MYERS Engineering, Inc.

The first name in mixers and dispersers

THE 850 SERIES

Dual shaft high-speed dispersers with <u>four</u> overlapping blades for fast, extra fine dispersion, often eliminating the need for sand milling.



The Model 850 is available in laboratory to production sized units.

Photos show a large production sized unit and a laboratory unit built on an optional working table.





Myers 850

<u>Features and Applications</u>

The Myers 850 has replaced sand milling in the manufacturer of maintenance enamels and primers saving in production costs and time. Its fast loading, efficient dispersion and low air entrapment make it ideal for latex paints and high viscosity oil house paints.

It is particularly good for producing high gloss enamels, semi-gloss enamels, wire and can coating type materials where only a straining operation is required after dispersion of the pigment.

Hundreds in use around the world

<u>Motor Choices</u>

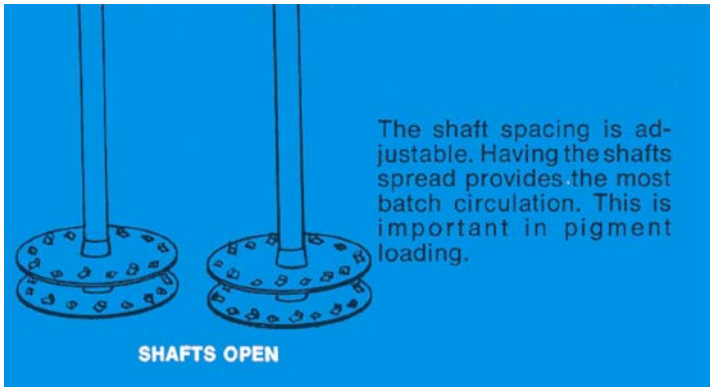
A single motor unit can have up to 200 HP with variable speed on each shaft.

Dual motors are used on larger units with up to 100 HP on each shaft. With two motors there is less starting load (for one motor can be started at a time) and less expensive starting equipment. With separate motors, separate speed control can be provided for each shaft.

8376 Salt Lake Avenue - Bell, California 90201-5816 Phone: (323) 560-4723 Fax: (323) 771-7789
www.myersmixer.com sales@myersmixer.com

Myers Engineering, Inc. 850 Disperser

Blade Configuration





Advantages of the MYERS high-speed 850 disperser

1. **Faster pigment loading:** At the start, the shafts are placed in the open position, impellers not overlapping. This gives excellent batch circulation and minimizes the possibility of dumping pigment too rapidly. If pigment is allowed to float on the surface, agglomerates can form which later produce lumps in the dispersion. There is less dusting of pigment while it is being added to a batch.

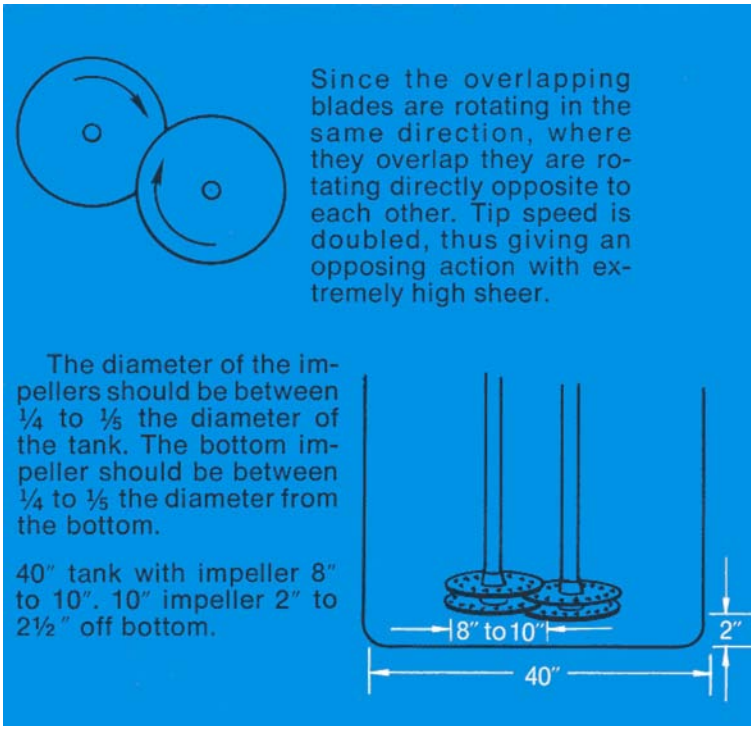
2. **Less heat build-up:** With the impellers in the open position, the batch can be loaded faster and at relatively low speeds, thereby keeping the temperature down.

3. **Better dispersion:** After the wetting of the pigment is completed, the shafts are moved to the closed position (impellers overlapping) and the speed is adjusted to the high range. You now have three intense zones of high shear in addition to the zone of attrition at the edge of the blades. It is obvious that the dispersion is going to be much greater than with a single shaft, single blade type of operation.

4. **Less air entrapment:** The vortex created by the multi-shaft disperser is not as deep as a single shaft, and therefore is less likely to introduce air into the product. This is extremely important in latex paints and thixotropic alkyd paints.

5. **Faster:** Dispersions are obtained much faster than on a single shaft machine.

6. **Wider viscosity range:** Material with a viscosity too low to allow a good dispersion on a single shaft machine may be dispersed successfully on the 850. Because of the type of circulation, there is lesser tendency to splash at low viscosities. The overlapping impellers tend to promote laminar flow over a wider range than a single shaft unit.



8376 Salt Lake Avenue - Bell, California 90201-5816 Phone: (323) 560-4723 Fax: (323) 771-7789
www.myersmixer.com sales@myersmixer.com