



# Blending Powders

Different Blending machines for  
different process operations



# Common characteristics blending machines

- ✓ Designed following cGMP criteria.
- ✓ Product is blended by batches.
- ✓ The controls are based on Siemens or Allen Bradley Automation with 7' touchscreen HMI.
- ✓ Possibility to manage recipes and accesses protected with different password levels.
- ✓ From a constructive point of view, the machine is composed of:
  - supporting structure group with main motor and power panel;
  - rotating group that contributes directly to the blending of the product.



# Options available on each type of blender

- CFR21 part 11
- Laser scanner system
- Report printer on control panels
- Electric voltage different from the standard
- Safety barrier for mixing area
- Rockwell Automation PLC and HMI
- Validation documents



# Double cone or «V» blender

Specific features:

- tank containing the powders is an integral part of the machine and it is not removable for loading/unloading and cleaning.
- Big volume batches are suitable with this type of blenders.

The advantage:

- "V-Blender" efficiency is guaranteed by the 50/50 physical separation of the product at each rotation of the container.
- About the Double cone blender Bimech proposes the eccentric cone solution as a standard to increase the level of turbulent motion of the powders during mixing.



# «V» Blenders and cone blender sizes

- **LAB version: vessel 2 up to 30l (removable vessel)**
- **MINI version: vessel 300l (150l maximum useful volume)**
- **MIDI version: vessel 600 l (300l maximum useful volume)**
- **MAXI version: vessel over 1000l**



# Bin Tumbler

The tumbler brings BIN containers in stainless steel in rotation from 4 up to 20 rpm.

This machine is supplied in two versions:

- **BIN TUMBLER "Stand-Alone»**
- **BIN TUMBLER "Through-Wall»**

In Stand-Alone execution the machine is completely covered in stainless steel Aisi 304 satin finished.

In Through-Wall execution the front side is covered by stainless steel Aisi 304 satin finished and the technical area on the back side is closed by a painted carbon steel protection.





# Bin Tumbler

The Bins are placed in the cradle of the structure by the operator, and the machine will move the lower platform bringing the container to the mixing start position.



# Compact solutions

- Dedicated Blending rooms with safety doors
- Wall Flushing GMP HMI
- Floor loading solutions





# Bin Tumbler sizes

- **LAB version: BIN 2 up to 30l (only in stand-alone execution)**
- **MINI version: BIN 30 up to 300l (70% maximum useful volume)**
- **MIDI version: BIN 300 up to 1000l (70% maximum useful volume)**
- **MAXI version: BIN 1000 up to 2000l (70% maximum useful volume)**

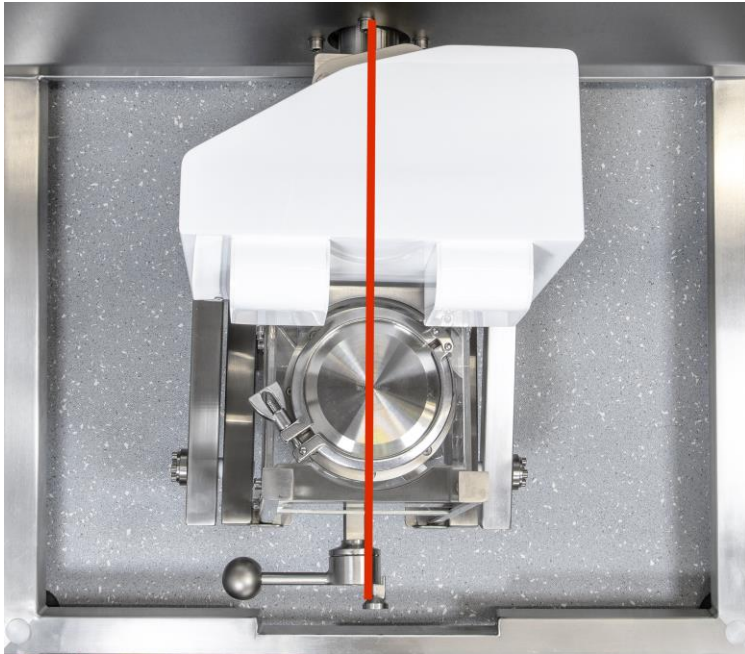
# Bin Tumbler blending position

The lower part of the structure is sized in such a way as to be able to accommodate the bins and bring them in contrast with the upper part, also giving them an inclination on the vertical axis of  $15^\circ$ .

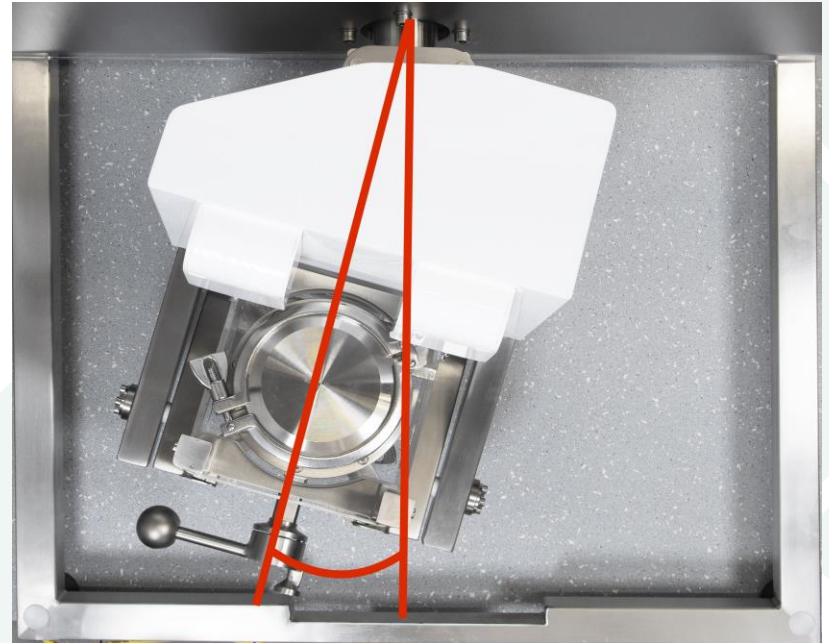


# Bin Tumbler secondary inclination

Single Inclination Execution



Double Inclination Execution





Omp  
ORGANISMO PER LA MECCANICA

Bimech  
BIMECCH

zz  
DriveTech



**OMP S.p.A** Società soggetta a direzione e coordinamento della Meccanica CT s.r.l.

Sede Legale Via Di Pietro Adalgiso, 1 – 66100 Chieti (CH)  
www.gruppocht.com  
C.F. - P.IVA 0243736 0692  
e-mail: info@ompspa.eu  
Cap. Soc. Euro 800.000,00 i.v. - C.C.I.A.A. CHIETI REA n.178909

**Sede Operativa Divisione 1**

Via Di Pietro Adalgiso, 1 66100 Chieti (CH)  
Tel. +39 0871.565624  
Fax. +39 0871.551110

**Sede Operativa Divisione 2 & Bimech S.r.l.**

Nucleo industriale PRT, C.da Saletti, 66020 Paglieta (CH)  
Tel. +39 0871.565624  
Fax. +39 0871.551110