Powerscreen® Warrior 1800

2 Deck Heavy Duty Incline Screen

Specification - Rev 6. 06/06/2011



POWERSCREEN®
A TEREX BRAND

Specification

		Three Way Split	Two Way Split
Total weight	Incline Belt	30,000kg (66,200lbs)	27,800kg (61,300lbs)
	Incline Apron	32,500kg (71,650lbs)	30,300kg (66,800lbs)
Transport	Length	15.38m (50' 6")	14.99m (49' 2")
	Width	2.86m (9' 5")	2.86m (9' 5")
	Height	3.39m (11' 2")	3.39m (11' 2")
Operation	Length	14.26m (46' 10")	14.03m (46')
	Width	12.6m (41' 4")	7.74m (25' 5")
	Height	4.55m (14' 11")	4.55m (14' 11")
Screenunit		4.88m x 1.5m (16' x 5')	4.88m x 1.5m (16' x 5')
Powerunit		Diesel / Hydraulic	Diesel / Hydraulic
Plant Colour		RAL 5021	RAL 5021

Features & Benefits

- High capacity up to 600 tph (depending on feed size, mesh size & material type)
- Maximum feed size 600mm
- Suitable for scalping or stockpiling as a 3 way split or 2 way split machine
- Heavy duty inclined hopper & belt feeder belt featuring impact bars & impact rollers
- Hydraulic folding hopper sides & twin drive belt feeder
- Jack up screen facility for access to screen media & collection conveyor
- Unique hydraulic slide out facility on tail conveyor to aid screen media removal
- Heavy-duty aggressive 2 bearing screen box with 10mm stroke (optional 12mm stroke)
- Maximum mobility with heavy duty, low ground pressure crawler tracks
- Quick set up time typically under 15 minutes
- Hydraulically folding conveyors for transport
- Heavy duty crawler tracks, complete with removable pendant remote control system
- High performance hydraulic system

Application

Aggregate

- Sand & gravel
- Blasted rock
- River rock

Recycling

- Top soil
- C&D waste
- Composted materials
- Wood by-products
- Overburden
- Foundry waste

Mining

- Processed ores
- Processed minerals

Abbreviations: T=Track, W=Wheel, Std= Standard, Hyd= Hydraulic, W/O= Without, C/W= Complete with EXT= Extended, DDVG= Double deck vibrating grid, Inc= Including, Aux= Auxiliary, Conv= Conveyor, 3WS= 3 way split, 2WS= 2 way split

All specifications subject to change without prior notice

Hopper

Target area: 4.4m (14’ 5”) long x 2.7m (8’ 10”) wide
Hopper capacity: 6.8m^3 (8.9 cu. yd.)
Feed in height: 4.23m (13’ 10”) (side)
Feed in height: 3.63m (11’ 11”) (rear)
Feed in height: 3.20m (10’ 8”) (collapsed hopper)

Hydraulic folding hopper sides, manufactured from wear resistant steel
Rear wall collapsible for direct feeding
Hydraulic slide & raise facilities for transport



Heavy Duty Feed Conveyor

1300mm (51”) 4 ply heavy duty grade belt
3.43m (11’ 3”) drum centres
Driving speed: 17rpm (20m/s)

Heavy duty impact bars & impact rollers
Heavy duty drive featuring twin gearbox drive
Variable speed control



Screenbox

Heavy Duty 4.8m x 1.5m (16’ x 5’) 2 deck, 2 bearing incline screen with highly aggressive screen drive

Self adjusting belt driven screen drive, increased flexibility over direct drive alternatives, adjustable stroke: 10mm - 12mm (3/8” - 1/2”)

Side tensioned or modular top deck
End tensioned or modular bottom deck
Hydraulic screen angle adjustment 14° - 18°

Jack up screen facility for access to screen media
Galvanised maintenance platforms on both sides of screen
Modular screen suitable for bofor, finger, punch plate and mesh screen media







Underscreen Conveyor

1200mm (48”) wide 3 ply plain belt
3.97m (11’ 9”) drum centres
Accessible via jack up screen facility



Fines - Side Conveyor

900mm (35”) wide 3 ply plain belt (chevron option)
7.07m (23’ 2”) drum centres
3.70m (12’ 2”) stockpile height
76m^3 (99 cu. yd.) stockpile capacity
Impact bars under feedboot area
Wear resistant steel lined feed chute
Variable speed control
Hydraulically folding, angle adjustable 14° - 25°
Operates on separate hydraulic circuit



Midsize - Side Conveyor

900mm (35”) wide 3 ply plain belt (chevron option)
7.07m (23’ 2”) drum centres
3.44m (11’ 3”) stockpile height
61m^3 (80 cu. yd.) stockpile capacity
Impact bars under feedboot area
Wear resistant steel lined feed chute
Variable speed control
Hydraulically folding, angle adjustable 14° - 25°
Removed during 2 way split operation



Oversize - Tail Conveyor

1400mm (55”) wide 4 ply chevron belt
5.15m (16’ 10”) drum centres
3.73 m (12’ 3”) stockpile height 3WS mode
77m^3 (101 cu. yd.) stockpile capacity
3.0m (9’ 10”) stockpile height 2WS mode
40m^3 (52 cu. yd.) stockpile capacity
Hydraulic raise & lower facility
Impact bar/ roller combination
Hydraulic slide out facility to aid screen access
Angle adjustable 10° - 24°
Variable speed control



Powerunit & Hydraulics

Engine:
Caterpillar C4.4 ATAAC - 4 cylinder diesel engine
Includes air filter with integral pre-cleaner & exhaust scavenge system

Performance:
83 kW (111.3hp) @ 2200rpm

Tank Capacities:

Fuel:	336 L (88 US Gal)
Hydraulic Oil:	564 L (149 US Gal)

Pumps:

Flywheel:	Cast iron 46/46/33/33cc/rev quad pump
PTO 'A':	Cast iron 23/23cc/rev tandem

Motors:

Belt feeder:	125cc/rev
Tail conveyor:	Twin drive, Cast iron 800cc/rev
Mid fines side conveyor:	Cast iron 500cc/rev
Under screen:	Cast iron 500cc/rev
Fines conveyor :	Cast iron 500cc/rev
Screen:	Cast iron 101.1
Optional apron feeder:	400cc/rev

Optional Diesel Engine:
Deutz TCD2013 L04 2V - 4 cylinder turbo diesel engine developing 125 kW (168hp) @ 2200rpm







Crawler Track Data

Track width:	500m
Gradeability degrees:	29º
Gearbox Ratio:	1:123
Hydraulic Motor:	85cc/rev
Approximate Speed:	1.0 kph (0.62mph)
Output torque:	32,366 Nm
Flow rate:	101 Lpm



Powerscreen® Warrior 1800 Options

Incline Apron Feeder

1300mm (51”) wide wear resistant feed apron
3.39m (11’ 1”) apron centres
Fitted with single gearbox drive
Variable speed control



2 Way Split Configuration

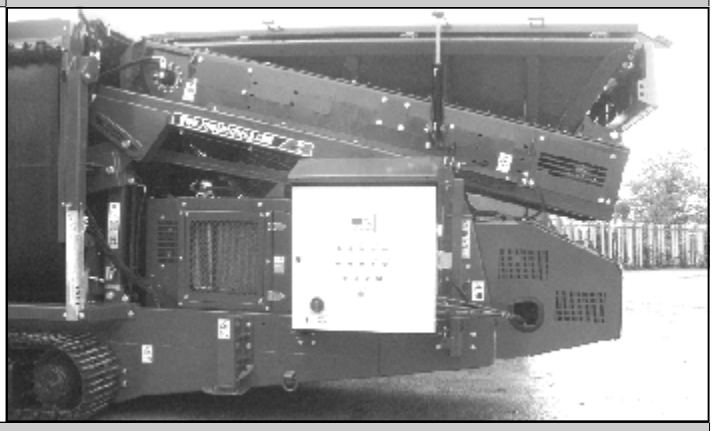
Mid sized side conveyor removed
Machine built as 2 way split
Top deck & bottom deck oversize material fed on to tail conveyor



Dual Power

Dual Power System:
2 of electric motors: 37 kW (50hp) & 37 kW (50hp)
Diesel engine
Integrated control system

This controls either diesel-hydraulic or electric-hydraulic functions



Other Options

Different coloured machine
Side conveyor telescopic hydraulic extensions
Chevron side conveyor belts
Optional engine
Auto lubrication system
Radio controlled tracking

Other Media Options

Top Deck

Grizzly / bofar deck
Finger screens
Punch plate: mild steel or wear resistant steel
Screen mesh: standard, heavy duty or welded

Bottom Deck

Finger screens
Punch plate: mild steel or wear resistant steel
Screen mesh: standard, heavy duty or welded

All specifications subject to change without prior notice

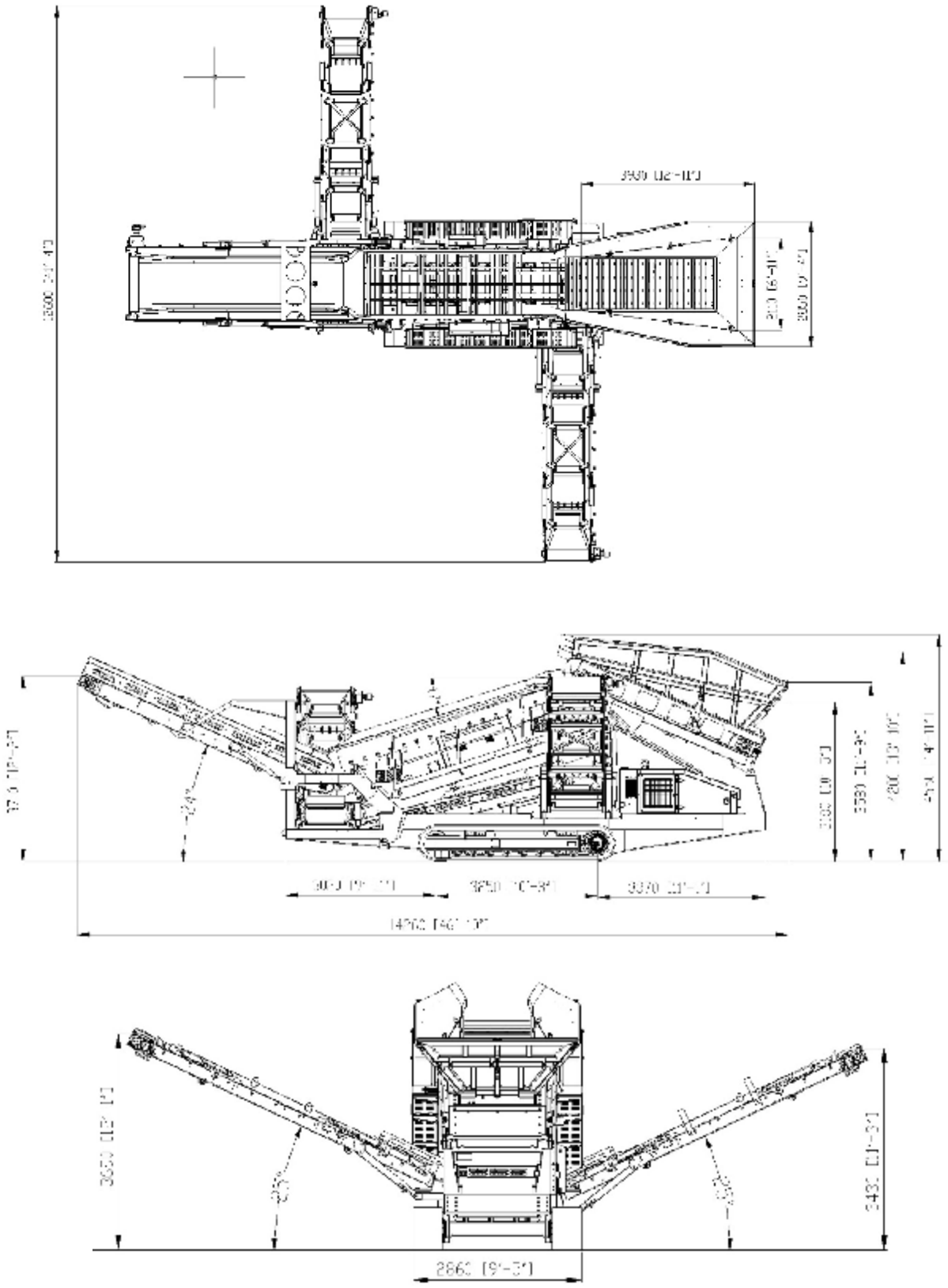
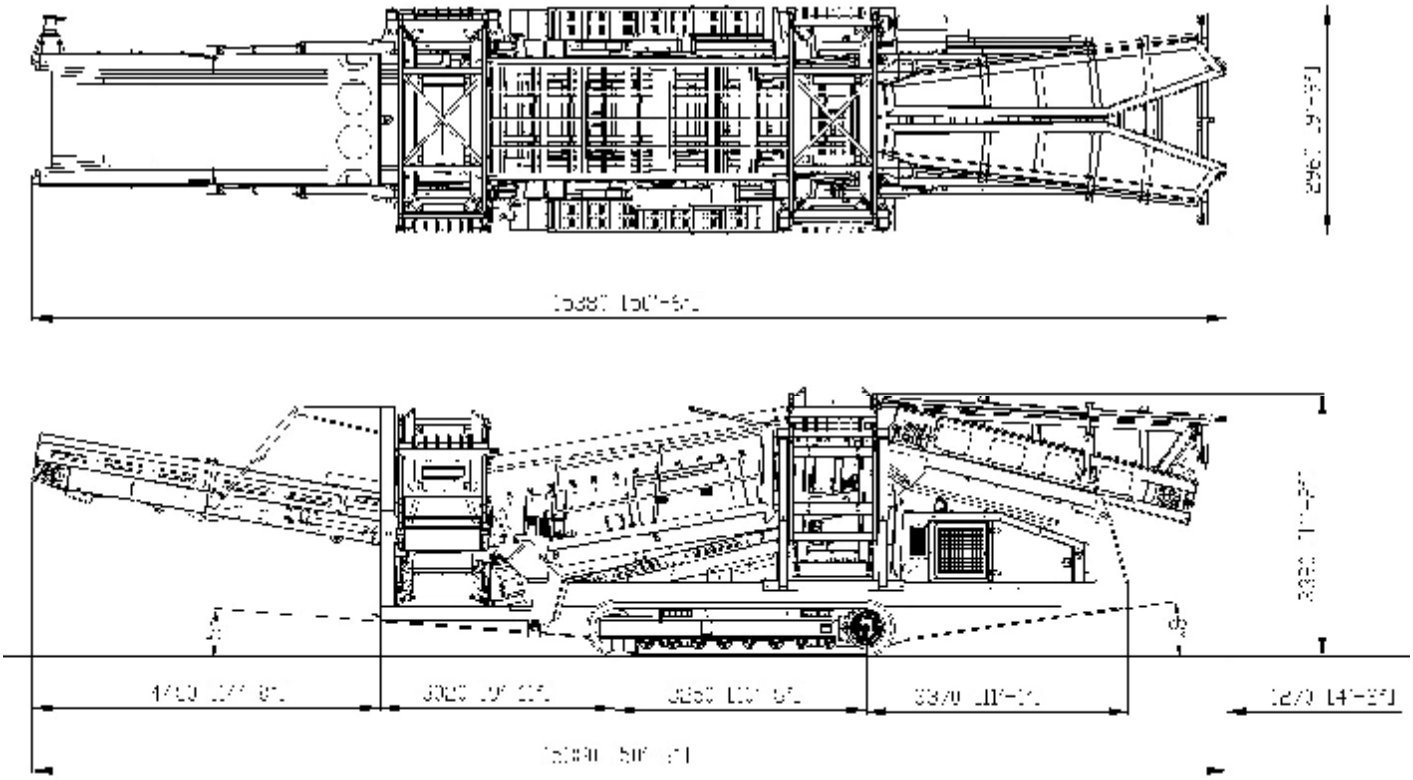


Figure 1: Warrior 1800 2 Deck Track
3 Way Split
Working Position

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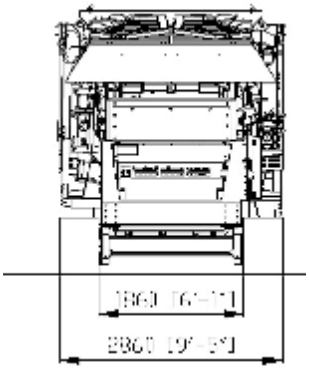


Figure 2: Warrior 1800 2 Deck Track
3 Way Split
Transport Position

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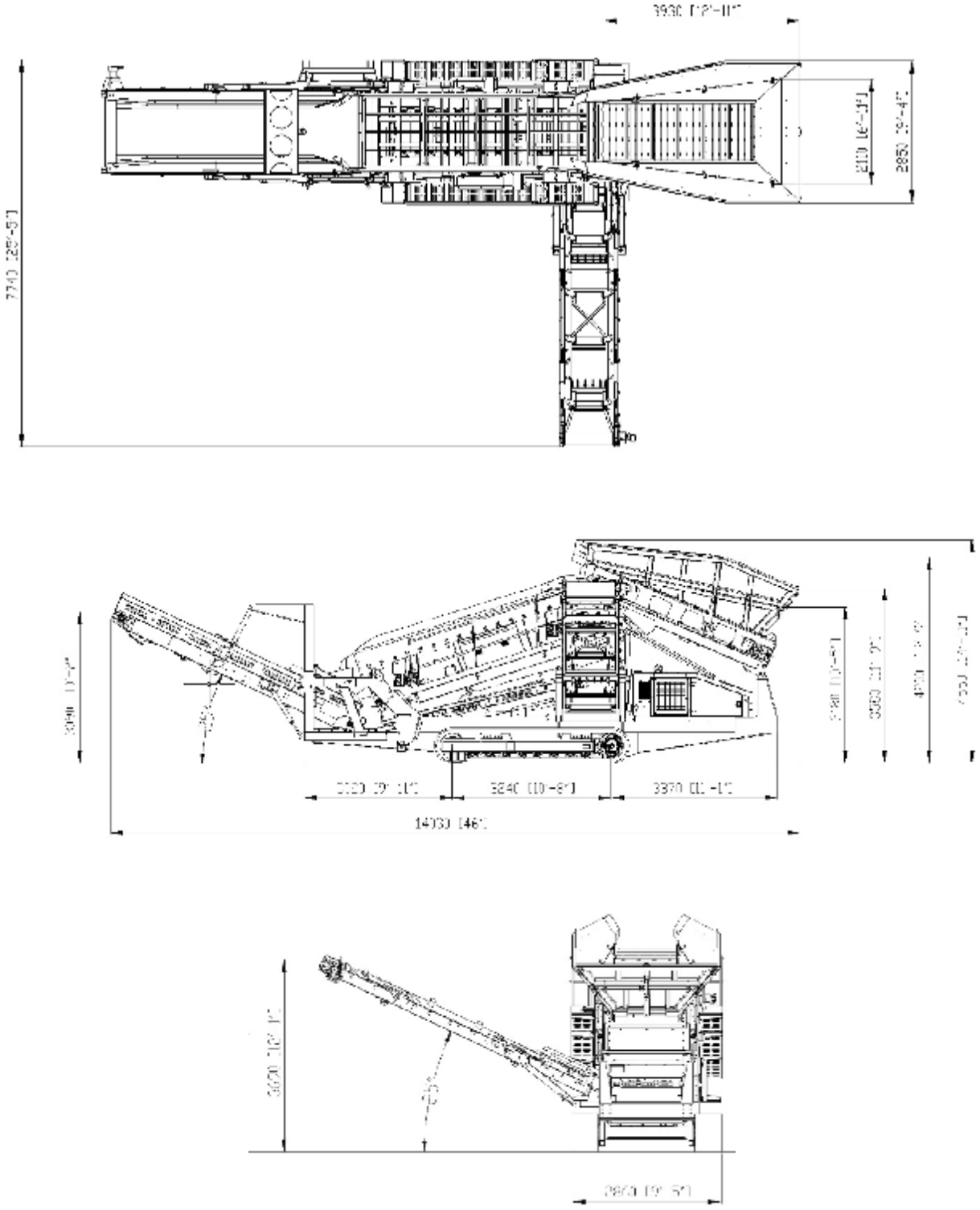


Figure 3: Warrior 1800 2 Deck Track
2 Way Split
Working Position

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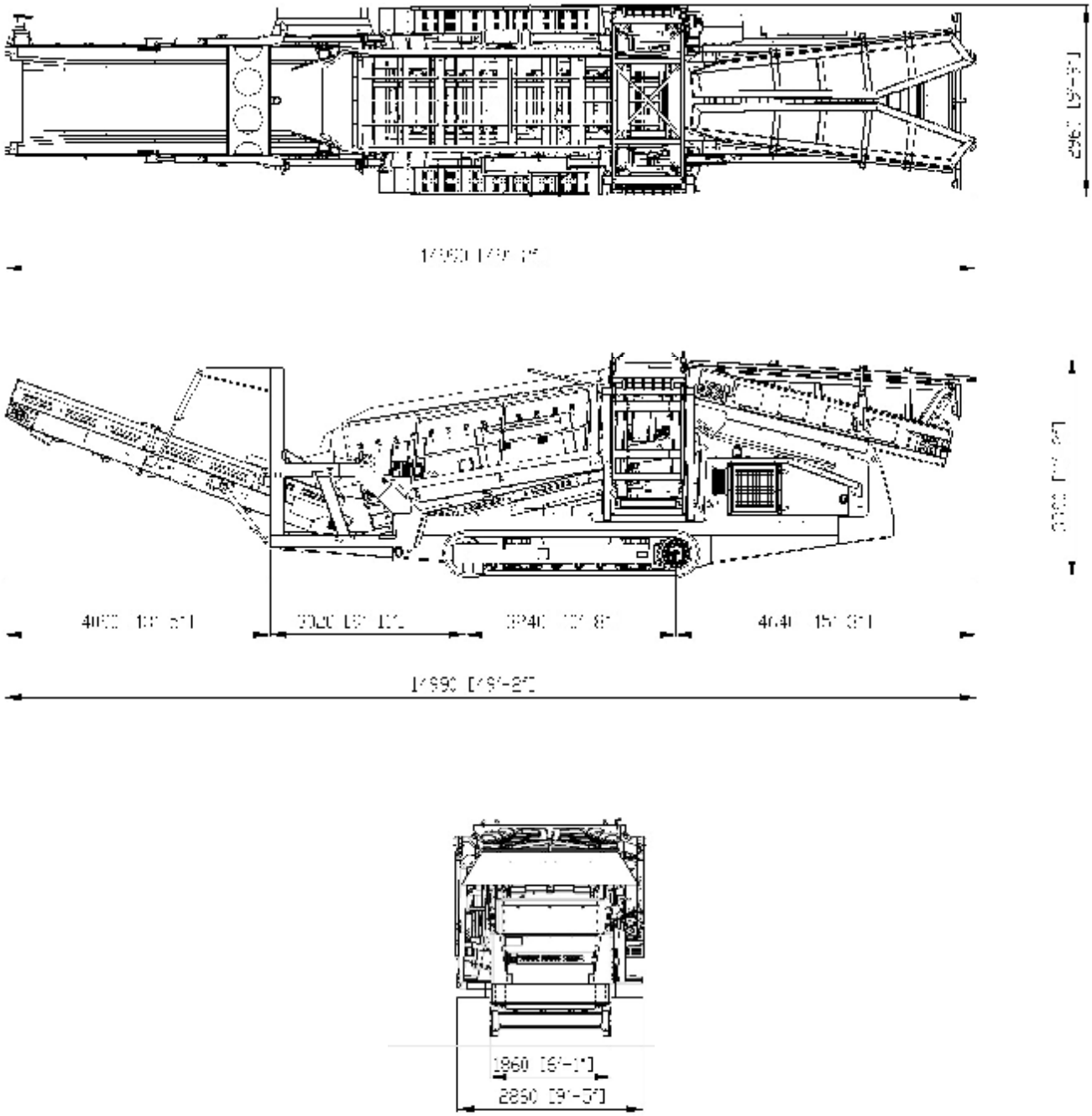


Figure 4: Warrior 1800 2 Deck Track
2 Way Split
Transport Position

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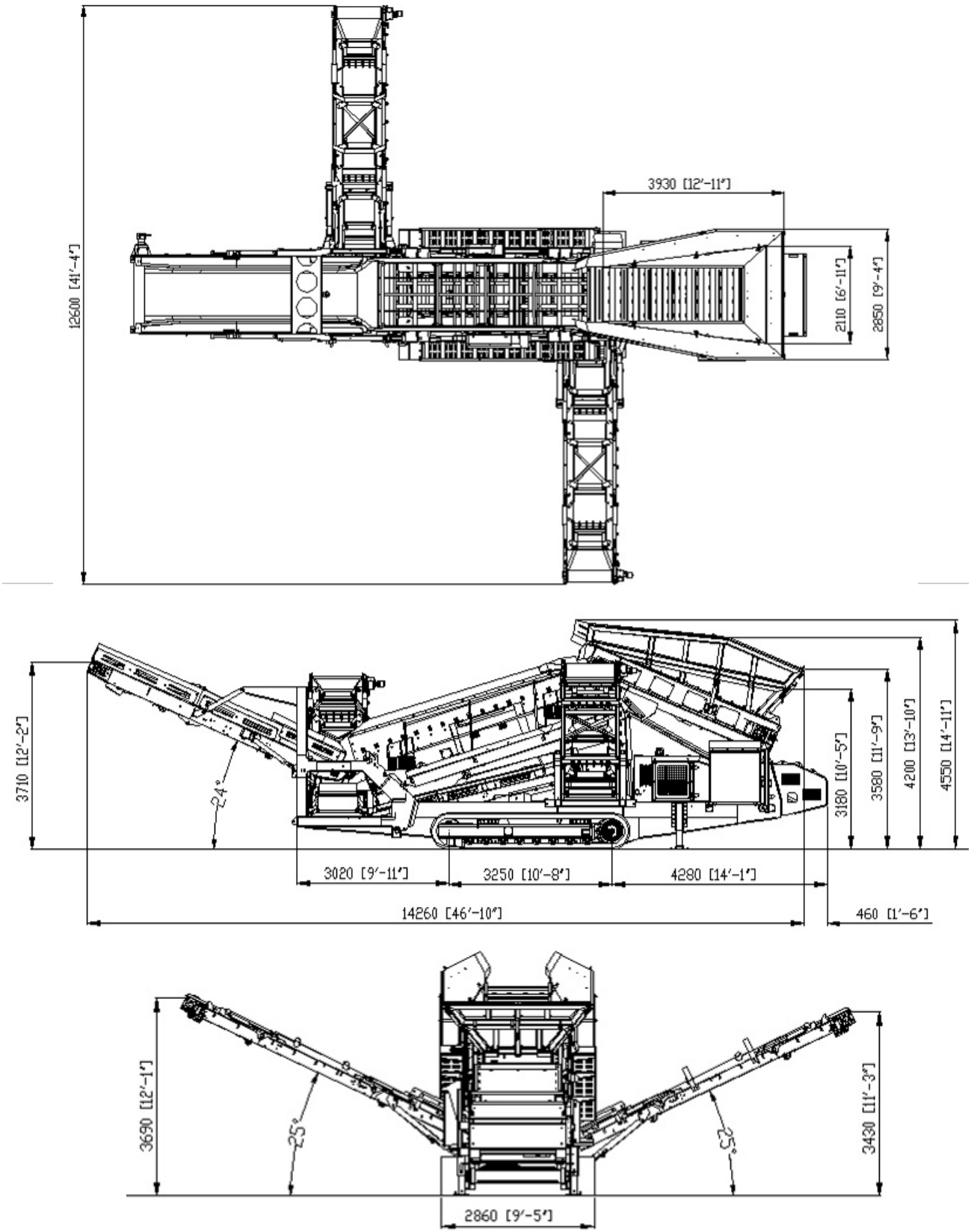
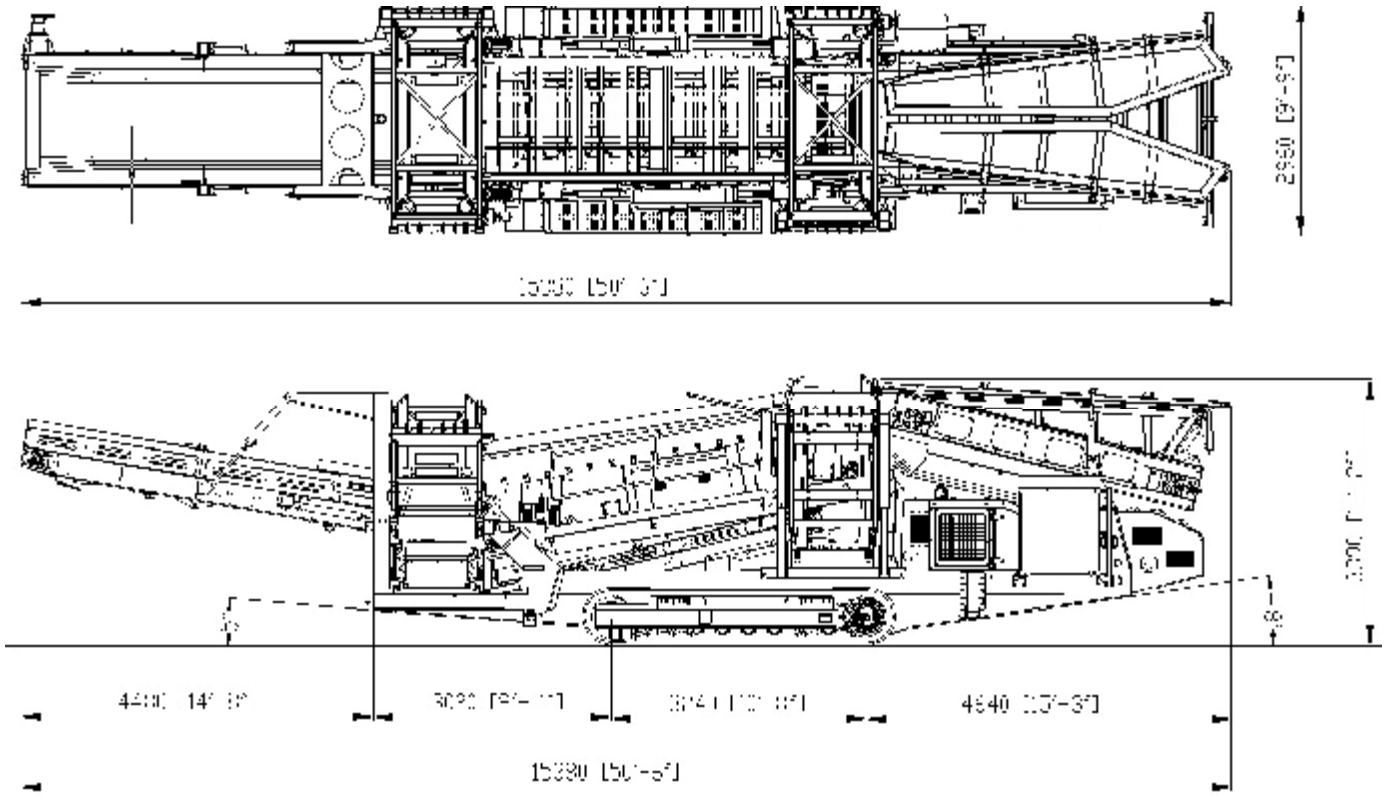


Figure 5: Warrior 1800 2 Deck Track
3 Way Split
Dual Power
Working Position

All specifications subject to change without prior notice



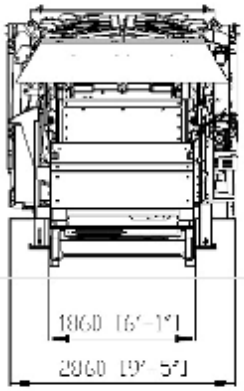


Figure 6: Warrior 1800 2 Deck Track
3 Way Split
Dual Power
Transport Position

All specifications subject to change without prior notice

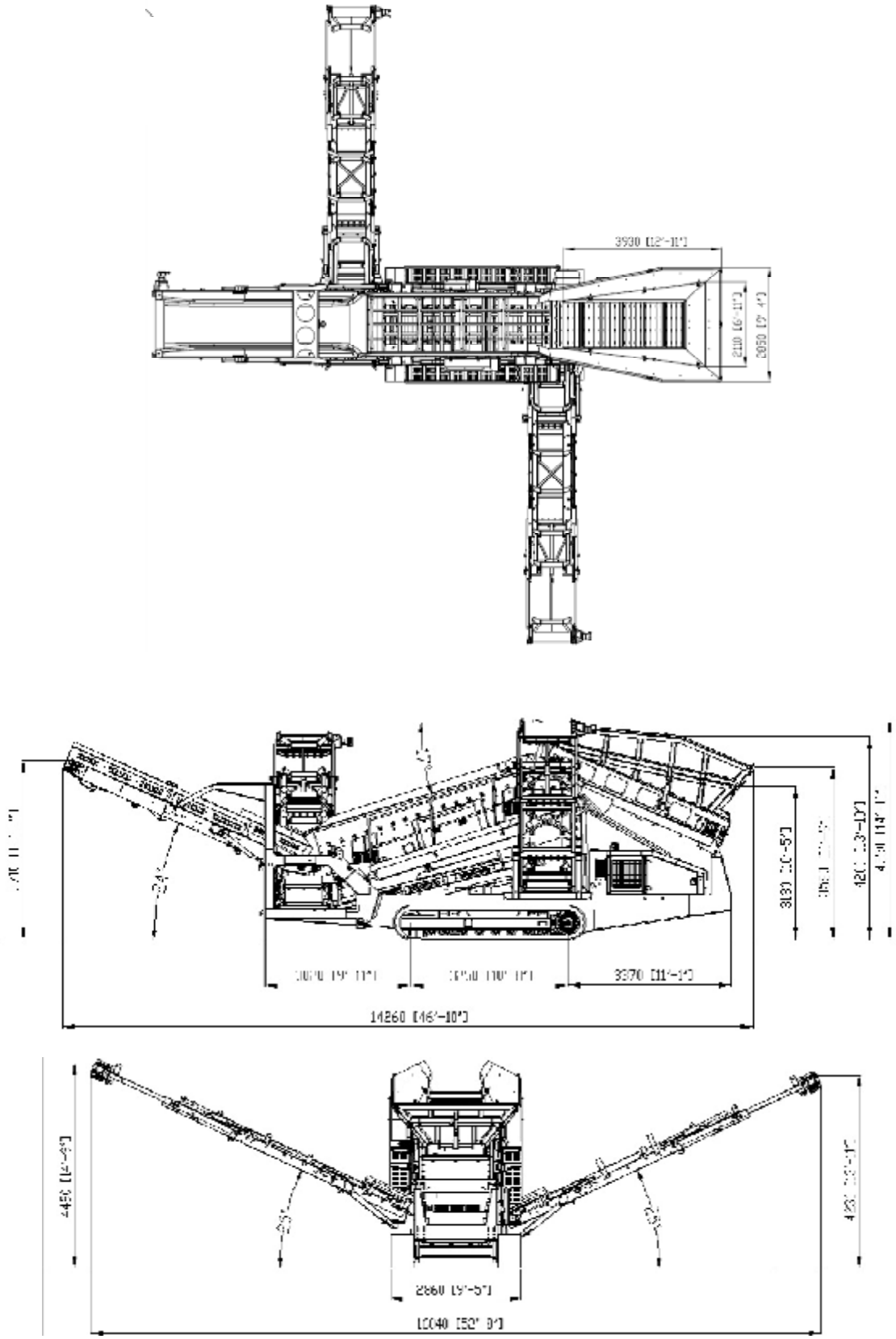
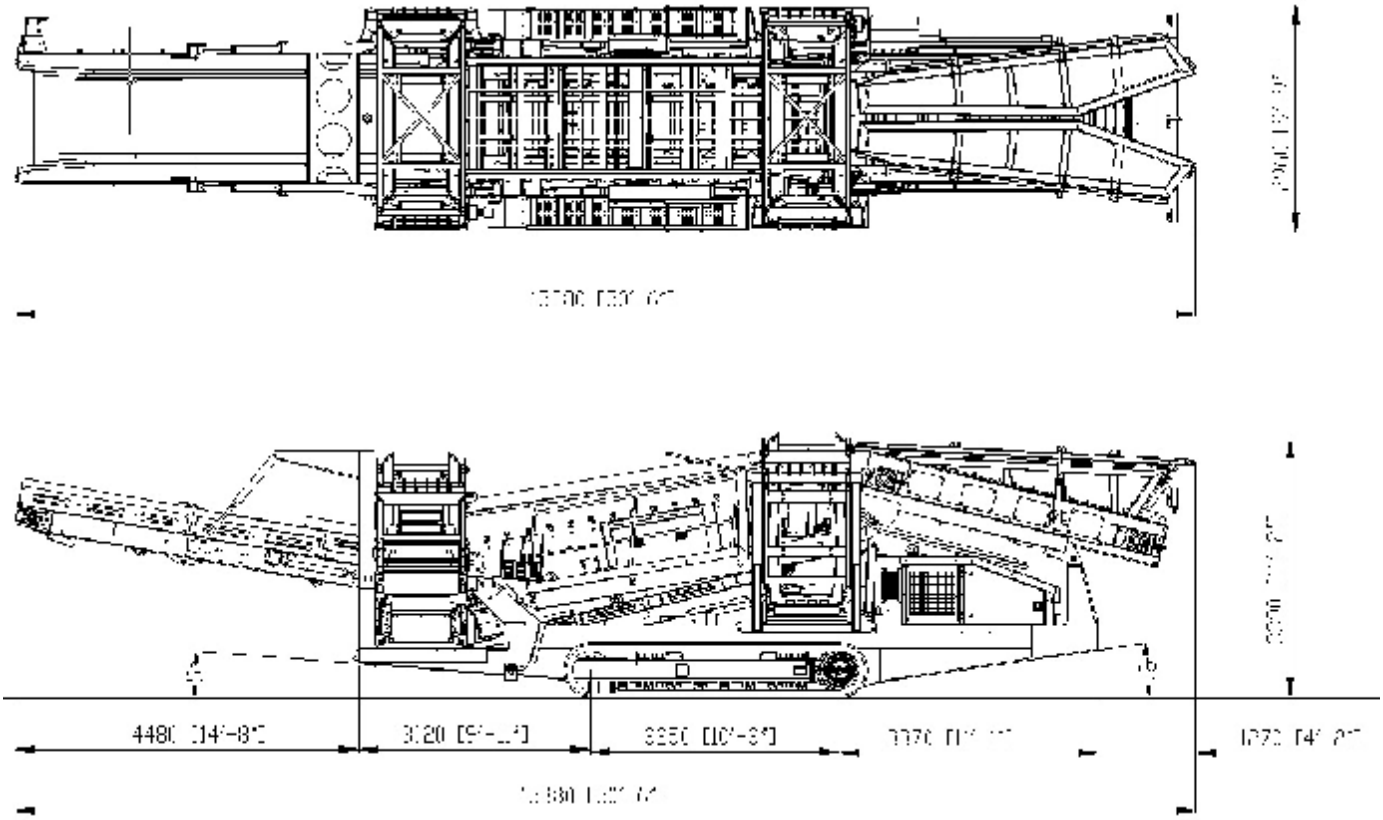


Figure 7: Warrior 1800 2 Deck Track
3 Way Split
Telescopic Side Conveyors
Working Position

All specifications subject to change without prior notice



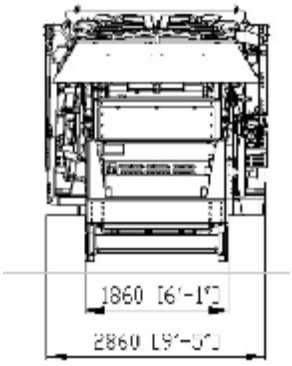


Figure 8: Warrior 1800 2 Deck Track
3 Way Split
Telescopic Side Conveyors
Transport Position

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Powerscreen equipment complies with CE requirements.

Please consult Powerscreen if you have any other specific requirements in respect of guarding, noise or vibration levels, dust emissions, or any other factors relevant to health and safety measures or environmental protection needs. On receipt of specific requests, we will endeavour to ascertain the need for additional equipment and, if appropriate, quote extra to contract prices.

All reasonable steps have been taken to ensure the accuracy of this publication, however due to a policy of continual product development we reserve the right to change specifications without notice.

It is the importers' responsibility to check that all equipment supplied complies with local legislation regulatory requirements.

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