

VERTICAL HOMOGENIZER

HV 50 – HV 3000

PERRY mix

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PERRY PROCESS EQUIPMENT LTD

A PERRY EQUIPMENT COMPANY

CHARACTERISTICS

Vertical homogenizers HV50 - HV 3000 (orbital screw conical mixer) belong to the most successful products of the new PERRYmix range.

Their simple design, consisting of a conical vessel and an orbiting arm with a rotating mixing screw, impart the homogenizer a series of advantages:

- High degree of homogenization.
- Self-emptying effect.
- Simple and safe operation.
- Low power consumption.
- Short mixing time.
- Easy and quick removal of the screw.
- Gentle product mixing.
- Customisable.

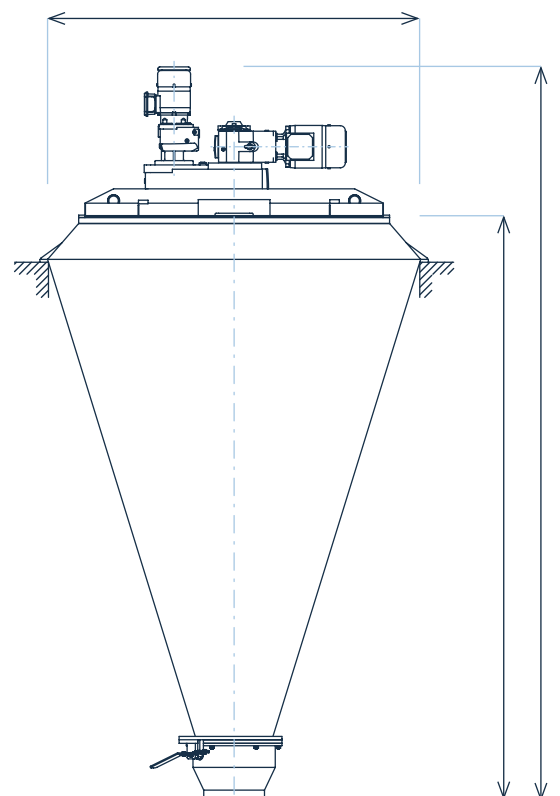
PERRYmix



APPLICATIONS

The characteristics and high-quality material processing in the form of all stainless or stainless/cast iron versions make the orbital screw conical mixer an ideal partner in many production processes. Homogenizers are popular not only in the food, chemical and pharmaceutical industries, but also in fodder and agrochemical production. Specific applications of vertical mixers:

- Puddings, soups and instant drinks.
- Blends of teas and spices.
- Mixtures for the manufacture of medicinal products and food supplements.
- Mixtures for the production of chemicals.
- Feed mixtures and agricultural premixes.
- Powder paints and pigments.



BASIC DESIGN

Basic design takes into account the routine needs of our customers. Homogenizers are supplied in the following configuration:

- Vessel, screw stirrer, clamping traverse, outlet and semi-circular hoods made of stainless steel, grade AISI 304.
- The orbit arm, drive and gearbox are made of carbon steel, sprayed with food grade paint.
- Parts of the vessel that come in contact with the product, including welds, are ground smooth.
- Thickness of the vessel wall before processing is 2.5 mm.
- Quick-removal of the screw for faster and easier assembly/disassembly.

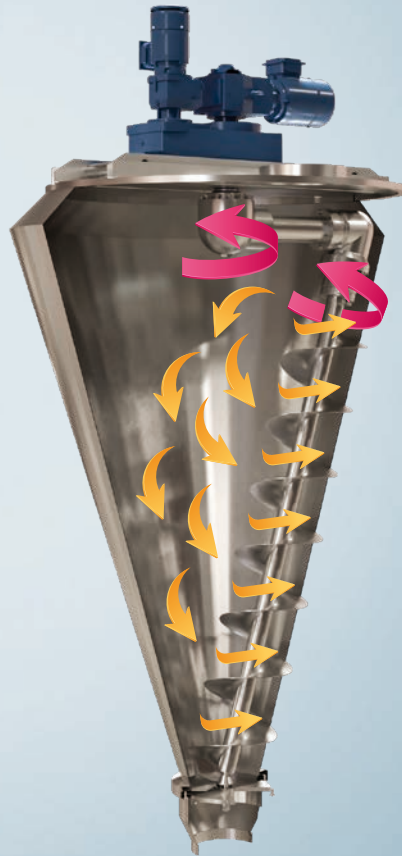
IMPROVED DESIGN

- All stainless steel arm, grade AISI 304.
- Partial stainless steel arm, grade AISI 304 - painted carbon steel bearing housing.
- Material quality of parts in contact with product - AISI 316L.
- Tilting half-circle top cover with locking.
- Drives and gearboxes for potentially explosive atmospheres.
- Pneumatically controlled discharge valve.

model	operating volume [l]	output [kW]		dimensions [mm]			weight [kg]
		arm	screw	vessel Ø	vessel height	total height	
HV50	50	0,25	0,75	732	968	1364	250
HV100	100	0,25	0,75	820	1118	1515	300
HV200	200	0,37	1,5	1178	1565	2195	650
HV300	300	0,37	1,5	1300	1780	2410	700
HV600	600	0,37	1,5	1418	2205	2835	750
HV1000	1 000	0,37	2,2	1560	2434	3064	800
HV1200	1 200	0,37	3,0	1821	2600	3230	850
HV1500	1 500	1,5	4,0	1753	2750	3380	900
HV2000	2 000	1,5	5,5	1900	2975	3605	950
HV3000	3 000	1,5	5,5	2180	3450	4035	1 000

BASIC MIXING PRINCIPLES

Fast and effective homogenization takes place by moving the arm and the stirring screw. The homogenized raw materials are drawn from the bottom of the vessel upwards by screw rotation. At the same time, the screw rotates along the inner conical wall of the container and moves and mixes the product. The product slides under gravity back to the bottom of the vessel.



PERRY PROCESS EQUIPMENT LTD

We supply high quality new and used process plant and equipment to the chemical, pharmaceutical, food and beverage industries. With equipment immediately available from stock and competitively priced, we are one of the leading dealers of used machinery worldwide. Established in the UK in 1990, we go beyond just buying and selling equipment. We have a team of experienced and knowledgeable staff to assist with equipment sourcing, mechanical refurbishment, international payment options, export packing and logistics, equipment disposal, and support with the dismantling and removal of plants, lines and equipment.

PERRY mix

We have transferred experience from our practice to the production of new vertical homogenizers of HV type, Z-type kneaders, dissolvers, bead, basket and colloid mills. In communication with the client we apply the principle of individual approach, while the resulting machine design meets the specific requirements of the client; the machine is tailor-made. During the production itself, we rely on quality and professional workshop facilities in Hradec Králové, Czech Republic. Thanks to worldwide representation we have already exported new equipment to more than eight countries within the European Union and Asia.

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