

COLT 1600

SCALPING SCREEN




TECHNICAL
SPECIFICATION



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OVERVIEW



1

HOPPER

- 8.5m³ (11.12yd³) Hopper Capacity
- 1000mm (40") wide belt
- Hydraulic variable speed

2

SCREEN

- 4.8m (16') x 1.5m (5') Double deck screen
- Variable screen angle
- Wide range of screen media

3

CONTROL SYSTEM

- Simple intuitive operation

4


ENGINE OPTIONS

- Tier 3 CAT C4.4 83kW (111.3hp) @1800rpm (standard on SS & Spaleck)
- Tier 3 / LRC CAT C4.4 98kW (131HP) @ 1800RPM (standard on TS)
- Stage 3A CAT C4.4 98kW Constant speed 98kW (131 HP) @ 1800RPM (optional Single Shaft/Spaleck/TS)
- Tier 4 Final / Stage IV CAT C4.4 82kW (110hp) @1800rpm (optional on Single Shaft / Spaleck)
- Tier 4 Final / Stage IV CAT C4.4 97kW (130hp) @1800rpm (optional on TS)
- Simple to operate


5

CONVEYORS


- 1200mm (48") Wide tail conveyor with 3.6m (11'10") discharge
- 900mm (36") Wide fines conveyor with 4m (13'1") discharge
- 800mm (32") Wide midgrade conveyor with 3.4m (11'2") discharge



CONFIGURABLE LAYOUT AND ABILITY TO CONVERT TO 2 WAY SPLIT



VARIABLE SPEED ON FEEDER, FINES, MIDGRADE AND OVERSIZE AS STANDARD



UP TO 600 TONNES PER HOUR (661 US TPH)

FEEDER

Heavy duty apron feeder, high torque gearbox and motor drive:

- Abrasion resistant steel pan apron feeder mounted with heavy duty chain drive & wide mouth opening
- 1,000mm (40") wide Apron feeder with remote start stop as standard
- Hydraulic variable speed drive (0-25mph) via high torque gear box



HOPPER

7m³ (9.16yd³) hopper mounted on Heavy Duty Apron feeder including:

- Feed in height: 3.7m (12' 1"), feed in width 2.6m (8' 7")
- Fixed hopper extensions available 8.5m³ (11.12yd³)



SCREENBOX

SINGLE SHAFT

Versatile 4.8m (16') x 1.5m (5') double deck screen providing total screening area of 14.4m²

- Aggressive performance to tackle most rugged applications with an 8mm stroke running at 1000RPM
- Hydraulic drive with heavy duty bearings
- Excellent classification as a result of long screen length
- Variable screen angle (13-19 degrees), hydraulic adjust. Enabling the operator to adjust to suit the application
- Screen stroke min/max range: 8-10mm (screen speed needs reduced as stroke is increased)



SCREENBOX

SINGLE SHAFT

- Multi slope 'banana' bottom deck to increase clearance between the bottom deck and screen drive
- Excellent service access provided by hydraulically raising sub-frame by 500mm to facilitate bottom deck media changes
- Galvanised Screen walkway on both sides as standard enabling faster set up time
- A comprehensive variety of media options
- Chain blanket option for over the screen box



SCREENBOX

TRIPLE DECK

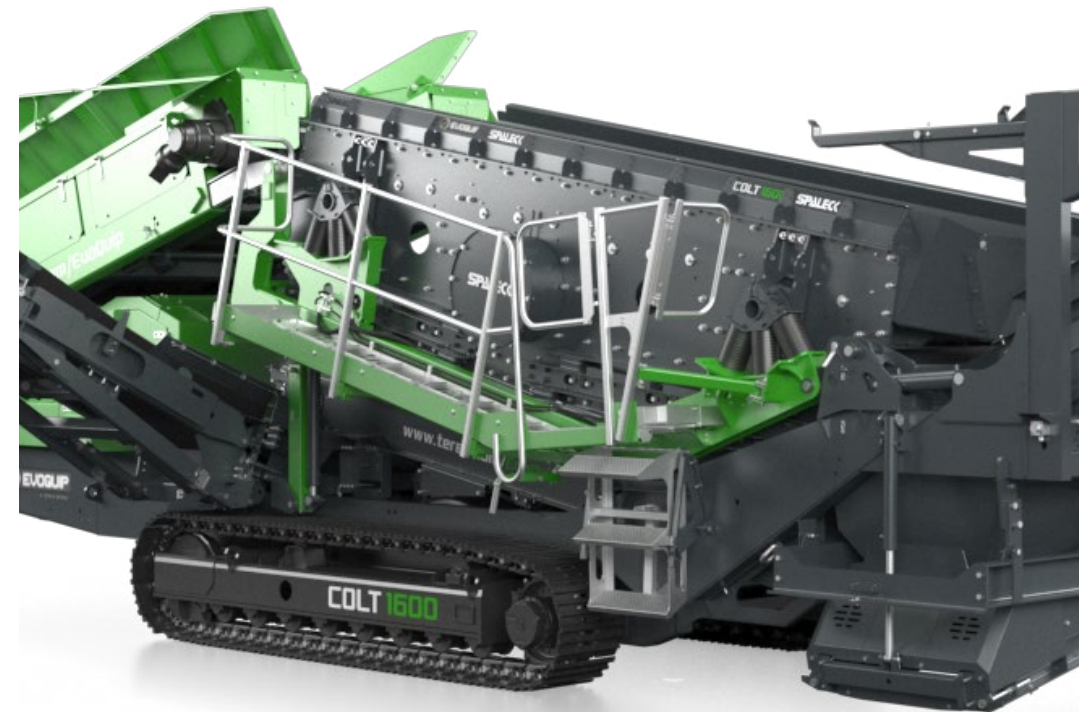
- High capacity triple shaft screen
- Top deck: 4.8m x 1.53m (16' x 5')
- Bottom deck: 4.8m x 1.53m (16' x 5')
- Tensioning top deck: side
- Tensioning bottom deck: end
- Drive: hydraulic with heavy duty bearing
- Screen Angle: Fixed 10°
- Screen Speed: 875 rpm
- Screen stroke Min/Max range: 14-18mm (9/16" - 11/16")
- Screen stroke standard: 14mm (9/16")
- Screen box discharge end raises hydraulically 500mm to facilitate mesh changing
- Total screening area: 14.4m² (155ft²)



SCREENBOX

OPTIONAL SPALECK

- Top deck: 4.8m x 1.53m (16' x 5')
- Bottom deck: 4.8m x 1.53m (16' x 5')
- 3D punch plate top deck
- Flip - Flow technology bottom deck
- Screenbox can hydraulically adjust to an angle between 13° - 19°
- Wide variety of top deck screen media



CONVEYORS

TAIL CONVEYOR

1,200mm (48") wide tail (oversize conveyor) featuring:

- Twin drive
- Working angle: 18 – 24°
- Variable belt speed – max: 53m/min
- Impact bars 2/3 length of conveyor (optional full length impact bars)
- Steel skirted full length of conveyor
- Discharge height: 3.6m (11' 10")
- Stockpile capacity: 70m³ (91yd³) max
- Oversize conveyor is hydraulically folded
- 2 way spilt – Option to move Oversize conveyor to collect material off both top and bottom decks. Note: Middle grade conveyor must be removed



*If chassis riser is selected the conveyor discharge heights increase by a further 300mm (except on Triple Shaft machine)

CONVEYORS

MID-GRADE CONVEYOR

800mm (32") wide mid-grade Chevron belt which includes:

- 3.4m discharge height – facilitating large volume stockpiles and improving efficiency for operators
- Max stockpile capacity: 58m³
- Extended conveyor discharge height: 4.1m
- Extended conveyor stockpile capacity: 102m³
- Working angle: 22 – 26°
- All stockpile conveyors are hydraulically folded
- Each conveyor has it's own hydraulic circuit as standard
- Rubber self tensioning side conveyor paddles
- Option of switching the discharge side of both fines and midgrade conveyors depending on customer requirements
- Both conveyors can discharge out the same side of the machine if required

*If chassis riser is selected the conveyor discharge heights increase by a further 300mm (except on Triple Shaft machine)



CONVEYORS

COLLECTION CONVEYOR

Full length under screen conveyor:

- 1,200mm (47") wide 3ply belt
- Belt speed: 77 m/min (253 ft/min)
- Conveyor fully skirted
- Independently powered fines and transfer drives as standard
- Premium head drum scraper
- Adjustable control at transfer point by adjusting deflector plate

CONVEYORS

FINES CONVEYOR

900mm (36") wide fines belt which includes:

- Up to 4.0m (13' 1") discharge height – facilitating large volume stockpiles - Max stockpile capacity: 95m³ (124 cu yds)
- Extended conveyor discharge height: 4.8m
- Extended conveyor stockpile capacity: 164.5m³ (215 cu yds)
- Working angle: 24 – 28°
- Rosta scraper on head drum
- Belt speed: 127m/min (417ft/min)
- All stockpile conveyors are hydraulically folded
- Each conveyor has it's own hydraulic circuit as standard.
- Rubber self tensioning side conveyor paddles.
- Option of switching the discharge side of both fines and midgrade conveyors depending on customer requirements.
- Both conveyors can discharge out the same side of the machine if required

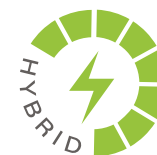


*If chassis riser is selected the conveyor discharge heights increase by a further 300mm (except on Triple Shaft machine)

POWER UNIT

User friendly power unit:

- Tier 3 CAT C4.4 83kW (111.3hp) @1800rpm (standard on SS & Spaleck)
- Tier 3 / LRC CAT C4.4 98kW (131HP) @ 1800RPM (standard on TS)
- Stage 3A CAT C4.4 98kW Constant speed 98kW (131 HP) @ 1800RPM (optional Single Shaft/Spaleck/TS)
- Tier 4 Final / Stage IV CAT C4.4 82kW (110hp) @1800rpm (optional on Single Shaft / Spaleck)
- Tier 4 Final / Stage IV CAT C4.4 97kW (130hp) @1800rpm (optional on TS)
- Simple and intuitive controls
- Excellent service access
- Dual Power – 2 x37kW IE3 electric motors c/w hydraulic gear pumps and electrical control panel allowing machine to run in either Diesel or Electric mode



WALKWAYS

- Galvanised catwalk on both sides of screen box
- Includes handrails, kickboard and access ladders attached to chassis
- Screen catwalk access ladders stow in place for transport



CHASIS & TRACKS

SINGLE SHAFT & SPALECK

- Heavy duty undercarriage unit with 400mm wide pads (3.28m sprocket centres)
- Max speed: 0.8 kph
- Gradability: 24.8°
- 300mm chassis riser for increased ground clearance
(transport, feeder & discharge heights all increase by 300mm)



CHASIS & TRACKS

TRIPLE SHAFT

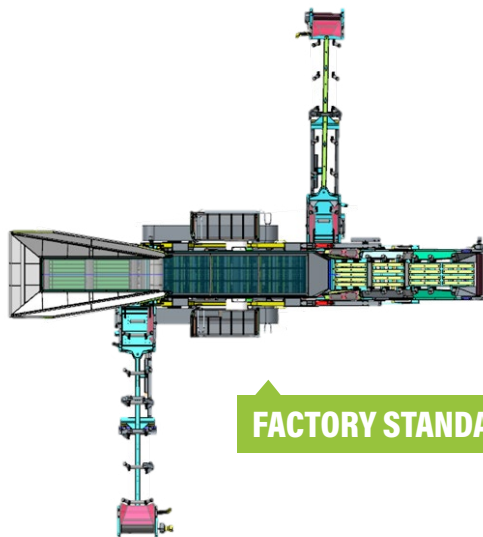
- Heavy duty undercarriage unit with 500mm wide pads (3.8m sprocket centres)
- Speeds: 0.6-1.4 kph
- Gradability: 28°
- 200mm chassis riser for increased ground clearance (transport, feeder & discharge heights all increase by 200mm)



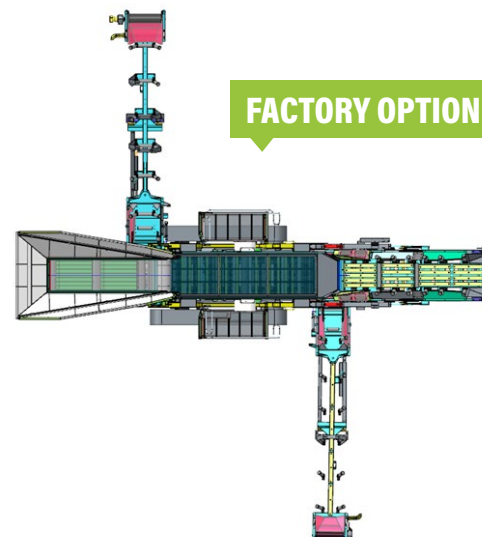
CONFIGURATION

The Colt 1600 with Triple Shaft box can be converted to either a Single shaft or Spaleck screen.

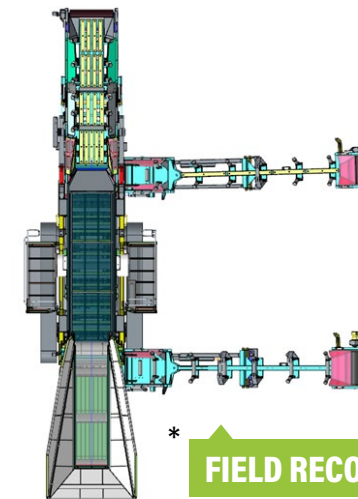
A Single shaft machine can be converted to a Spaleck and vice versa, but cannot be converted to a Triple shaft.



FACTORY STANDARD



FACTORY OPTION



*** FIELD RECONFIGURATION**

OPTIONS

STANDARD MACHINE, SPALECK & TRIPLE SHAFT VARIANT

- 10mm abrasive resistant plate lined hopper
- Hydraulic Driven cleaning brush for pan feeder
- Impact bars full length of tail (oversize conveyor)
- Extended conveyor (must select fines and mids together)
- Magnetic drive drum (only available on STD conveyor not telescopic side conveyor)
- Conveyor Configured for discharge (this will reverse both fines and mids)
Fines std RHS – changed to LHS / Mids std LHS changed to RHS
- 2 way split
- Various Engine Options
- Hybrid (Dual Power)
- Cold Climate oils
- Chain Blanket over screen box
- Hydraulic tensioning (bottom deck screen mesh)
- 300mm chassis riser for Standard & Spaleck Variant (note riser is 200mm for triple shaft machine)
- Stockpiler drive (Note Mids and tail conveyor combined in series for this option)
- Radio Remote

Media Options: Standard Machine

- Punch plate top deck wear resistant steel ranging from 35mm to 150mm
- Finger screen 55mm to 75mm top deck, bottom as specified
- Bofor deck range from 60mm to 150mm

Media Options: Spaleck Machine (2 deck Incline, Spaleck 3D Combi Flip-Flow)

- Top deck 3D Metal Punch plate 30mm or 50mm
- Top deck 3D Church window metal punchplate from 30 to 100mm
- Top deck 3D Rubber punch plate from 30 to 100mm
- Bottom Deck Flip-Flow high resistant polyurethane mats – size as specified
- Complete sealing on side wall
- Finger screen 55mm to 75mm top deck, bottom as specified
- Bofor deck range from 60mm to 150mm

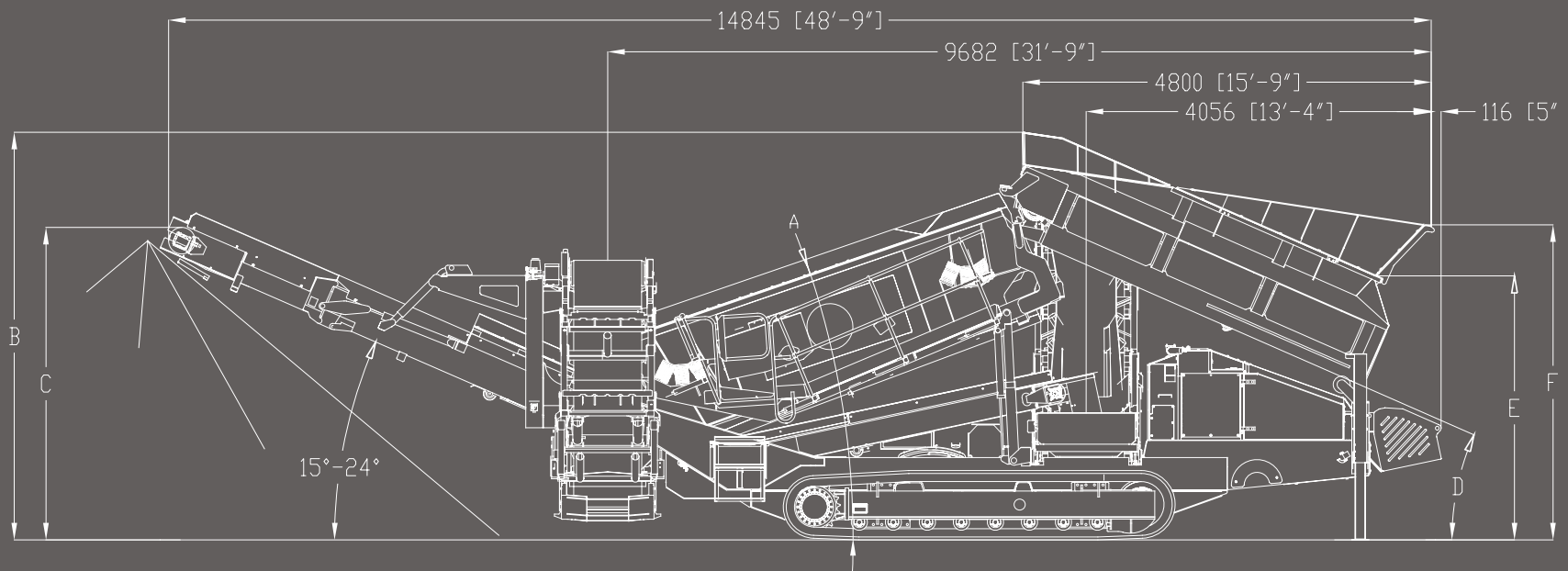
Media Options: Triple Shaft Machine (2 deck Incline, Triple Shaft Positive Action)

- Top & Bottom deck Woven mesh
- Punch plate top deck wear resistant steel ranging from 35mm to 150mm
- Finger screen 55mm to 75mm top deck, bottom as specified
- Bofor deck range from 60mm to 150mm

WEIGHTS & DIMENSIONS

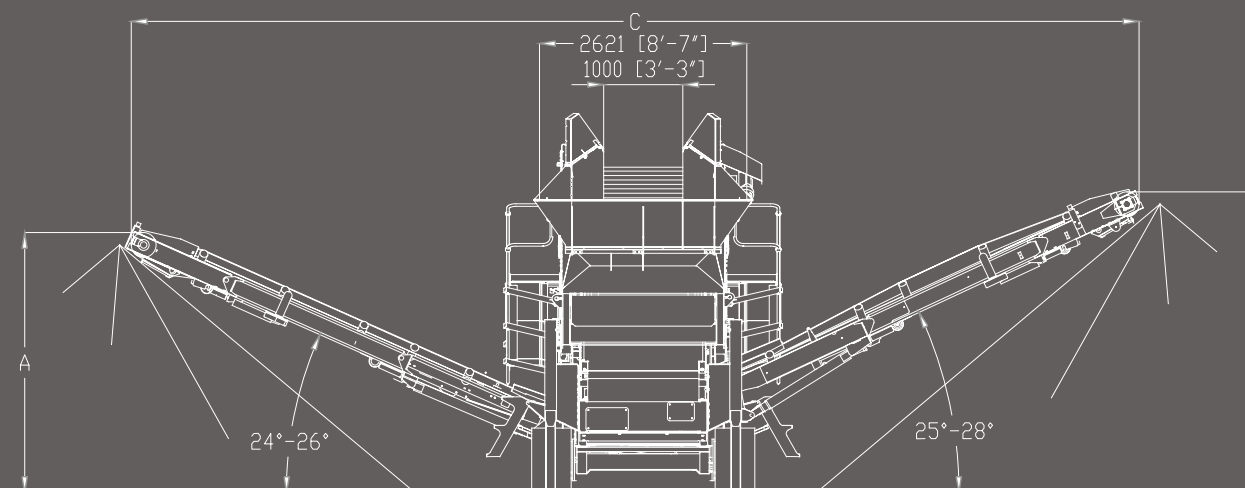
WORKING

Length: 11m (35' 11") **Width:** 2.5m (8' 2") **Height:** 3.1m (10' 4") **Weight:** (standard machine) Tier 4F: 20,750Kgs (45,745lbs)



WEIGHTS & DIMENSIONS

WORKING



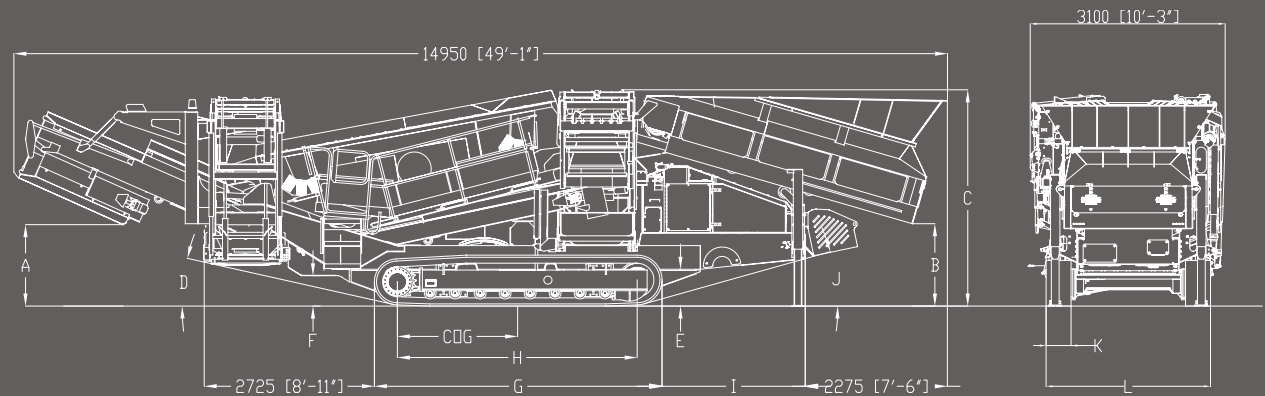
DIMENSION (mm)	STANDARD CONVEYORS	TELESCOPIC CONVEYORS
A ^(*) (^{**})	3379 MAX 3193 MIN	3973 MAX 3910 MIN
B ^(*) (^{**})	3977 MAX 3708 MIN	4791 MAX 4436 MIN
C	12720 MAX 12502 MIN	15846 MAX 15638 MIN

* EXTENDED CHASSIS OPTION WILL ADD 300mm TO STD TRACKS AND 200mm HD TRACKS
** HEAVY DUTY TRACKS OPTION WILL ADD 85mm

TRANSPORT

Length: 14.95m (49' 1") **Width:** 3.0m (9' 10") **Height:** 3.4m (11' 2") **Weight:** (Single Shaft- standard machine) 31,000Kgs
(Triple Shaft- standard machine) 34,000Kgs

DIMENSION	STD TRACKS	HD TRACKS
A*	1220mm	1305mm
B*	1234mm	1319mm
C*	3359mm	3444mm
D	STD CHASSIS 11* EXT CHASSIS 17*	STD CHASSIS 12* EXT CHASSIS 18*
E*	505mm	590mm
F*	400mm	485mm
G	3975mm	4610mm
H	3290mm	3840mm
I	2916mm	2285mm
J	STD CHASSIS 12* EXT CHASSIS 21*	STD CHASSIS 16* EXT CHASSIS 21*
K	400mm	500mm
L	2630mm	2820mm



* Extended chassis option will add 300mm to standard tracks and 200mm HD tracks

The Colt 1600 with Triple Shaft box can be converted to either a Single shaft or Spaleck screen.
A Single shaft machine can be converted to a Spaleck and vice versa, but cannot be converted to a Triple shaft.

GALLERY & MEDIA



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