

High Shear Mixer Model D-300

Instruction Manual



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...Quality is Everything...

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Rev.B

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1. INTRODUCTION

The structure of the D-300 type motor stirring machine is simple, rational and reliable structure. It is characterized with great power, conventionally and reliably speed adjusting, randomly adjusting the height and volume of stirring, flexible and conveniently operation. It apply to stirring analyzing fluid when compounding at the heavy laboratory of heavy industry, light industry and chemical industry and medical institution, electronics industry and scientific research institution.

The stirring shaft and machine are integrally designed, ensuring high concentricity and stable operation. It can work continuously for 24 hours without interruption, supports reverse operation, and the stirring blades can be freely selected, detachable, and replaceable.

2. SAFETY



High voltage **ELECTRICITY WARNING! Alerts the operator that there is risk of electric shock.**



This blender is similar to any mixing blender and does not present any unusual hazards.

Follow these recommended safety practices:

1. The operator should always wear safety glasses in case the mixture splatters when adding ingredients.
2. The operator should not drop any foreign objects in the container while mixing is occurring. These foreign objects could strike the operator or damage the mixing blades and container.

3. It should be plugged in to a properly grounded outlet with the ground prong in place.
4. Do not use extension cords.
5. Always remove the plug from the receptacle before performing any work on the mixer base.
6. Do not immerse the mixer in any fluid or spray it with any fluids.
7. The blender should be at a comfortable height for the operator. The operator should be able to add ingredients without straining to reach the mixer. Also, the mixer should be close enough to shut it off quickly if necessary.
8. The mixing cup should be cleaned thoroughly after use to prevent the buildup of cement or other deposits. These deposits can cause accelerated wear of components. The mixing blades should be checked daily for damage. Damaged or worn blades should be replaced immediately.

3. FEATURES AND SPECIFICATIONS

ITEM	CATEGORY	SPECIFICATIONS
1	Working power source	AC 220V AC; 50/60Hz
2	Power	550 W
3	The speed adjusting range	0~6500r/min
	Speed adjustment method	Variable frequency drive (VFD)
4	Environment temperature	~40°C
5	Environment humidity	10~85RH%
6	Dimensions, Weight (Height x Width x Depth)	740*360*320 mm 20 kg

The instrument is composed of the following three components:

1. The supporter assembly is composing of seat and rod which supports the instrument.
2. The motor stirrer assembly is composed of stirring vane, stirring rod, connection, and motor and adapter sleeve. It is the main component that stirring the sample.
3. The motor governor assembly is composed of switch; potentiometer, shield case and power lead which controls the motor rotation. Referring to the fig 2.

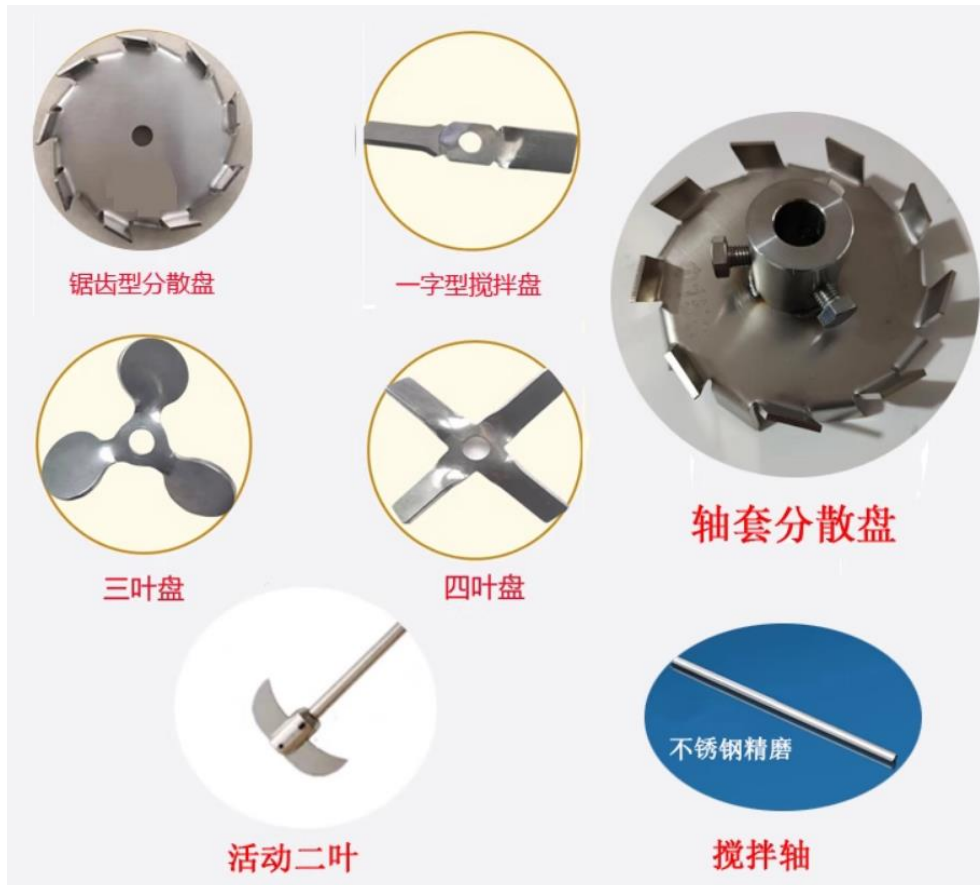
304 stainless steel stirring shaft: Diameter 20mm, Length 300mm

Machine height: 800mm

Adjustable lifting stroke: 400mm

Stirring blades: Selectable based on the following chart

**** the stirring blades can be freely selected, detachable, and replaceable.**



Item	Number	Name and spec	Amount
1	D300-01	Seat assembly	1
2	D300-02	Motor stirrer assembly	1
3	D300-03	The electric controlling assembly	1

4. OPERATION

1. Read the instrument book carefully, and assemble the instrument according to the fig 3, then check all the fixing pars whether they are fast and reliable.
2. Switch on the power source and turn on the power switch (fig 2) and the power indicator lighter lights.
3. Turn the governor knob clockwise and run the motor to check whether the motor rotates well. If well turn the governor knob anticlockwise to turn off the motor.
4. Pour the sample into the selected cup. The volume of the sample should not exceed the $\frac{2}{3}$ total height of the cup lest the sample overflows when stirring. Referring to the fig 4.
5. Adjust the motor stirrer to proper place according to the need, then screw up the manual controlling adjuster. Normally, the stirring axis is in the middle of the cup and the stirring vane is about 25mm to the bottom. Referring to the fig 4

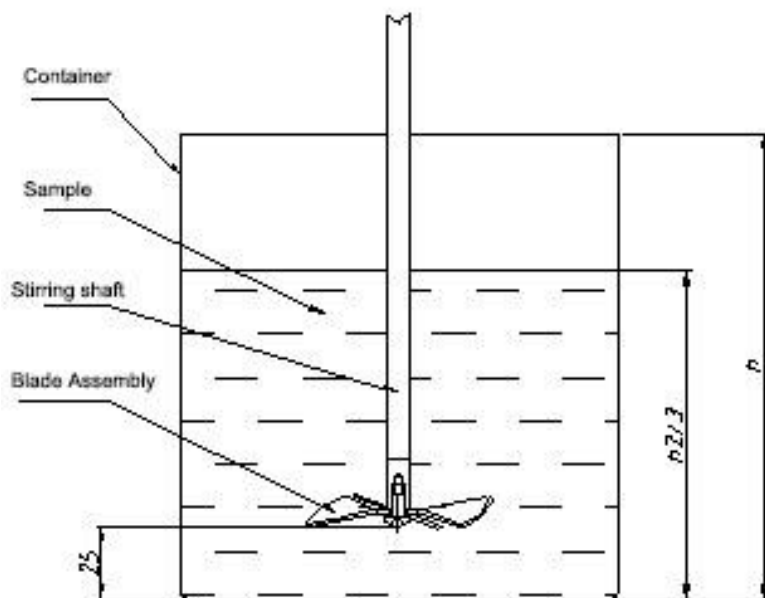


Fig 4

5. WARRANTY AND RETURNS

5.1 Warranty

Rigchina Group Company warrants its products to be free from defects in material and workmanship for a period of 12 months from the time of shipment. If repair or adjustment is necessary, and has not been the result of abuse or misuse within the twelve-month period, please return, freight prepaid, and correction of the defect will be made without charge.

Out of warranty products will be repaired for a nominal charge.

Please refer to the accompanying warranty statement enclosed with the product.

5.2 Returns

For your protection, items being returned must be carefully packed to prevent damage in shipment and insured against possible damage or loss. Rigchina will not be responsible for damage resulting from careless or insufficient packing.

Before returning items for any reason, authorization must be obtained from Rigchina Instrument Company. When applying for authorization, please include information regarding the reason the items are to be returned.

Our shipping address is:

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