

*Chieftain 2100X 3 Deck  
Technical Specification*



**INTRODUCING THE  
CHIEFTAIN 2100X / 3 DECK  
TECHNICAL SPECIFICATION**



All specifications subject to change without prior notice.

# Chieftain 2100X 3 Deck Technical Specification

## FEATURES

- Total weight 37,200kg (41 US ton)
- Total weight (Vibrating grid) 39,450kg (44 US ton)
- Length (transport) 12FT 17.4m (57'-1")
- Width (transport) 3.00m (9'-10")
- Height (transport) 3.45m (11'-4")
- Hopper capacity 8.0m<sup>3</sup>
- Screenunit 3 deck, oil filled, 2 bearing system  
Top & middle deck - 6.1m x 1.55m (20' x 5')  
Bottom deck - 5.55m x 1.5m (18'x 5')
- Powerunit 97kW (130HP) @ 2200rpm.

## ADVANTAGES



- High capacity up to -500 TPH, (depending on mesh sizes and material type).
- Quick set up time typically under 15 minutes.
- Maximum mobility with heavy duty, low ground pressure crawler tracks.
- Optional tri-axle bogie system allows the track machine to be transported without the need for a low loader.
- Removable heavy duty pendant remote control system.
- Optional radio control system available if required at extra cost.
- High performance hydraulic system – Cast iron pumps and motors c/w hydraulic oil cooler.
- Angle adjustable tipping grid with radio control double acting tipping grid rams.
- Low profile Single and double deck Vibrating Grid option with remote control tipping. Angle adjustable and fully riveted construction.

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## ***APPLICATIONS***

- Sand and gravel
- Topsoil
- Coal
- Crushed stone
- Recycling
- Iron Ore

## ***Hopper & Grid:***



- Adjustable angle tipping grid with integral loading and wing plates
- Grid opening 3.57m x 1.8m (11'-9" x 5'-11")
- Grid aperture: 102mm (4")
- Target area: 4.3 x 1.8m (14'-1" x 5'-11")
- Hopper capacity: 8.0m<sup>3</sup>

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## **Screenunit:**



3 deck, oil filled, 2 bearing system, Top and Middle decks 6.1m x 1.55m (20' x 5'), Bottom Deck 5.55m x 1.5m (18'x5')

## **Feed Conveyor:**

1200mm (48") wide direct feed conveyor with direct drive system & hydraulic variable speed control

## **Main Conveyor:**



1050mm (42") wide hydraulically adjustable conveyor, fully skirted & sealed to prevent spillage.

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## *Tail Conveyor:*



- 1200mm (48") wide hydraulically folding tail conveyor
- 4.28m (14') stockpile height @ 24 degrees. (Measured to drum centre)
- 5.0m (16' – 5") stockpile height @ 30 degrees. (Measured to drum centre)

## *Side Conveyors:*



- 800mm (32") wide, hydraulically folding side conveyors with individual, variable speed control:
- 5.04m (16' – 6") stockpile height. (Measured to drum centre)



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## Auxiliary Conveyor:



- 650mm (26") wide hydraulically folding auxiliary conveyor
- 4.4m (14' - 5") stockpile height. (Measured to drum centre)
- Patent Pending

## Powerunit & Hydraulics:



- Standard Diesel engine: developing 97kW (130Hp) @ 2200rpm.
- Optional Diesel engine: developing 125kW (168Hp) @ 2200rpm
- Flywheel pump1: 63cc/rev and 33cc/rev and 33cc/rev
- PTO pump1: 23cc/rev each circuit
- PTO pump2: 14cc/rev
- Feeder Motor: 160cc/rev
- Main conveyor Motor: 500cc/rev
- Tail Conveyor Motor: 800cc/rev
- Side Conveyor Motor: 400cc/rev

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- Screen Motor: 80cc/rev

## Tank Capacities:



Hydraulic tank: 564 L (124 Gal)  
Diesel tank: 336 L (74 Gal)

## Crawler Track Data:



Tractive Effort = 24260.12 daN  
Gradability Percentage = 58.74%  
Gearbox Ratio = 1:153  
Hydraulic Motor = 90 cc/rev  
Approximate Speed = 0.61 Km/hr (0.61 Mph)

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## **3 Deck Rinser Option**

### **Catch box :**



Hydraulically hinged, making mesh changing easier  
1/3-2/3 fixed division plate  
10" outlet  
Single or Double grade catch box with option rubber lining

### **Wash box:**



Adjustable 5 nozzle spray bar.  
Feed Conveyor Belt Scraper  
Steel wear Plate



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## *Screen box:*



23 steel spray bars split into 8 bars per deck (7 on bottom deck).  
All decks have brass nozzles Alternating between 8 & 7 per bar to give full spray coverage

## *Vibrating Grid Option*



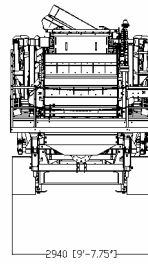
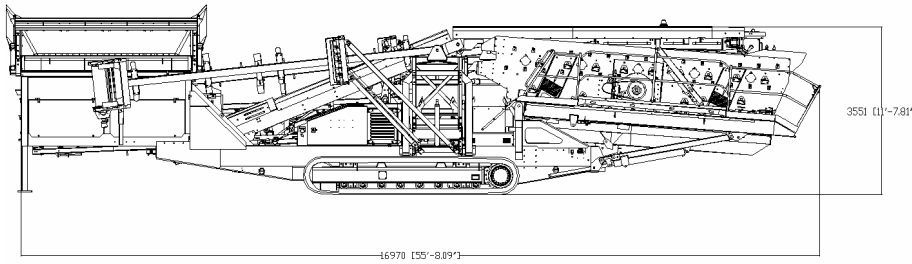
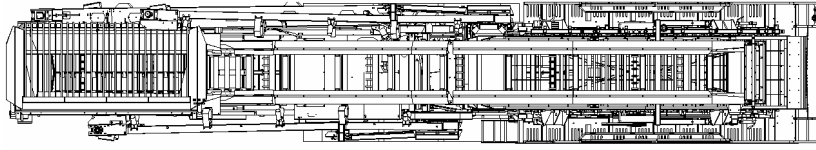
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|-------------------|-----------------------------------|
| Screen size:      | 3.05m x 2.14m (10' x 7').         |
| Working angle:    | 10° to 20° adjustable.            |
| Tip angle:        | 45° maximum.                      |
| Motor:            | 58.7cc/rev                        |
| Circuit:          | Coupled to main conveyor circuit. |
| Transport height: | 3.55m                             |

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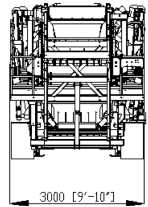
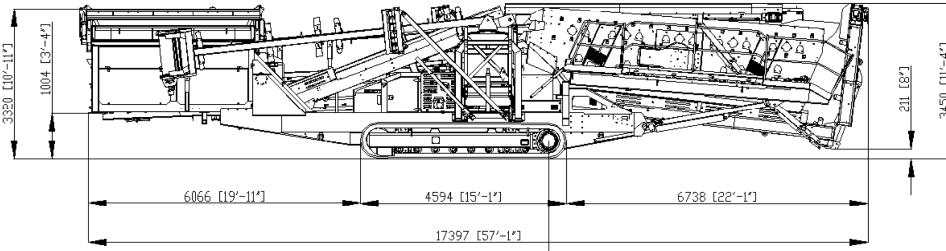
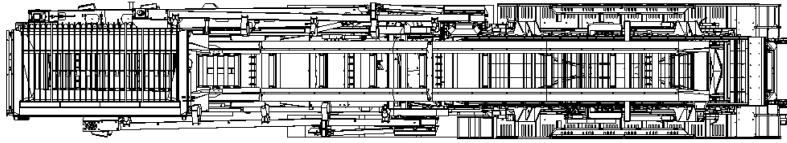
## *Options*

Hydraulic screen tensioning  
12ft or 14ft hopper  
Single or Double deck vibrating grizzly  
Shredder  
4<sup>th</sup> Recirculation conveyor attached for transport  
Radio control tracking  
Wheel bogie for track machine  
Hydraulic jacking legs  
Rinser

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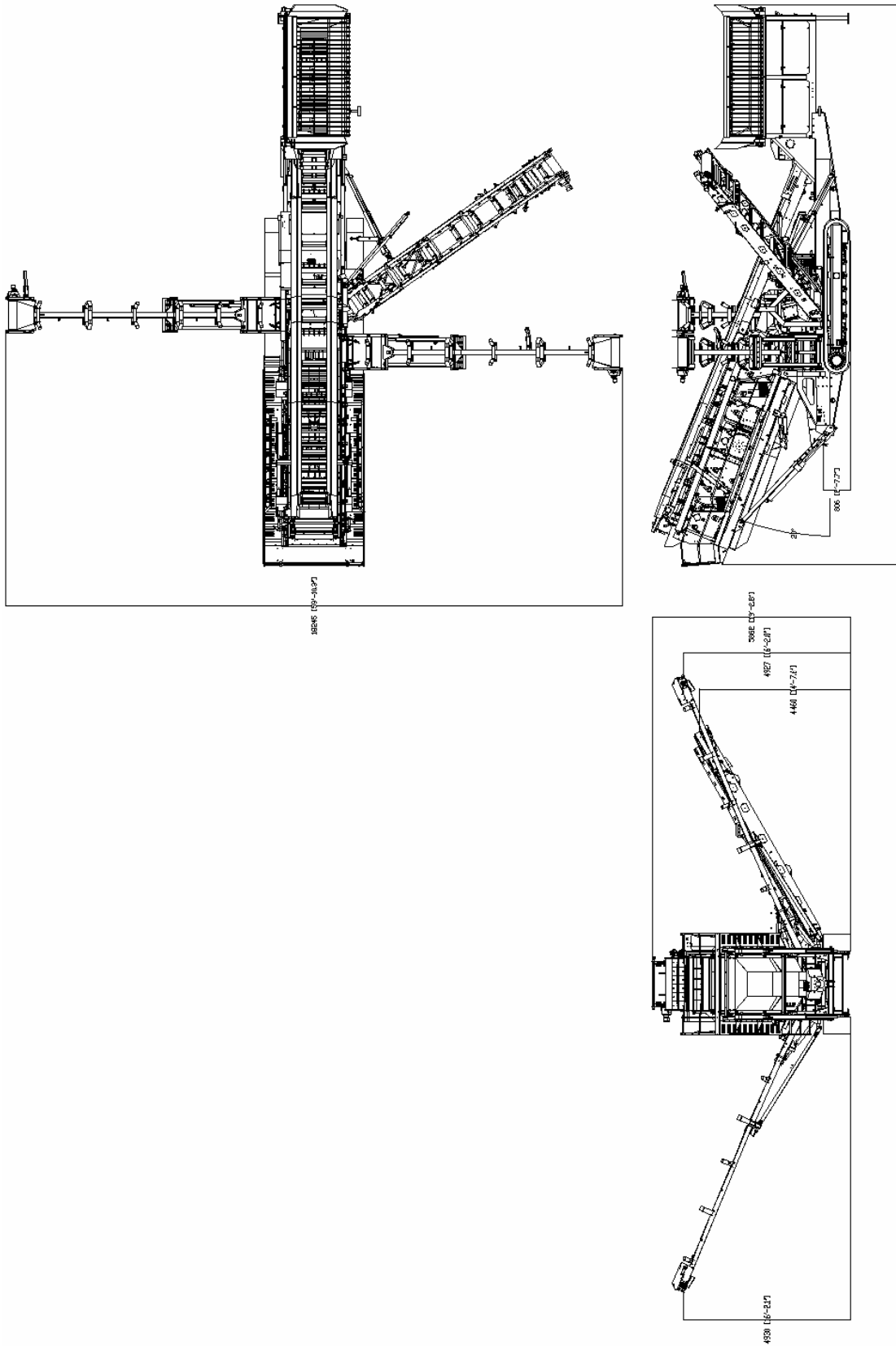
**CHIEFTAIN 2100X RINSER- TRANSPORT DIMENSIONS**



**CHIEFTAIN 2100X DRY- TRANSPORT DIMENSIONS**

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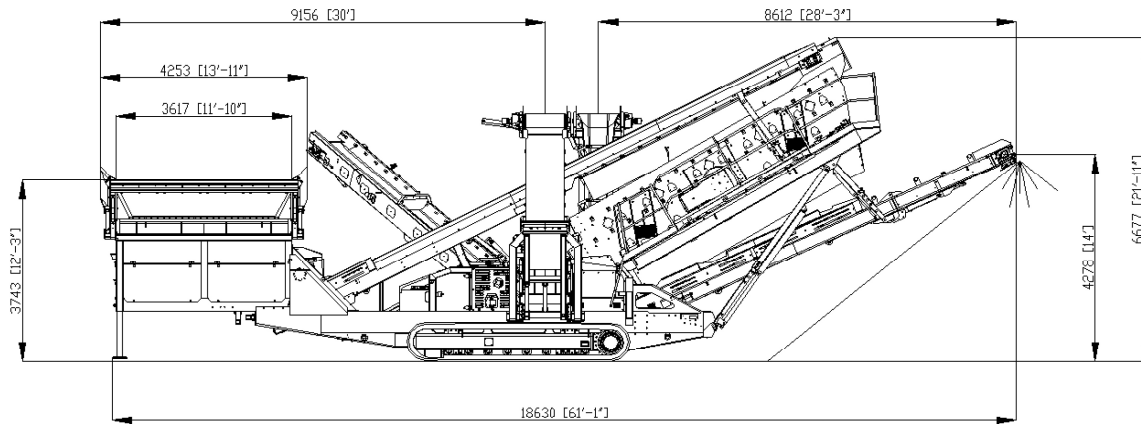


**CHIEFTAIN 2100X RINSER – WORKING DIMENSIONS**

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# Chieftain 2100X 3 Deck Technical Specification



## CHIEFTAIN 2100X DRY – WORKING DIMENSIONS

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