



“Rack-Master”

*The Wine Industry’s Premier
Barrel Racking System*



Patent #D628,355

Patent #D646,044

**Reduces Costs • Protects Barrel Assets •
Improves Performance • Environmentally Responsible**



BONAR PLASTICS

www.bonarwineproducts.com



FEATURES

One Piece HDPE Design

-No welded joints or areas to trap bacteria;
More sanitary, easier to clean.

Corrosion Resistant

-No refurbishing or repainting required;
reduces maintenance costs.

Superior Impact Strength

-No denting or chipping; reduces
maintenance costs.

Smooth Plastic Surface

-Gentler on barrel assets;
reduced coefficient of friction with
barrel surface.

Pallet Jack Accessible

-Side entries are compatible with
standard pallet jacks (27" width).

Industry Leading 2 Year Warranty -

workmanship and materials. Steel racks
are 1 year and for workmanship only.

100% HDPE Recyclable

-More environmentally responsible.

Maximizes Barrel Oxygen Exposure

-Limits barrel contact points,
promoting airflow around
barrel.

7" Forklift Channels

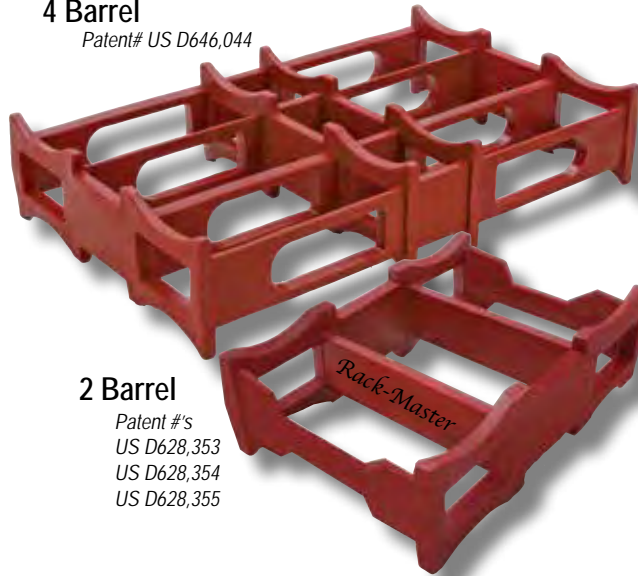
-Optimize handling and
clearance between stacked
barrels.

Gradual radius corner design

-No sharp corners;
decreases accidental damage
and improves worker safety.

4 Barrel

Patent# US D646,044



2 Barrel

Patent #'s
US D628,353
US D628,354
US D628,355

Optional Colors Available



Bung Access Port

-Allows access to bung port while barrels
are stacked for topping, stirring & sampling.

Size	Height	Width	Length	Weight
2 Barrel	16"	31 1/2"	45"	35 lbs
4 Barrel	15"	45"	71"	108 lbs

Rack-Master's revolutionary design helps wine makers focus more on making wine, rather than being burdened with rack and barrel maintenance issues. A unique all plastic construction provides complete corrosion resistance and a gentle surface texture that protects expensive oak barrels from unnecessary handling damage. Rack-Master is also built to last with unparalleled impact strength, which resists the denting and paint chipping associated with steel racks. This proven durability is backed by the industry's best warranty protection, offering twice the coverage of the nearest competitor.

The Rack-Master design is also very versatile in that every dimension was carefully crafted to accommodate the wine industry's most popular barrel handling and washing equipment, and is stacking compatible with existing steel barrel rack systems, making the switch to Rack-Master a seamless change for existing winery operations. Finally, if Rack-Master ever has to be replaced at the end of its useful life, Bonar Plastics has a return program, where used racks are welcomed back to be reprocessed into new racks, providing the wine industry with a documented cradle to grave solution.

Plastic Barrel Racks Prove to Handle Earthquakes Better than Steel!



Barrels stacked on plastic racks in Napa cellar close to the epicenter of the August 2014 quake.



Immediately after the 2014 Napa Quake at Ideology Cellars.

The ultimate benefit of the plastic rack construction was not realized until August 24, 2014, when the Napa Valley experienced their strongest earthquake in 25 years. In the aftermath of the quake, Bob Williamson of Ideology Cellars, visited the cellar storing his barrels to survey the damage, and couldn't believe his eyes. Standing by itself in a sea of collapsed steel barrel rack stacks was a single stack of plastic barrel racks. "It was unbelievable. I don't think a professional photographer could have photo shopped the cellar setting any better."

Seismic testing at UC Berkeley's Pacific Earthquake Engineering Research Center (PEER) in early March, confirmed that the real world results were indeed no fluke. In summary, Bonar's 2 barrel plastic rack passed 125% of the Napa quake's energy at the epicenter with barrels stacked 6 high. "We actually would have passed at a 150% or higher on the Loma Prieta earthquake test, but we neglected to rotate the bottom rack, which had sustained some damage after being exposed to five other tests prior," said Jones. The Loma Prieta Earthquake was in 1989, and responsible for 63 deaths, and 3,757 injuries.

UC Berkeley Seismic Test Validates Plastic Rack Advantage



2 Barrel Steel Rack Fails 100% of the Napa quake simulation.



2 Barrel Plastic Rack Passes 125% of the Napa quake simulation.

Rack-Master™ is not only proven SAFER, and More Protective of Barrel Assets and Property, but also lasts longer and improves environmental stewardship.

SOLUTIONS IN WINE MAKING



BULK BARREL

While allowing valuable oxygen molecules to permeate the vessel's sidewall, Bulk Barrel's unique proprietary design is virtually impermeable to water and alcohol vapor, which eliminates the leaking and routine topping requirements associated with oak barrel maturation. Moreover, the seamless one-piece interior construction is much easier to clean and sanitize before reuse, which eliminates the routine repair and maintenance costs created by aging oak barrels. Best of all, Bulk Barrel provides superior wine maturation at half the acquisition cost of oak barrels with an indefinite useful life.



WINETAINDER

Bonar is the only supplier to the wine industry that manufactures both stainless and plastic containers, which provides wine makers with more procurement options in producing all types of wines. Be it wine storage or fermentation, Bonar has a stainless solution, including a dimple heat transfer surface to facilitate targeted cooling objectives. All standard Wine Master products come equipped with a food grade interior weld finish.



BATCH TANKS

Long-lasting, corrosion-resistant tank systems provide maximum options for batch mixing, storage, dispensing and material handling.

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Other manufacturing facilities:

Marked Tree, Arkansas • Chowchilla, California • Philippi, West Virginia • Mancelona, Michigan • Bensenville, Illinois, West Chicago, Illinois

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