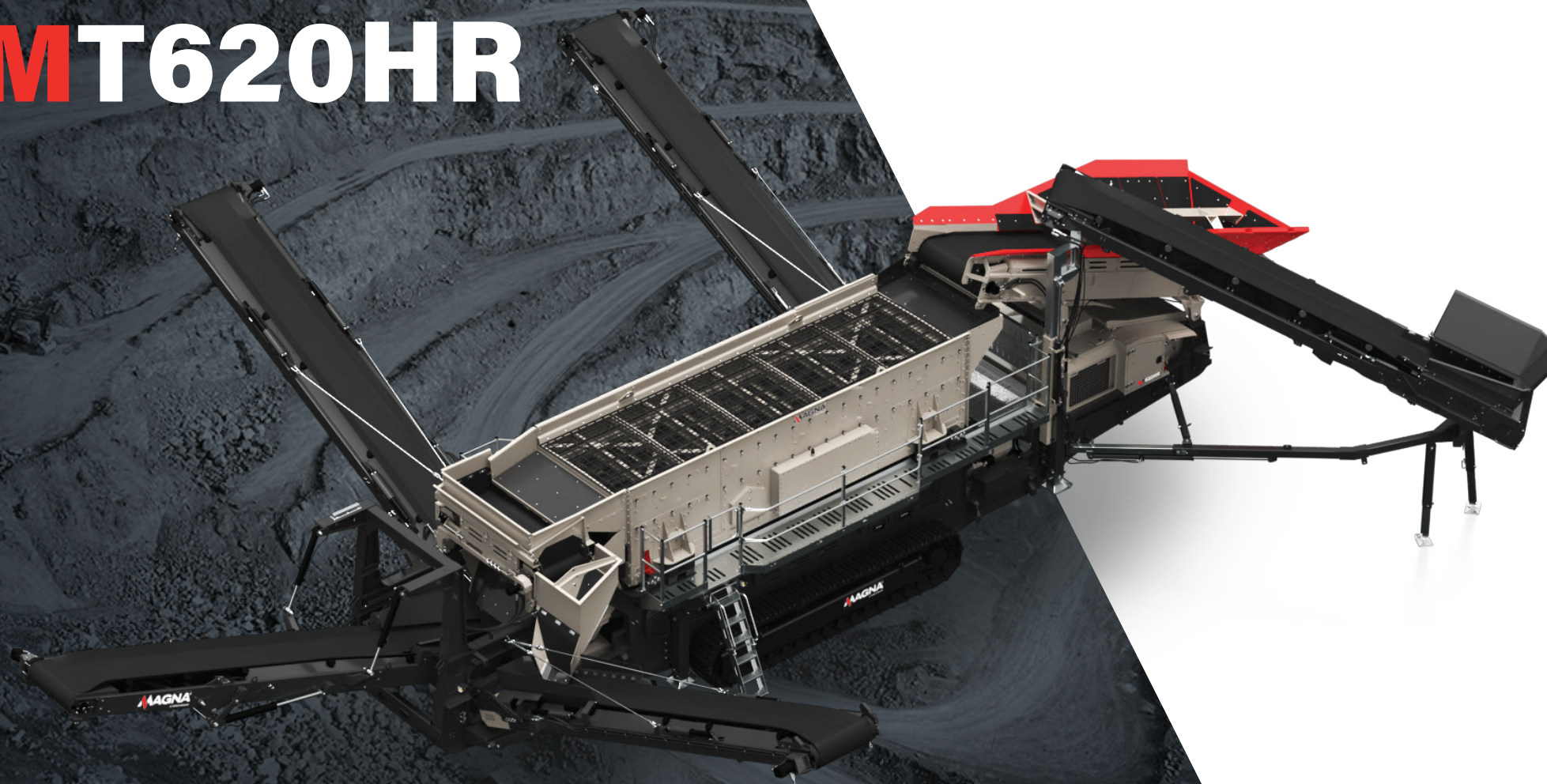




TECHNICAL
SPECIFICATION

MT620HR



OVERVIEW

TECHNICAL SPECIFICATION



SPECIFICATION

3 DECK HORIZONTAL SCREEN

Total Weight: 45,000kg (99,208lbs)

Transport:

Length: 19.9m (65' 3")

Height: 3.96m (13")

Width: 3.24m (10'8")

Working:

Length: 21.27m (69'9")

Height: 4.96m (16'3")

Width: 16.28m (53'5")

Screenbox: 6.1m x 1.93m (20' x 6'4")

Power Unit: Tier 3: CAT C7.1 151 kW (202hp) @ 2200rpm

Tier 4F: CAT C7.1 151 kW (202hp) @ 2200rpm

Stage V: CAT C7.1 151 kW (202hp) @ 2200rpm

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



MT620HR

The MAGNA MT620HR is a horizontal screen designed for handling large quantities of sticky materials and delivering precise, fine sizing, making it perfect for numerous construction and mining contracts. The MT620HR model features an recirculating swivel conveyor for oversized product. The conveyor is used to return product back to the feeder. Adjustable elliptical throw combines linear and circular amplitude producing an aggressive screening action. It excels in handling materials such as natural and crushed aggregates, coal, iron ore, and recycled concrete and asphalt.

FEATURES & BENEFITS

- High capacity up to 800 tph / 881 US tph (depending on media sizes & material type)
- Maximum feed size 250mm (10")
- Maximum allowable feed size may vary depending on material type and screenbox media
- Heavy duty wear resistant feed hopper
- Quick set-up time
- Maximum mobility with heavy duty, low ground pressure crawler tracks
- Optional radio control system available if required
- High performance hydraulics system
- Galvanised maintenance platforms on both sides of screen
- Hydraulically folding for transport
- Heavy duty, triple shaft horizontal screenbox with adjustable stroke, angle & speed
- Direct feed hopper with impact bars & rollers
- Recirculating oversize capacity tailored for crushing applications
- MAGNA telemetry as standard

SCREENBOX

TECHNICAL SPECIFICATION



SCREENBOX

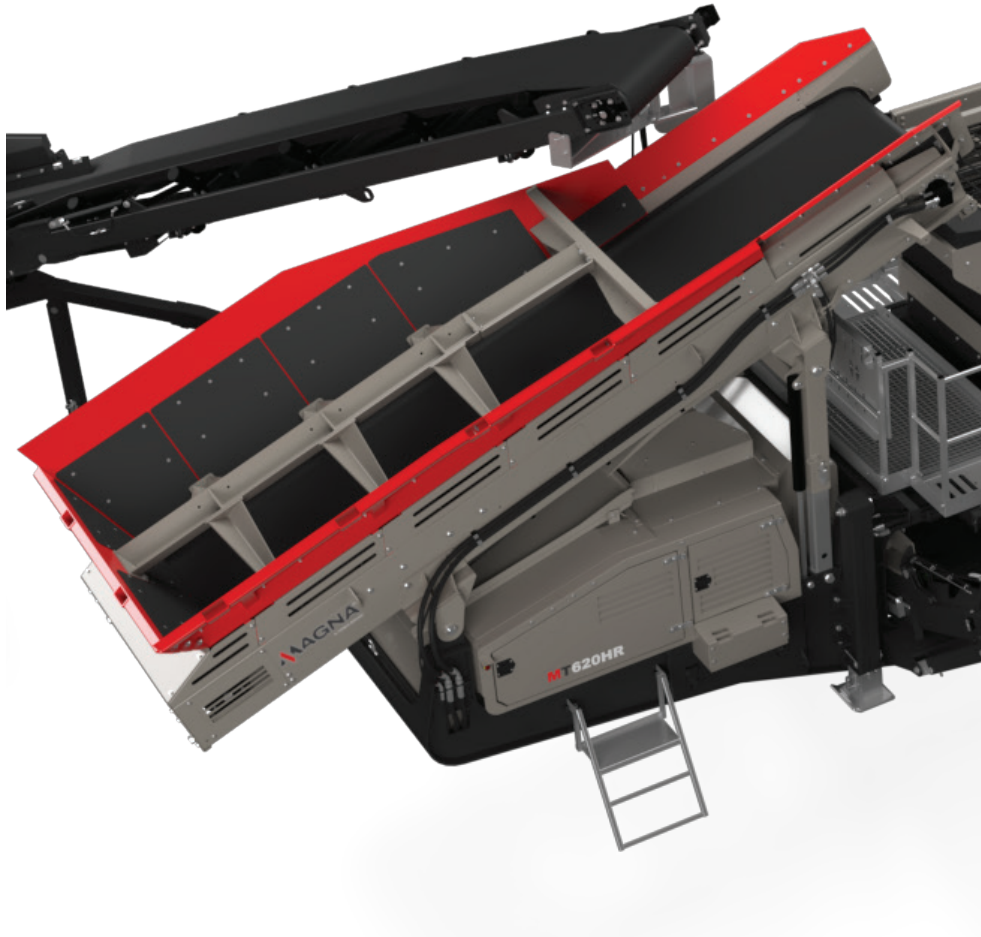
- 6.1m x 1.93m (20' x 6' 4") (All 3 decks)
- 3 deck triple shaft horizontal screenbox
- Oval stroke adjustable up to maximum of 19mm
- Oval stroke angle adjustable from 30° - 60°
- Breaker-box with wear resistant steel replaceable wearplate
- Hi-torque screen motor mounted direct to Screenbox, pulley driven
- Marshmallow springs
- Wear plates on pipeunits
- Side tensioned all decks
- Quick release wedge tensioning system (optional depending on screen media)
- Roll-in chute system with removable panels offering blending options between upper midsize & lower midsize



MT620HR

HOPPER

TECHNICAL SPECIFICATION



Target area:

5.8m (19') long x 2.55m (8' 4") wide

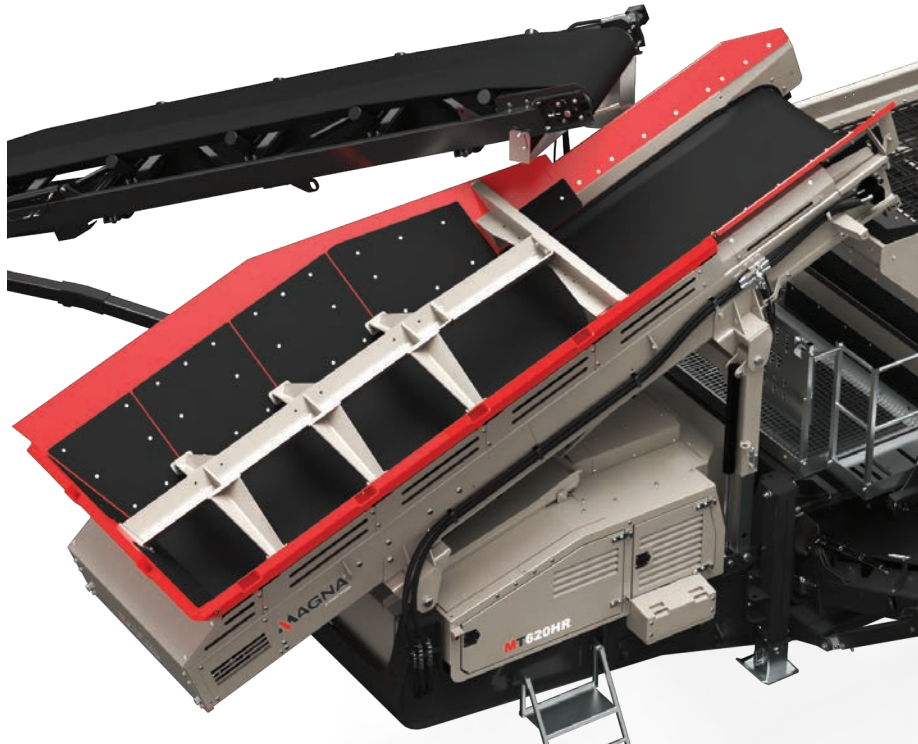
Hopper capacity:

4.33m³ (5.67 cu. yd.)

Feed in height:

2.82m (9' 3")

- Replaceable wear resistant steel panel liners



- 1300mm (52") 4 ply plain belt
- Direct drive system with twin gearboxes
- Variable speed control
- Impact bars at inlet impact section
- Heavy duty belt feeder option available

UNDERSCREEN

- 1500mm (60") 3 ply plain belt
 - Direct drive system
 - Variable speed control
- Drum centres:** 6.25m (20' 6")
- Drum diameter (drive):** 270mm (10.6")
- Drum diameter (tail):** 270mm (10.6")



SIDE CONVEYORS

TECHNICAL SPECIFICATION



FINESIZE

900mm (36") 3 ply plain belt

Angle adjustment:	14° - 25°
Stockpile height:	4.3m (14' 1")
Stockpile capacity:	119m ³ (156 cu. yd.)
Drum centres:	9.5m (31' 2")
Drum diameter (drive):	286mm (11.3")
Drum diameter (tail):	203mm (8")

- Hydraulically folding
- Impact bars under feedboot
- Direct drive system
- Variable speed control

MID-FINESIZE - SIDE CONVEYOR

900mm (36") 3 ply plain belt

Angle adjustment:	14° - 25°
Stockpile height:	4.4m (14' 5")
Stockpile capacity:	129m ³ (166 cu. yd.)
Drum centres:	8.92m (29' 3")
Drum diameter (drive):	286mm (11.3")
Drum diameter (tail):	203mm (8")

- Hydraulically folding
- Impact bars under feedboot
- Direct drive system
- Variable speed control

OVERSIZE - SIDE CONVEYOR

900mm (36") 3 ply plain belt

Angle adjustment:	14° - 25°
Stockpile height:	4.4m (14' 15")
Stockpile capacity:	128m ³ (167 cu. yd.)
Drum centres:	6.9m (22' 8")
Drum diameter (drive):	286mm (11.3")
Drum diameter (tail):	270mm (10")

- Direct drive system
- Variable speed control
- Impact bars under feedboot
- Wear resistant steel lined feed chute
- Hydraulically folding



MT620HR

CONVEYORS

TECHNICAL SPECIFICATION



MID-OVERSIZE - TAIL CONVEYOR

900mm (36") 3 ply plain belt

Angle adjustment: 14° - 25°
Stockpile height: 4.3m (14' 1")
Stockpile capacity: 119m³ (156 cu. yd.)
Drum centres: 9.5m (31' 2")
Drum diameter (drive): 286mm (11.3")
Drum diameter (tail): 270mm (10")

- Hydraulically folding
- Impact bars under feedboot
- Direct drive system
- Variable speed control

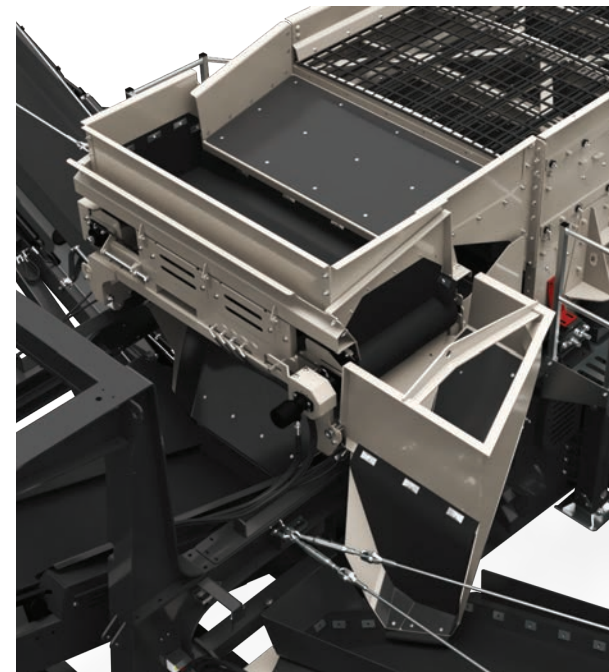


OVERSIZE - CROSS CONVEYOR

800mm (32") 3 ply plain trough belt

Drum centres: 1.92m (6' 4")
Drum diameter (drive): 223mm (8.8")
Drum diameter (tail): 203mm (8")

- Hydraulic slide to enable screen mesh access
- Variable speed control



CONVEYORS

TECHNICAL SPECIFICATION



RECIRCULATING CONVEYOR

900mm (36") 3 ply plain belt

Drum centres: 5.83m (19' 2")

Drum diameter (drive): 286mm (11.3")

Drum diameter (tail): 270mm (10")

- Used to transfer return product from recirculating crusher back to feeder
- Mounted directly to chassis, site mobile
- Swivel mounting to suit variety of crushers and enable tracking on site
- Direct drive system
- Variable speed control



MT620HR

POWER UNIT & HYDRAULICS

TECHNICAL SPECIFICATION



Engine Tier 3 Equivalent: CAT C7.1
Performance: 151 kW (202hp) @ 2200rpm

Engine Tier 4F: CAT C7.1
Performance: 1 51 kW (202hp) @ 2200rpm

Engine Stage V: CAT C7.1
Performance: 151 kW (202hp) @ 2200rpm

Tank capacity

Fuel: 597 L (158 US Gal)

Hydraulic Oil: 780 L (206 US Gal)

Pumps

Flywheel pump: Cast iron quad 63/63/32/32cc/rev

PTO pump: Cast iron tandem 29/29cc/rev

Motors

Belt feeder: 125cc/rev x 2

Under screen conveyor: 630cc/rev

Finessize conveyor: 500cc/rev

Upper midsize conveyor: 500cc/rev

Lower midsize conveyor: 500cc/rev

Oversize conveyor: 800cc/rev

Screen: 93cc/rev bent axis

Optional apron feeder: 400cc/rev

Recirculating conveyor: 500cc/rev



TRACKS

TECHNICAL SPECIFICATION



Type:	Heavy-duty tracks	High speed:	1.1kph (0.68mph)
Sprocket centers:	3.83m (12' 6")	Low speed	0.55kph (0.35mph)
Track width:	500mm (1' 8")	Flow rate:	134 Lpm
Gradeability:	26° maximum		



DUAL POWER SYSTEM

- 4.2m (13' 9") track
- IE3 Electric motors 75kW (100hp)
- 55kW (73hp), diesel engine
- Integrated control system controlling either diesel-hydraulic or electric-hydraulic functions.
- Auto lubrication system
- Radio controlled tracking
- Wear resistant or mild steel punch plate screens
- Quick release wedge screen tensioning system per deck
- Chevron belts available across all stockpiling conveyors
- Hydraulic oil grade 68
- Screenbox extensions
- Hinged chute system offering blending options between lower midsize & finesize



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

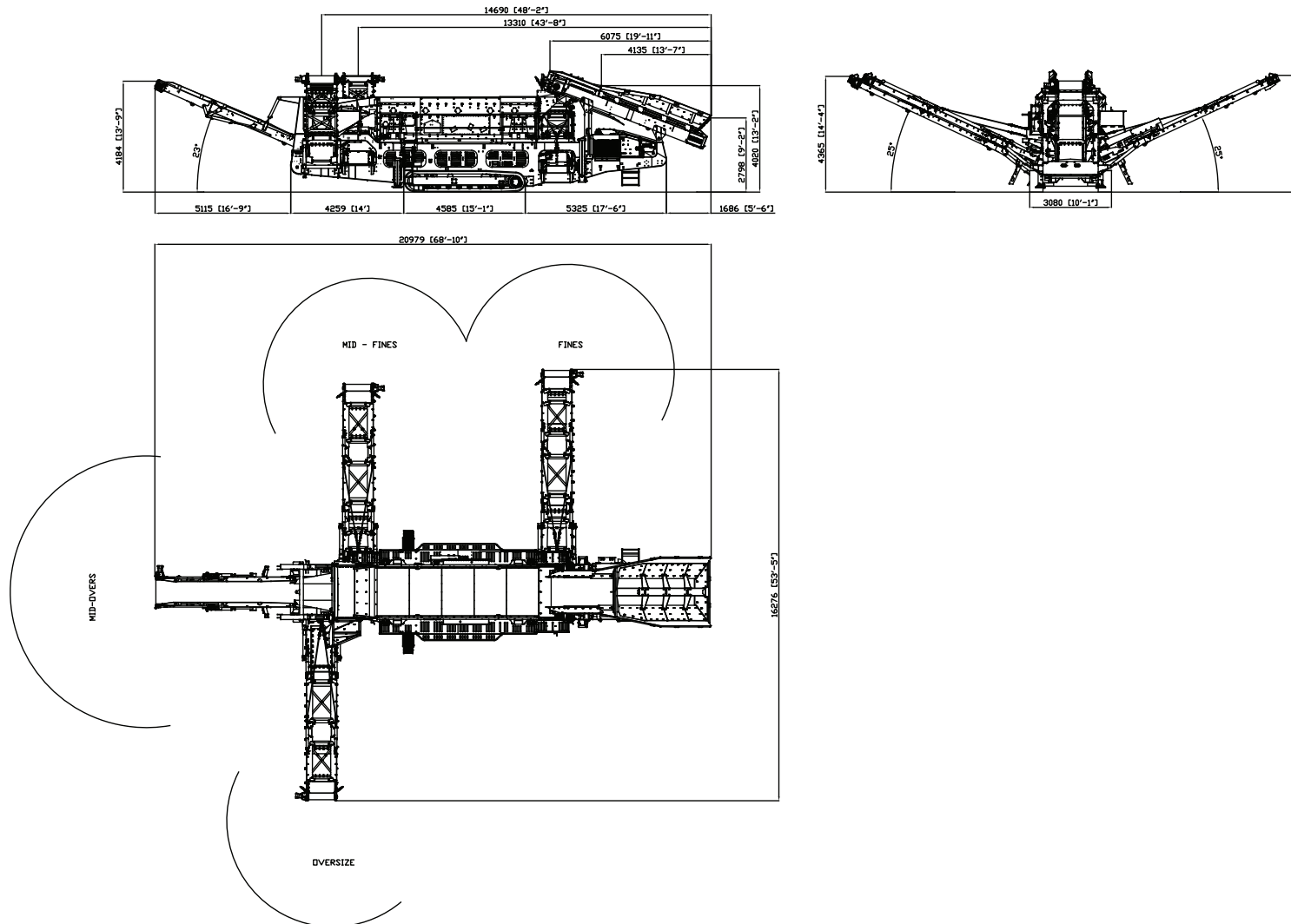


DIMENSIONS

TECHNICAL SPECIFICATION

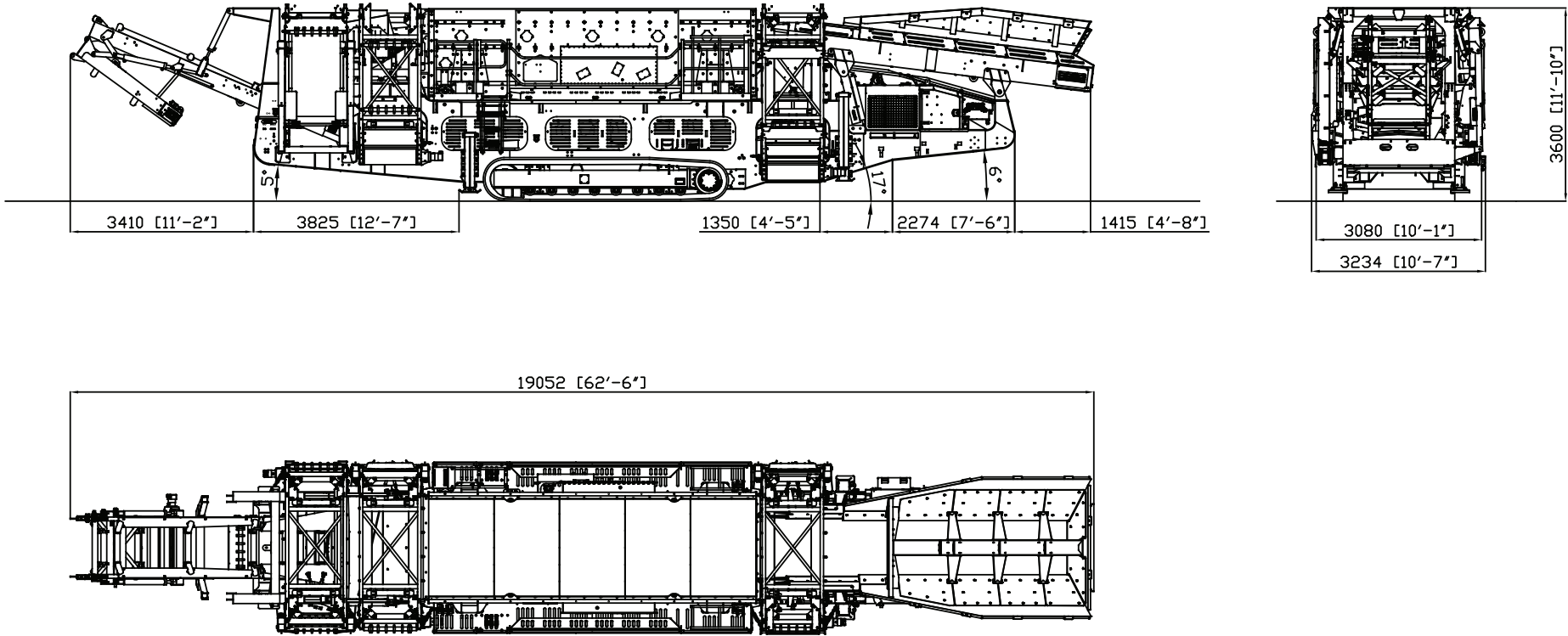


WORKING - NO RECIRC CONVEYOR



DIMENSIONS

TRANSPORT - NO RECIRC CONVEYOR

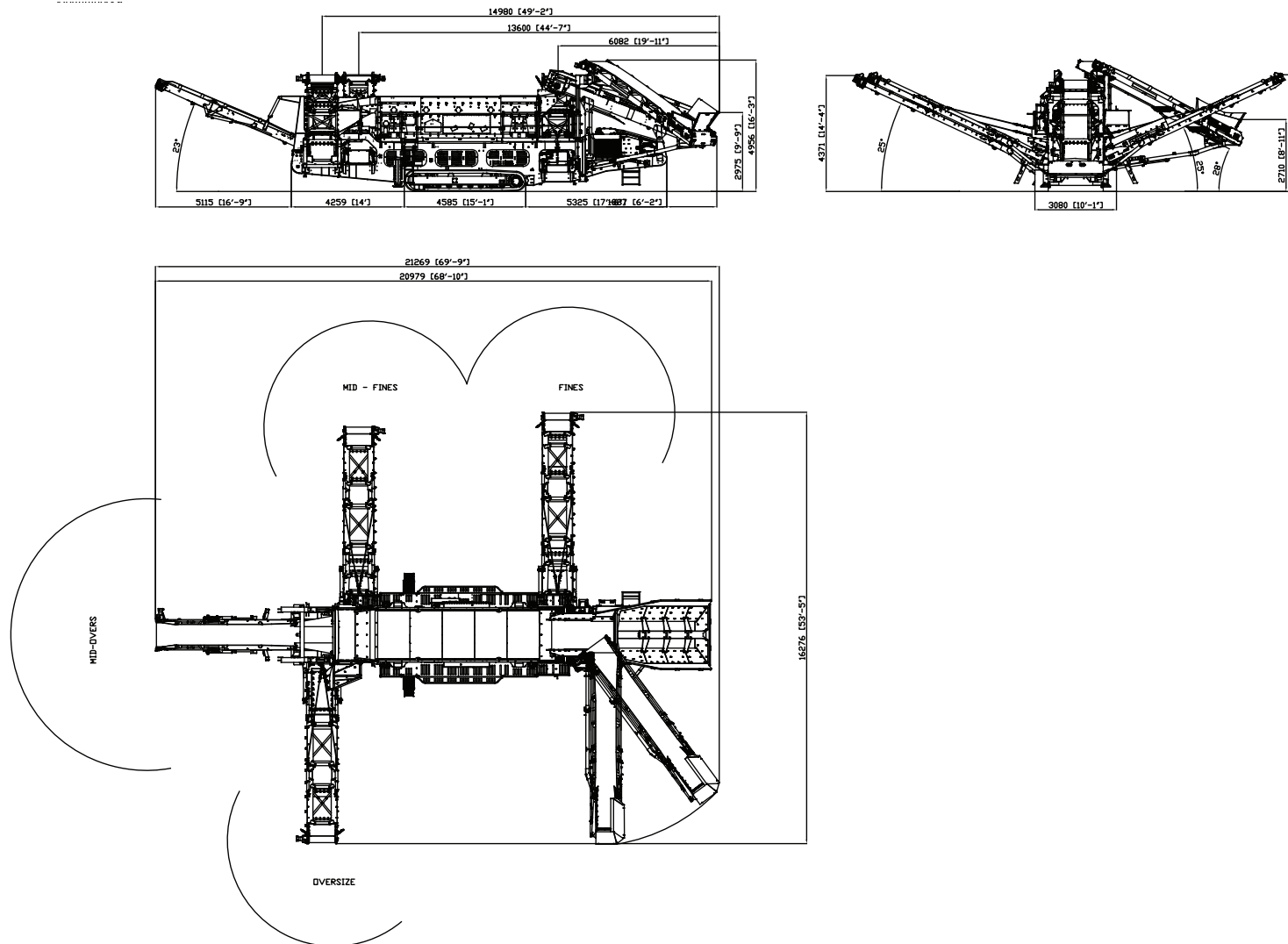


DIMENSIONS

TECHNICAL SPECIFICATION

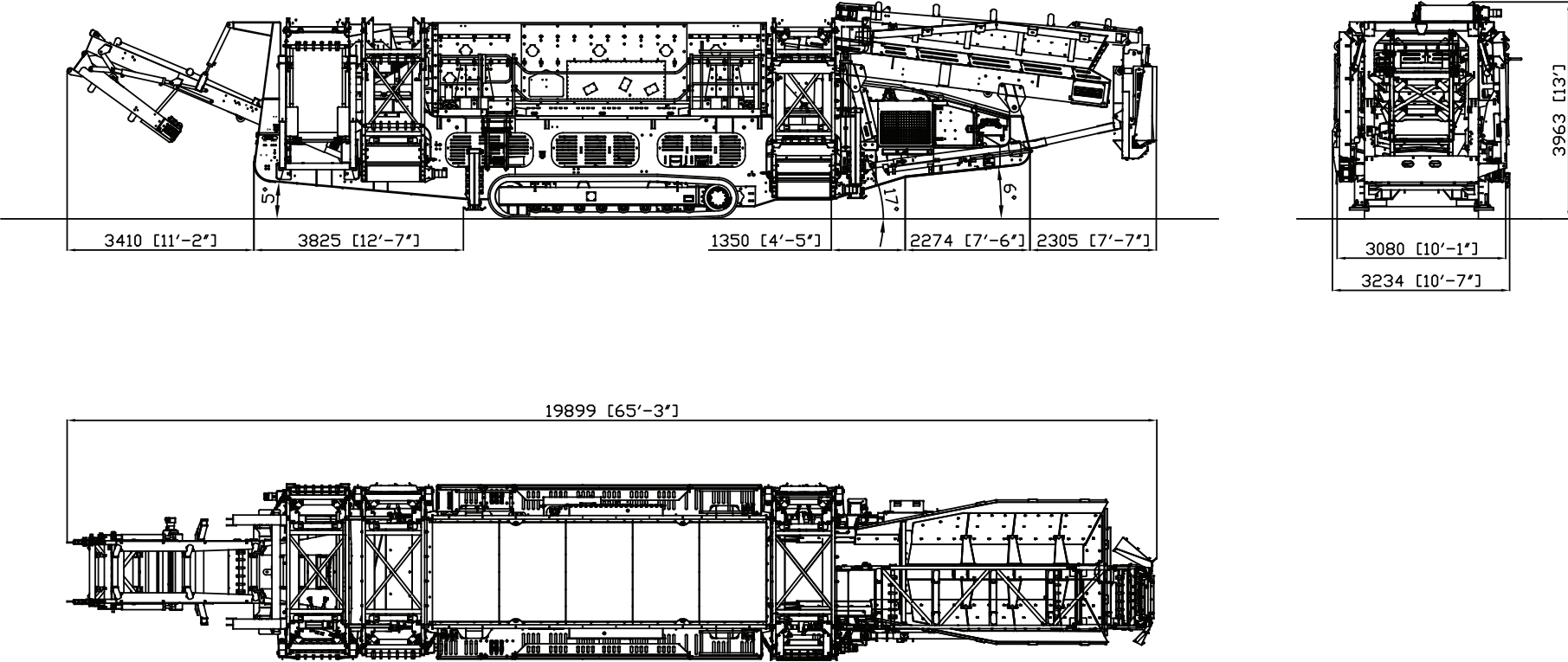


WORKING - WITH HYDRAULIC RECIRC CONVEYOR



DIMENSIONS

TRANSPORT WITH HYDRAULIC RECIRC CONVEYOR





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