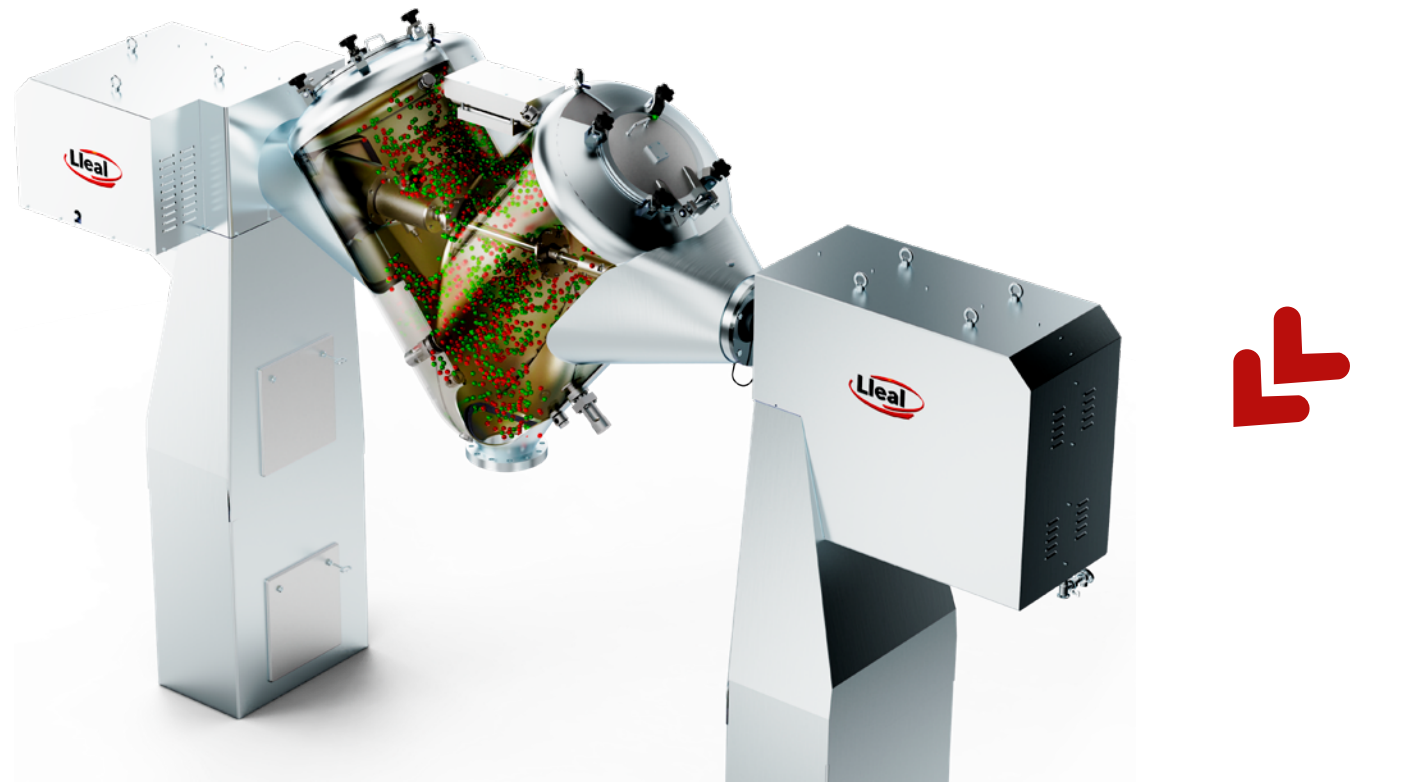


SOLIDS ROTARY PROCESSORS PB & SBC



Lleal
with you, step by step



SOLIDS ROTARY PROCESSORS PB & SBC

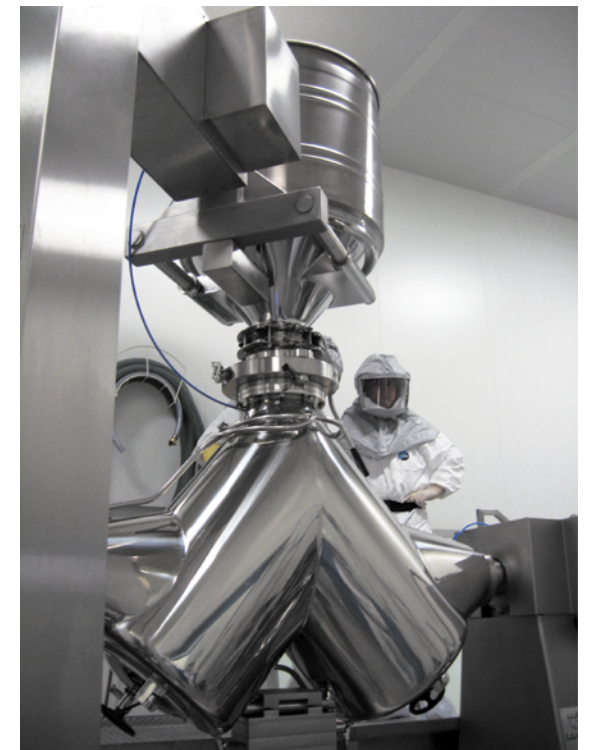


The rotary body SOLID PROCESSORS represent a complete system for the treatment of solids enabling the precise and gentle mixing of powdery solids in any percentage, including those of different densities and particle sizes, and also extracting the water coming from the mixing process up to the required moisture content.

Two types of rotary solids processors are available: the PB with V-shaped body and the SBC with biconical body.

Both are especially suitable for crystalline products. Its main advantage is that the mixing and drying processes can be carried out in a single unit, reducing operating costs.

This equipment incorporates a vacuum system and a double jacket (heating and cooling) which, combined with a rotary mechanism, enables the recirculation of hot fluids, thus ensuring the drying of the product to be treated.



PB-250-CAIVR processor in loading position, equipped with active/passive valve



SBC-4200 clean room dryer

FEATURES

- » They disperse minor additives evenly and, thanks to the intensifier mechanism, break agglomerates of abrasive, fragile materials with heavy or light densities.
- » Gentle tumbling action for accurate, fast and uniform drying of fragile materials.
- » Very low final moisture values.
- » Fast and complete emptying of the dried product.
- » Automation option for the control of an entire batch and possibility to record the parameters during the cycle.

» Alternatively, they can incorporate a liquid injection system so as to add small doses to the solids in the mixing process. This will be possible if an intensifier mechanism is installed.



Components and accessories

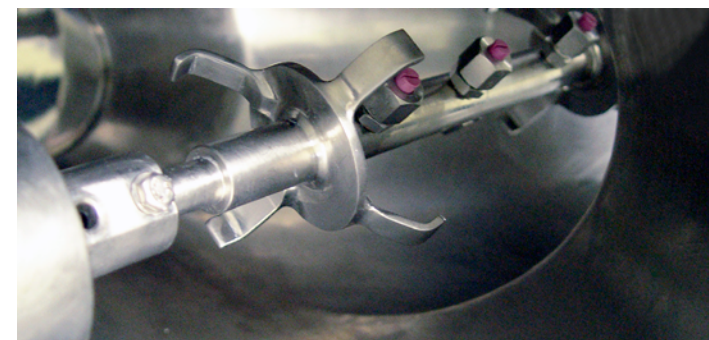
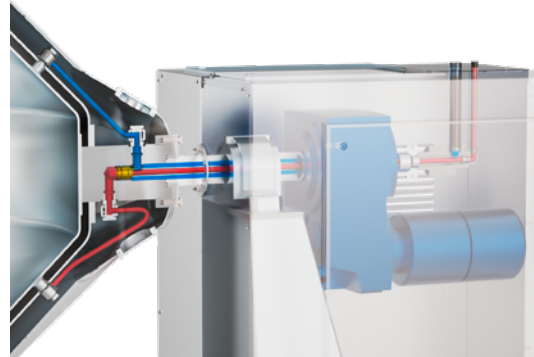
VACUUM SYSTEM

It consists of a special sintered stainless steel filter, protected on the outside by a "hood" preventing direct contact of the filter with the product. It is installed inside the dryer body, in the upper part, and connected by a static stainless steel pipe, mounted inside the dryer shaft, which ends on the outside with a coupling flange and on which a PT100 temperature probe is mounted so as to know at all times the inside temperature.



DOUBLE CHAMBER HEATING/COOLING

The processor body is equipped with a double heating or cooling chamber made of stainless steel. The heating fluid is supplied and evacuated through rotary joints with their respective connections to the double chamber. If the heating fluid is at high temperatures, it is advisable to place a third jacket covered with an insulating material. It represents energy savings and safety for operators.



INTENSIFIER MECHANISM

It is made up of a horizontal shaft, equipped with small percussion hammers designed to break up the lumps. It is installed inside the mixer body and rotates independently of the body as it has its own drive unit.

It acts as an intensive agitator, shortening process times and increasing the quality of the mixture, since it destroys and crushes all types of agglomerates or granules. In addition, the intensifier is also useful for dispersing small doses of: additives, colorants, vitamins, etc., with great efficiency.

LIQUID INJECTOR

If the process requires it, it may incorporate a liquid injection system allowing small doses to be added to the solids in the mixing process. The liquid is injected through the intensifier boom, which is then equipped with spray nozzles. The liquid is fed by means of a peristaltic pump or through a pressurized tank and the nozzles distribute it homogeneously.

SYSTEM FOR VACUUM LOADING OF SOLIDS

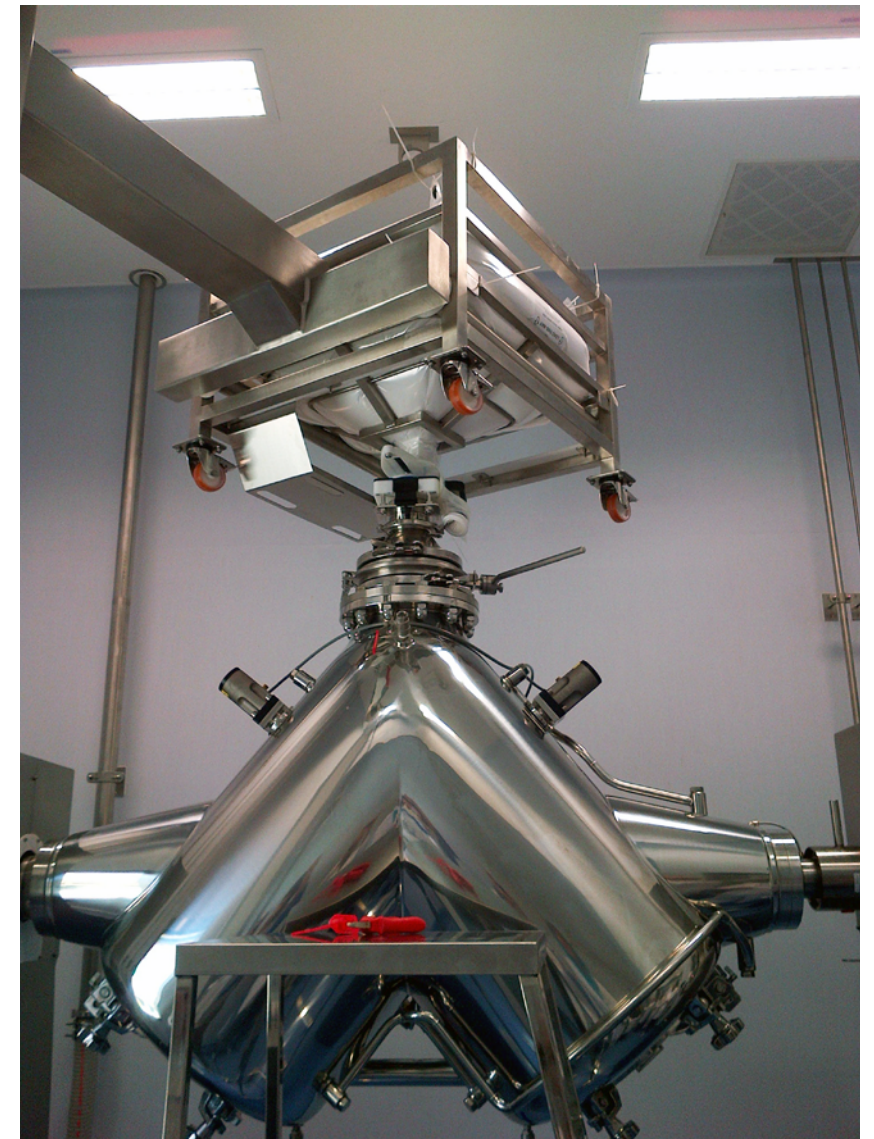
The equipment can incorporate a system for vacuum loading of solids by means of a pump and a cyclone safety filter. In the case of the PB, a head is installed to be coupled to the unloading mouth, equipped with product and vacuum inlets with electro-pneumatic valves. In the case of the SBC, however, an extendable bellows is installed, driven by two pneumatic cylinders with flange and sealing coupling gasket, driven by a rotary allowing the entry of compressed air for the extension of the bellows and the opening of the automatic discharge valve. This bellows may be mounted on a support fixed to the bedplate or on the loading or unloading mouth of the auxiliary equipment.

This system transports the components to be mixed from a hopper, container or bag to the interior of the mixer without generating ambient dust, thus minimizing loading times.

This system is operated from the push buttons installed in the electrical panel.

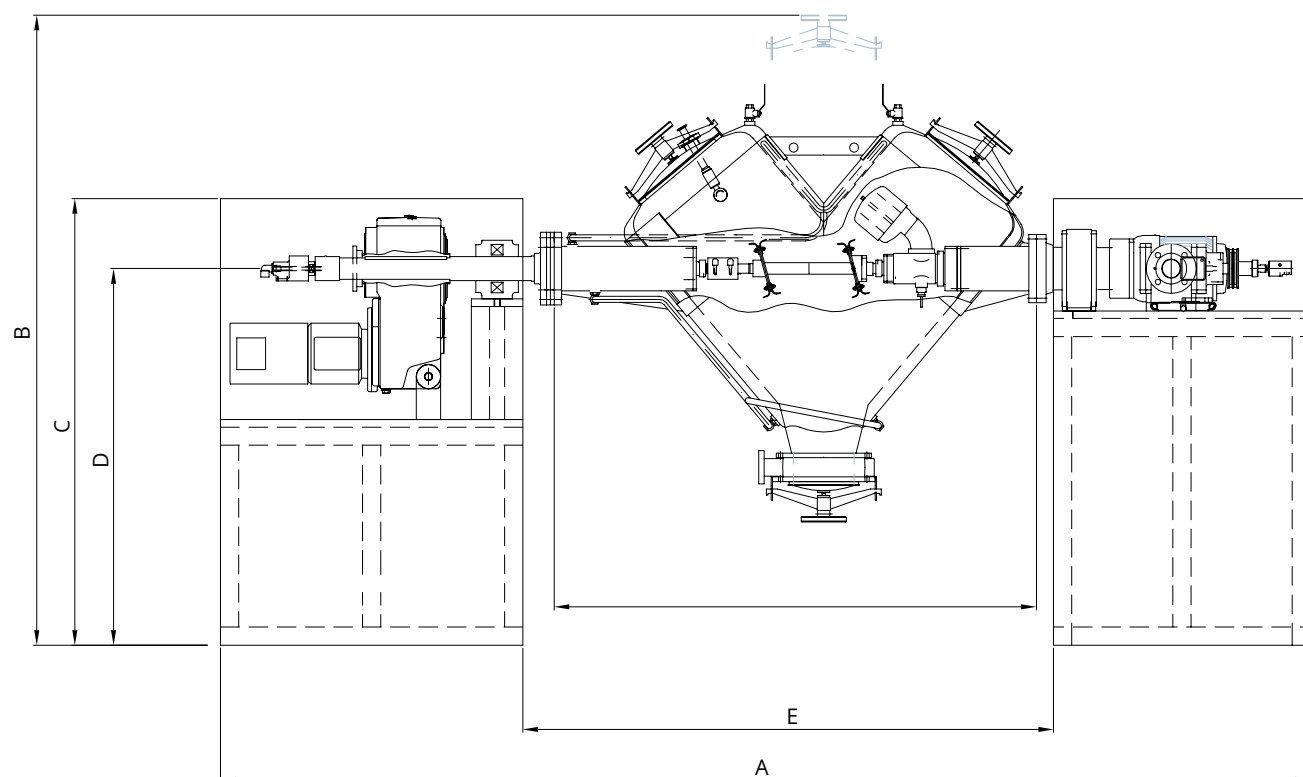
AUTOMATIC STOP POSITIONER

Electronic system enabling to program the mixer stop positions for loading and unloading. Before stopping in position, it performs a previous speed reduction and stop cycle by means of the drive motor-brake.



PB-250-CAIVR processor in loading position, equipped with a passive valve, powered by a container elevator.

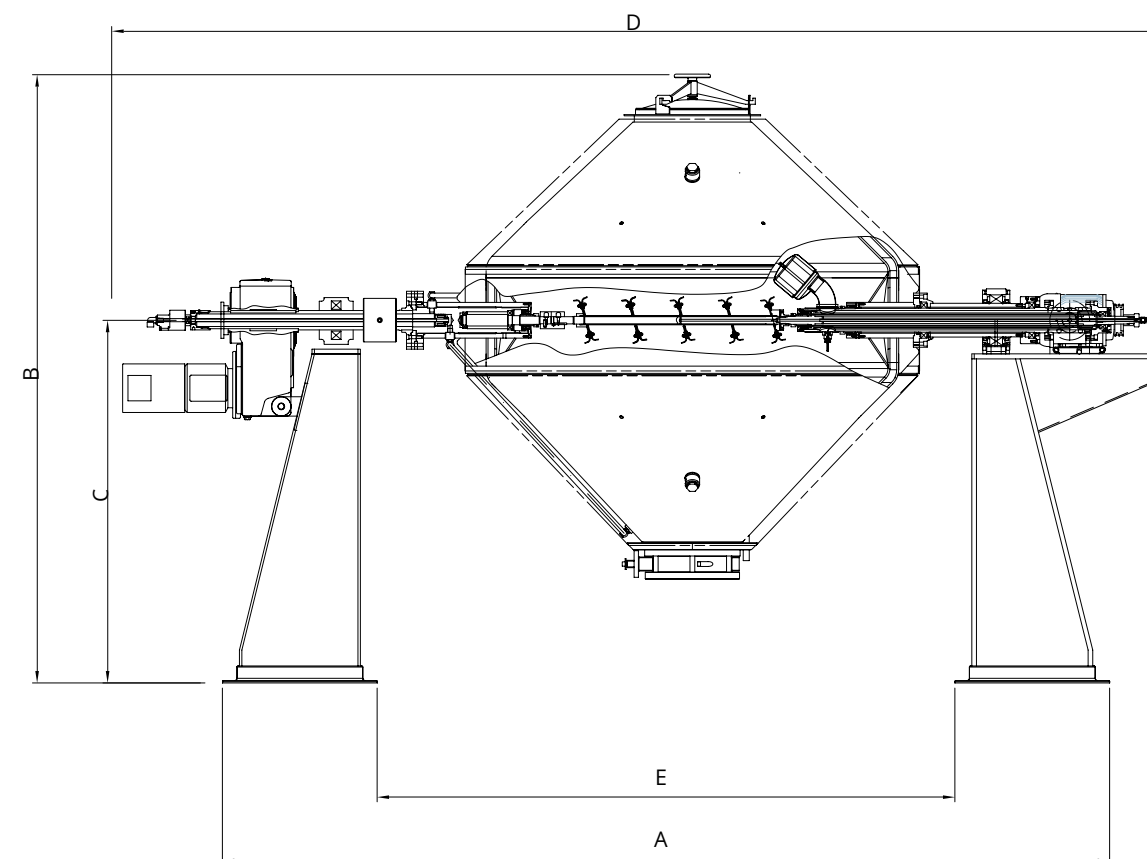
PB technical data



Model	Useful volume (L)	Power (kW)		Dimensions (mm)				
		Mixer body	intensifier shaft	A	B	C	D	E
PB-150-CAIVR	75	1,5	3	3,110	1,992	1,400	1,240	1,410
PB-250-CAIVR	125	2	3.7	3,400	2,058	1,450	1,240	1,700
PB-600-CAIVR	300	4	7.5	4,380	2,661	1,800	1,650	2,180
PB-1000-CAIVR	500	5.5	15	4,615	2,835	1,900	1,650	2,415
PB-1400-CAIVR	700	7.5	15	4,805	2,970	2,000	1,650	2,605
PB-2400-CAIVR	1,200	10	20	5,540	3,559	2,400	2,005	3,090
PB-3000-CAIVR	1,500	10	25	5,700	3,697	2,500	2,005	3,250
PB-3300-CAIVR	1,650	15	30	6,385	3,100	1,920	1,590	3,300
PB-4700-CAIVR	2,350	15	30	6,800	3,434	2,000	1,570	3,800



SBC technical data



Model	Volume		Diameter of central cylindrical body (mm)	Diameter of loading inlet (mm)	Dimensions (mm)				
	Useful	Total			A	B	C	D	E
SBC-50	32	50	470	200	1,400	1,395	1,040	1,703	700
SBC-100	65	100	600	200	1,650	1,505	1,040	1,974	950
SBC-250	165	250	800	300	2,250	1,845	1,240	2,866	1,230
SBC-400	260	400	950	350	2,013	2,314	1,670	2,450	1,033
SBC-600	390	600	1,100	400	2,190	2,002	1,275	2,710	1,250
SBC-1000	650	1,000	1,300	400	3,410	2,980	2,034	4,075	2,135
SBC-1400	910	1,400	1,425	400	3,410	2,980	2,034	4,075	2,135
SBC-2250	1,450	2,250	1,650	500	4,550	3,665	2,710	4,980	2,445
SBC-3300	2,145	3,300	1,950	500	3,626	2,685	1,530	4,315	2,346
SBC-4200	2,730	4,200	2,100	500	3,650	3,570	2,340	4,900	2,650