

HD-series Multi-directional Mixing Machine



HD Multi-directional mixing machine is a novelty material mixer, which is extensively used in Pharmacy, Chemical industry, Metallurgical Industry, Food, Light industry, Agriculture and so on. The machine can mix powder or granules very evenly, so that the mixed materials can reach their best effect.

Structure:

The HD Powder mixing machine consists of the base, driving system, electric control system, multi-directional, movement mechanism and mixing tank. The mixing tank to be in contact with the materials is made of quality stainless steel, with both inside and outside of the tank mirror polished.

Working principle:

The mixing barrel is supported by the driving and driven shafts which are crossed in space and also vertical to each other, and are respectively connected by Y-type universal joints, so that the mixing barrel makes unique translation, turning, turning over motions in Three-dimensional space, thereby speeds up the flow and diffusion of the materials being mixed, while avoids the specific gravity segregation of materials due to the action of centrifugal force in an ordinary mixer, and ensures the materials to reach an ideal mixing within a short time.

Characteristics:

- It has a unique driven shaft servo mechanism, so that the whole machine runs stably and reliably with low noise.
- The equipment does not need a foundation and features convenient erection and maintenance as well as long service life.
- It can ensure a good mixing effect and short mixing time. The evenness of mixing reaches above 99.5%.
- Its charge coefficient reaches 85%, more than double that of an ordinary rotary mixer.

- Thanks to its low height and small rotating space, it usually does not need skip floor.
- The eccentric cone design of the discharge end of the mixing barrel ensures discharge free of dead corner and residue, so it is easy to clean and conforms to the requirement of GMP.
- HDA series multi-directional motions mixer can start in low speed, run smoothly in rated speed, timing and deceleration for stop. Automatic shutdown location of the machine is the best location for charging and discharging

Parameter:

Model	HD-5	HD-20	HD-50	HD-100	HD-200
Volume of mixing barrel (L)	5	20	50	100	200
Max. charge volume (L)	4	17	40	85	170
Max. charge weight(kg)	4	15	40	80	100
Main shaft speed(rpm)	20	20	17	14	14
Motor power(kW)	0.75	0.75	1.1	2.2	3
Weight of whole machine(kg)	90	100	200	650	900
Shape dimension dynamic	900×	970×	1200×	1360×	1800×
(long x wide x high(mm))	700×	780×	1100×	1500×	1600×
	650	700	1200	1530	1700

Model	HD-400	HD-600	HD-800	HD-1000	HD-1500
Volume of mixing barrel (L)	400	600	800	1000	1500
Max. charge volume (L)	340	500	680	850	1275
Max. charge weight(kg)	200	300	400	500	750
Main shaft speed(rpm)	12	12	10	10	10
Motor power(kW)	4	5.5	7.5	7.5	11
Weight of whole machine(kg)	1350	1550	2500	2650	4000
Shape dimension dynamic	2200×	2400×	2600×	2800×	3400×
(long x wide x high(mm))	1900×	2100×	2500×	2600×	3200×
	1850	2050	2550	2800	3100