



The Major
Mixer Are
Of Repair

Strong Lightbulb
Also Available

Hollow Shaft
Allows For Ea
f Product Ad
Be Remove

Oversize Factor
Extra Long
No Greasing
Isolates Shaft
Better than

Clamp Collar
Set Screws
Clamp Will No

Up to 5 Feet
of Propeller



Mixing and Process Equipment

2007 Mixer Catalog

(203) 375-0063

<http://www.sonicmixing.com/>

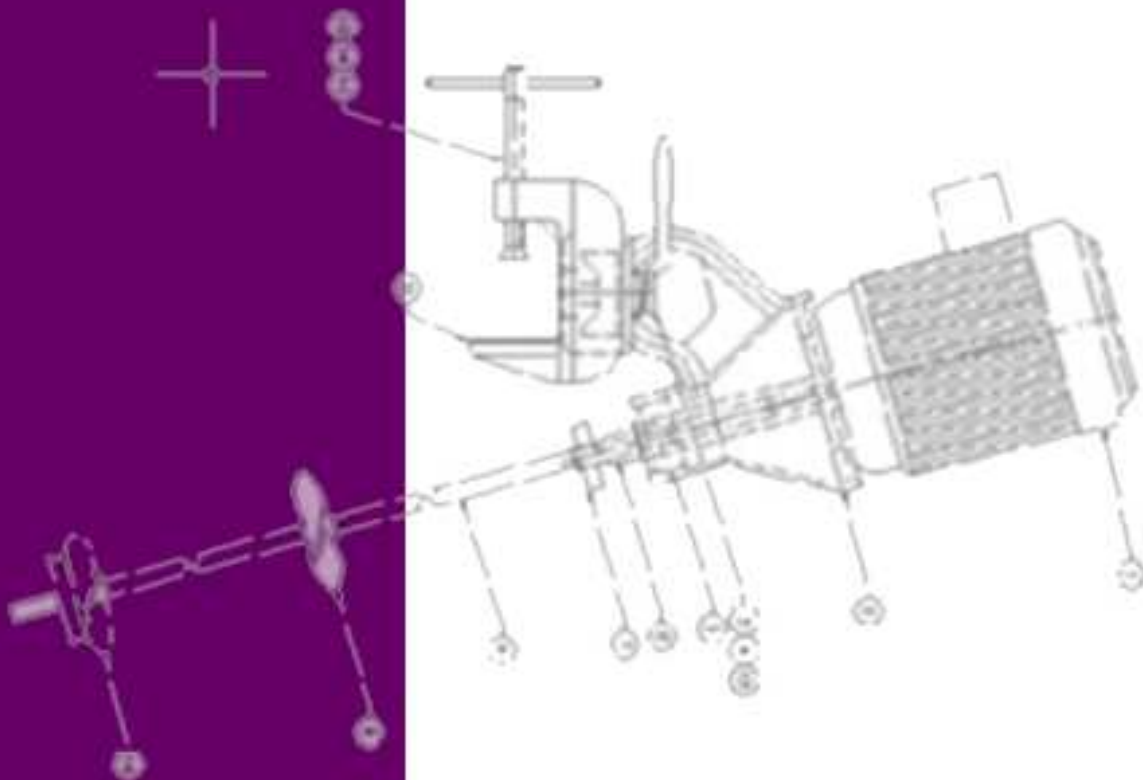
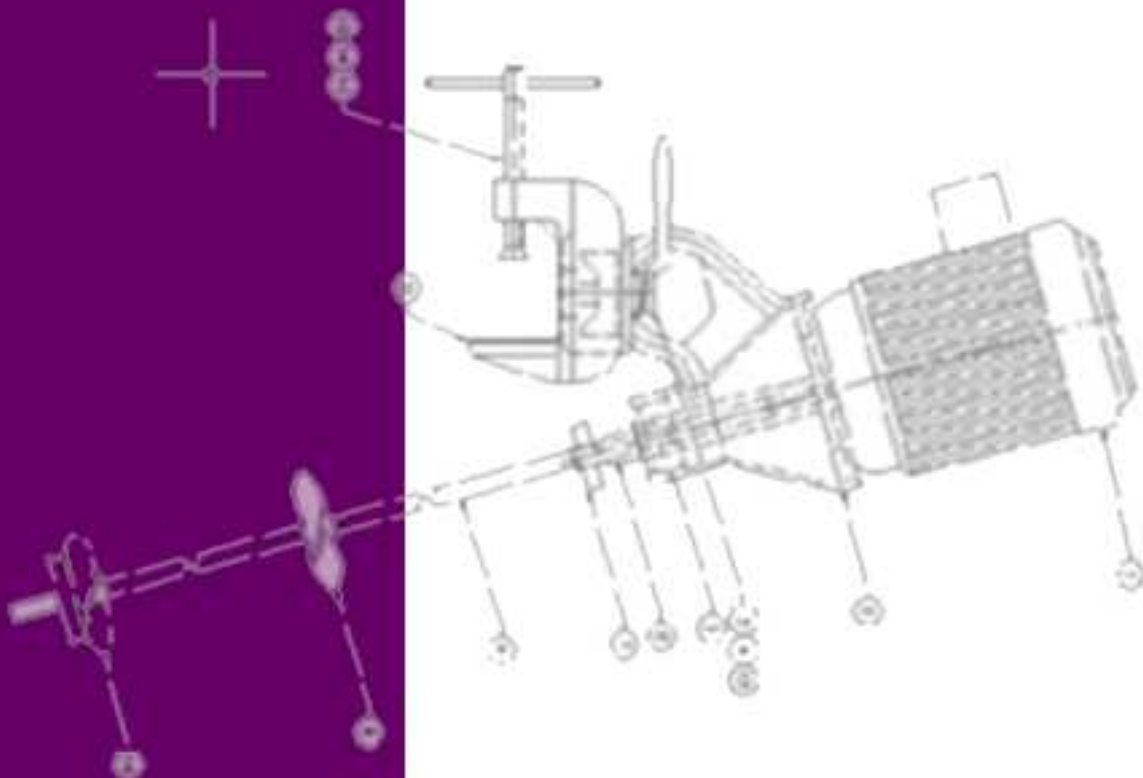




Table of Contents

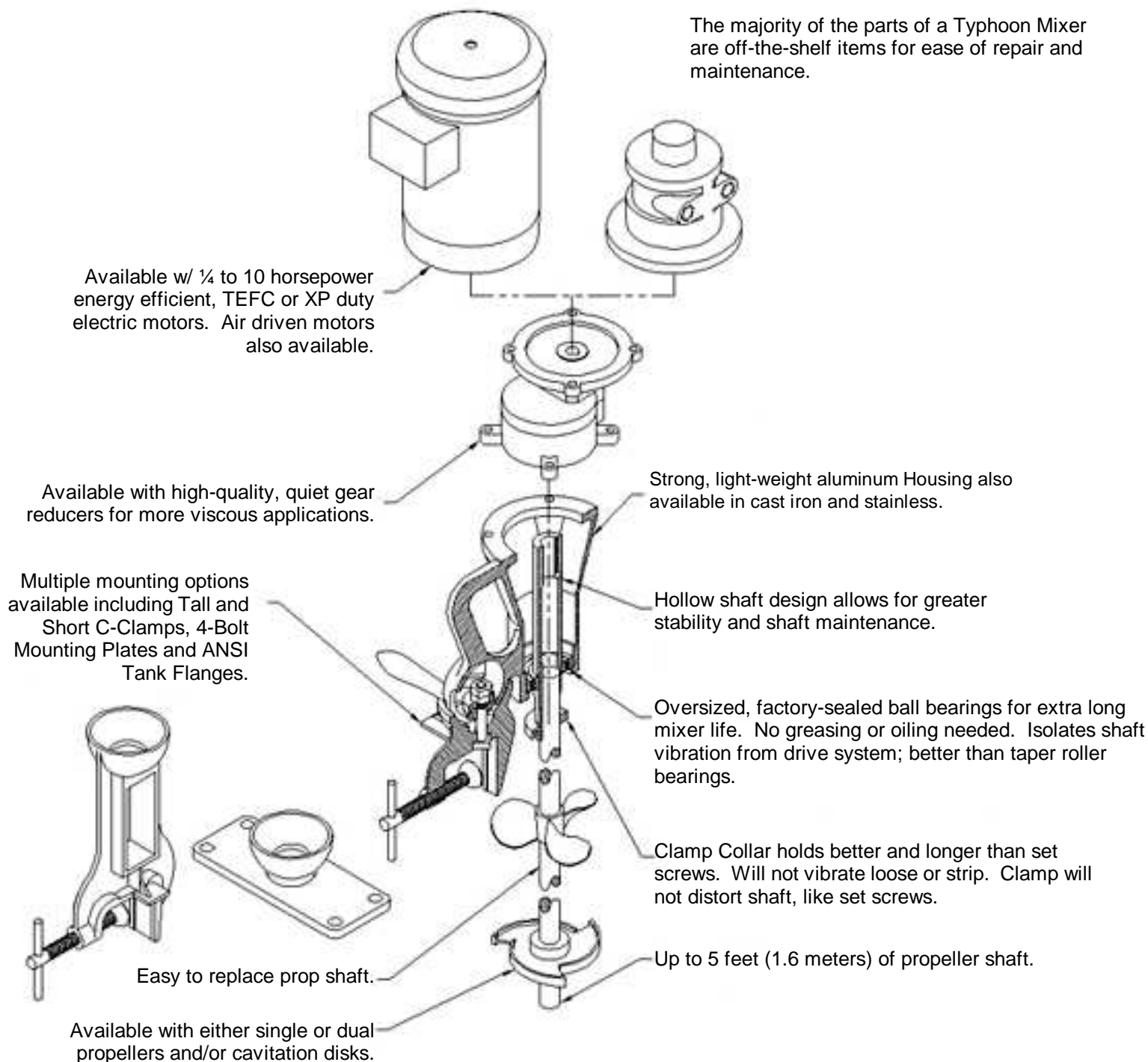
About Sonic's Mixers
 The Typhoon Mixer Assembly
 The Typhoon Portable Mixer
 Mixer Installations
 Mixer Designs
 Mixer Sizing Chart
 Mixer Models and Specs



Sonic Typhoon Mixers



The Sonic Typhoon Mixers are extremely durable propeller mixers. Fabricated with extra-wide bearings for stability and strength, these mixers are a step above your average catalog mixers. See the illustration below to better understand this mixer's benefits and features.



The majority of the parts of a Typhoon Mixer are off-the-shelf items for ease of repair and maintenance.

Available w/ ¼ to 10 horsepower energy efficient, TEFC or XP duty electric motors. Air driven motors also available.

Available with high-quality, quiet gear reducers for more viscous applications.

Multiple mounting options available including Tall and Short C-Clamps, 4-Bolt Mounting Plates and ANSI Tank Flanges.

Strong, light-weight aluminum Housing also available in cast iron and stainless.

Hollow shaft design allows for greater stability and shaft maintenance.

Oversized, factory-sealed ball bearings for extra long mixer life. No greasing or oiling needed. Isolates shaft vibration from drive system; better than taper roller bearings.

Clamp Collar holds better and longer than set screws. Will not vibrate loose or strip. Clamp will not distort shaft, like set screws.

Easy to replace prop shaft.

Up to 5 feet (1.6 meters) of propeller shaft.

Available with either single or dual propellers and/or cavitation disks.

The Sonic Typhoon Mixer does it better. Our hollow shaft design and extra-wide bearing assembly provide the stability and durability needed for a long life mixer. Most mixer assemblies have shafts that are mounted to the motor by way of an inferior coupling that uses set screws, which allows the motor and drive assembly to be subjected to vibrations caused by the mixing. Our design prevents this, making for a better, longer lasting mixer!



Sonic Typhoon Mixers

A superior line of portable mixers for continuous, heavy-duty service. Sonic Typhoon Mixers are assembled on-site and tested prior to shipment. They are available with 1 year warranty on all parts.

- **Mixing**
- **Blending**
- **Dispersing**
- **Dissolving**
- **Suspensions**



Motors and Gearboxes:

1/4 to 10 horsepower

Electric 110, 240-480 vac, 575 vac, 1/3 phase, 50/60 Hz

Direct Drive

Gear Drive

Air Drive

Process Material:

Water to 500 cps Direct Drive Mixer

500 – 4000 cps Gear Drive Mixer

Water-like chemicals to heavy oils

Heavy solids loading to creams

VFD:

VFD Controllers available from Hitachi, Allen-Bradley, AC Tech, Siemens, Mitsubishi, ABB and more. Fabricated at Sonic w/ enclosure, wiring, controls, etc.



Materials of Construction:

304-316L Stainless

Cast iron and steel

Teflon coatings available for shaft

Teflon coating for prop

Prop Speeds:

420 rpm Gear Drive Mixer

1125 to 1750 rpm Direct Drive

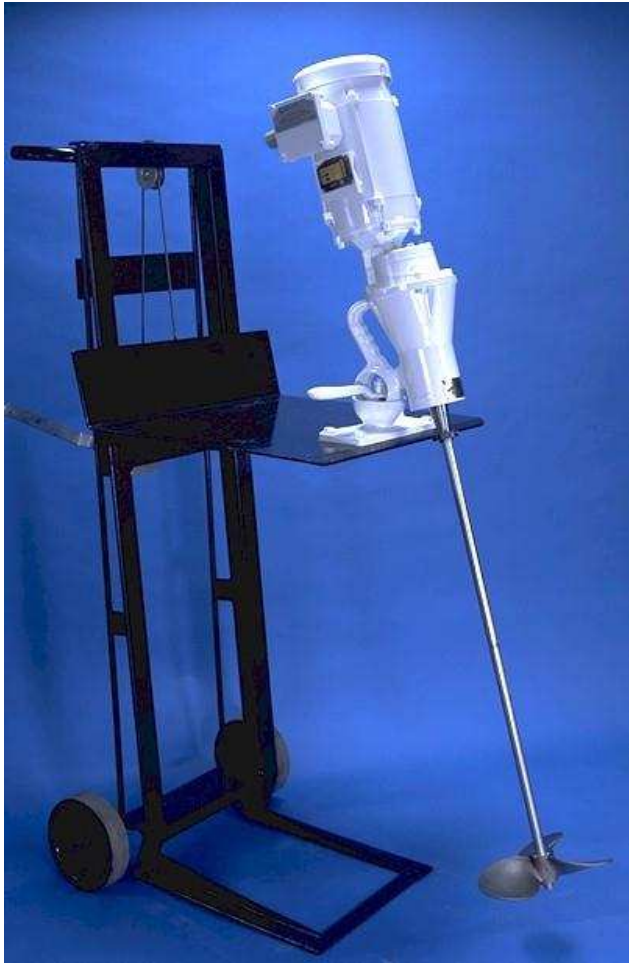
Variable w/ VFD Controller

Variable w/ Air Drive Mixer



Mixer Installations

Sonic Typhoon Mixers can be installed in a number of ways ranging from portable stands, used widely when mixing in small containers up to 55 gallon drums, to vertical and horizontal mounting brackets and clamps. Installations also include top mounting flanges and bung flanges.



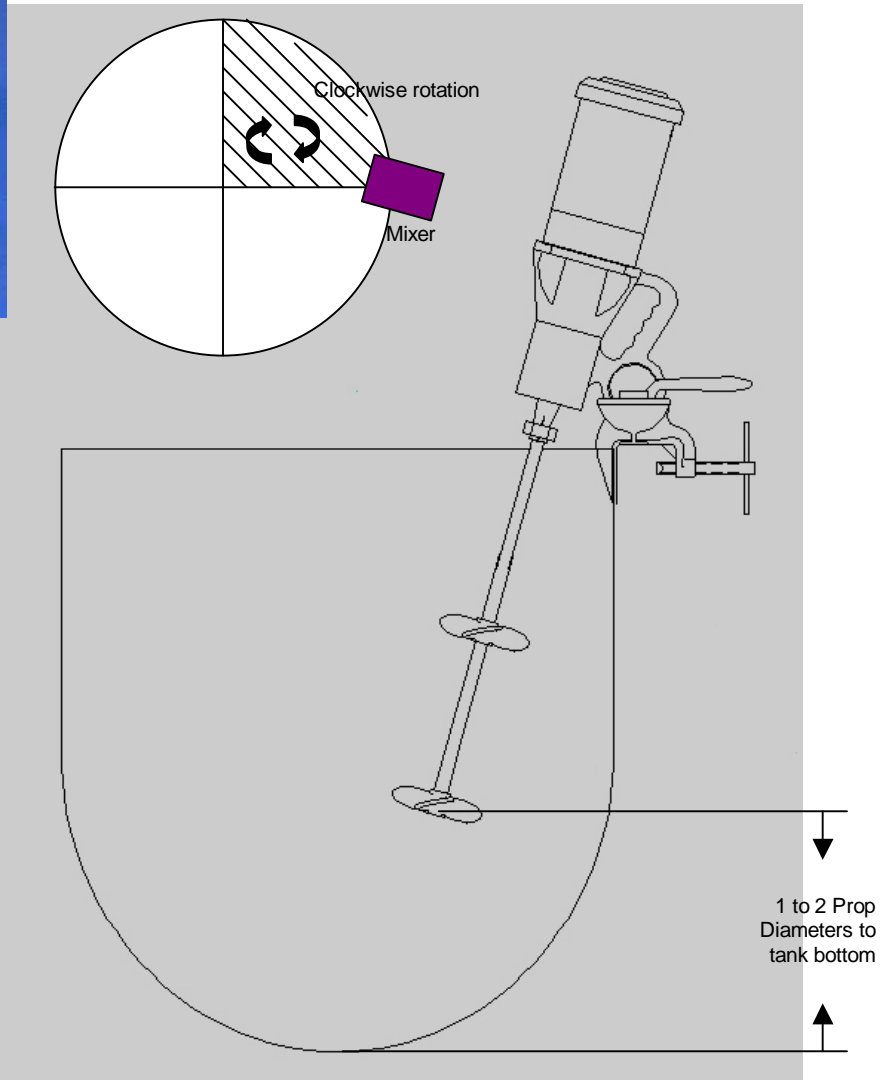
Sonic provides customized or commercially available stands and carts for Typhoon Mixers. These allow for convenient mixing in drums and pails and make it safe for operators to move the mixer from one location to the next.

Mixers can easily be mounted on the sides of tanks using a C-Clamp style mounting clamp. Our ball and socket design allows the mixer to be shifted back-and-forth and side-to-side, allowing for efficient prop placement within the vessel.

Positioning of the Mixer

Positioning of the mixer is critical to success. In many cases it is best to mount props with the pitched face down to thrust material downward.

Position the prop in the first quadrant to the right of the mixer from motor end. A left-handed (standard) propeller should rotate clockwise from motor end in that quadrant.





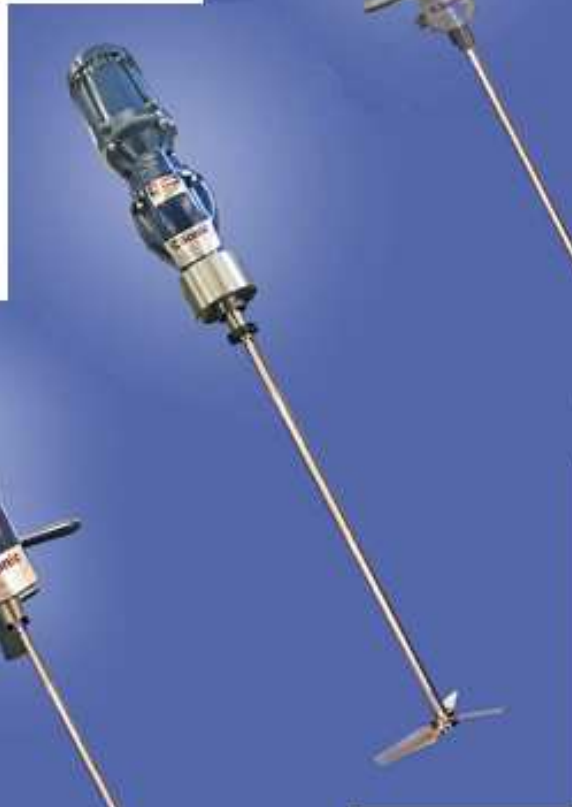
Various Mixer Designs

Sonic Typhoon Mixers come in a variety of designs. We offer Air Driven Mixers, Bung-Mount Mixers, Washdown Duty Mixers, and Lift Mount Mixers. We offer a full line of Standard units. We also have the capability to custom engineer/modify designs to meet your needs.

Washdown Duty Rated Mixers; 316 stainless Motor option available, or use standard Washdown Duty rated motors by Baldor!

Bung Mount Mixer available to fit standard threaded Bung opening.

Air Drive Mixer uses Gast or other brand to provide non-electrical motor option.



Lift Mount Mixers use commercially available winch style lifts with casters for mobility. This provides a flexible option for mixing in pails, drums and small tanks.



Typhoon Mixers are available in various sizes. Use the chart below to estimate what size mixer may be needed for the job. Then visit our website, <http://www.sonicmixing.com/id25.htm>, and select the Mixer Inquiry pdf Form, print, fill out and fax to (203) 378-4079.

Tank Capacity (gallons)

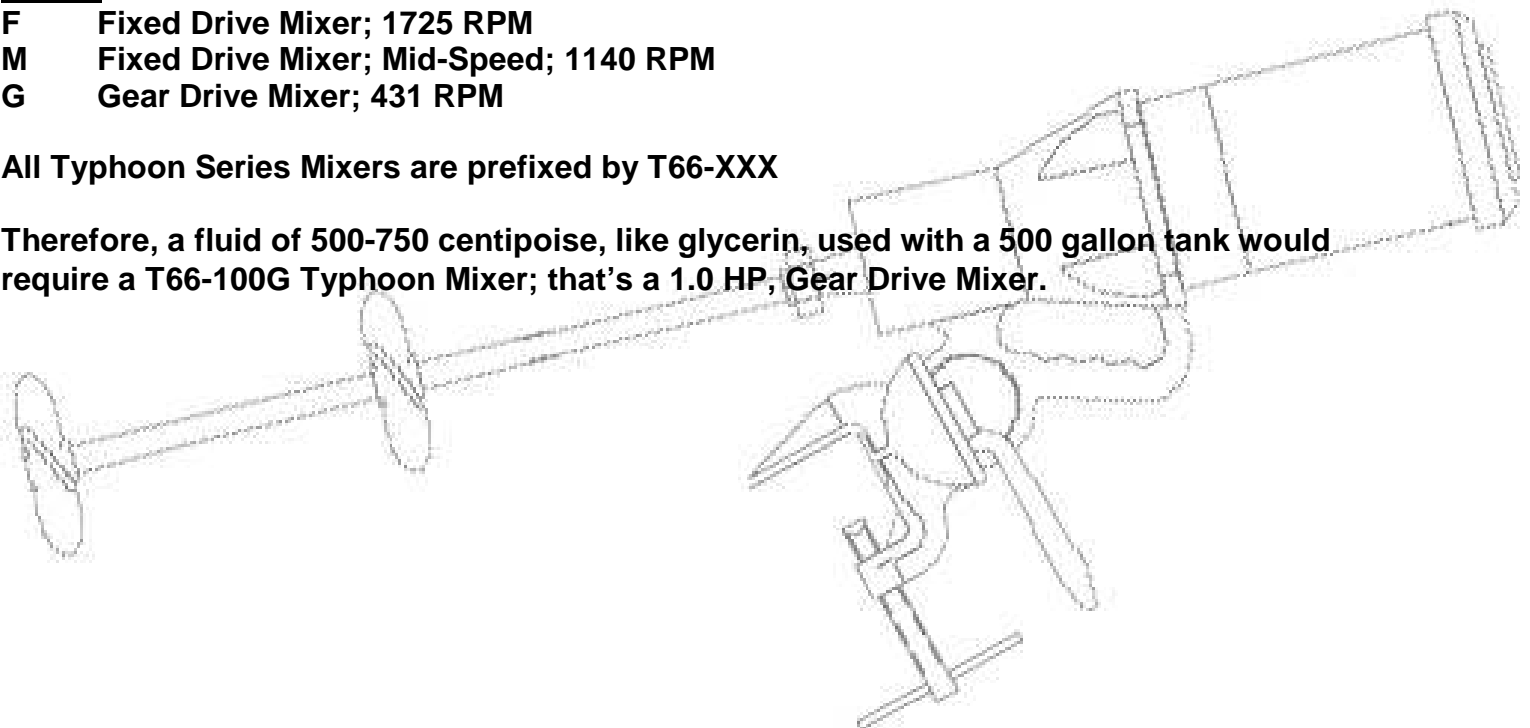
| <i>Typical Liquid Viscosity</i> | <i>Viscosity CPS</i> | 50 | 100 | 250 | 500 | 750 | 1000 | 2000 | 3000 |
|---------------------------------|----------------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|------|
| Corn Syrup | 3000 | 75G | 150G | 300G | | | | | |
| Therminol | 2000 | 50G | 75G | 150G | 300G | | | | |
| Bunker C Oil | 1000 | 200M 33G | 50G | 75G | 150G | 300G | | | |
| Glycerin | 500 | 150F 100M | 200M 50G | 75G | 100G | 150G | 200G | | |
| Varnish | 250 | 50F | 75F | 150M 50G | 300M 75G | 100G | 150G | 300G | |
| SAE #20 Oil | 100 | 33F | 50F | 75F 25G | 100M 50G | 150M 75G | 300M 100G | 200G | 300G |
| SAE #10 Oil | 50 | 25F | 25F | 50F 25G | 150F 33G | 100M 50G | 200M 75G | 150G | 200G |
| Water | 1 | 25F | 25F | 50F | 100F 25G | 100M 33G | 150M 50G | 300M 100G | 150G |

Notes:

- F** Fixed Drive Mixer; 1725 RPM
- M** Fixed Drive Mixer; Mid-Speed; 1140 RPM
- G** Gear Drive Mixer; 431 RPM

All Typhoon Series Mixers are prefixed by T66-XXX

Therefore, a fluid of 500-750 centipoise, like glycerin, used with a 500 gallon tank would require a T66-100G Typhoon Mixer; that's a 1.0 HP, Gear Drive Mixer.





Mixer Models and Specs

Sonic Typhoon Mixers come in a variety of models using various prop sizes and shafts.

TYPHOON - Electric Models

| <u>Model</u> | <u>Horsepower</u> | <u>Prop</u> | <u>Shaft</u> | <u>Dual Props</u> |
|-------------------------------------|--------------------------|--------------------|---------------------|--------------------------|
| <u>Direct Drive 1725 rpm</u> | | | | |
| T66-25F | 1/4 HP | 4" | 5/8 x 30" | 3" |
| T66-33F | 1/3 HP | 4" | 5/8" 36" | 3" |
| T66-50F | 1/2 HP | 5" | 3/4 x 42" | 4" |
| T66-75F | 3/4 HP | 5" | 3/4 x 48" | 4.5" |
| T66-100F | 1 HP | 6" | 3/4 x 54" | 5" |
| T66-150F | 1.5 HP | 6" | 1 x 54" | 5" |
| T66-200F | 2 HP | 6" | 1 x 60" | 5" |
| T66-300F Dbl Clamp | 3 HP | 7" | 1 x 60" | 6" |
| | | | | |
| T66-25V | 1/4 vs | 4" | 5/8 x 42" | 3" |
| T66-50V | 1/2 vs | 5" | 3/4 x 42" | 4.5" |
| <u>Direct Drive 1150 rpm</u> | | | | |
| T66-100M | 1 HP | 7" | 1 x 48" | 6" |
| T66-150M | 1.5 HP | 8" | 1 x 54" | 7" |
| T66-200M | 2 HP | 8" | 1 x 60" | 7" |
| T66-300M | 3 HP | 9" | 1-1/8 x 60" | 8" |
| <u>Gear Drive 431 rpm</u> | | | | |
| T66-25G | 1/4 HP | 10" | 3/4 x 30" | 7" |
| T66-33G | 1/3 HP | 11" | 3/4 x 36" | 9" |
| T66-50G | 1/2 HP | 12" | 3/4 x 48" | 10" |
| T66-75G | 3/4 HP | 13" | 3/4 x 48" | 11" |
| T66-100G | 1 HP | 14" | 1-1/8 x 48" | 12" |
| T66-150G | 1.5 HP | 15" | 1-1/8 x 54" | 13" |
| T66-200G | 2 HP | 16" | 1-1/8 x 60" | 14" |
| T66-300G | 3 HP | 17" | 1-1/8 x 60" | 15" |
| T66-500G | 5 HP | 17" | 1-1/8 x 60" | 15" |
| T66-25VG | 1/4 vs | ** | 5/8 x 36" | |
| T66-50VG | 1/2 vs | ** | 3/4 x 48" | |

** Props to
be
determined

Note: 200G & 500G are double clamp



Mixer Models and Specs

Sonic Typhoon Mixers come in a variety of models using various prop sizes and shafts.

AIR DRIVE TYPHOON MIXERS

| <u>Model</u> | <u>Horsepower</u> | <u>Speed RPM</u> | <u>Prop</u> | <u>Shaft</u> | <u>Dual Props</u> |
|---------------------|--------------------------|-------------------------|--------------------|---------------------|--------------------------|
| T66-4A-1 | 1.25 | 2000 | 4" | 5/8 x 36" | 3" |
| T66-4A-2 | 1.0 | 1500 | 6" | 3/4 x 48" | 5" |
| T66-4A-3 | 0.75 | 1000 | 8" | 3/4 x 48" | 6" |
| T66-4A-4 | 0.50 | 700 | 9" | 3/4 x 48" | 7" |
| T66-4AG-1 | 1.25 | 500 | 12" | 1 x 48" | 10" |
| T66-4AG-2 | 0.75 | 300 | 14" | 1-1/8 x 54" | 12" |
| T66-6A-1 | 2.25 | 2000 | 6" | 3/4 x 48" | 5" |
| T66-6A-2 | 1.75 | 1500 | 7" | 3/4 x 48" | 6" |
| T66-6A-3 | 1.25 | 1000 | 9" | 3/4 x 48" | 7" |
| T66-6A-4 | 1.0 | 700 | 10" | 3/4 x 48" | 8" |
| T66-6AG-1 | 2.25 | 500 | 14" | 1-1/8 x 54" | 12" |
| T66-6AG-2 | 1.50 | 300 | 15" | 1-1/8 x 54" | 12" |
| T66-8A-1 | 3.75 | 2000 | 7" | 1 x 48" | 6" |
| T66-8A-2 | 3.20 | 1500 | 8" | 1 x 48" | 6" |
| T66-8A-3 | 2.33 | 1000 | 10" | 1 x 48" | 8" |
| T66-8A-4 | 1.80 | 700 | 11" | 1 x 48" | 9" |
| T66-8AG-1 | 3.75 | 500 | 16" | 1-1/8 x 60" | 14" |
| T66-8AG-2 | 2.75 | 300 | 17" | 1-1/8 x 60" | 15" |

Air Mixer Accessories

4A

- AM09103 Air Filter, Gast AH103F
- AM09103B Air Filter, SMC NAF3000-N02
- AM09104 Regulator, Gast AH104R
- AM09140B Regulator w/gauge, SMC NAR3000-N02G
- AM09105B Lubricator, SMC NAL3000-N02-3

6A & 8A

- AM09106 Air Filter, Gast AH106F
- AM09106B Air Filter, SMC NAF4000-N04
- AM09107 Regulator w/gauge, Gast AH107R
- AM09107B Regulator w/gauge, SMC NAR4000-N04G
- AM09108 Lubricator, Gast AH108L
- AM09108B Lubricator, SMC NAL4000-NO4-3