



Wildcat[®]
an affiliate of **Vermeer**[®]

516 *Cougar*

Trommel Screen



Be efficient with the 516 *Cougar* trommel screen

The 516 is a self-contained screening plant that sets up in as little as 15 minutes but provides hours of production. Complete with conveyors for fines and overs, the 516 can produce up to 100 cubic yards (76.5 m³) per hour with minimal spillage.*

The hopper is one of the largest in its class, but it's low enough that in most cases you won't need to build ramps for loading material. In addition, the steep sidewalls and straight conveyor infeed help keep material in the hopper from bridging.

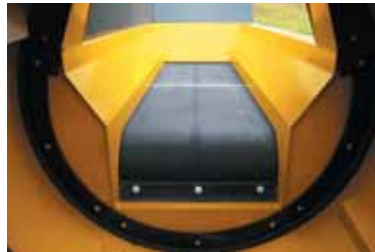
The controls on the 516 are user-friendly, and the trommel drum area and engine compartment are designed for easy maintenance access.

Designed for the organic and wood-waste industries, this portable screening plant is ready to take on composting, recycling or topsoil reclamation.



Drum access

Side panels are removable along each side of the trommel drum to expose the full length of the drum screens, providing easy access for maintenance and cleaning from ground level.



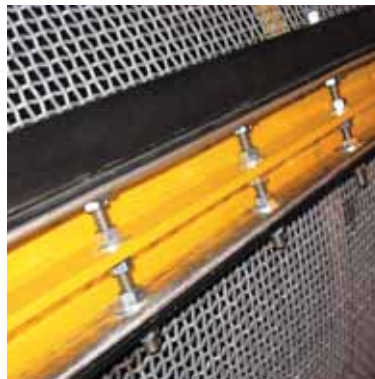
Large throat opening

A wide and tall throat opening between the hopper and drum helps minimize material bridging.



Impact idlers

Impact idlers are standard on all units. Closely spaced and rugged, the Wildcat hopper design is one of the strongest in the industry.



Tensioned screens

Tensioned screens help add strength to the drum panels, allowing for a smaller diameter screen wire and an increased screening area. Smaller wire sizes keep screen weights low for ease of handling and improved processing of wet materials.



Minimal spillage

Flashing and shielding fit tightly against the drum and conveyor, keeping material spillage to a minimum.



Grizzly (optional)

The grizzly is used to remove large material from entering the hopper and tips hydraulically with a handheld remote control.

516 Specifications

General

Weight: 33,980 lb (15,413.1 kg)
Hitch weight: 15,800 lb (7,166.8 kg)

Transport

Length: 38' (11.6 m)
Width: 102" (259.1 cm)
Height: 13.4' (4.1 m)

Operation

Length: 78.3' (23.9 m)
Width: 102" (259.1 cm)
Height: 15.9' (4.9 m)

Capacity

100 cu yd (76.5 m³) per hr with .5" (1.3 cm) screens installed and material with moisture less than 40%

Engine

Make and model: John Deere PE 4024T Tier 3
Cylinders: 4
Engine rating: 66 hp (49.2 kW) @ 2800 rpm 163 ft-lb (221 Nm) of torque @ 1600 rpm
System: Hydraulic
Fuel tank capacity: 100 gal (378.5 L)
Fuel consumption: 2.4 gph (9.1 L/h) under most operating conditions
Max engine angle of operation: 30°
Battery: 950 cold cranking amps
Oil filter type: Spin-on
Recommended oil: Mobile 15/40
Total oil volume with filter: 8.5 qt (8 L)
System voltage: 12 V, 70 amp alternator
Air cleaner: Dual element oversized
Radiator fan: Suction type

Hydraulics

Operates at 56.8 gpm @ 2500 psi (215 L/min @ 172.4 bar)
Tank capacity: 100 gal (378.5 L)

Frame

4 independent hydraulic jacklegs
Axle capacity: 22,500 lb (10,205.8 kg) tandem
Suspension: Leaf spring
Tire size: 235-75 R 17.5 H qty (8)

Hopper and Apron Conveyor

Hopper capacity: 5 cu yd (3.8 m³)
Hopper bottom width: 37" (93.8 cm)
Apron conveyor speed: 0 – 96 fpm (0 – 29.2 m/min)
Apron opening: 37" (94 cm) wide, 34" (86.4 cm) high
Hopper height: 9.5' (2.9 m) from ground level at operating incline
Hopper opening: 13.2' (4 m) x 5' (1.5 m)
Apron conveyor length: 15' (4.6 m)
Apron conveyor belt width: 42" (106.7 cm)
Apron conveyor impact rollers: 4" diameter (10.2 cm) qty (13)

Screen Drum

Drum operation: 0 – 21.3 gpm (80.6 L/min)
Drum motor: 32.7 cu in (535.9 cm³) displacement with brake
Diameter: 5' (1.5 m)
Drum support: Four steel trunnion rollers, 8" (20.3 cm) diameter, 4" (10.2 cm) wide
Thrust bearing: 5" (12.7 cm) diameter, 2.9" (7.2 cm) face
Drum speed: 0 – 22 rpm
Drum drive chain: 120 wt
Drum angle adjustability: 3° to 5°
Max screen panels: 4

Screen Brushes

Brush diameter: 14" (35.6 cm)
Bristle material: Polyethylene
Brush assembly support: Two 1.25" (3.2 cm) sealed ball bearings

Fines Conveyor

Conveyor operation: 12.7 gpm (48 L/m)
Conveyor motor: 32.7 cu in (535.9 cm³) displacement
Fines conveyor length: 60' (18.3 m)
Fines belt speed: 282 fpm (86 m/min)
Conveyor belt width: 36" (91.4 cm)
Conveyor belt type: 220 lb (99.8 kg), 2 ply, 3/16" x 1/16" (4.8 mm x 1.6 mm)
Conveyor belt stacking height: 14.5' (4.4 m) with drum at 4°
Head pulley type: Rubber lagged, 12" (30.5 cm) diameter, 38" (96.5 cm) wide
Head pulley bearing: 2.5" (6.4 cm) pillow block
Rubber flashing: Adjustable, .25" (.6 cm) thick, 4" (10.2 cm) wide
Troughing idler type: 20° CEMA "B" with permanently sealed bearings spaced at 24" (61 cm) centers
Self-cleaning tail pulley dimensions: 10" (25.4 cm) diameter, 38" (96.5 cm) wide with 2.4" (6.1 cm) shaft
Tail pulley takeup: 12" (30.5 cm)
Self-cleaning return idlers: 7, each 4" (10.2 cm) diameter
Fines conveyor frame: 4" x 8" x .25" (10.2 cm x 20.3 cm x .6 cm) structural steel tubing

Overs Conveyor

Overs conveyor length: 19' (5.8 m)
Max variable overs belt speed: 111 fpm (33.8 m/min)
Conveyor belt size: 36" (91.4 cm) wide with raised crescent
Conveyor belt type: 220 lb (99.8 kg), 2 ply, 3/16" x 1/16" (4.8 mm x 1.6 mm)
Conveyor belt stacking height: 3' (.9 m) x 11' (3.3 m)
Head pulley type: Rubber lagged, 12" (30.5 cm) diameter, 38" (96.5 cm) wide
Head pulley bearing: 2.5" (6.4 cm) pillow block
Self-cleaning tail pulley size: 10" (25.4 cm) diameter, 38" (96.5 cm) wide with 2.4" (6.1 cm) shaft
Tail pulley takeup: 12" (30.5 cm)
Solid return idler size: 4" (10.2 cm) diameter
Overs conveyor frame: 4" x 8" (10.2 cm x 20.3 cm) structural steel tubing

Wildcat Backs Every Product with Industry-leading Service and Support



When you need service, you can count on your local Wildcat dealer. With multiple locations, your local Wildcat dealer offers reliable service that keeps your equipment running.



Wildcat trommel screens have been designed with easy drum access, oversized conveyors and other features unique in the screening industry.

Visit www.wildcatmfg.com to view our line of products.

And for more information or to schedule a demo, contact your local independent, authorized Wildcat dealer today.



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