

# Increase Centrifugal Capacity Up To 20%



**Q: How can I increase the capacity of my centrifugal without changing any other major components?**

**A: Replace steel with sugar!**

Our new ringless baskets allow you to **increase usable basket volume up to 20%** without changing your 2-speed motor or other major components. Our replacement ringless baskets utilize the same outside diameter but larger inside diameter by eliminating the need for steel support rings. Our ringless baskets provide the same **high purging performance** for which WESTERN STATES centrifugals are famous.

By using high strength **Duplex Stainless Steel<sup>[1]</sup>**, finite element analysis, 90 years of experience and good manufacturing practices, we have **eliminated hundreds of pounds of support rings** from the design of our baskets. Duplex stainless steel also has the added advantage of **superior pitting and corrosion resistance** due to its higher chromium, nickel and molybdenum content.

WESTERN STATES has been manufacturing ringless baskets up to 72" in diameter for many years because it allows us to design more efficient centrifugals. We can now offer this same design advantage to our customers who operate the thousands of WESTERN STATES Centrifugals around the world.

## **SUMMARY:**

- **Approximately 20% more sugar per batch:**
  - 48" x 30" volume increases from 15.7 ft<sup>3</sup> to 19.1 ft<sup>3</sup>
  - 48" x 36" volume increases<sup>[2]</sup> from 18.8 ft<sup>3</sup> to 22.8 ft<sup>3</sup>
  - 54" x 40" volume increases from 23.9 ft<sup>3</sup> to 29.7 ft<sup>3</sup>
- **Same superior purging capability as our ringed baskets**
- **Improved corrosion resistance compared to carbon steel**
- **No other major modification required<sup>[3]</sup>**



*Baskets have a long life, but when you do need to replace a basket, why not get up to 20% more capacity?*

**Accelerating and decelerating a ton or more of steel and sugar to 1,200 rpm is no simple undertaking.** Don't risk the safety of your people, production downtime or costly repairs by using anything other than **genuine WESTERN STATES parts**. WESTERN STATES is known for designing and manufacturing the most reliable centrifugals in the world for 90 years, *without a single catastrophic basket failure* due to design, materials or manufacturing.



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1. Yield strength is approximately 2X that of austenitic steel.
2. 48"x36" is limited to 23 cycles per hour in this configuration.
3. Basket screens are longer but the same height and the discharger blade tip may need to be increased about 1" in length.

