:** | Chevron |
| **Working Angle:** | 25° |
| **Speed:** | variable speed, up to 114 mpm |
| **Standard Discharge Height:** | 4.35m (14′ 3″) |
| **Stockpile capacity:** | 122m$^3$ (159.6yd$^3$) @ 40° |

# POWER UNIT & HYDRAULICS



| | |
|---|---|
| **Tier 3 Equivalent:** | Caterpillar C7.1 LRC Engine Power: 151kW (202hp) |
| **Engine Speed:** | 2200 rpm |
| **Tier 4F / Stage IV:** | Caterpillar C4.4 Engine Power: 129kW (173hp) |
| **Engine Speed:** | 2200 rpm |
| **Stage V:** | Caterpillar C4.4 Engine Power: 129kW (173hp) |
| **Engine Speed:** | 2200 rpm |

## TANK CAPACITIES

| | |
|---|---|
| **Hydraulic Tank:** | 780 litres / 172 UK gal / 206 US gal |
| **Fuel Tank:** | 597 litres / 131 UK gal / 158 US gall |
| **Urea Tank:** | 36 litres / 7.9 UK gal / 9.5 US gal |

**Pump 1:** Quad - 63cc/63cc/33cc/33cc

- Pump One section driving panfeeder
- Second section driving screen
- Third section driving the transfer conveyor and low speed left hand track
- Fourth section driving the fines conveyor and low speed right hand track

**Pump 2:** Tandem 29cc/29cc

- Pump One section driving the midsize conveyor and high speed right hand track
- Second section driving the oversize conveyor and high speed left hand track

# TRACKS



| | | | |
|---|---|---|---|
| **Type:** | Heavy-duty tracks | **Gradeability:** | 28.9˚ |
| **Sprocket centers:** | 3.8m (12′6″) | **High speed:** | 1kph (0.62mph) |
| **2 Speed with ‘soft start’** | | **Low speed:** | 0.49kph (0.31mph) |
| **Track width:** | 500mm (1′ 8″) | **Raking Angle:** | 28.9˚ |

# OPTIONS

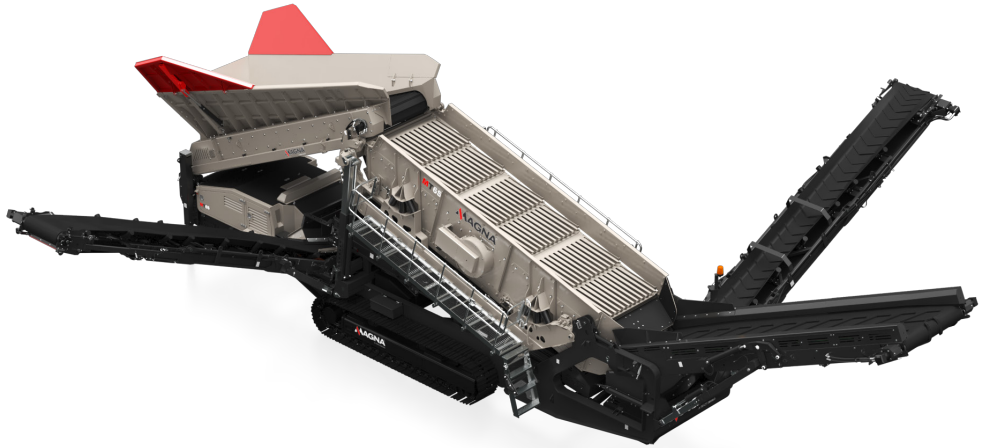


## SCREEN MEDIA - TOP DECK

- **Tines** in top deck (40/55/65/75/100/125/150mm) Max. piece size not to exceed 650mm³, based on a Material density of 1,600kg/m³
- Top deck abrasion resistant **punch plate** (35/40/50 /60/75/85/100/125/150mm) Max. piece size not to exceed 750mm³, based on a Material density of 1,600kg/m³
- Top deck heavy duty **Bofar bars** (75/100/125/150mm) (Check Leadtime - Contact Factory) - Max. piece size not to exceed 750mm³, based on a Material density of 1,600kg/m³
- Heavy duty **fabricated modular punch plate** (80/100/150mm)(200/250/300mm only on last 2 sections)Max piece size not to exceed 750mm³, based on a material density of 1,600kg/m³. Note: Mesh frame removed for this configuration
- Top deck **mesh** (20-150mm) - Max. piece size not to exceed 750mm³, based on a Material density of 1,600kg/m³

## SCREEN MEDIA - BOTTOM DECK

- **Cascade fingers** in bottom deck 20/30/40/50/60/75
- Bottom deck **mesh/ speedharp** (10-60mm)
- Hydraulic tensioning (bottom deck screen end tensioned mesh)
- Bottom deck punch plate (Side Tensioned 10 -100mm)
- Chain blanket for over the screenbox
- Plain belt for middle grade conveyor
- Chevron belt for fines conveyor
- Radio remote control of tracks
- 68 grade hydraulic oil
- Kit to provide ability to blend Oversize and Middle grade products
- Hydraulic driven cleaning brush for Pan feeder
- 10mm abrasion resistant plate lined hopper
- Hydraulically folding Hopper extensions



# TELEMETRY

## TELEMATICS

A number of MAGNA products can also be fitted with T-Link telemetry system which provides the customer with real time information on the performance of their machine.

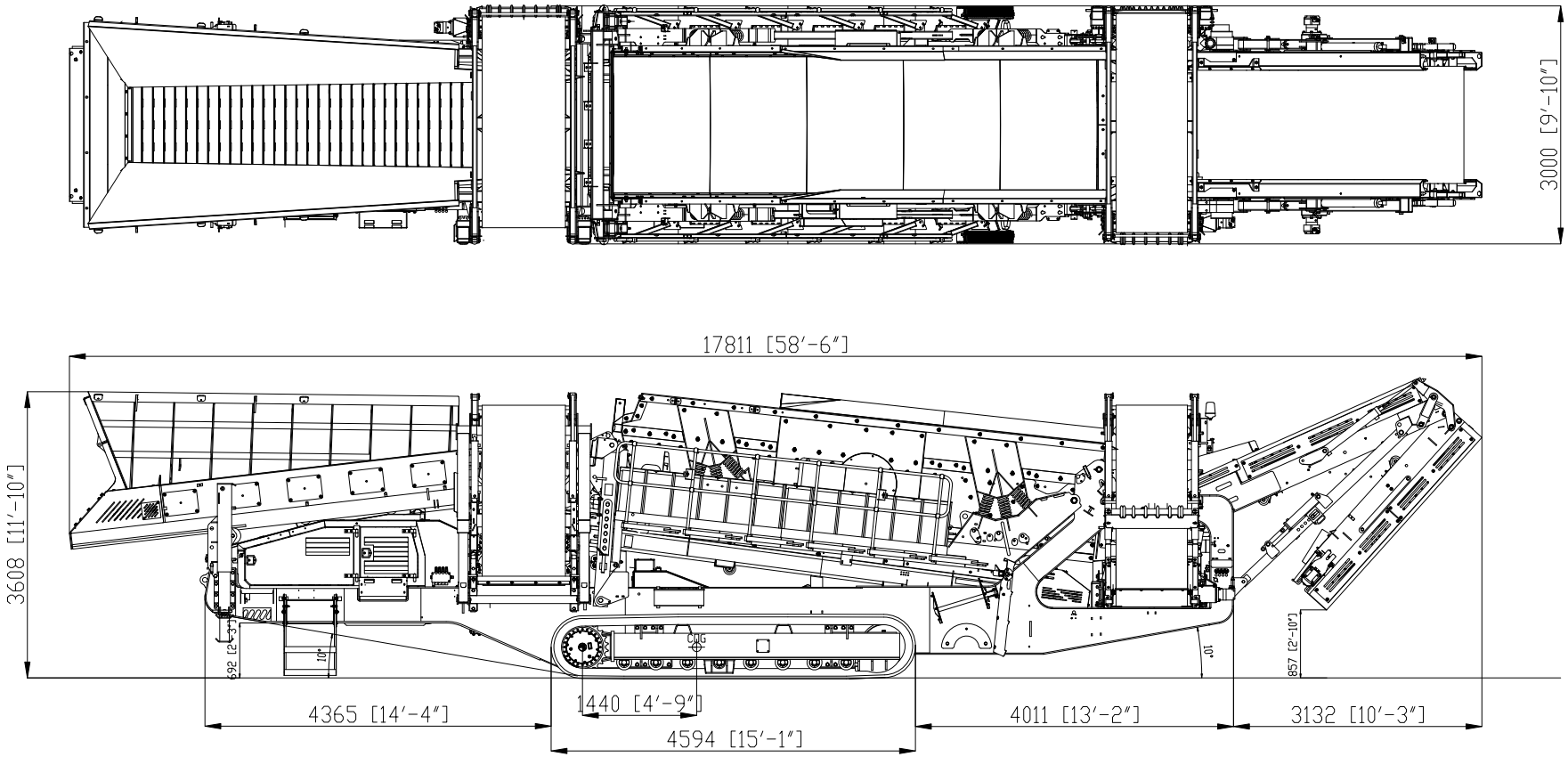
Telematics maximises uptime, parts and service availability and provides factual up to date information from the field.

- GPS MACHINE TRACKING
- MACHINE DATA
- FLEET OVERVIEW
- DASHBOARD DISPLAY
- USEFUL REPORTING
- ENHANCED USABILITY

T-LINK

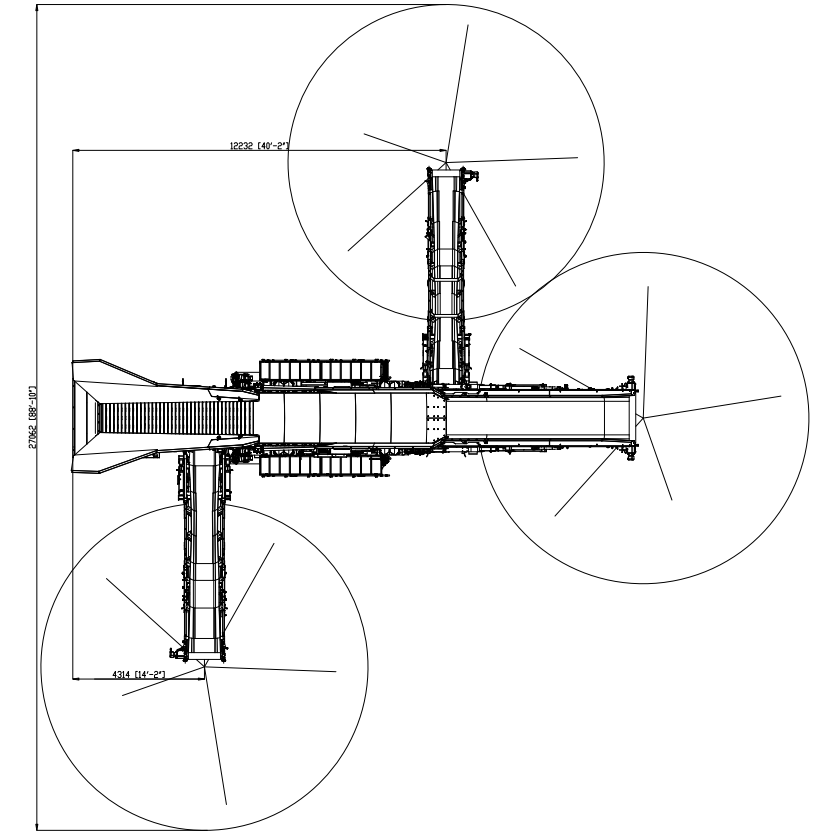
# DIMENSIONS

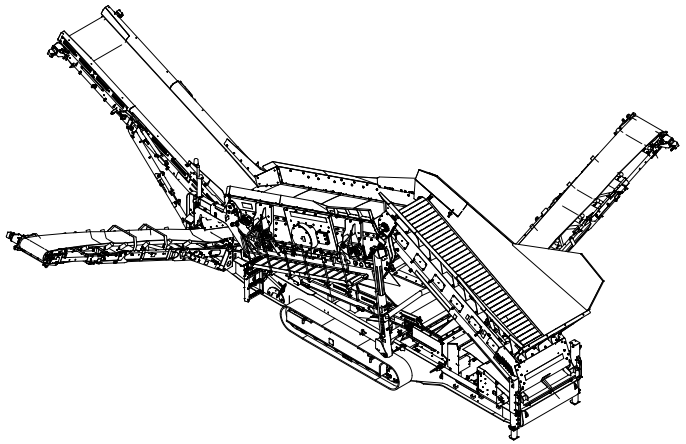
## TRANSPORT

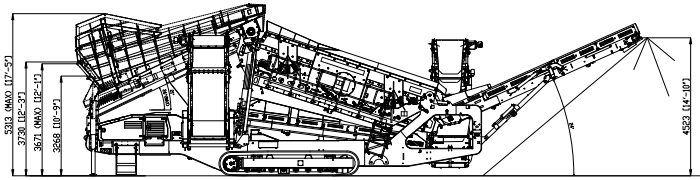


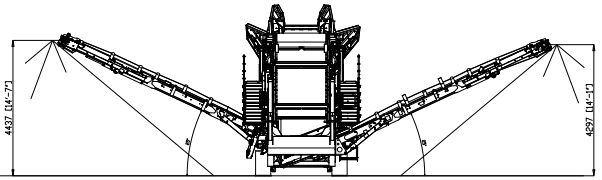
# DIMENSIONS

## WORKING



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