# POWERSCREEN® CHIEFTAIN 1400



2 DECK INCLINE SCREEN









#### **SPECIFICATION**

		14ft Hopper (with grid) wheel	14ft Hopper (with grid) track
Total weight:		22,000kg (48,502lbs)	24,900kg (54,895lbs)
Transport	Length Width Height	17.05m (55' 11") 2.8m (9' 2") 3.65m (12')	15.55m (51') 2.8m (9' 2") 3.4m (11' 2")
Working	Length Width Height	16.64m (54' 7") 16.2m (53' 2") 5.12m (16' 10")	16.64m (54' 7") 16.2m (53' 2") 5.12m (16' 10")
Screenbox:		3.3m x 1.5m (11' x 5')	3.3m x 1.5m (11' 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
- Heavy duty single shaft incline screenbox with adjustable angle
- Hydraulic screen tensioning
- Maximum mobility with heavy duty, low ground pressure crawler tracks
- Removable heavy duty pendant remote control system
- Quick set up time
- High performance hydraulic system cast iron pumps & motors complete with hydraulic cooler
- Angle adjustable tipping grid with radio control double acting tipping grid rams
- 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









### **HOPPER & GRID**

Target area: 4.75m (15' 7") long x 2m (6' 7") wide

Grid aperture: 108mm (4.3'') Hopper capacity with grid: 5.35m³ (7 cu. yd.) 1

Hopper capacity with grid: 6.8m³ (9 cu. yd.)

Adjustable angle tipping grid with integral loading and wing plates

Feed in height with grid: 3.7m (12' 2") (rear) Feed in height with grid: 3.89m (12' 9") (rear)













3.3m x 1.5m (11' x 5') 2 deck incline screen Highly aggressive screen drive Grease filled 4 bearing screenbox

3.3m x 1.5m (11' x 5') top deck 3m x 1.5m (10' x 5') bottom deck

Hydraulic screen angle adjustment: 27° - 37° Combination side & end tensioned top deck End tensioned bottom deck

Galvanised maintenance platforms on 3 sides of the screenbox Hydraulic screen tensioning on end tensioned sections **Speed**: 1140rpm **Throw**: 6mm POWERSCREEN











#### **FEED CONVEYOR**

1050mm (3' 5") 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

8.6m (28' 3") drum centres 1

286mm (11.3") drum diameter (drive)

270mm (10.6") drum diameter (tail)

Hydraulically adjustable conveyor, fully skirted & sealed

Fixed speed















#### **FINESIZE - TAIL CONVEYOR**

1200mm (3' 11") wide 3 ply plain belt 5.91m (19' 5") drum centres 286mm (11.3") drum diameter (drive) 270mm (10.6") drum diameter (tail)

3.93m (12' 11'') stockpile height 90m³ (118 cu. yd.) stockpile volume

4.12m (13' 6'') stockpile height 104m³ (136 cu. yd.) stockpile volume

Fixed speed Hydraulically folding Chevron belt as option Variable to 24°













#### MIDSIZE & OVERSIZE SIDE CONVEYORS

650mm (2' 2") wide 3 ply chevron belt 9.07m (29' 9") drum centres 286mm (11.3") drum diameter (drive) 270mm (10.6") drum diameter (tail)

4.5m (14' 9") stockpile height 

1 136m³ (178 cu. yd.) stockpile volume

4.69m (15' 5") stockpile height • 153m³ (200 cu. yd.) stockpile volume

Variable speed control on each conveyor Hydraulically folding













### **POWER UNIT & HYDRAULICS**

#### **Engine Tier 3 Equivalent:**

CAT C4.4

#### Performance:

83 kW (111.3hp) @ 2200rpm

#### **Engine Stage IIIA Constant Speed:**

CAT C4.4 CS

#### Performance:

98 kW (131hp) @ 1800rpm

#### Engine Tier 4 / Stage IV:

CAT C4.4

#### Performance:

82 kW (110hp) @ 2200rpm

#### **Tank Capacities:**

Fuel: 336 L (88 US Gal)

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

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

#### Pumps:

Flywheel pump: Cast iron tandem 33cc/rev PTO pump: Cast iron triple 23/23/14cc/rev

#### **Constant Speed Pumps:**

Flywheel pump: Cast iron triple 46/46/33cc/rev PTO pump: Cast iron tandem 29/29cc/rev

#### Motors:

Belt feeder: Cast iron 160cc/rev Main conveyor: Cast iron 630cc/rev Cast iron 500cc/rev Tail conveyor: Side conveyors: Cast iron 400cc/rev Screen motor: Cast iron 56cc/rev













**Track width**: 500mm (1' 8'') Sprocket centres: 2956mm (9'8'') **Gradability degrees**: 30.34°

Gearbox ratio:1:154

**Hydraulic motor**: 50.9cc/rev

Approximate speed: 0.9kph (0.56mph) **Total flow per track**: 69 Lpm (approx.)















#### **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: 56cc/rev

Circuit: Run in series after to main conveyor circuit

Minimum feed in height with grid (rear): 3.8m (12' 6") with grid 1 Minimum feed in height with grid (rear): 3.99m (13' 1") with grid •

Increase in transport height Track & Wheel: +250mm (9.8")

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



#### **DUAL POWER**

#### **Dual Power System:**

2 of electric motors: 30 kW (40hp) & 30 kW (40hp) Diesel engine Integrated control system

This controls either diesel-hydraulic or electric-hydraulic functions Note: This option may alter transport dimensions and feed access. For further details please contact engineering for detailed drawings and dimensions.











#### **OTHER OPTIONS**

- Custom colour machine
- Auto lubrication system
- Radio controlled tracking
- Quick release wedge screen tensioning (side tension only)
- Extra coupling facility
- Full dust suppression
- Roll-in bogie
- Shredder
- Wheeled chassis machine

- Vibrating grid discharge chute
- Adjustable hopper door
- Anti-rollback on main conveyor
- Fuel save option
- Full side tensioned top deck
- Bottom deck self cleaning flexi mesh
- Crusher feed chute (when double deck vibrating grid is selected)











### **POWERSCREEN PULSE**

## RECORD, DISPLAY AND ANALYSE DATA:

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.







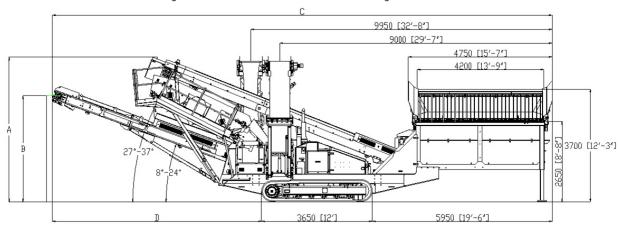


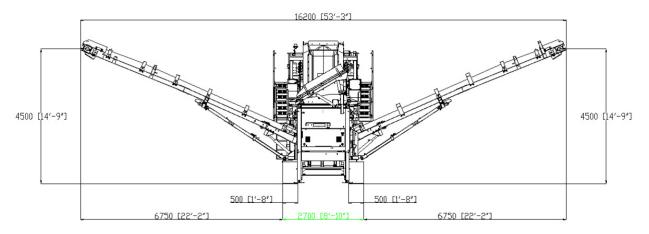




DIMENSION (MM)	27 DEG	30 DEG	33 DEG	37 DEG
А	4759	4871	4974	5112
В	3144	3144	3926	3926
С	16637	16637	16333	16333
D	7037	7037	6733	6733

Figure 1: Chieftain 1400 2 Deck Track - Working Position







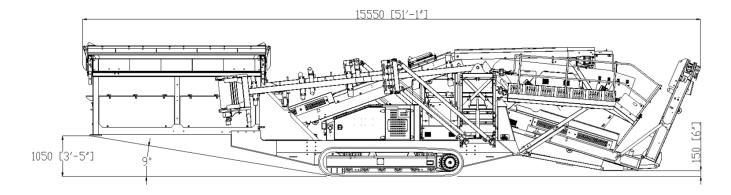


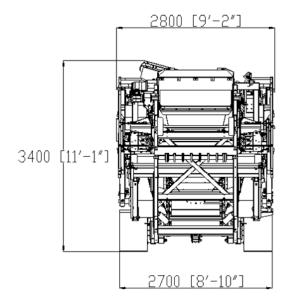




### **DIMENSIONS**

Figure 2: Chieftain 1400 2 Deck Track - Transport Position







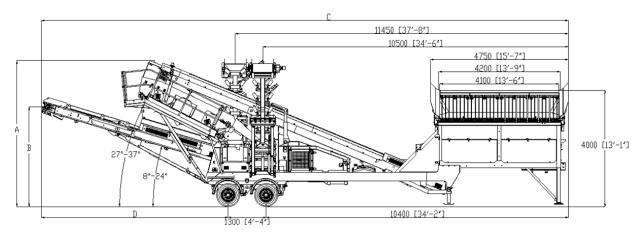






DIMENSION (MM)	27 DEG	30 DEG	33 DEG	37 DEG
А	4759	4871	4974	5112
В	3144	3144	3926	3926
С	16637	16637	16333	16333
D	7037	7037	6733	6733

Figure 3: Chieftain 1400 2 Deck Wheel - Working Position



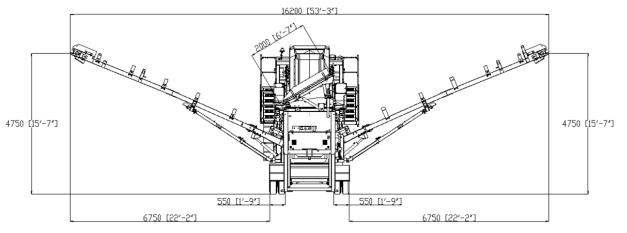


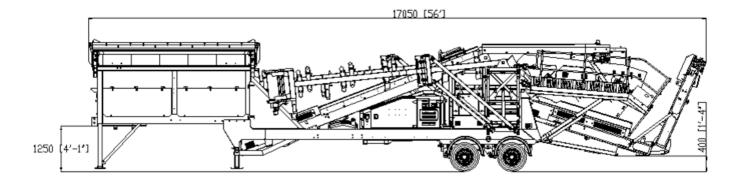


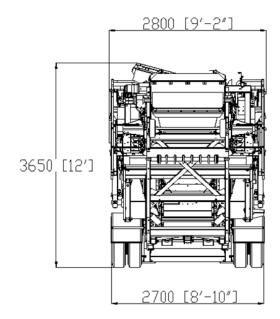






Figure 4: Chieftain 1400 2 Deck Wheel - Transport Position











#### 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.

#### **GET IN TOUCH**

#### Dungannon

200 Coalisland Road, Dungannon, Co Tyrone, BT71 4DR, Northern Ireland Tel: +44 (0) 28 87 718 500

Fax: +44 (0) 28 87 747 231

#### Louisville

11001 Electron Drive, Louisville, Kentucky, 40299 USA

Tel: +1 502 736 5200 Fax: +1 502 736 5202

