

# BOWIE

# HYDRO-MULCHER®

## 450

### Specifications for the Bowie 450

#### Engine:

14 HP Air cooled Gas  
Engine with Electric Start

#### Pump:

2" Bowie Gear Pump

**Length:** 90" (229 cm)

**Width:** 48" (122 cm)

**Height:** 56" (142 cm)  
59" w/fill pipe  
(150 cm)

#### Empty Weight:

1518 lbs. (689 kg)

#### Working Weight:

5275 lbs. (2393 kg)

#### Liquid Capacity:

450 US Gallons

1703 (Liters)

#### Standard Included

#### Parts and Equipment:

50' Yellow 1½" Hose

2-V Jet Nozzles

(EC1735 & EC1740)

2-Part F Quick Couplers

1-Part D Quick Coupler

1-Part B Quick Coupler

1-Part A Quick Coupler

Spanner Wrench

Parts Manual

Engine Manual

Warranty



**Bowie's 450** is the newest of our popular line of Hydro-Mulchers®. The low maintenance, ease of use and high productivity of the **Bowie 450 Hydro-Mulcher**® makes it a smart choice for the small contractor. The powerful Bowie 2300 pump can discharge through 200' or more of hose making the most inaccessible job a snap. With a recommended mulch capacity of 200 lbs of 100% wood or 250 lbs of 100% paper, the **Bowie 450** can cover 5,800 sq. ft. or 7,250 sq. ft. at a rate of 1,500 lbs/acre respectively. It is the perfect machine for the residential and small commercial markets!

#### For Information / Dealer Location:

[www.bowieindustries.com](http://www.bowieindustries.com)

1-800-433-0934



All specifications subject to change without notice.

## COVERAGE PER TANK LOAD

There is a lot of misinformation and confusion (sometimes intentional) about coverage rates per tank load. Coverage per tank load is a function of the amount of mulch put on the ground. In the event of hydroseeding (seeding not using any mulch), the coverage per tank load is almost limitless. The following is an attempt to shed some light on the situation and give some general information. Please keep in mind that there is no substitute for actual experience.

Variables: Type of mulch (virgin wood fiber, paper, blend, BFM's, FGM's), brand of mulch, additives making slurry "slicker", tower operation vs. hose, length of hose if using hose, experience or expertise of operator.

Generally: Using a quality brand of virgin wood fiber mulch, without an additive, shooting from the tower, with an average operator, a Bowie Hydro-Mulcher® will handle approximately 1 lb. of mulch per 2 gallons of water. The superior mechanical agitation with shredder bar and straight through plumbing system enables these heavier loading rates. The loading rates for paper mulch is approximately 2 lbs. of mulch per 3 gallons of water.

Basic Math: Generally, the benchmark rate for mulch application is 2,000 lbs. per acre. Since there are approximately 44,000 sq. ft. per acre, 1 lb. of mulch will cover 22 sq. ft.

Coverage Per Tank Load Chart: Using the above assumptions, the following chart gives the approximate coverage per tank load using a 2,000 lbs. per acre rate for virgin wood fiber and paper mulches.

Size	Virgin Wood Fiber	Paper
300	3,300 sq. ft.	4,400 sq. ft.
500	5,500 sq. ft.	7,333 sq. ft.
600	6,600 sq. ft.	8,800 sq. ft.
800	8,800 sq. ft.	11,733 sq. ft.
1100	12,100 sq. ft.	16,133 sq. ft.
1500	16,500 sq. ft.	22,000 sq. ft.
3000	33,000 sq. ft.	44,000 sq. ft.

Other Mulch Rates: The above chart is easily converted to other common mulch rates by using the following factors.

- 1,000 lbs. / acre - multiply sq. ft. by 2
- 1,500 lbs. / acre - multiply sq. ft. by 1.33
- 2,000 lbs. / acre - no adjustment necessary
- 2,500 lbs. / acre - multiply sq. ft. by .8
- 3,000 lbs. / acre - multiply sq. ft. by .67

Generally speaking, it requires a higher application of paper mulch to achieve the same results as with virgin fiber mulch. Please consider this when choosing paper vs. virgin wood fiber mulch.