CFG®

Effective Mixing

INDUSTRIAL MIXERS

www.cfgmixers.com

CFG Mixers® (CFG Mixers SA de CV) is an engineering company dedicated to the design and manufacture of industrial mixers and related equipment. More than thirty years of experience in the market support the quality of its products.

Its objective is focused on designing integral solutions in agitation and mixing processes for various industries. Among which stand out: Mining, chemistry, oil, water treatment, sugar, pharmaceutical, cosmetics and food and beverages.

Our objective is focused on providing integral solutions in agitation and mixing processes for various industries.

CONTENTS

OUR COMPANY

The group started activities in 1983. CFG Mixers® is a company specialized in offering professional and innovative solutions in processes of agitation, mixing, homogenization, suspension, coagulation, flocculation, dispersion and thermal transfer.

35 years at the service of the industry, offering and implementing agitation and mixing solutions, guarantee the quality of our equipment, service and warranty. This trajectory has made us gain the trust of important clients and suppliers, and has allowed us to achieve a great international presence.

CFG Mixers® is constantly developing its calculation and agitator selection platforms. Applying advances in technology and materials, always in the search to increase efficiency and energy efficiency, optimize costs and facilitate the operation of equipment.

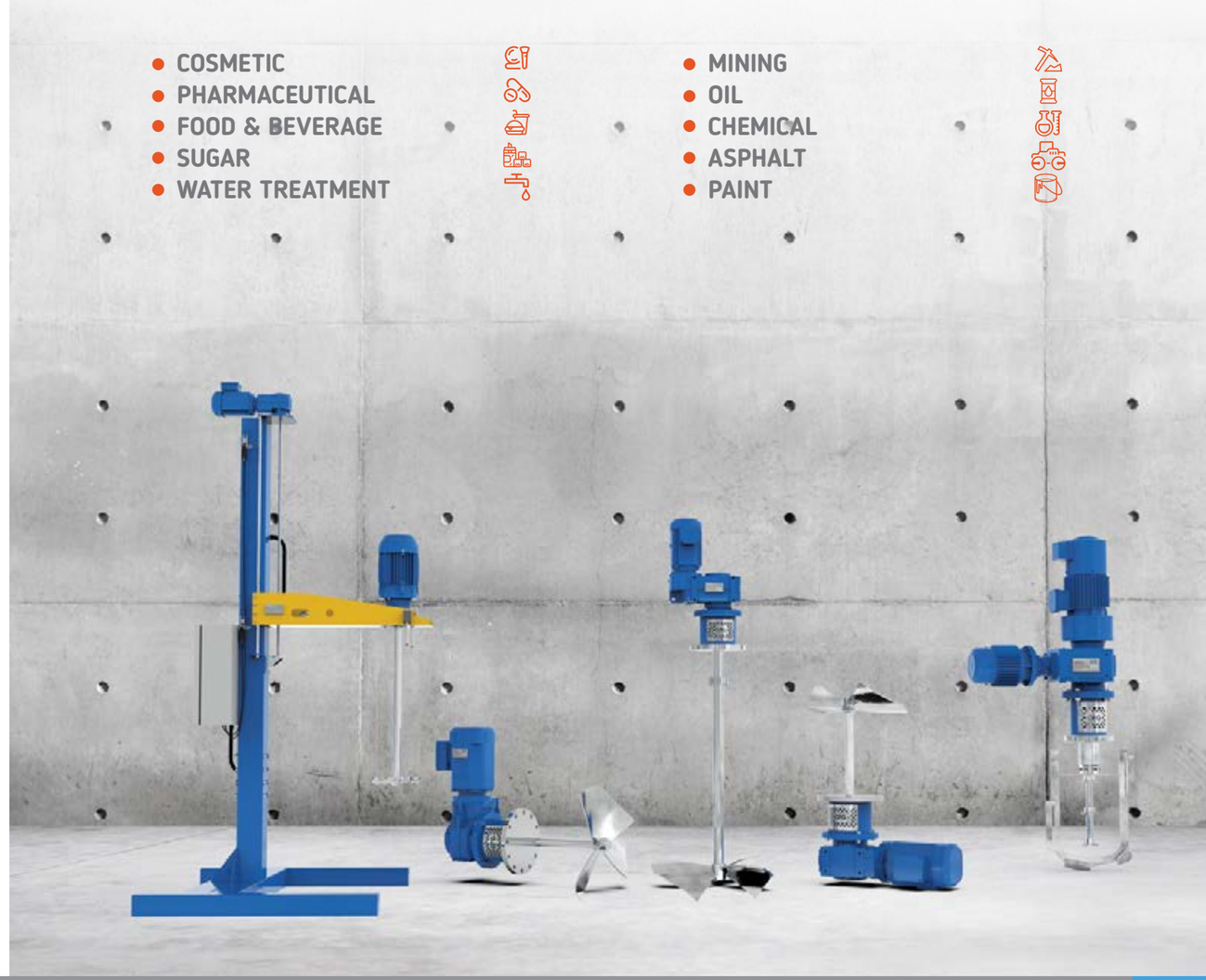
The company uses and develops the most advanced tools available in the market. All the equipments are submitted to a demanding quality control supported, among other processes, by hydrodynamic simulations in CFD (Computational Fluid Dynamics) and resistance of materials.

As a specialist in agitation and mixing systems, the company has exclusive representation in Mexico of the Dutch brand PRIMIX®, European leading manufacturer of static mixers, and the Italian brand CRIMAN®, a prestigious manufacturer of submersible mixers.

As well as with the exclusive representation of the German brand AKO®. World leading manufacturer of «pinch valves» (pneumatic hose valves or pinch valves), and PRAGMA® brand, experts in industrial automation and derivative process control.

SPECIALIZED IN VARIOUS SECTORS:

- COSMETIC
- PHARMACEUTICAL
- FOOD & BEVERAGE
- SUGAR
- WATER TREATMENT
- MINING
- OIL
- CHEMICAL
- ASPHALT
- PAINT



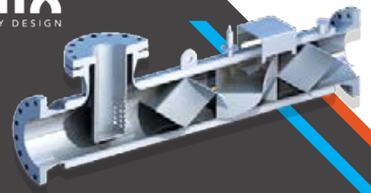
SERVICES

The service is a vocation in the group. CFG Mixers® accompanies the client from the design stage of the project, providing personalized advice in the design of the equipment.

CFG Mixers® has a prepared and specialized engineering team to offer the industry the most efficient solutions in each agitation and mixing process.

The support does not end with the delivery of the equipment. That is why an after-sales department, with extensive experience, is always aware of the optimal functioning of the applications.

PRIMIX
PERFORMANCE BY DESIGN



PERFORMANCE BY DESIGN

PRIMIX® STATIC MIXERS

As specialists in agitation and mixing systems, our company has the exclusive representation in Mexico of the Dutch brand PRIMIX®, European leading manufacturer of static mixers.

CRIMAN® SUBMERSIBLE MIXERS

CFG Mixers® has the exclusive representation of the Italian brand CRIMAN®, a prestigious manufacturer of submersible agitators.

CRI-MAN® PROFESSIONALS AT WORK

PROFESSIONALS AT WORK

AKO

SIMPLY INNOVATIVE

AKO® PINCH VALVES

We exclusively represent the German brand AKO®, the world's leading manufacturer of "pinch valves" (pneumatic hose valves or pinch valves).

PRAGMA® AUTOMATION

Our most recent representation agreement is with the brand PRAGMA AUTOMATION®, experts in industrial automation with customized solutions in programming of PLCs, SCADAs, HMI, databases, networks and systems for process optimization.

PRAGMA AUTOMATION

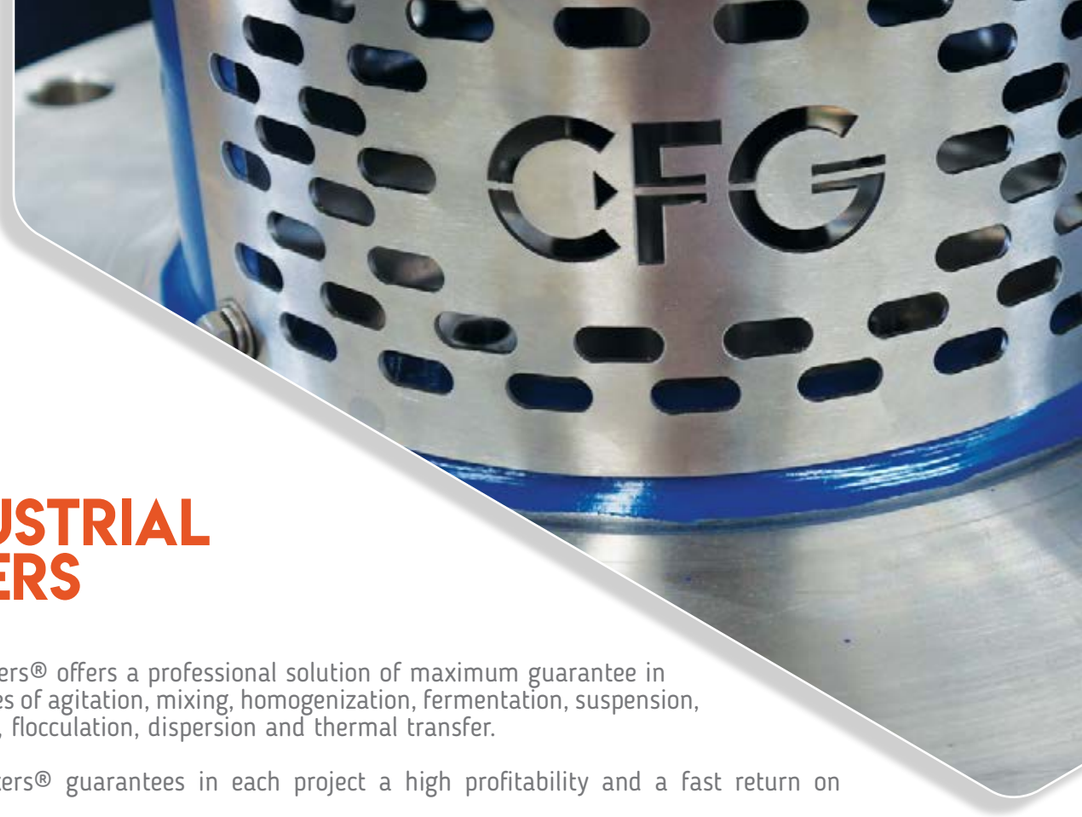
AUTOMATION EXPERTS

ADVANTAGES

- Custom design according to required specifications.
- Top quality materials, from first brands.
- Specialized and qualified technical support.
- Latest technology design and simulation tools.
- Certifications by main organizations.
- Highly competitive prices.
- On-time delivery.
  Wide warranty of the equipment.
- After-sales service and immediate delivery parts.
- Presence and international distribution.

ISO 9001:2015 CERTIFICATION

CFG Mixers® has international certifications that guarantee the quality of all the equipment that is manufactured, offers a wide guarantee and security.



CFG INDUSTRIAL MIXERS

CFG Mixers® offers a professional solution of maximum guarantee in the processes of agitation, mixing, homogenization, fermentation, suspension, coagulation, flocculation, dispersion and thermal transfer.

CFG Mixers® guarantees in each project a high profitability and a fast return on investment.

The modularity of the design of our mixers allows us to always adapt to the needs of our customers.

CFG Mixers® designs customized agitation equipment for each application. All the equipment is subjected to a demanding quality control supported, among other processes, by its own calculation software, and the simulation of the behavior of fluids and resistance of materials in CFD (Computational Fluid Dynamics).

Our equipment is manufactured looking for a perfect balance between efficiency, reliability and price.

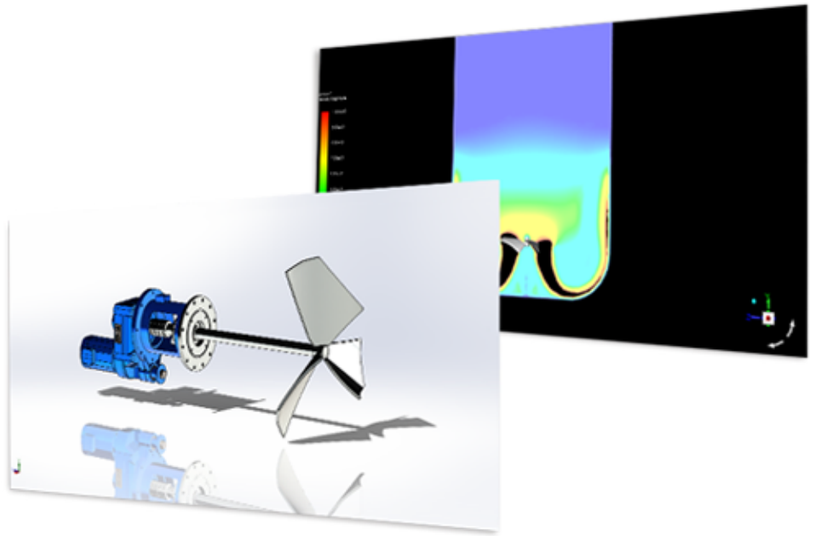
R + D + I

CFD (Computational Fluid Dynamics) is a specialized software used by our engineering team, which performs calculations and simulation of fluid behavior and mechanical resistance, which ensures that the agitation equipment is the ideal for each process and thus achieve the appropriate intensity of agitation.

The calculations made through the CFD ensure that the CFG Mixers® agitators optimize their intensity / consumption ratio; This is generally used to solve the problems of mixing products and optimize operating costs and time.

CFG MIXERS® OFFERS WARRANTY, SECURITY AND SOLUTIONS IN EACH PROJECT.

CFG Mixers® is constantly developing its calculation and mixers selection platforms. Applying advances in technology and materials always in the search to increase efficiency and energy saving, optimize costs and facilitate the operation of equipment.



Thanks to the CFD system, very accurate simulations of the behavior patterns of the fluids and the integration of the different components can be analyzed. Necessary to guarantee the objective of the proposed agitation.

TOP ENTRY MIXERS

Manufacturing materials:
Carbon steel, AISI-304, AISI-316L, Duplex, Super Duplex, Uranus B6, Titanium, Hastelloy.

Coatings:
PTFE, PVDF, EPDM, Halar, butyl rubber, ebonite, fiberglass, special paints according to specification.

Sealing:
- Wide range of seals, single or double lip, various materials.
- Hydraulic labyrinth.
- Cable glands.
- Simple mechanical seal.
- Double mechanical seal. Optional autonumous refrigeration system (thermosyphon), vapor barrier.
- Cartridge with double mechanical seal and built-in guide bearing.
- Special systems for dismantling a full tank for side and bottom entry mixers, or dismantling with a pressure reactor for top entry mixers.

Optionals:
- Motors with ATEX protection.
- Special paints.
- Special certifications (NOM).
- Adaptation of flange ANSI or DIN, square plate, clamping by clamp (only for small equipment), flange with emergency closure.
- Sanitary polishing or with roughness specification.
- FDA Regulation.

VHS SERIES
For deposits of 0,05 a 0,3 m^3.
For non-viscous products.
Sync speed: 900, 1200, and 1800 rpm.
Motors from 0.55 to 1.5 kW.
Three-bladed marine propeller.
Propeller diameter from 80 to 140 mm.
Maximum shaft length 800 mm.

VHD SERIES
For deposits of 0,3 to 3 m^3.
For non-viscous products.
Sync speed: 900, 1200, and 1800 rpm.
Motors from 0.55 to 2.2 kW.
Three-bladed marine propeller.
Propeller diameter from 100 to 200 mm.
Maximum shaft length 1500 mm.
With guided turret.

VHC SERIES
For deposits of 0,3 to 7 m^3.
For viscous products.
Sync speed: 900, 1200, and 1800 rpm.
Motors from 2.2 to 22 kW.
Mobile type “Cowles”.
Diameter of propeller from 100 to 400 mm.
Maximum shaft length 2000 mm.
With guided turret.

VPP SERIES

For deposits of 0,5 to 5 m³.
For products of moderate viscosity.
Speed from 150 to 300 rpm.
Motors from 0.37 to 3 kW.
Axial propeller profile type “S”.
Propeller diameter of 150 to 400 mm.
Maximum shaft length 1500 mm.
Coaxial reducer, conical gear.



VTS SERIES

For deposits of 4 to 15 m³.
For high intensity of agitation.
Speed from 75 to 150 rpm.
Motors from 0.37 to 3 kW.
3/4 bladed axial turbine.
Turbine diameter from 400 to 800 mm.
Maximum shaft length 2500 mm.
Reducer of parallel shaft, of conical gear or coaxial of helical gears.

VTG SERIES

For large deposits.
For high intensity of agitation.
Speed from 50 to 150 rpm.
Motors from 3 to 45 kW.
3/4 bladed axial turbine.
Turbine diameter from 800 to 4000 mm.
Maximum shaft length 15000 mm.
Reducer of parallel shaft, of conical gear or coaxial of helical gears.


VTR SERIES

For deposits of any size.
Special for dispersion of gas in liquid.
Speed from 75 to 250 rpm.
Motors from 1.5 to 45 kW.
Radial turbine with 4 or more blades.
Turbine diameter from 400 to 1500 mm.
Maximum shaft length 7000 mm.
Reducer of parallel shaft, of conical gear or coaxial of helical gears.



VPT SERIES

For large deposits.
Multipurpose design in various applications.
Speeds from 30 to 150 rpm.
Motors from 3.7 to 90 kW.
Three-bladed axial propeller profile type “T”.
Propeller diameter from 800 to 7000 mm.
Maximum shaft length 15000 mm.
Reducer of parallel shaft, of conical gear or coaxial of helical gears.

VPS SERIES

For large deposits.
Multipurpose design in various applications.
Speeds from 30 to 150 rpm.
Motors from 3,7 a 90 kW.
Three-bladed axial propeller profile type “S”.
Propeller diameter from 800 to 6000 mm.
Maximum shaft length 15000 mm.
Reducer of parallel shaft, of conical gear or coaxial of helical gears.


VPA SERIES

For “tacho” type deposits in the crystallization process of sugar.
Speeds from 30 to 125 rpm.
Motors from 30 to 125 kW.
Three-bladed axial propeller profile type “S”, with fingers of turbulence.
Propeller diameter from 800 to 3000 mm.
Maximum shaft length 12000 mm.
Reducer of parallel shaft, of conical gear or system of pulleys and belts.

VFT SERIES

For large deposits.
Very slow agitator special for flocculation.
Speed from 5 to 50 rpm.
Motors from 0.75 to 7.5 kW.
2/3 bladed axial propeller profile type “F”.
Propeller diameter from 400 to 4000 mm.
Maximum shaft length 12000 mm.
Reducer of parallel shaft, of conical gear or coaxial of helical gears.

VAS SERIES

For deposits from 0,5 to 30 m^3.
For products with viscosity.
Speed from 20 to 150 rpm.
Motors from 2.2 to 37 kW.
Mobile anchor type, optional with scrapers.
Helix diameter according to application.
Maximum axis length according to application.
Reducer of parallel shaft, of conical gear or coaxial of helical gears.

VDF SERIES

For deposits of any size.
For very viscous products.
Speeds from 30 to 100 rpm.
Motors from 3.7 to 90 kW.
Propeller with special double flow profile.
Propeller diameter from 500 to 5000 mm.
Maximum shaft length 9000 mm.
Reducer of parallel shaft, of conical gear or coaxial of helical gears.

MIXERS FOR MINING VMS SERIES

Specially designed for mining.
For maintenance of suspended solids in large tanks.
Vulcanized in autoclave to resist corrosion and abrasion of minerals.

Coating options: natural rubber, neoprene, butyl rubber, pull, ebonite, among others.
Speeds from 30 to 150 rpm.
Engines from 22 to 400 kw.
Three-bladed axial propeller profile type “S”.
Several mobile groups for large tanks.
Very high pumping capacity to achieve high speeds of ascent of solids.
Propeller diameter from 2,000 to 9,000 mm.
Maximum shaft length 20 000 mm.
Reducer of parallel axes, of conical gear or coaxial of helical gears.
Reinforced bearing system.

1 MOTOR
1.1 POWER: 22 kW - 400 kW.
1.2 PHASES: Three-phase.
1.3 VOLTAGE: 110 - 220 V | 230 - 460 V.
1.4 EFFICIENCY: IEC: IE3 | NEMA: High, Premium.
1.5 OUTPUT SPEED: 1750 rpm.

2 REDUCER
2.1 TYPE:
2.1.1 Parallel shaft.
2.1.2 Conical gear.
2.1.3 Coaxial.
2.2 OUTPUT SPEED: 30 - 150 rpm.

3 SUBJECTION
3.1 TYPE:
3.1.1 FLANGE
3.1.2 LANTERN
3.1.3 PLATE
3.2 MATERIAL: Stainless steel | Carbon steel.

4 SHAFT
4.1 LENGHT: Max: 20,000 mm.
4.2 PROPELLER-SHAFT COUPLING:
4.2.1 Lugs.
4.2.2 Bushing welded to the shaft.
4.2.3 Cuña - cuñero.
4.2.4 Mechanic-welded core.

5 MOBILE
5.1 DIAMETER: Max: 9,000 mm.
5.2 TYPE: Three-bladed axial propeller profile type “S”.

SIDE ENTRY MIXERS

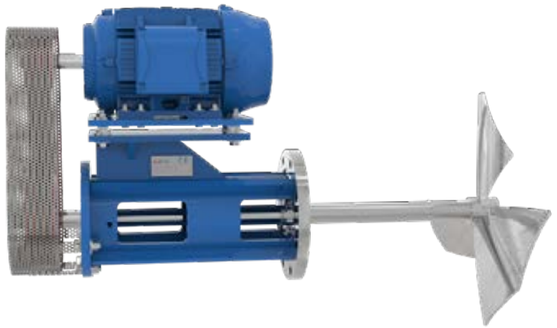
The side entry mixers are recommended to homogenize products in large volume tanks.

They are manufactured with speed reducer or system of pulleys and belts.

The CFG mixers® are manufactured looking for a perfect balance between efficiency, reliability and price.

HPS SERIES

For deposits of 10 to 500 m^3.
Side entry mixing for various applications.
Speed from 100 to 300 rpm.
Motors from 1.5 to 45 kW.
Three-bladed axial propeller profile type “S”.
Propeller diameter from 200 to 1200 mm.
Maximum shaft length 1800 mm.
Reducer of parallel shaft, of conical gear or coaxial of helical gears.



HPP SERIES

For deposits of 10 to 500 m^3.
Side entry mixing for various applications.
Speed from 100 to 300 rpm.
Motors from 1.5 to 45 kW.
Three-bladed axial propeller profile type “S”.
Propeller diameter from 200 to 1200 mm.
Maximum shaft length 1800 mm.
Transmission system by pulleys and belts.

SPECIAL MIXERS

There are countless processes in the industry that require special designs. CFG Mixers® adapts to each case, designs and manufactures equipment to meet the demanding requirements.

Equipment with counter-rotating mobiles, super resistant materials, sealing systems with autonomous refrigeration, among others.

VTA SERIES

For IBC/GRG tanks from 1 to 4 m³.
For products with and without viscocity.
Speed from 100 to 200 rpm.
Motors from 0.75 to 5 kW.
Axial turbine with 4 folding blades.
Propeller diameter of 150 to 400 mm.
Maximum shaft length 1500 mm.
Special support for IBC / GRG tanks.
Reducer of parallel shaft, of conical gear or coaxial of helical gears.

VRE SERIES

For deposits from 1 to 3 m³.
Special for emulsion.
Sync speed: 900, 1200, 1800, 3600 rpm.
Motors from 1.1 kW to 10 kW.
Propeller of special designs.
Propeller diameter according to application.
Maximum shaft length 1800 mm.

VAD SERIES

For deposits from 0,5 to 15 m³.
For products with viscosity and special applications.
Anchor speed from 20 to 150 rpm.
Propeller speed from 50 to 300 rpm.
Motors from 0.37 to 15 kW.
Two mobile counter-rotation.
Mobile anchor type, optional with scrapers (outside).
Axial propeller or cowles disk (interior).
Propeller diameter according to application.
Maximum shaft length according to application.
Double reducer of concentric hollow shafts.

VPC SERIES

For large deposits.
For products with viscosity.
Sync speed: 900, 1200, 1800 and 3600 rpm.
Motors from 22 to 75 kW.
Mobile type “Cowles”.
Propeller diameter from 400 to 1000 mm.
Maximum shaft length 4000 mm.
Lantern with elastic coupling and bearings.

BOTTOM ENTRY MIXERS

There are applications in industry and tank types that require bottom entry mixers.
Cosmetic and pharmaceutical processes are the most common for the use of these equipment, as well as applications where a bottom disperser is required.

CFG Mixers® designs and manufactures this type of mixers, on the specification of the standardized models FPS and FDC.

FPS SERIES

For deposits from 1 m³.
Bottom mixing for diverse applications.
Speed from 1 to 75 rpm.
Motors from 1.5 to 45 kW.
Three-bladed axial propeller profile type “S” or type “T”.
Propeller diameter from 200 to 1200 mm.
Maximum shaft length 1800 mm.
Reducer of parallel axes, of conical gear or coaxial of helical gears.
Sealing system.

FDC SERIES

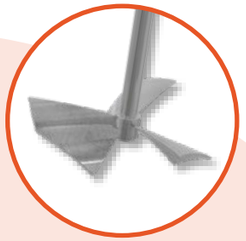
For deposits from 0,5 m³.
Bottom mixing for diverse applications.
Sync speed: 900, 1200, 1800 y 3600 rpm.
Motors from 1,5 to 45 kW.
Mobile type “Cowles”.
Diameter of disk from 100 to 800 mm.
Maximum shaft length 400 mm.
Sealing system

PNEUMATIC MIXERS

For applications where there is no access to electric current, or processes with an explosive atmosphere, pneumatically operated mixers are very common.

These usually rotate at high speeds, up to 3000 rpm at 7 bars of pressure. There are also cases in which a speed reducer coupled to the pneumatic motor is required.

CFG Mixers® designs and manufactures this type of mixers, on the specification of standardized VNH and VNP models.



VNH SERIES

For deposits from 0,05 to 3 m³.
For non-viscous products.
Maximum speed of 3600 rpm.
Pneumatic motors.
Three-blade marine propeller.
Propeller diameter from 100 to 200 mm.
Maximum shaft length 1500 mm.
With guided turret.

VNP SERIES

For deposits from 0,5 to 5 m³.
Designed for the mixture of products of moderate viscosity.
Maximum speed of 400 rpm.
Pneumatic motors.
Axial profile propeller type “S”.
Propeller diameter of 150 to 400 mm.
Maximum shaft length 1500 mm.
Coaxial or conical gear reducer.

MIXER STANDS

The lifting systems are tailored to the client’s needs and specifications.
Its drive can be electric, pneumatic or manual.

VTE SERIES

The mixer stands facilitate the vertical movement of the agitator and allow it to be used in tanks of different volumes. In addition to facilitating the operation and maintenance of the equipment.

The CFG® mixer stands are designed to operate with mixer series: VHS, VHD, VHC, VPP, VNH and VNP.

Main features:
Materials in carbon steel or stainless steel, according to the application.
Fixed (ground) or mobile placement.
Tank detector plate, prevents start-up without tank (electric mod.).
Lifting by servo (electric mod.) Or lifting winch (manual mod.).

POLYELECTROLYTE UNIT

CFG Mixers® is a specialist in the manufacture of automatic and manual equipment for the preparation of polyelectrolyte; we have extensive experience in the series of water treatment equipment, offering integral and innovative solutions.

AUTOFLOC®

The Autofloc® is a system of automatic preparation of the polymer used for the agglomeration of suspended particles.

The polymer dosing system can be adapted according to the presentation supplied, it can be in powder, in solution, or even, a mixed system.

The automatic preparer, is designed for a continuous and controlled preparation, facilitating the direct step to the dosage.

- Operational capacity from 500 to 10,000 L/h.
- Tank with 2 or 3 compartments and with diffuser for polyelectrolyte humidification.
- Mixing system by means of slow rotating mixers, which favors the homogenization of the solution and the creation of the polymer chains.
- Automatic and continuous equipment feeding system.
- Regulating valve and flowmeter for adjustment and control of water supply.
- Dust flow or adjustable emulsion by variable speed drive and regulated by PID controller.
- Control panel for operation control (optional with touch screen).
- Level detector with warning signal.
- The dosing system of the polymer can be adapted according to the presentation supplied, it can be in powder, in solution, or even, a mixed system

ADVANTAGES

Special equipment to work with three mixers automatically.
Achieves a homogeneous mixture of the polymer and water. Its equipment with the electrical panel allows the solution to be dosed automatically.
High polymer savings.

MANUAL PREPARING

The manual polymer preparation system can be adapted according to the supplied presentation, it can be powder, emulsion or mixed system.

The manual preparer is designed for a batch preparation.
High density polyethylene tank, 100% virgin.
Food grade, resistant to highly corrosive and abrasive substances.
Capacity from 250 to 5,000 L.
Mixing system by means of a slow rotating mixer, which favors the homogenization of the solution and the creation of the polymer chains.
Dilution funnel with ball valve for manual regulation of the polymer powder.
Dosing pump for emulsion polymer.
Pneumatic level detector.
Connections with PVC ball valve (filling and emptying).

PRIMIX®
STATIC MIXERS

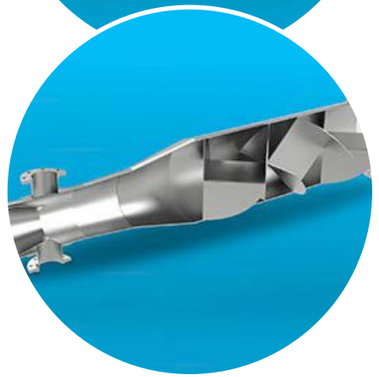
All parameters and preconditions are considered before starting the design process. In addition, solutions for new applications and complex problems can be reached.
Our certifications are an integral part of the design process and guarantee the maximum performance of the components.

The static mixer allows to create a homogeneous mixture distributed between liquids and / or gases in a continuous process.

This is done without any moving part, with the result that no electrical supply or mechanical elements are required.
Our developments are suitable for cleaning, especially with CIP processes, at low and high temperatures and viscosities.
A wide variety of combinations of gas, liquid and solid (dust and small particles) can be mixed, emulsified, suspended or heat treated.

PRIMIX® PERFORMANCE BY DESIGN

CFG® Effective Mixing • PARTNER •



PMS SERIES
Helical or spiral elements.
Up to ± 160 mm of diameter.
Suitable for basic mixing, liquid and gas applications.
It is used to improve heat transfer.
Available in a wide range of materials.

PMS

PMQ

PMQ SERIES
Frame form elements.
Performance equal to PMS.
Minimum diameter ± 160 mm.
Suitable for basic mixing applications: liquid and gas.

PMX SERIES
Crossed elements-X.
Wide range of sizes.
Relative high pressure drops and almost free of dead spots.
Suitable for high viscosity mixtures.

PMX

PMW SERIES
Minimum diameter ± 50 mm.
Suitable for large diameters.
Suitable for gas mixing or for high contact surface.
Used in both gas and liquid

PMW

ADVANTAGES

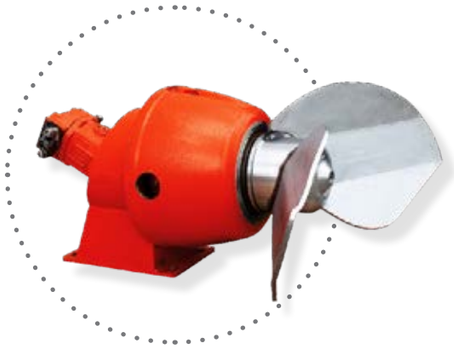
Connection in process lines / Absolute absence of leaks.
Does not contain moving parts / Does not require mechanical seals.
Low or no maintenance.Easy to clean in a CIP / SIP cycle and, depending on the requirements of the process, the system can have a completely sterile / aseptic finish.

CRI-MAN®
SUBMERSIBLE MIXERS

CRI-MAN® is placed on the market as one of the most recognized worldwide manufacturers of submersible mixers. Its high quality materials, manufacturing and service are the basis of this prestigious brand.

Wide gain of submersible mixers used for processing sludges, manure, biogas and civil and industrial effluents. They have planetary gearboxes, high axial thrust efficiency, double mechanical seal systems, self-cleaning propellers, thermal sensors.

TBHM SERIES
Type: Submersible mixer with hydraulic motor
Stainless steel propeller with self-cleaning profile.
Fixed installation with hydraulic unit, or mobile arm controlled with hydraulic circuit.
Axial thrust: 3800 N (854 lb).
Oil flow hydraulic circuit: max 90 l / min (24 US gpm).
Hydraulic circuit oil pressure: max 160 bar (2318 psi).



TBM - TBMEX SERIES
Type: Side entry submersible mixer.
Planetary gear reducer.
Stainless steel propeller with self-cleaning profile.
RPM: 380 - 1130 (60Hz).
Power: 1,5 - 25 kW (2 - 34 HP).
Axial push: 230 - 5396 N (52 - 1206 lb).
Flow: 643 - 10138 m³/h (2831 - 44638 US gpm).
Maximum working temperature: 40 °C (104 °F).

TBX SERIES
Type: Side entry stainless steel submersible mixer.
Entirely manufactured in AISI 316.
Stainless steel propeller with self-cleaning profile.
RPM: 1110 - 1680 (60Hz).
Power: 0.75 - 3 kW (1 - 4 HP).
Axial push: 117 - 373 N (25 - 84 lb).
Flow: 279 - 1061 m³/h (1229 - 4672 US gpm).
Maximum working temperature: 40 °C (104 °F).

AF SERIES
Type: Submersible mixer, flow accelerator.
Two-stage planetary gear reducer.
Polyamide and fiberglass blades.
Adjustable shovels.
Stainless steel blade base.
RPM: 53 (60 Hz)
Power: 1,5 - 5,5 kW (2 - 26 HP).
Axial push: 1226 - 2943 N (276 - 662 lb).
Flow: 11490-17803 m³/h (50590-78380 US gpm).
Maximum working temperature: 40 ° C (104 ° F).

AKO®
PINCH VALVES

They are ideal for many applications, among which are:
· Food and beverages · Pharmaceutical and hygiene · Seeds · Wastewater treatment · Power plants · Mining industry · Marble and granite industry · Ceramics, glass and plastics · Cement sector.

The high quality of the AKO® valves is regulated by the DIN ISO 9001: 2008 certification.

The AKO® pinch valves are the instrumentation solution for closing the passage, regulating and dosing abrasive, corrosive and fibrous products, powders and liquids with solid particles in suspension.
They have an excellent sealing capacity with solids inside and have proven to be the most reliable solution to control the transport of liquid and solid products.

They are an economical and profitable solution, they are characterized by having a practical design, simple and very durable and do not require any specific motive force to operate the valve.
By introducing compressed air or liquid into the valve (with a Pmin 2 bar) the compression of the sleeve is achieved and as soon as the supply of air or liquid is interrupted and the air is drained or the valve is purged; the sleeve opens full passage due to its rebound elasticity or return force and with the help of the medium pressure.
The construction of the housing guarantees a free seal in the labial form of the sleeve. In this way it is possible to block the product flow with total hermeticity, guaranteeing at the same time a maximum service life and durability of the sleeve.

Thanks to its 30 years of experience, AKO® has managed to develop, innovate and select the best quality rubber sleeves on the market. It is also able to offer control solutions for different applications, based on the demands of the applications and always achieving the best life time of the sleeves.

ADVANTAGES

Free passage without loss of load.
Hermetic sealing capacity are solid inside.
No risk of obstruction.
Optimum sealing for:
- Liquids.
- Gases.
- Suspensions.
- Dry products.
- Granulates.
- Fibers.

Reduction of air consumption thanks to the oval shape, also achieving a faster closing.
Easy handling and installation.
Low maintenance and operational costs.

OV SERIES

Mechanical pinch valve, can be manual or automatic. Ideal for abrasive, corrosive and fibrous products, granulated products, powders or liquids with solid particles in suspension.

The actuation of the manual valve is by one handwheel that allows close the sleeve and the closure of the automatic is through the force of a spring that is opened by the entry of air. In addition, there is a sleeve valve with double acting cylinder.

Features:
Safety function, if power / air is missing, the PA / PA2 type valve closes.
Housing and aluminum cylinders.
Connection with flange.

VF SERIES

Pneumatic pinch valve used in various sectors, aluminum body and flange with powder coating 60-80µm, white RAL9010;
The flange can be PN10 / 16 or ANSI 150 type, with internal or external thread (BSP / RJT).

Available valves:

- Natural rubber anti-abrasive.
- Natural rubber high temperature.
- NBR (nitrile).
- CR (Neoprene), CSM (Hypalon), butyl rubber.
- EPDM.
- Viton.
- Silicone.

VMC SERIES

Pneumatic sleeve valve, ideal for blocking and regulating solids of all types, suspensions and pastes, as well as gaseous, fibrous and viscous media.

Advantages:
Flexible modular system.
Extremely compact
Body in stainless steel, aluminum or plastic.
Connection with flange, internal / external thread, clamp, or with weldable ends.
Available in conductive models with a ground connection, for explosive zones.

VMCE SERIES

Pneumatic pinch valve that stands out for its aseptic and hygienic design. Ideal for CIP cleaning and SIP sterilization processes.

Available in nominal diameters DN10-DN100.
Body in stainless steel.
Connection with flange, internal / external thread, clamp or with weldable ends.
EHEDG certificate, type EL, class I and type aseptic EL class I.
Available in conductive models with a ground connection, for explosive zones.

VMP SERIES

Compact pneumatic pinch valve, ideal for automatic closing of powders, granulates, fibrous products, sludge and suspensions. Recommended for the food industry, pharmaceutical, pigments, ceramics, glass, plastic, vacuum systems, aeration and deaeration.

Excellent resistance to atmospheric inclemency. Model protected against explosions.
Body in natural, black or conductive plastic.
Connection of internal thread (DIN ISO 228).
NPT.

VZ SERIES
Mechanical pinch valve, with free valve passage, can be manual or automatic.

Guarantees maximum safety during handling thanks to its closed construction.
The adjusted positions can also be checked by means of mechanical and electronic position indications.
The manual operation is by means of a steering wheel and the automatic one is through a rotating electromechanical transmission (actuators and regulators).

VT SERIES
Pneumatic pinch valve, designed for tank truck, industrial and silo vehicles.

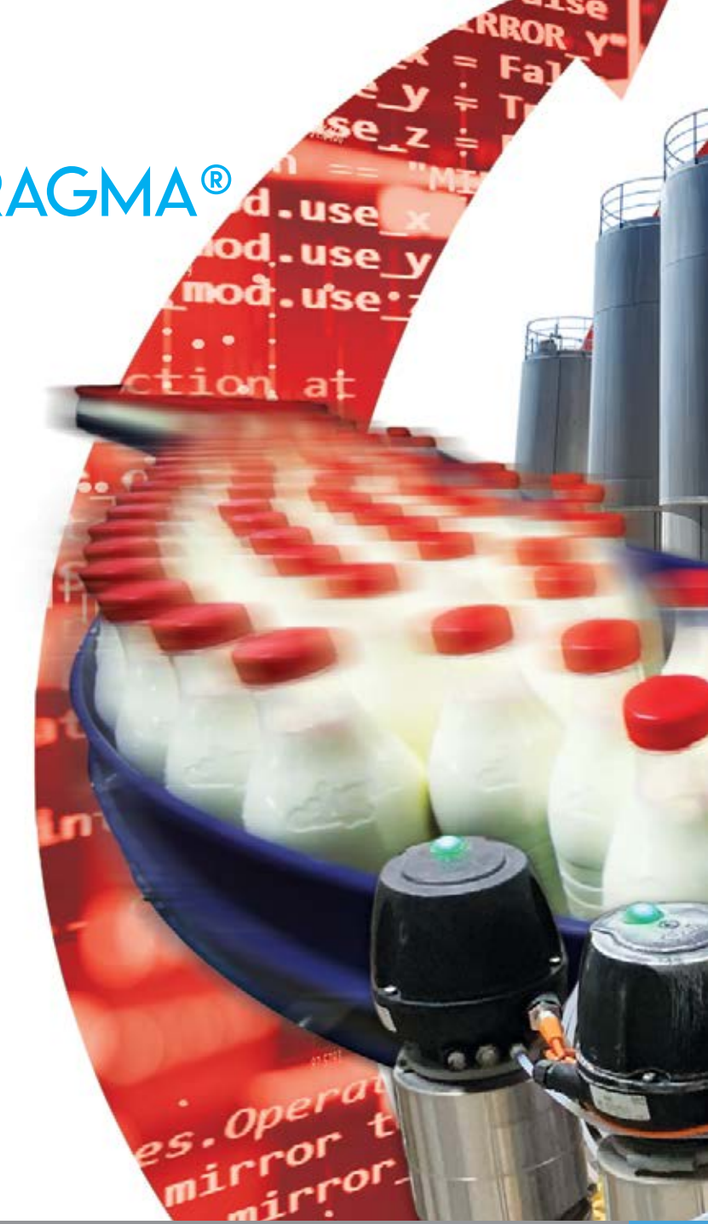
- Unpainted aluminium case and flange.
- Nominal diameters DN80-DN100.
- Available accessories: solenoid valve, pressure switch, vacuum unit, overflow unit, safety circuit.

INDUSTRIAL AUTOMATION PRAGMA®

PRAGMA AUTOMATION is a Mexican company formed by engineers of various nationalities with extensive experience in industrial automation and control of derivative processes.

They offer tailored solutions in: Programming of PLCs, SCADAs, HMI, databases, systems and control architecture, industrial networks, OEE, KPIs, instrumentation, engineering and technical support, on any platform or standard. Its goal is to work with the highest levels.

CFG® Effective Mixing • PARTNER •



INDUSTRIAL AUTOMATION

The fundamental purpose in the development of a project under our responsibility is the design of intelligent systems for industrial use, thus achieving the automation of industrial processes, thus improving their production and organization.

With the automation of its industrial process, PRAGMA guarantees improvements in the quality of the products, optimizing raw materials and production times; In addition, we ensure an improvement in productivity, with a reduction in industrial costs, a reinforcement of quality, an increase in the safety of the company's personnel and savings, derived from the efficiency in production.

SERVICES

- SCADA.
- PLC.
- Databases.
- Process control.
- Networks.
- PID.
- Motor.
- Collaboration with integrators.
- Electricity and control.

PLATFORMS

- Rockwell.
- Siemens.
- Wonderware.
- Proface.
- Mitsubishi.
- GE.

Distributor
Automation & Controls

SYSTEMS AND APLICATIONS

We have the specialists to design, develop and supervise the electrical and / or control system of the different processes that your company possesses, ensuring the desired behavior and maintaining its quality standards.
Likewise, we offer a design and application development service for each need, such as specialized desktop or web applications that involve managing reports, managing recipes, uploading information, reading data in real time, and displaying information. of equipment, statistics of the processes, design, development and administration of data base, among others.

Programming languages & frameworks

Java | Javascript | PHP | C | C++ | C#
Python | ANSI C | DEV EXPRESS
VISUAL NET | ASP.NET | VISUAL BASIC

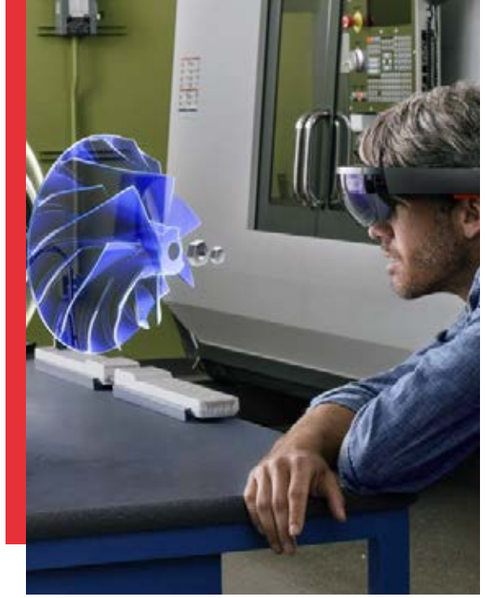
Simulation software & development

FlexSim MATLAB | SimScale
COMSOL | Simulink | Arena
Autocad | SolidWorks | Revit

VIRTUAL REALITY AND INCREASED REALITY

The great relevance of virtual reality and augmented reality consists of the ability to offer a more detailed view of what is being studied, offering a virtual environment within the same real environment, improving natural situations and offering perceptually more enriching experiences.

This technology not only offers us data or additional information about what is observed, but also allows us to digitally manipulate the information and navigate through it in an easy and interactive way.



KPI METERS

The key performance indicators (KPI's), allow us to make a real metric to determine the results of each of the actions that are running; also, gives us a global vision of the situations, which facilitates the company recognize its strengths and weak in each process or project that is done, obtaining measures quantitative and / or qualitative results of the same.

GENERAL EFFICIENCY OF EQUIPMENT

PRAGMA carries out analyzes on the efficiency of its equipment or processes,

in such a way that they can be taken into account for the development and design

of new automated systems that they wish to implement or for the systems that are currently in operation but that require improvements, in order to guarantee a World Class manufacturing.

CONSULTANCY

We set the standard in automation consulting by merging products, engineering services and innovative technology into one solution. Our products and services work together to improve performance, reduce risk and add value to any operation.

Our automation consultants have knowledge of practices, trends and regulatory problems

for a wide variety of industries, specializing in adapting automation, manufacturing, and enterprise systems solutions.

OPTIMIZATION

PRAGMA develops solutions to ensure the continuous improvement of processes by deploying innovative approaches aimed at to increase operational efficiency. Measurement and analysis of data from each client, which allow:

- Reduce costs.
- Reduce changes over time.
- Standardize methods.
- Improve equipment performance.
- Process reengineering.
- Factory design.
- Methods and quality.

FORMATION

Thanks to our great "Know How" in industrial automation and mastery over multiple brands and platforms, we carry out studies and complete analysis of the systems implemented in a plant, to subsequently develop the appropriate method of training, practicality and intuitiveness for its engineers.

CFG®

Effective Mixing

Get in touch with us!

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