



## *HL Series Mixing Machinery*



The HL bin blender is extensively used for mixing with dry powder or powder with grain in the process of diversified solid preparation production in the pharmaceutical industry. This machine can be equipped with bins of various specifications from 400L to 1400L for mixing work. It is suitable for mixing pharmaceuticals of multiple varieties and different batches according to the technological requirement in large and medium-sized pharmaceutical enterprises, so it can achieve multiple purposes in one machine.

### **WORKING PRINCIPLE:**

After tightly clamping the charged bin, the rotating arm begins to rotate at a speed below 50% of the critical speed according to the preset technological parameters. As the symmetrical axes of bin and the rotating center line of rotating arm form an included angle, materials with different constituents are strenuously rolling over in the closed bin and producing high shear to achieve the best effect of mixing.

### **FEATURES:**

1. It is a high-tech product which integrates machinery, electronics and hydraulics in to one body. It employs hydraulic clamping, mechanical driving and computer control, and is easy to operate and convenient to adjust technological parameters.
2. The control system is highly sensitive, and the whole machine is compact in structure, stable and reliable in running.
3. A single machine can be equipped with bins of various specifications such as 400L, 600L, 800L, 1000L, 1200L, 1400L. The material remains in the bin after mixing, which will be dismounted from the rotating arm and shifted directly to the next procedure, thus greatly improving the utilization efficiency of the mixer and avoiding cross contamination of materials.
4. The mixing bin can be used as a batching bin in the upstream procedure and also as a charging bin in the downstream procedure (compressing and filling of tablets). The evenness of mixing

reaches above 99%, the volume charge coefficient reaches 0.80. Both inner and outer surfaces of the bin are clean and smooth without dead corner.

5. After mixing each batch of pharmaceuticals, the empty bin is sent to a special cleaning room for cleaning so that to keep the workshop clean, which fully conforms to the requirement of GMP.

TECHNICAL DATA:

型号 Model	HL-600	HL-1000
Maximum working load (Kg)	600	1000
Bin volume (L)	400、600	600、800、1000、 1200、1400
material density required ( g/cm <sup>3</sup> )	≤ 0.8	≤ 0.8
Total power ( kW )	11	15
Rotating arm speed (rpm)	12-18	12-15
Operating pressure of hydraulic system ( Mpa )	7	7
Operating pressure of pneumatic system ( Mpa )	≥ 0.6	≥ 0.6
Maximum rotating diameter ( mm )	Φ2200	Φ2910
Range of working zone ( mm )	Φ2400	Φ3200
Height of body frame ( mm )	2150	2700