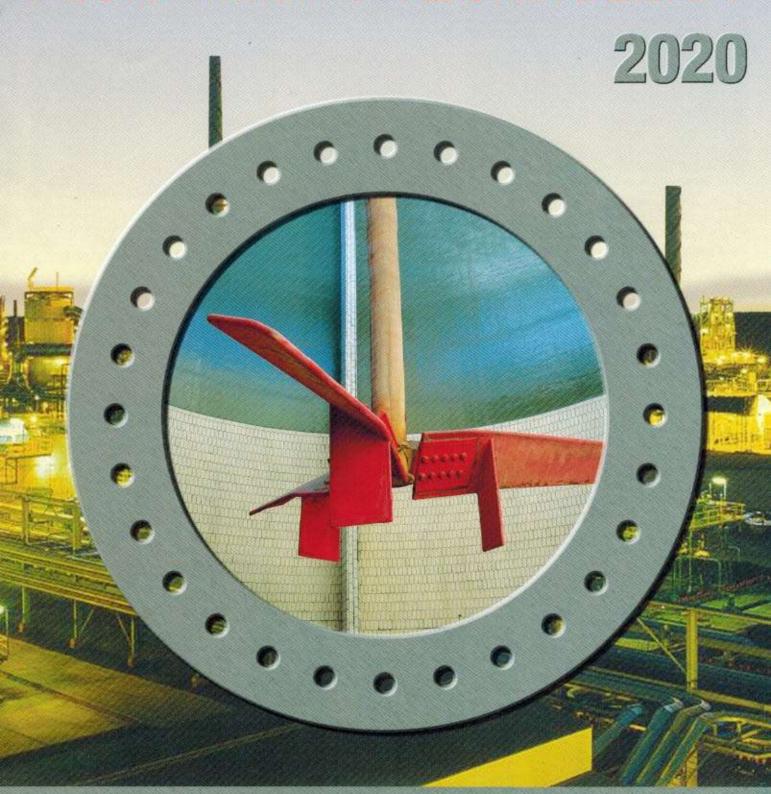
MIXTEC

FLUID MIXING TECHNOLOGY



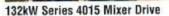
PERFECT VISION INTO GOOD MIXING PRACTICE

75 Years of experience and know how

Profile

Mixtec International has seven manufacturing plants strategically placed around the world to give you, our customer, the service and fluid mixing technology that you require, when you require it.

Each plant has its own research and development as well as design, engineering and commissioning personnel who are trained to solve your mixing problems with the latest fluid mixing technology.



For 75 years, the Mixtec group has been engaged in mixing technology. Since 1930 as Kestner Industries, UK Mixtec has been committed to quality, reliability and service Mixtec Agitator shaft coupling and support collar



Whether your requirements are simple blending of solids suspension to the more exacting standards of multiple complex reactions, Mixtec has the capability and experience to suit your needs.

Mixtec's proven track record of thousands of installations around the world bears witness to our success and our commitment to good mixing practice.

Dual 6.0m Dia HA715 Impellers

Good Mixing practice starts with product research and development



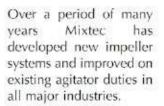
This enables Mixtec to produce custom made equipment and cost effective solutions to your mixing problems.

Our laboratory can guide you in the correct selection of impeller systems as well as in-tank items such as Sparge ring design and baffle arrangements.



Complex fluid flow and gas dispersion test rig.

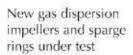
Research into optimum tank characteristicsbaffling-inlet-outlet configuration and optimisation of gas sparge.

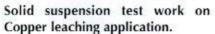






Using established scale up procedures accurate and predictable process results are obtained.





Mixtec is in constant contact with operators and all important research institutes around the world in order to offer the very best solution to your agitation problems





Good Mixing practice - selecting the right drive for the job



Mining and Refining Agitators for all duties



Gold, Platinum. Uranium, Silver, Copper, Nickel, Zinc

Cobalt, Tin, Aluminium, Lead, Mineral Sands and others



In 1980 thirty 75kW draft tube agitators were supplied to Rand Mines Milling and Mining for the processing of Gold Dumps

around Johannesburg, South

Africa.

Using the new CIP Adsorption technology these units have now treated over 50 million tonnes of rock resulting in the recovery of over 40,000kg of Gold.



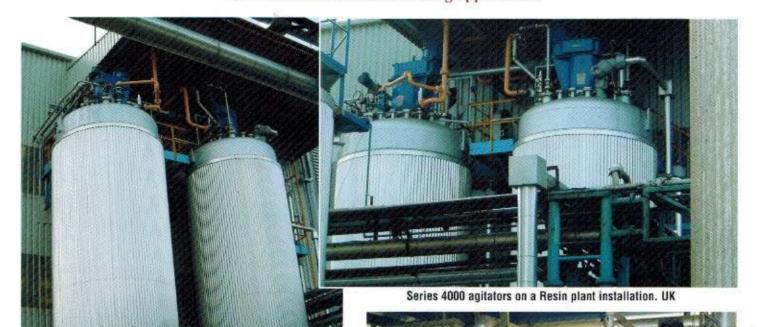
Mixtec has extensive knowledge of solvent extraction pump secondary and auxillary mixer duties.



75kW Precipitation Reactor

Process duties require an efficient and reliable solution. Mixtec has the track record, technology and equipment.

Chemical and Industrial mixing applications



Chemical processing has some of the most varied and difficult agitation problems.



Chemical plant. Malaysia





Special solvent extraction column with 28 stage counter current agitation

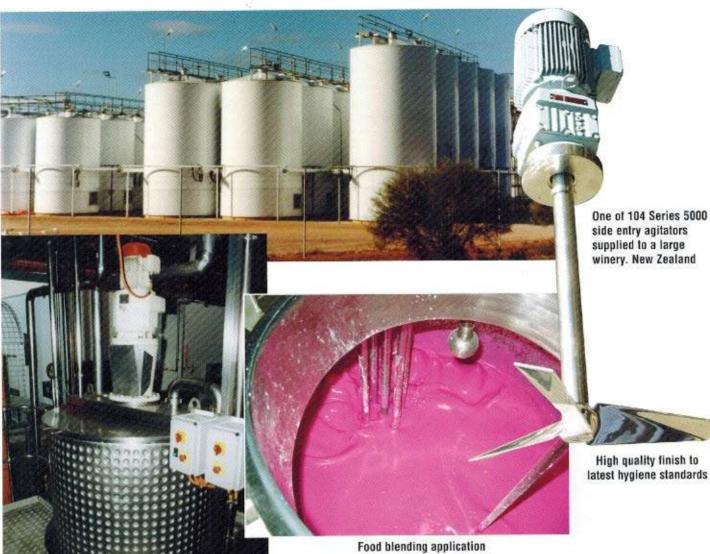


Large HA 735 impeller in a high pressure, high temperature autoclave

Series 2000 agitator on a crystalliser duty

Mixtec has the experience and know-how to solve your mixing needs

Dairy Food, Beverage and Pharmaceutical industry



Series 2000 on a soup cooker.



Multi stage fermenter hygienic designed surfaces for CIP processes

Also available:

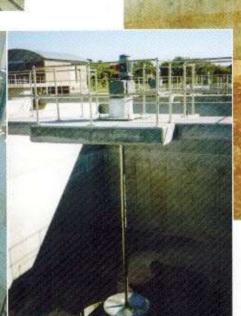
- In-line static mixers
- · Jet and eduction mixing
- · High viscosity blending
- · Sugar pan circulators
- High Speed dispersion



Water Treatment and Environmental



Series 1000 on flocculator duty - USA

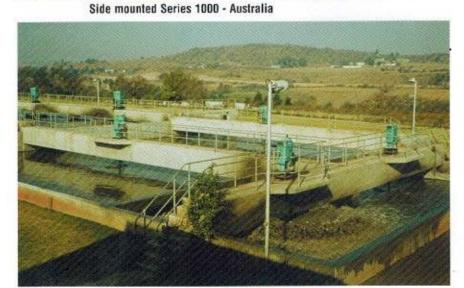


1992 major installation of anoxic and anaerobic agitators. For over 30 years Mixtec has supplied thousands of agitators to the Water Treatment industry

Anoxic Mixer

Clean water is precious and water care is rapidly becoming one of the worlds major problems.

Mixtec has been at the forefront of many water treatment processes due to its continual research and development.



Series 2000 on aeration basin - South Africa



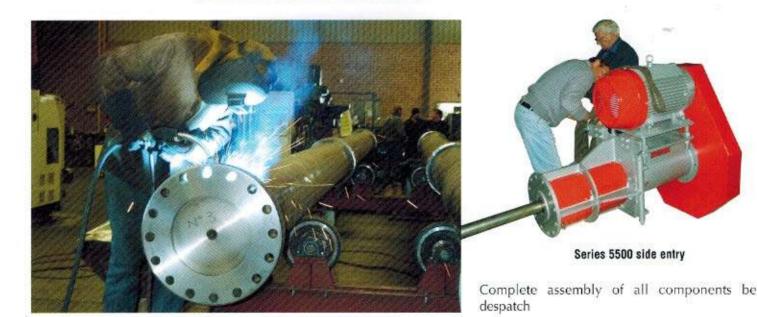
Series 1000 with weather protection and VVVF control

Engineering and Fabrication

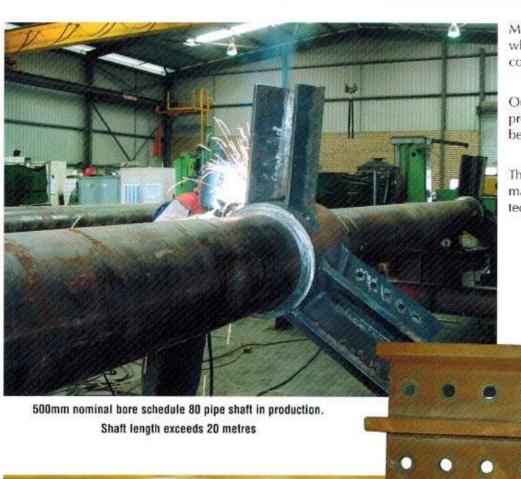


Large agitator couplings being manufactured to tolerances of less than 0.01mm for accuracy and control.

All agitators are manufactured using the late international standards for mixer design, to produce rugged well constructed agitator backed by a sol mechanical and process guarantee.







Mixtec has a wealth of experience which covers all aspects of agitator construction.

Our computer designs not only check process parameters but also calculate bending and torsional loads.

This information is used to design material sizes and fabrication techniques.

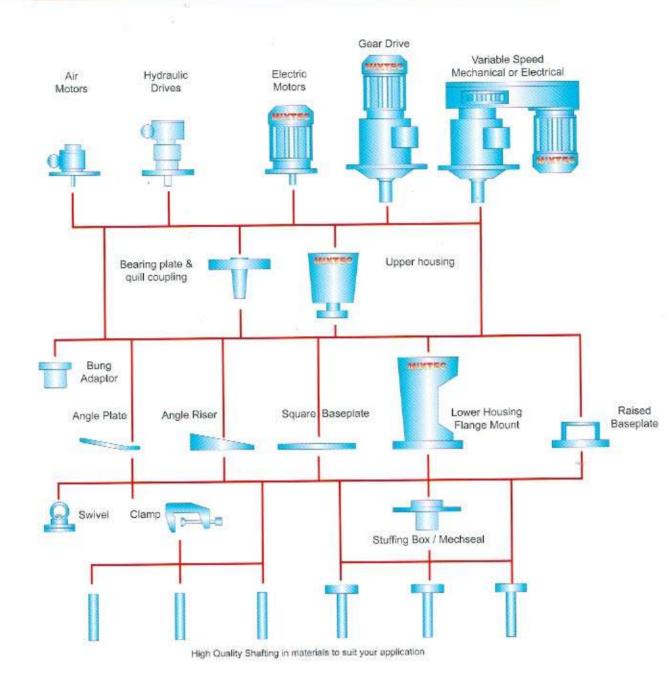
NDT inspection on reinforced impeller hub before magnetic particle testing and final coating

All factors influencing the mechanical design are analysed and backed up by years of successful experience in the field.

Materials of construction include Carbon and Stainless steels, Hastelloy, Incalloy, Tantalum and Titanium plus several varieties of coatings such as rubber, stellite, Halar, glass and poly-carbonates.



INTERCHANGEABILITY



HA791

HA791

HA791

HA792

HA793

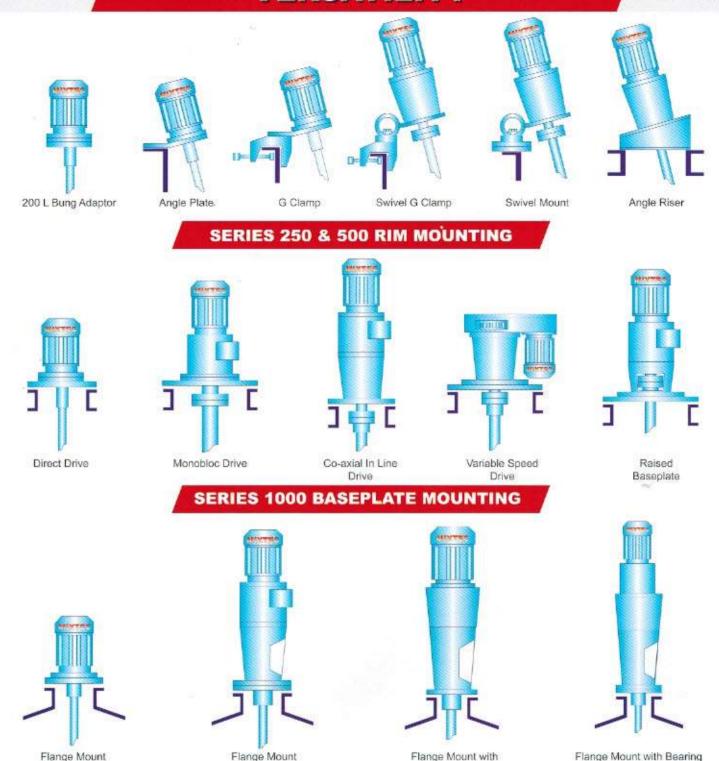
HA793

HA793

HA795

FLOW

VERSATILITY



TANK MOUNTINGS NOT MIXTEC SUPPLY

Direct Drive

SERIES 2000 FLANGE MOUNT

Input Adaptor

Gear Drive

he 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.

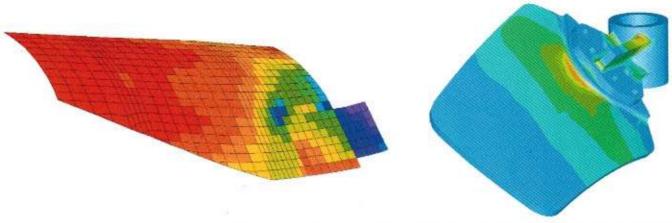
Cartridge for High Tank

Pressure Application

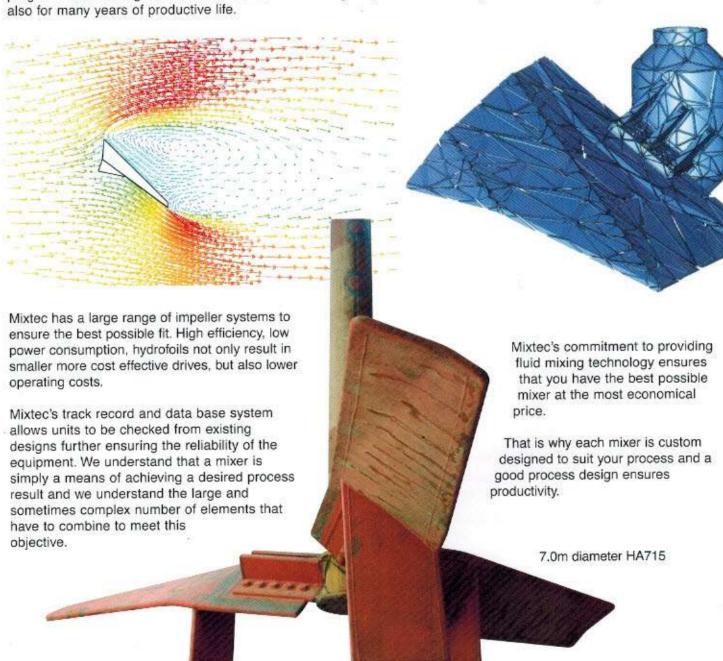
Air motors are of the floating vane type and speed control is achieved by adjustment on the air inlet valve. An exhaust muffler is also fitted to ensure quiet operation. Electrical motors can be TEFC, weather resistant, hose resistant or flame resistant. Other enclosures are available on request.

IMPELLER TECHNOLOGY AND DESIGN: for high efficiency and productivity

Getting the facts on fluid behaviour and mixer scale up is just the start. Mixtec have experienced application engineers who can turn this information in to reliable designs - first time every time and give it a process guarantee.

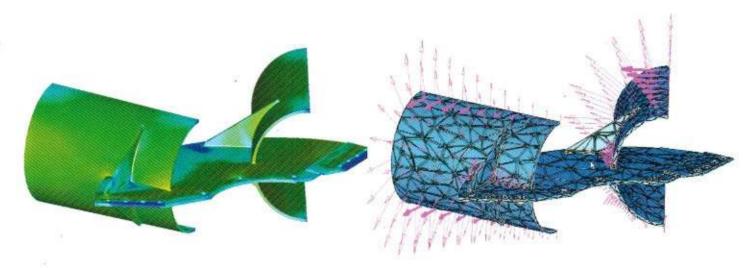


Mixtec's In house computer programmes have been developed through many years of rigorous research. Factors and constants generated from testwork and tempered with experience are incorporated into the Mixtec computer programmes ensuring that a reliable conservative design is produced not only to work on the day it was installed but also for many years of productive life.



All mixing applications are different and each has its own unique engineering problems. Understanding these problems takes experience and solving them demands technology of the highest standard.

Extensive use has been made of finite element analysis on the design of high stress components, such as the impeller and the coupling, to ensure maximum reliability at minimum cost.



The impeller is subjected to the calculated loads and stresses that it will experience in operation and using advanced software and processor platforms the analysis is computed to identify any potential areas of weakness or stress build up.



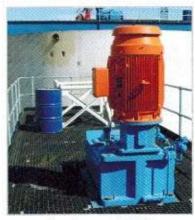
OTHER AGITATION APPLICATION



Chemical plant - BRAZIL



Gold plant - SOUTH AFRICA



Zinc storage - NAMIBIA



Back fill - INDONESIA



Beverage storage - AUSTRALIA



Mineral Leach tank - USA



Water treatment - CHINA



Paint plant - NEW ZEALAND



Paper and pulp side entry mixers - UK

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> Mixtec South Africa www.mixtec.com