



***BARNUM***  
MECHANICAL INC.



**Barnum Mechanical's  
Patented Racking Arm  
for Sanitary Processing**

*Quickly and effortlessly draw down liquid  
without disturbing settled solids*

Barnum Mechanical Inc. (BMI) offers our patented racking arm for sanitary processing. Racking arms are used by producers of wine, beer, olive oil and other products to draw liquid from tanks without disturbing the settled solids on the bottom, or as an inlet port for pump-over and blending.

Our custom design allows you to draw liquid from the optimal position, just above the settled solids, to ensure you recover as much viable product as possible.

**Barnum Mechanical Inc.**

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Here are some of the unique features of BMI's patented racking arms that separate us from the competition in performance and value:

1. Our custom design and fabrication guarantee the optimal fit for your tank(s).
2. The 16-position synchronized indexing plate with locking plunger allows you to rotate the handle and angled suction tube to dial in the perfect height while allowing the operator to determine the angle from outside the tank. This precise positioning ensures minimal disturbance of must/sediment during product transfer.
3. Our design uses double seals with leak detection ports which allow monitoring the seal integrity without removal and safeguards the transfer of your product from the storage tank against contamination and product loss.
4. We use X-ring seals rather than standard O-rings to create more sealing surface. This increases the sealing capacity, creates less drag for easier rotation, and prevents the seal from twisting or rolling in the groove.
5. The extra-wide Eralyte®TX bearings have a low-friction coefficient and are custom-machined to maintain the tightest tolerances possible. This ensures the bearings retain their shape under stress and do not require maintenance.
6. The extended suction tube can be used as an inlet port for pump-over and blending operations.
7. The optional swivel joint between the suction tube and the hose permits you to change position of the racking arm while maintaining the hose orientation without the need to loosen the clamp (which can cause leaks).
8. Our custom flange features a free-draining profile that does not trap product, minimizes standing fluid, is easier to clean and allows for cleaning from spray heads during CIP.
9. We custom-build our racking arms with suction tubes up to 10 feet long to ensure you get just the right size for your process system.
10. We offer field installation (optional).

