



# PVC Mixer Machine

# HSC High Speed Combination Mixers

*Tailor made intelligent solutions*

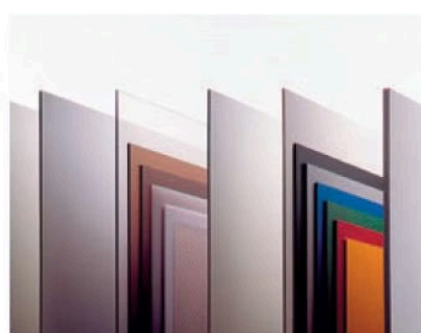


## Product Benefits;

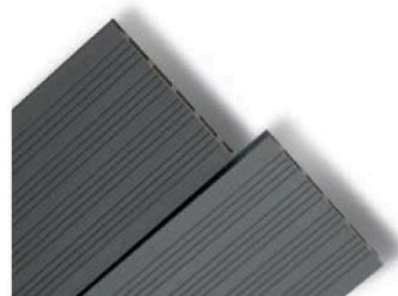
- Excellent mixing quality and outstanding cooling performance
- Maximum productivity through process-optimized detailed design and use of energy-efficient components
- Process-oriented system solutions in line with the modular principle.
- Machine sizes, drive systems and equipment options can be individually configured
- Intuitive operation of state-of-the-art control concepts for every level of automation with interfaces for integration into complete systems
- Different ATEX versions available

Fields of use;

- Rigid PVC
- Soft PVC
- WPC
- PPC
- Compounds
- Chemical Products



Rigid and soft PVC



WPC/PPC



compounds



chemical products



# V Series Mixers

## An economic and reliable mixer solution

In the vertical cooling mixer, the material to be mixed is cooled by gentle material circulation on a cooled surface. A targeted water supply in the mixer bottom and in the side wall ensures optimum cooling performance of the mix. After completion of the mixing process, the cooled mix is quickly discharged via the contour-shaped outlet.

## Benefits

- Optimal water flow in the mixer bottom and side wall for high cooling capacity
- Easy and quick cleaning via the opened swivel lid

# HSC-B Bonding Mixer



Provides an excellent metallic bonding effect by a simple and safe process, taking account of the risk of any blast of aluminum pigment by inerting bonding chamber using a controlled nitrogen atmosphere.

- Process-focused system solutions for maximum specific output.
- Excellent mixing quality, outstanding cooling performance.
- Proven for over 50 years in diverse processes – dryblending, coating, agglomerating, drying, etc.
- Energy saving through exceptionally efficient mixing tools and maximum drive system efficiency.



# Mixing Blades



**Pappenmeier**

## Optimised Design

Carefully engineered mixing blades with an optimised profile ensure thorough and efficient blending of your materials, leading to a homogeneous final product.

## Durable Construction

Made from high-quality, wear-resistant materials, our mixing blades are built to withstand the rigours of industrial processing and deliver long-lasting performance.

**N4 Stage**

## Customisable Options

We offer a range of blade designs and configurations to suit your specific mixing requirements, allowing you to fine-tune the performance of your PVC mixer machine.





# Jet Filter (Dehumidifier)

The jet filter integrates with the mixer to absorb the moisture generated during the mixing process.

## Comprehensive Application

It can be applied to all types of mixers.

## Ease of Use

It is easy to use and maintain.

## PLC Controlled

Operates at designated intervals in PLC-controlled machines.

## Automatic Cleaning

After completing the necessary dehumidification process, it self-cleans.



# Liquid Dosing System

## Operating Principle

DLSys works integrated with the DDSys powder dosing system to ensure the precise and accurate weighing of liquid stabilizers.

## Accuracy

Gravimetric dosing involves weighing directly on a precision scale and has an accuracy of 0.1% (one-thousandth).

## Flexibility

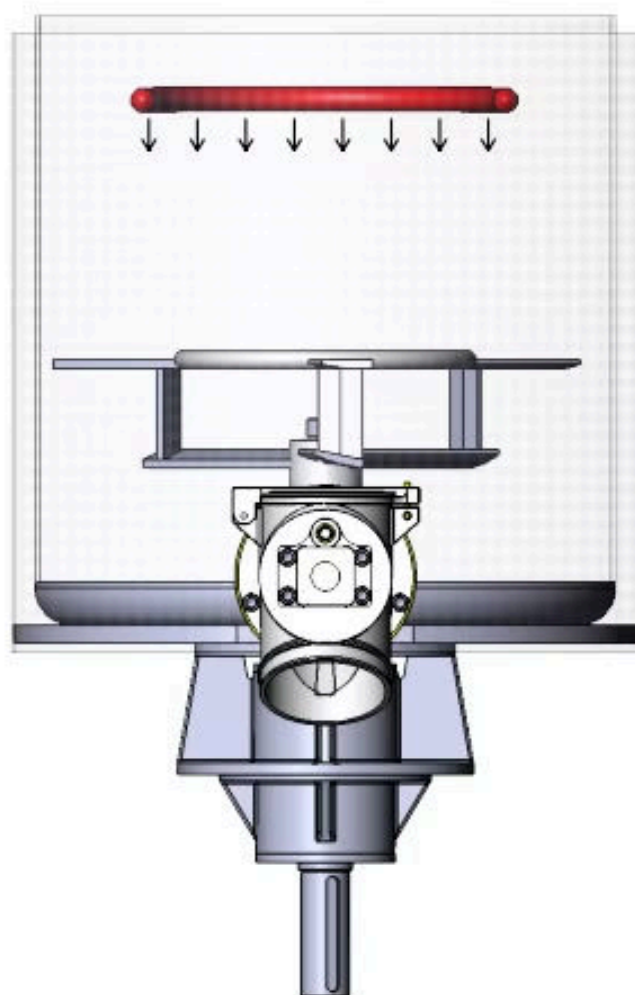
Production can be tailored to the required number of materials (such as DOP, DINP, DIDP, etc.).

## Extras

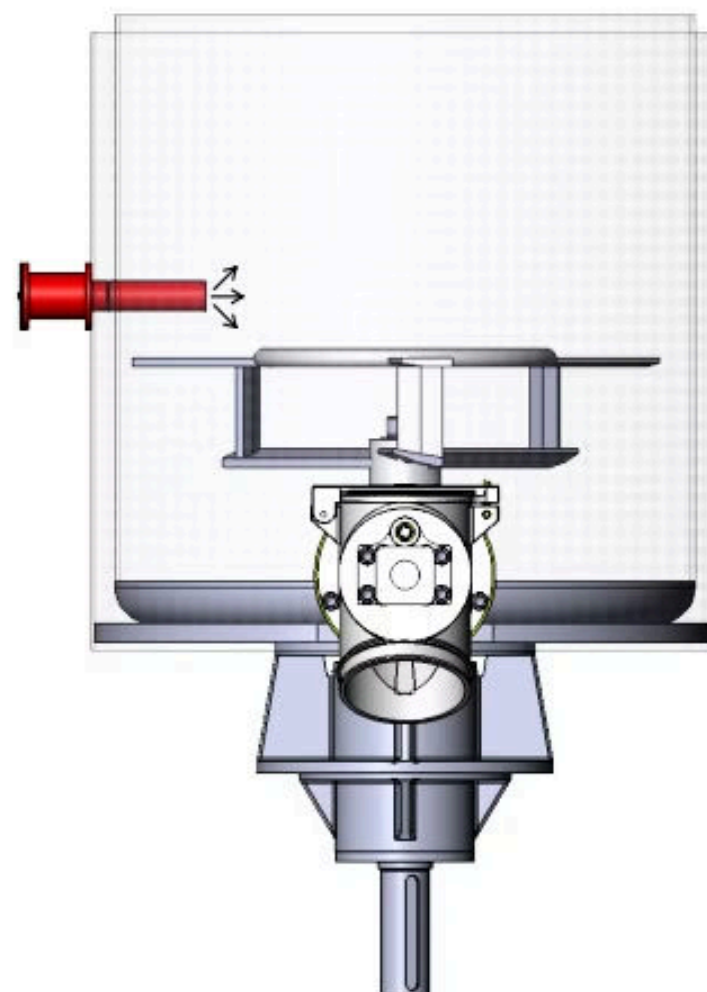
Additional modules such as pre-heating can be adapted to the system as needed.

# Types of Lubrication

Liquid Shower



Liquid Spraying



# Gravimetric Automatic Dosing System



## Precise Dosing

The gravimetric dosing system ensures accurate material feeding, guaranteeing consistent product quality with minimal waste.

## Uniform Quality

By precisely controlling the proportions of each ingredient, the system delivers a consistently homogeneous end product.

## Automated Control

The fully automated system reduces the need for manual intervention, improving efficiency and reliability in the production process.





# PVC Storage Silos



## High Capacity

Stores large volumes of PVC

## Controlled Environment

Maintains material quality

## Efficient Feeding

Supplies extruder with consistent flow

# PVC Extrusion Line

1

## Extruder Feeding Hopper

Consistent material supply

2

## Distribution Conveyor

Fast and safe transport

3

## Automatic control

Distribution line control



# Masterbatch Mixer



## Blending

Homogeneous compound



## Temperature Control

Precise heating



## Automation

Efficient production process

# Container Mixer

1

## Versatile

Mixes a variety of materials

2

## Efficient

High-speed blending for productivity

3

## Customizable

Tailored to customer requirements



# Field of Uses



**PVC**



**Other Plastics**

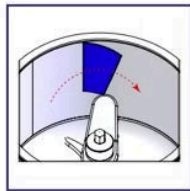


**Colours**

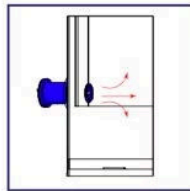
### ACCESSORIES

Additional expansion options :

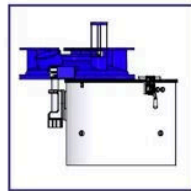
- Hydraulic tool lift
- Aspiration heating mixer / Jet-Filter cooling mixer
- Injection of liquids (e.g. plasticizers)
- External vessel tempering
- Hydraulic tool lift
- Load cells
- Lift-and-swivel lid for better cleanability
- ATEX version:
- Nitrogen inerting
- Oxygen concentration measurement
- Explosion suppression systems
- Data recording and analysis
- Remote maintenance



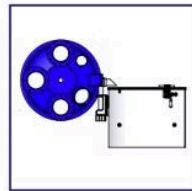
Deflector



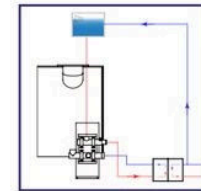
Side Injection Nozzle



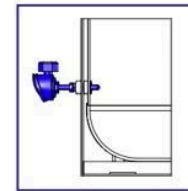
Lid



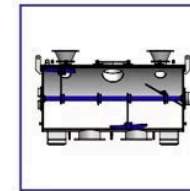
Lid Tilting



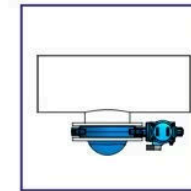
Closed Loop Heat Exchanger



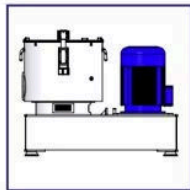
Wear Resistant Probe



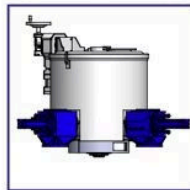
Cooler propeller



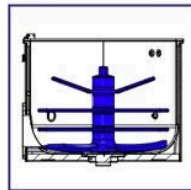
Butterfly Valve Actuator



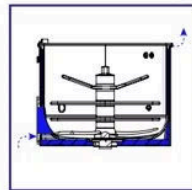
Water cooled Motor



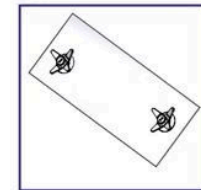
Dual Discharge



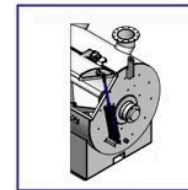
Water Cooled Tools



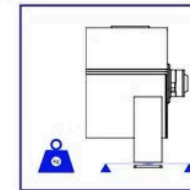
Vessel Tempering



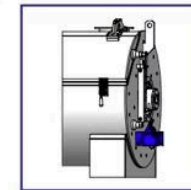
Choppers



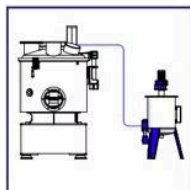
Piston Lifting



Cooler Weighing



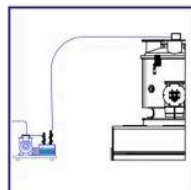
Hydraulic Lifting



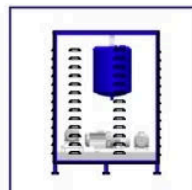
Jet-Filter



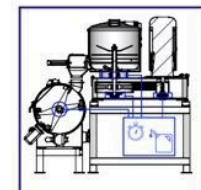
Filter



Vacuum Dehumidifying



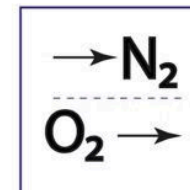
Liquid Dosing



Automatic Greasing



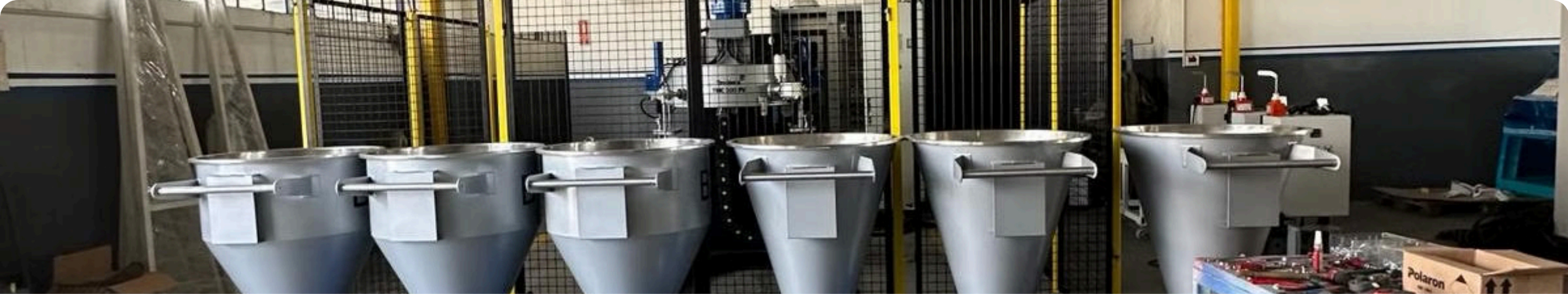
Explosion Safety



Nitrogen Blanketing



Wear Resistant Vessel



# Our Expertise

1

## Design

Customized solutions

2

## Manufacturing

High-quality equipment

3

## Installation

Turnkey project delivery