

MIXTEC UNIVERSAL MIXERS



MIXTEC
FOR MIXING TECHNOLOGY



RESEARCH & DEVELOPMENT

O ur many years of experience within the chemical and process industries has given us the "know-how" and track record for almost any mixing application. The key to our growth and reputation is our constant research and development policy and our own laboratory will guide you to the correct selection of equipment to meet your own exacting standards. Where process information is unknown, our engineers will help provide the right solution as well as advise on tank baffles, mounting structure and nozzle orientations. A mixer is simply a means of achieving a desired process

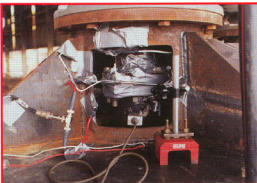
result. At Mixtec we understand this and we understand the large number of elements that have to be combined to achieve this objective. Research and testing facilities allow us to analyse and solve new mixing challenges as well as constantly improving product reliability. Mixtec has an in-depth understanding, not only of the behaviour of all fluids under varying conditions, but also of the vessel containing them and most important of all, an experienced and dedicated professional team to combine all the elements to maximise your process results.



Mixer test facility

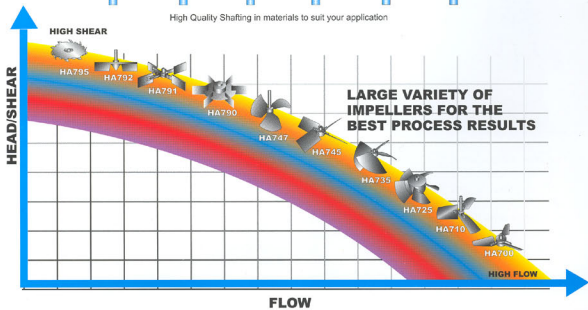
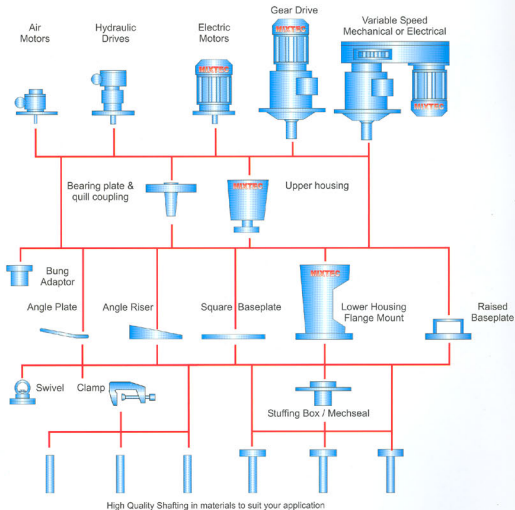


Laboratory strain gauge analysis on new impeller



On site strain gauge testwork

INTERCHANGEABILITY



VERSATILITY



200 f Bung Adaptor



Angle Plate



G Clamp



Swivel G Clamp

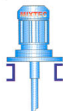


Swivel Mount



Angle Riser

SERIES 250 & 500 RIM MOUNTING



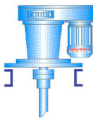
Direct Drive



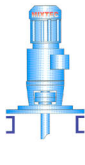
Monobloc Drive



Co-axial In Line Drive



Variable Speed Drive



Raised Baseplate

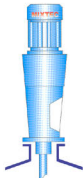
SERIES 1000 BASEPLATE MOUNTING



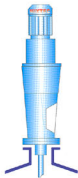
Flange Mount Direct Drive



Flange Mount Gear Drive



Flange Mount with Input Adaptor



Flange Mount with Bearing Cartridge for High Tank Pressure Application

TANK MOUNTINGS NOT MIXTEC SUPPLY

SERIES 2000 FLANGE MOUNT

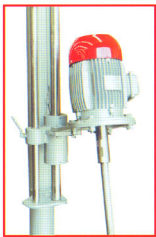
The Mixtec Series of industrial mixers offers a wide variety of motor enclosures and drives to suit your process requirements. This combined with a comprehensive range of impeller types allows our Application Engineers to custom manufacture agitators to suit your process conditions and Mixtec backs up its selected expertise with both a **process and mechanical guarantee**.

When process conditions change, these simple and flexible designs can be inexpensively modified,

thereby increasing the mixers life span and increasing plant efficiency. State of the art impeller systems will also ensure low operating costs and high productivity.

Air motors are of the floating vane type and speed control is achieved by adjustment on the air inlet valve. An exhaust muffler is also fitted to ensure quiet operation. Electrical motors can be TEFC, weather resistant, hose resistant or flame resistant. Other enclosures are available on request.

PRODUCTION



Series 250

Variable and fixed speed units from laboratory to large commercial scale applications. These units are normally used for small, rim mount models, or in larger applications, for high shear and emulsification duties.



Series 500

Light and portable side mount or fixed mount units, ideal for water treatment, chemical make-up, food processing and similar duties.



Series 1000

This versatile, medium duty range of robust drives can be used on open tank applications, requiring a base-plate mounting. Generally used for blending, or solids in suspension, as well as gas dispersion applications.



Series 2000

This flange mounted model allows it to be directly installed on a closed tank application. It also comes with a variety of sealing devices such as a lip seal, dust cover, moat seal, stuffing box, or mechanical seal.



High pressure mechanical seal design for autoclave application.



INSTALLATION

Correct installation is as important as correct mixer design. When installing your mixer, follow one of the recommendations below, to ensure the success of your application. New impeller technology is constantly changing the size and position of impellers and baffles. Confirmation of the correct number and type is given on application.



Diagram 1

RIM MOUNT

The mixer shaft should be angled 5 - 15° from the vertical wall of the tank and considering a point at which the mixer is mounted as a centreline, pointed 15 - 30° to the right, see diagram 1 above. If more swirl required, move the mixer 5 to 10° to the right.



Diagram 2

ANGLE MOUNT

As an alternative to the rim mount system, an angle mount unit or riser can be used. This is generally applied in larger tanks and the degree of offset from the centreline is Calculated for each application and installed as shown in diagram 2.



Diagram 3

OFFSET

In light applications, such as flocculation, or light blending duties, a vertical offset mounting, can be used as seen in diagram 3 above. This simple arrangement is a very efficient way of agitating HDPE tanks or similar vessels.

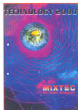


Diagram 4

TANK BAFFLES

In larger applications, especially where solids in suspension or gas dispersion is required, the Mixtec recommendation is for 4 or 3 vertical anti-swirl baffles as shown in diagram 4 above. These are normally 1/12 of the tank diameter in width.

OTHER MIXTEC AGITATORS



MIXTEC

FOR MIXING TECHNOLOGY