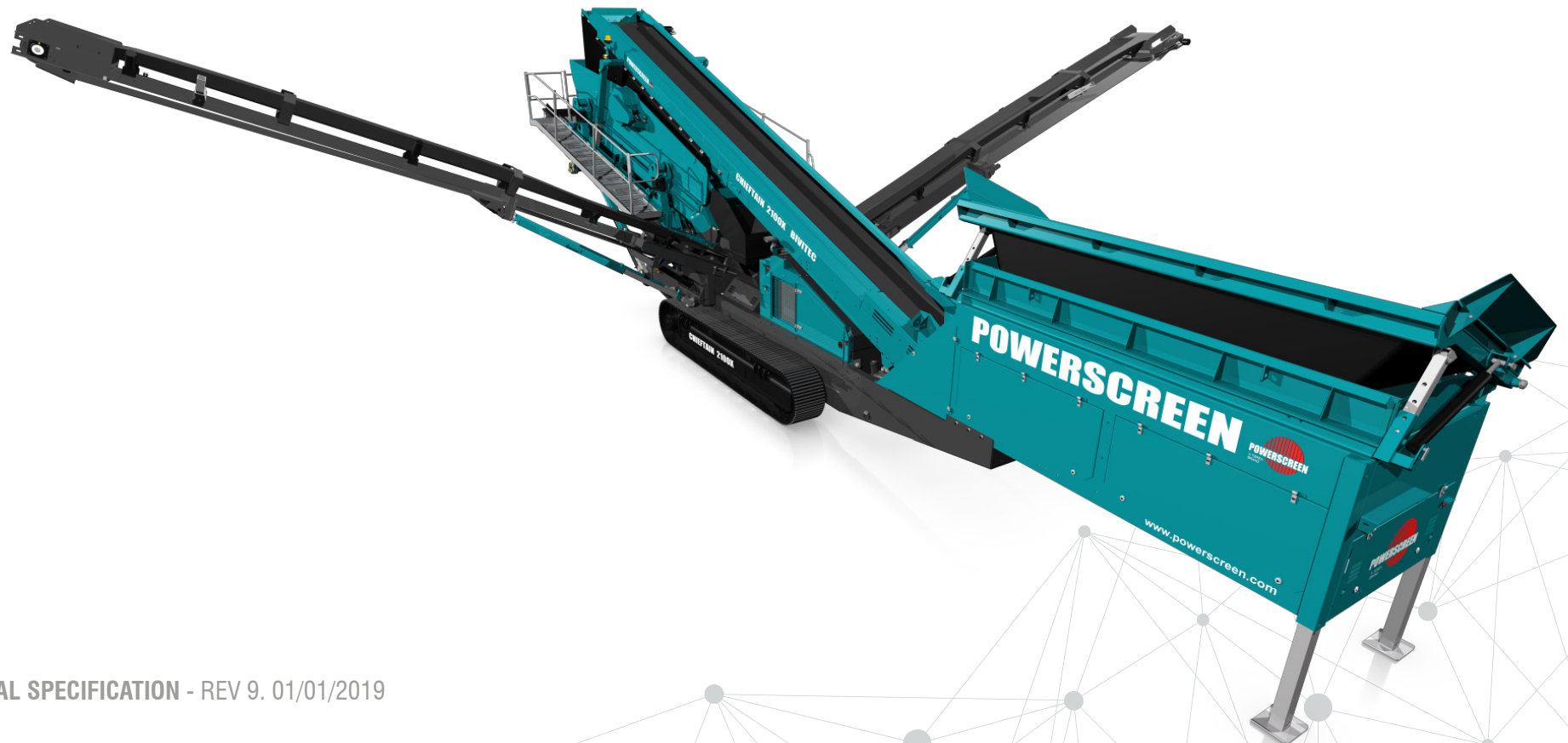


POWERSCREEN® CHIEFTAIN 2100X BIVITEC

2 DECK INCLINE SCREEN



TECHNICAL SPECIFICATION - REV 9. 01/01/2019





CHIEFTAIN 2100X BIVITEC



OVERVIEW

SPECIFICATION

	14ft Hopper (with grid) track	14ft Hopper (with double deck vibrating grid) track
Total weight	35,500kg (78,264lbs)	39,250kg (86,531lbs)
Transport	Length 18.7m (62' 4")	18.59m (61' 11")
	Width 2.98m (9' 11")	2.98m (9' 11")
	Height 3.57m (11' 11")	3.57m (11' 11")
Working	Length 19.57m (65' 3")	19.44m (64' 9")
	Width 18.25m (60' 10")	18.25m (60' 10")
	Height 5.98m (19' 11")	5.98m (19' 11")
Screenbox	5.88m x 1.55m (19' x 5')	5.88m x 1.55m (19' x 5')
Power Unit	Diesel / Hydraulic	Diesel / Hydraulic
Plant Colour	RAL 5021, RAL 7024 & RAL 9005	RAL 5021, RAL 7024 & RAL 9005

(Weights & dimensions are approximate base unit values)

FEATURES & BENEFITS

- High capacity up to 400 tph / 441 US tph (depending on media sizes & material type)
- Maximum feed size 150mm (6")
- Engine protection shutdown system
- Power unit featuring a transverse engine arrangement to aid access & serviceability
- BIVITEC dual vibration screening system on both decks
- Screen media access system for quicker media changes
- Maximum mobility with heavy duty, low ground pressure tracks
- Removable heavy duty pendant remote control system
- Quick set up time
- High performance hydraulic system - cast iron pumps & motors complete with hydraulic cooler
- Low profile double deck vibrating grid option with radio remote control tipping grid, angle adjustable & fully riveted construction
- Hydraulically folding conveyors for transport
- Fines conveyor drop down facility to aid bottom deck mesh access

APPLICATIONS



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



CHIEFTAIN 2100X BIVITEC



↓ HOPPER & GRID

Target area: 4.75m (15' 7") long x 2.15m (7' 1") wide
Grid aperture: 108mm (4.3")

Hopper capacity: 7m³ (9.15 cu. yd.)
Adjustable angle tipping grid with integral loading & wing plates
Feed in height with grid: 3.7m (12' 2") (rear)
Feed in height without grid: 2.65m (8' 8") (rear)





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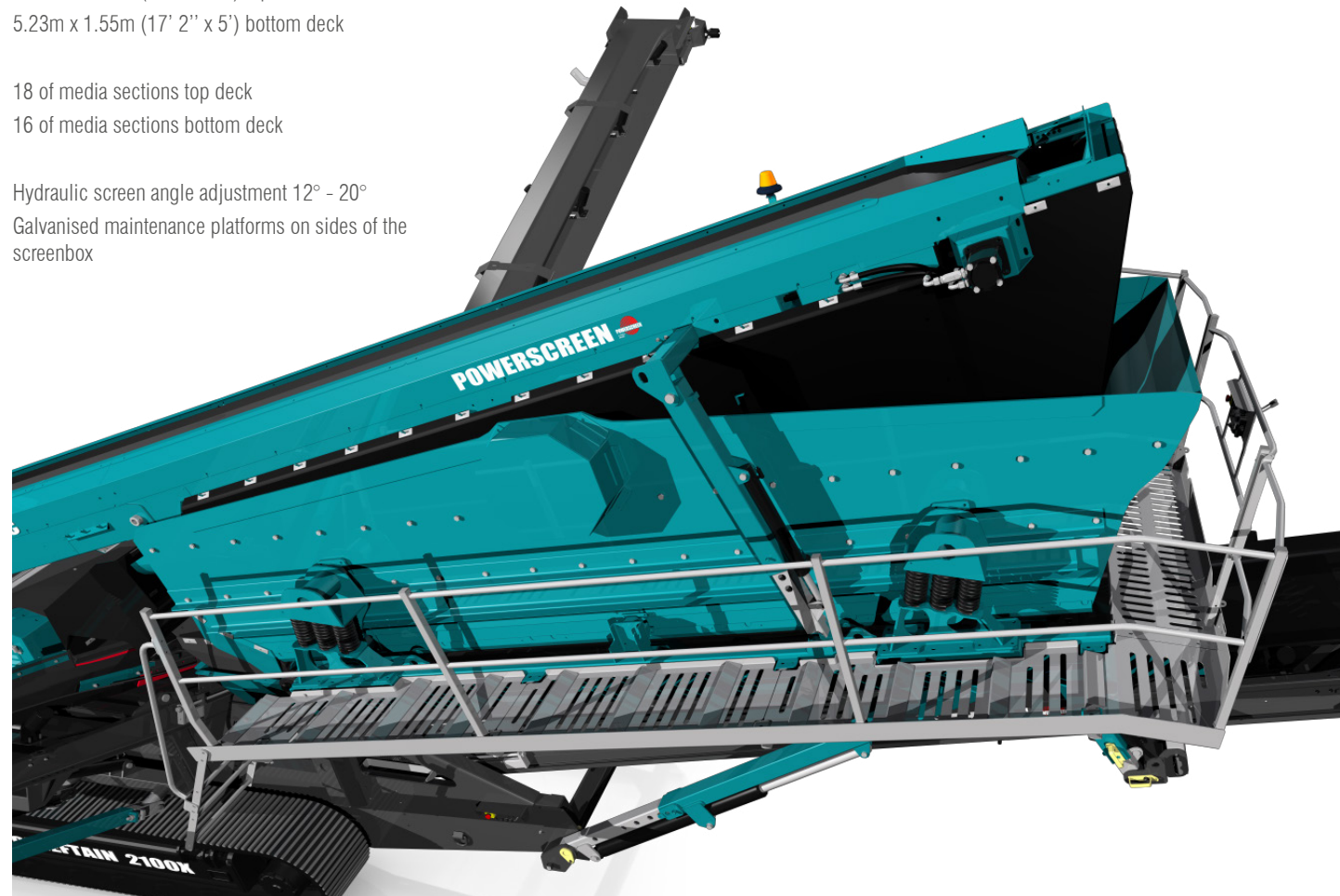
↓ SCREENBOX

5.88m x 1.55m (19' 3" x 5') 2 deck incline screen
Highly aggressive screen action
Grease filled 2 bearing screenbox

5.88m x 1.55m (19' 3" x 5') top deck
5.23m x 1.55m (17' 2" x 5') bottom deck

18 of media sections top deck
16 of media sections bottom deck

Hydraulic screen angle adjustment 12° - 20°
Galvanised maintenance platforms on sides of the screenbox





CHIEFTAIN 2100X BIVITEC



↓ CONVEYORS

FEED CONVEYOR

1200mm (3' 11") wide feed conveyor with direct drive system & hydraulic variable speed control

4.11m (13' 6") drum centres

350mm (13.7") drum diameter (drive)

320mm (12.6") drum diameter (tail)

MAIN CONVEYOR

1050mm (3' 5") 3 ply plain belt

12.09m (39' 8") drum centres

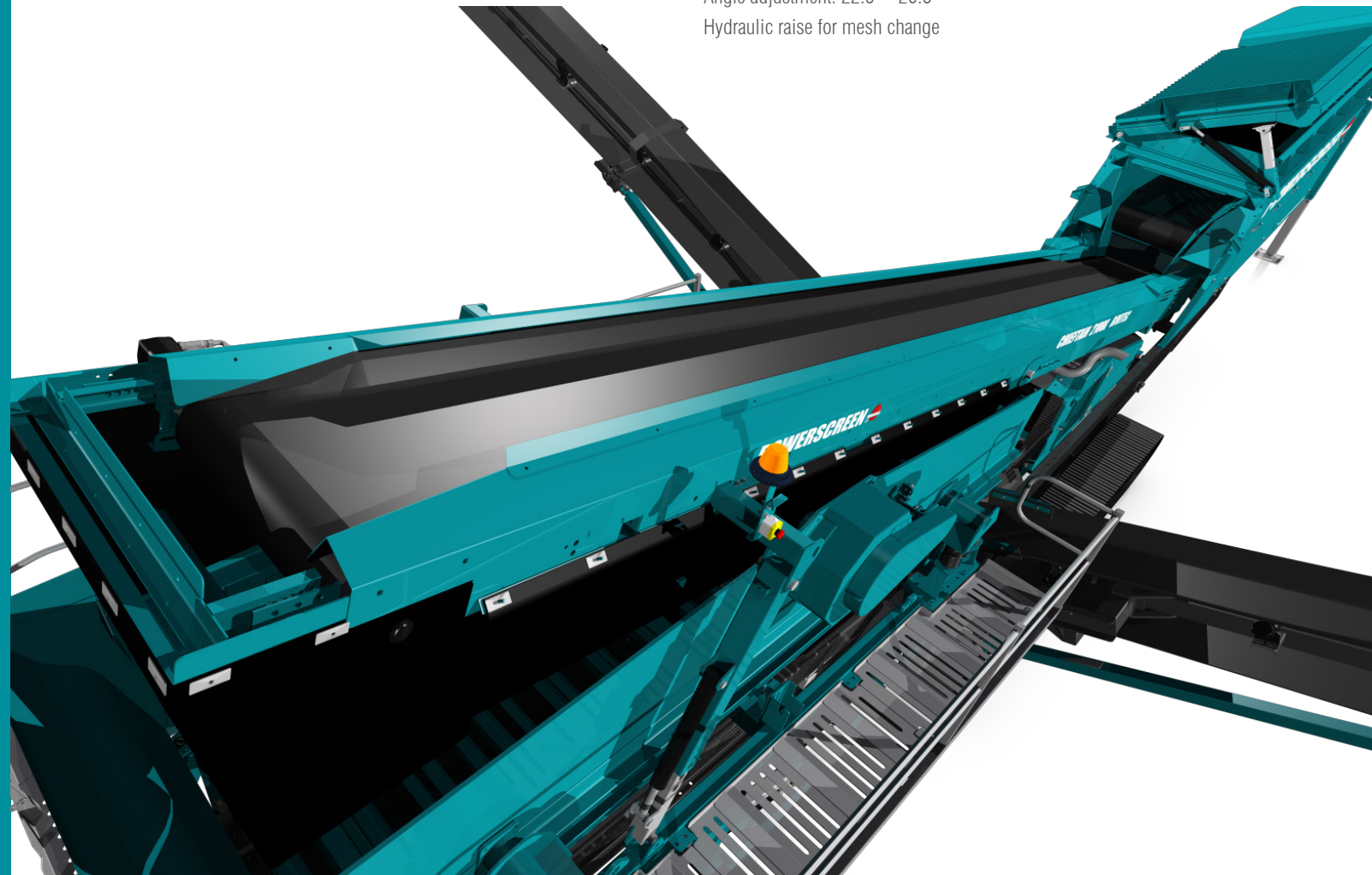
286mm (11.3") drum diameter (drive)

270mm (10.6") drum diameter (tail)

Hydraulically adjustable conveyor, fully skirted & sealed

Angle adjustment: 22.5° - 26.5°

Hydraulic raise for mesh change





CHIEFTAIN 2100X BIVITEC



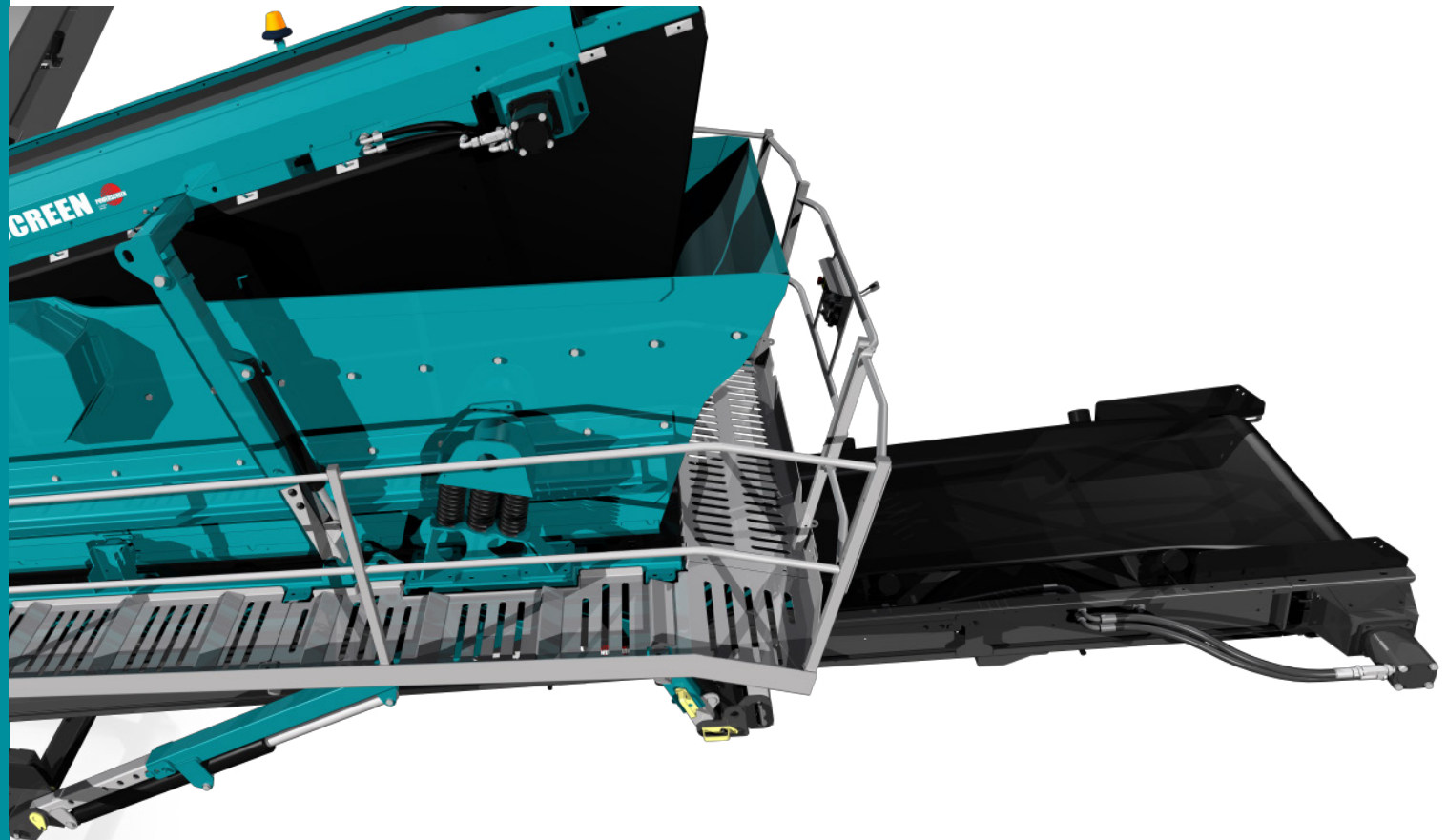
↓ CONVEYORS

FINESIZE - TAIL CONVEYOR

1200mm (3' 11") wide 3 ply plain belt
8.16m (26' 9") drum centres
286mm (11.3") drum diameter (drive)
270mm (10.6") drum diameter (tail)

Hydraulically folding
Chevron belt as option
Angle adjustment: 12° - 22.5°

4.41m (14' 6") stockpile height
127.5m³ (167 cu. yd.) stockpile volume





CHIEFTAIN 2100X BIVITEC



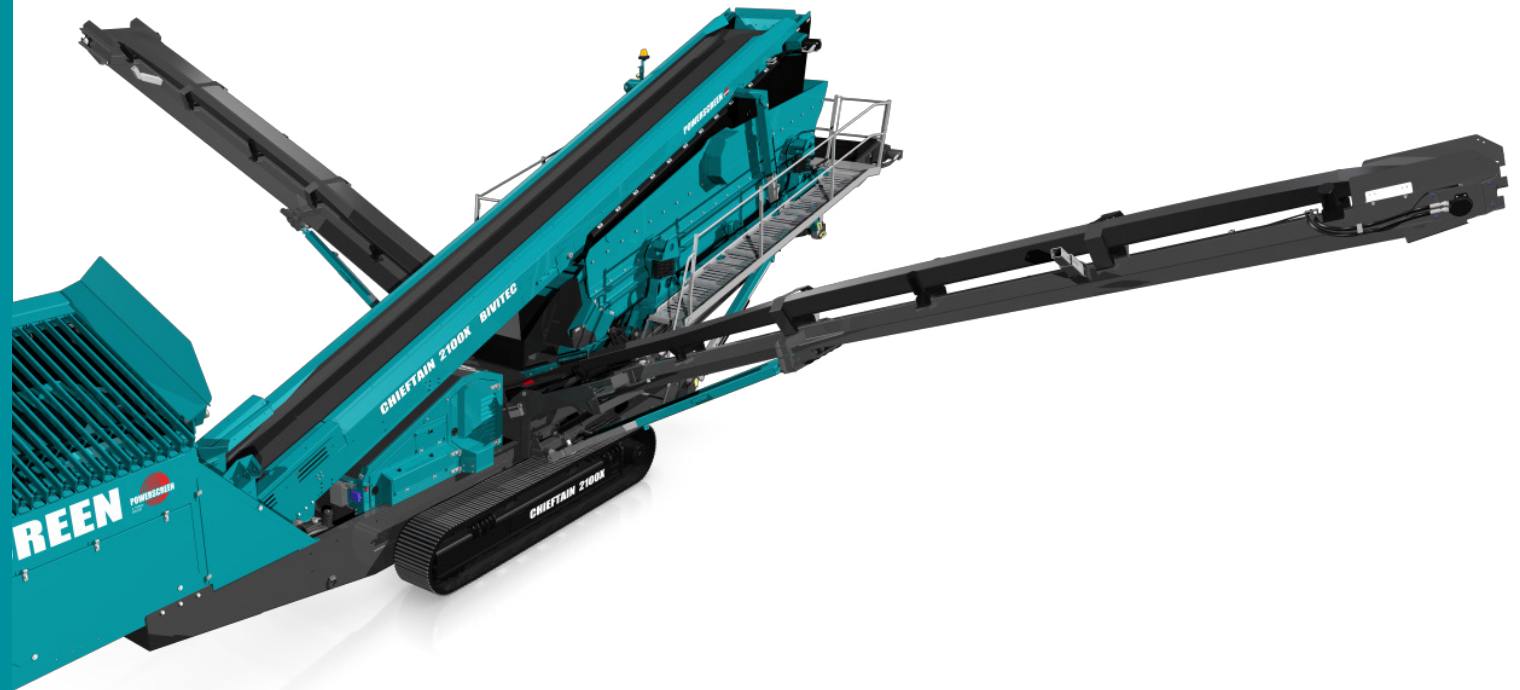
↓ CONVEYORS

MIDSIZE & OVERSIZE - SIDE CONVEYORS

800mm (2' 7") wide 3 ply chevron belt
10.18m (33' 5") drum centres
286mm (11.3") drum diameter (drive)
270mm (10.6") drum diameter (tail)

4.97m (16' 4") stockpile height
183m³ (239 cu. yd.) stockpile volume

Individual variable speed control
Hydraulically folding
Fixed angle: 24°





CHIEFTAIN 2100X BIVITEC



POWER UNIT & HYDRAULICS

Engine Tier 3 Equivalent:

CAT C4.4 LRC

Performance:

83 kW (110hp) @ 2200rpm

Engine Stage IIIA Constant Speed:

CAT C4.4 CS

Performance:

98 kW (131hp) @ 1800rpm

Engine Tier 4F / Stage IV:

CAT C4.4

Performance:

82 kW (110hp) @ 2200rpm

Tank Capacities:

Fuel: 336 L (88 US Gal)

Hydraulic oil Tier 3 / Constant Speed: 564 L (149 US Gal)

Hydraulic oil Tier 4: 450 L (118 US Gal)

Pumps:

Flywheel pump: Cast iron triple 63/33/33cc/rev

PTO pump A: Cast iron triple 23/23/14cc/rev

Constant Speed Pumps:

Flywheel pump: Cast iron quad 71/41/41/33cc/rev

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

Motors:

Belt feeder: Cast iron 160cc/rev

Main conveyor: Cast iron 500cc/rev

Tail conveyor: Cast iron 800cc/rev

Side conveyors: Cast iron 400cc/rev

Screen: Cast iron 80cc/rev





CHIEFTAIN 2100X BIVITEC



↓ TRACKS

Track width:	500mm (1' 8")
Sprocket centres:	3838mm (12' 7")
Gradability degrees:	41°
Gearbox ratio:	1:147
Hydraulic motor:	85.9cc/rev
Approximate speed:	0.56kph (0.35mph)
Total flow per track:	69 Lpm (approx.)

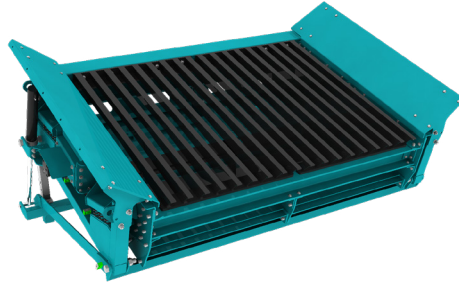




CHIEFTAIN 2100X BIVITEC



OPTIONS



DOUBLE DECK VIBRATING GRID

Target area:

3.91m (12' 10") long x 2.42m (7' 11") wide

Bottom deck screen size:

2 of 1.9m (6' 3") x 1.5m (4' 11")

Working angle: 10° - 20° (hydraulically adjustable)

Tip angle: 45° max

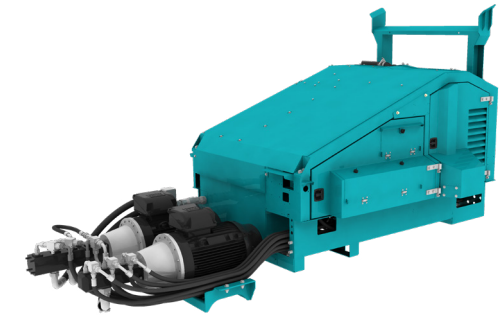
Motor: 59cc/rev

Circuit: Coupled to main conveyor circuit.

Minimum feed in height with grid (rear): 3.8m (12' 6")

Increase in transport height: +135mm (5.3")

Increase in machine weight: +3,750kg (8,267lbs)



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

Note: Electric motors IE2 as standard

IE3 motors for USA subject to availability



CHIEFTAIN 2100X BIVITEC



↓ OPTIONS

OTHER OPTIONS

- Custom colour machine
- Auto lubrication system
- Radio controlled tracking
- Anti-rollback
- Vibrating grid discharge chute
- Crusher feed chute (when double deck vibrating grid is selected)
- Double deck vibrating grid
- Roll-in bogie
- Hydraulic jacking legs
- Dust suppression
- Extra coupling facility
- Fuel save option
- Powerscreen Pulse





CHIEFTAIN 2100X BIVITEC



↓ POWERSCREEN PULSE

RECORD, DISPLAY AND ANALYSE DATA:

HIGH EFFICIENCY THROUGH PRECISE INFORMATION

Available online anywhere and at any time: comprehensive information on the GPS location, start and stop times, fuel consumption, tonnages, cone settings, wear ratings, operating hours, maintenance status, and much more.




AVAILABLE ANYWHERE AND AT ANY TIME



DASHBOARD DISPLAY



FLEET OVERVIEW



WEEKLY REPORT DIRECT TO YOUR INBOX



GPS: MACHINE TRACKING



REPORTING UTILISATION, PERFORMANCE & PART SPECIFIC

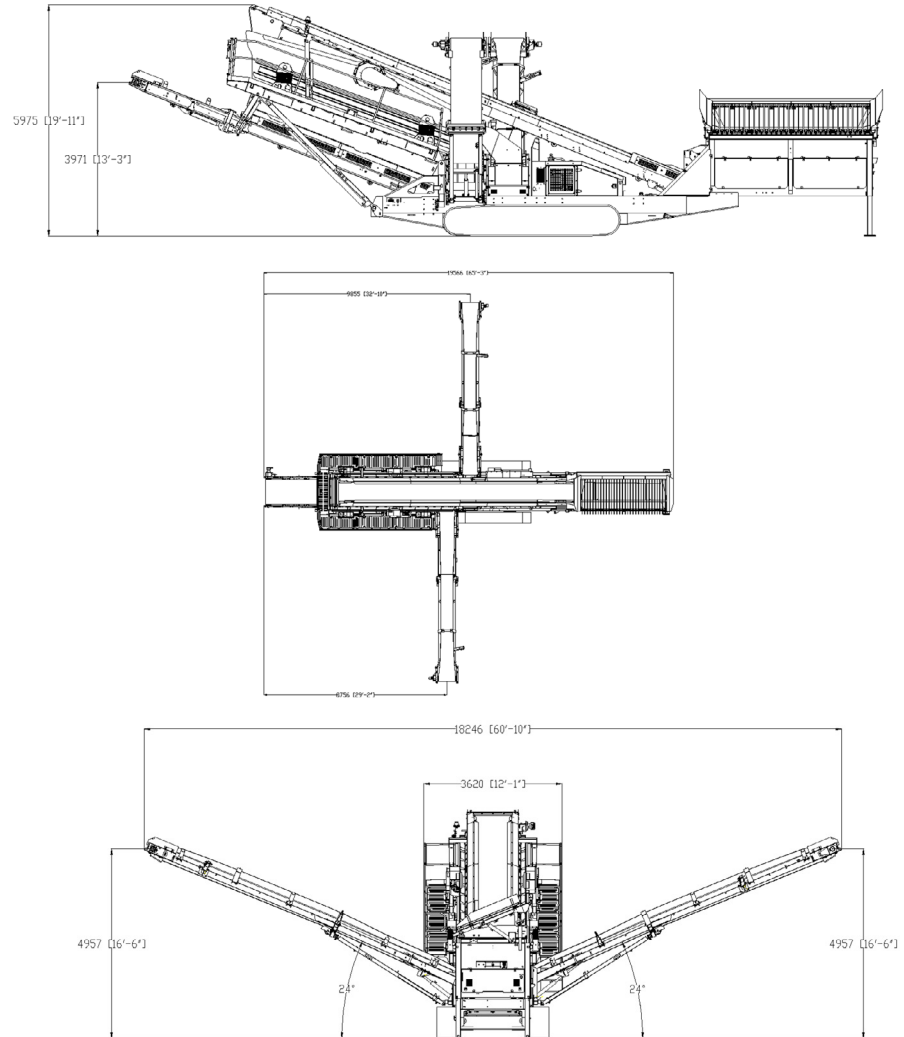


CHIEFTAIN 2100X BIVITEC



↓ DIMENSIONS

Figure 1: Chieftain 2100X Bivitec 2 Deck Working Position



[MORE DIMENSIONS OVERLEAF](#)

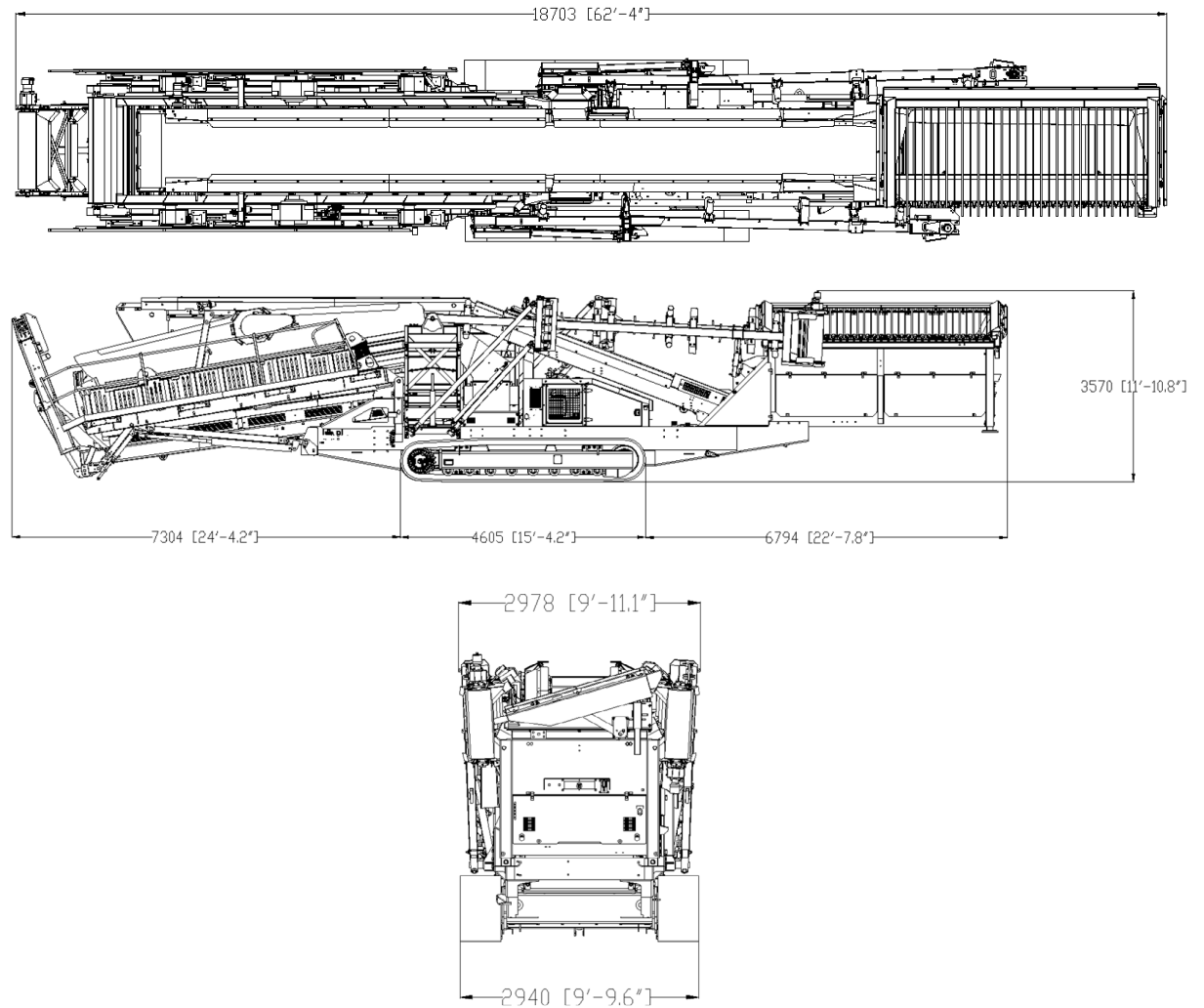


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DIMENSIONS

Figure 2: Chieftain 2100X Bivitec 2 Deck
Transport Position



MORE DIMENSIONS OVERLEAF

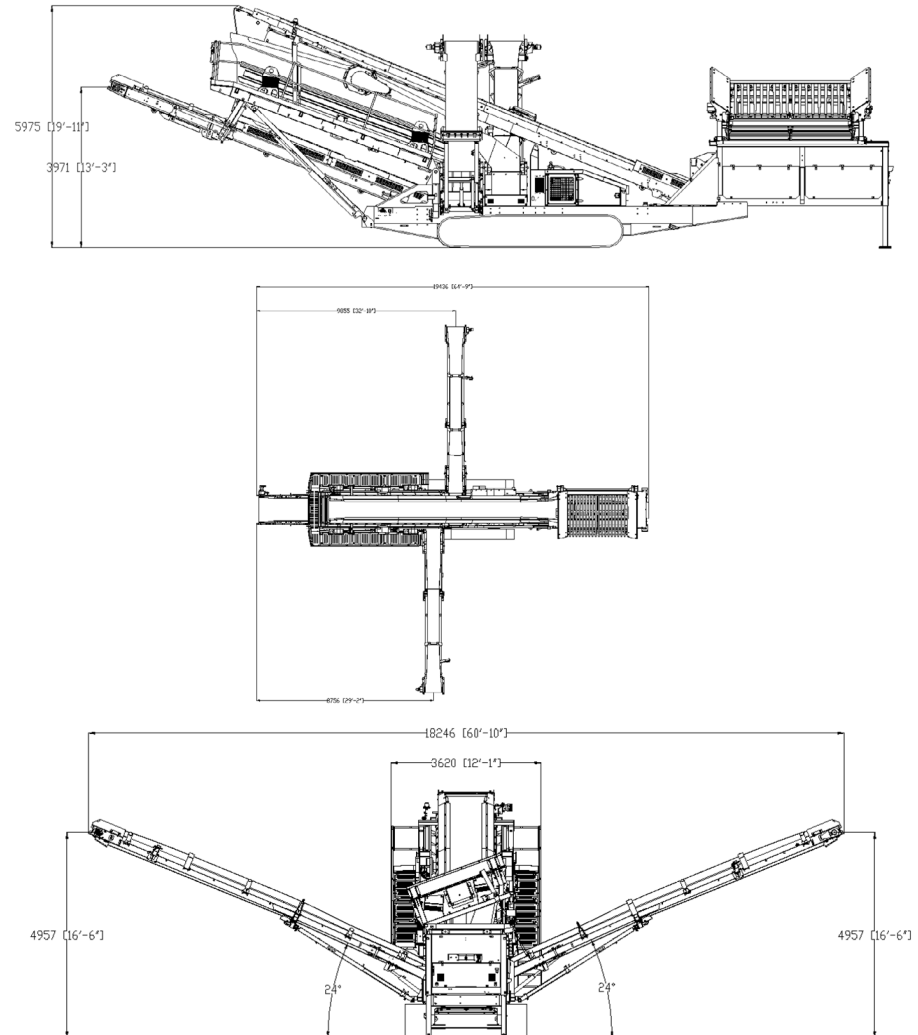


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↓ DIMENSIONS

Figure 3: Chieftain 2100X Bivitec 2 Deck
Double Deck Vibrating Grid
Working Position



MORE DIMENSIONS OVERLEAF

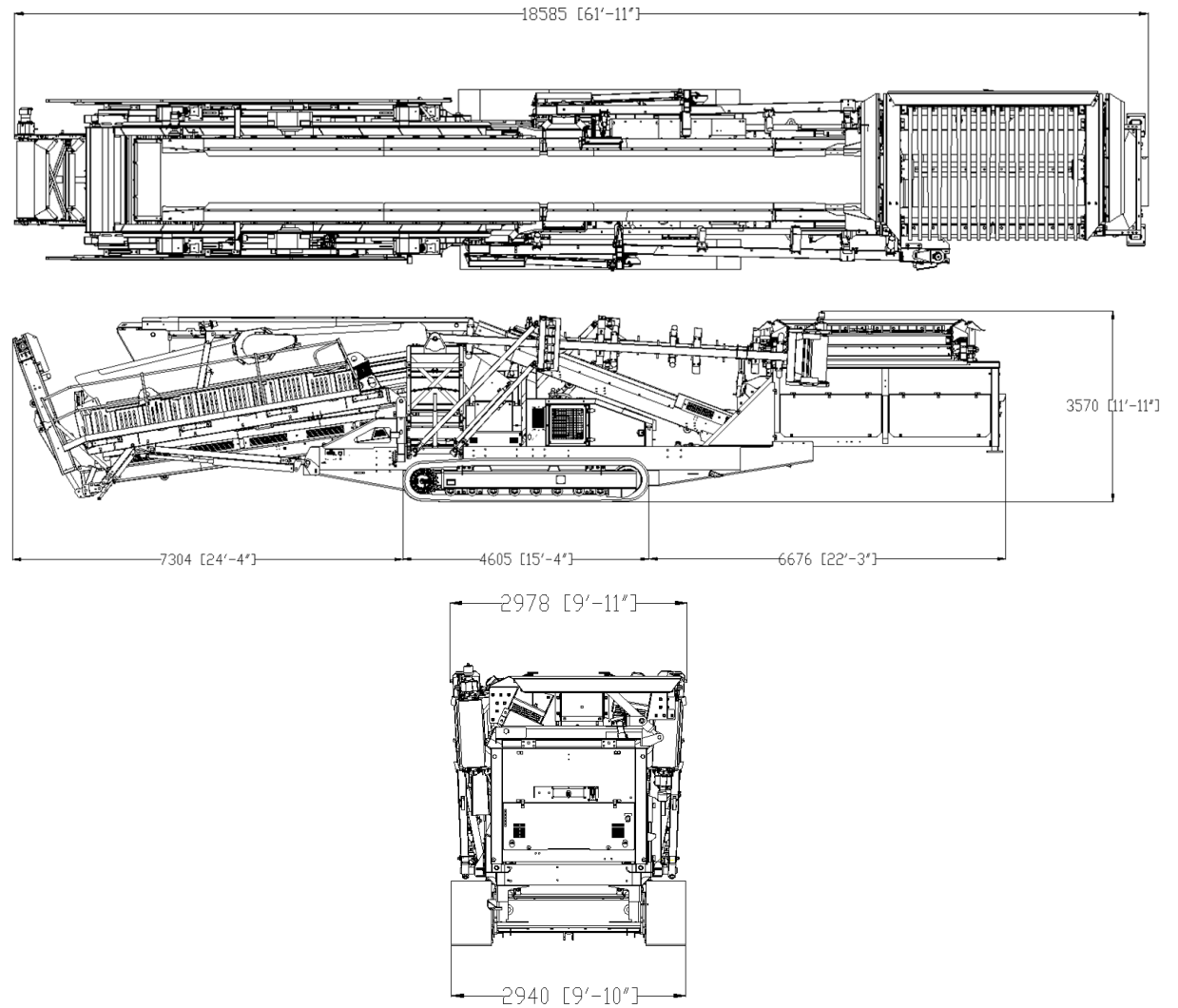


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DIMENSIONS

Figure 4: Chieftain 2100X Bivitec 2 Deck
Double Deck Vibrating Grid
Transport Position





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.

Plant performance figures given in this brochure are for illustration purposes only and will vary depending upon various factors, including feed material gradings and characteristics. Information relating to capacity or performance contained within this publication is not intended to be, nor will be, legally binding.

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