



## *HD(A) Multi-directional Motions Mixer*



### **Usage:**

HD(A) Series Multi-directional Motions Mixer 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.

### **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.

## Features:

- 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.
- HD(A) 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.

## Main technical parameter:

Model	HD-5	HD-20	HD-50	HD-100	HD-200	HD-400	HD-600	HD-800	HD-1000	HD-1500
	HDA-5	HDA-20	HDA-50	HDA-100	HDA-200	HDA-400	HDA-600	HDA-800	HDA-1000	HDA-1500
Volume of mixing barrel (L)	5	20	50	100	200	400	600	800	1000	1500
Max.charge volume (L)	4	17	40	85	170	340	500	680	850	1275
Max.charge weight(kg)	4	15	40	80	100	200	300	400	500	750
Main shaft speed(rpm)	20	20	17	14	14	12	12	10	10	10
Motor power(kW)	0.75	0.75	1.1	2.2	3	4	5.5	7.5	7.5	11
Weight of whole machine(kg)	90	100	200	650	900	1350	1550	2500	2650	4000
Shape dimension dynamic (long x wide x high(mm))	900x	970x	1200x	1360x	1800x	2200x	2400x	2600x	2800x	3400x
	700x	780x	1100x	1500x	1600x	1900x	2100x	2500x	2600x	3200x
	650	700	1200	1530	1700	1850	2050	2550	2800	3100