

## TECHNICAL SPECIFICATIONS

MODEL	VESSEL		AGITATOR BLADES		CHOPPER BLADES		Weight (Kg)
	Volume Max (L)	Capacity Max (Kg)	Motor (Kw)	R.p.m	Motor (Kw)	R.p.m	
TST-3	10	3	1.1	0 - 145	0.75	1450-2900	400
TST-5	15	5	1.5	0 - 290	0.75	1450-2900	550
TST-10	30	10	2.2	0 - 175	1.5	1450-2900	600
TST-50	150	50	11.2	0 - 175	5.5	1450-2900	1500
TST-100	300	100	15	0 - 175	7.5	1450-2900	2000
TST-200	600	200	22	0 - 175	11.2	1450-2900	2500
TST-300	900	300	28.5	0 - 175	15	1450-2900	3200

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Local Agent / Representative



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# RAPID MIXING GRANULATOR

Model: TST-5



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Model: TST-5



## I. TECHNICAL FEATURES:

- Working capacity: 3kg/ batch.
  - Dimension: 1000(L) x 785 (W) x 1440( H) mm
  - Weight of machine: 400 kg
  - Materials: stainless steel.
- 1.1 Vessel:**
- Materials of construction: stainless steel 316L, cone-shaped, fully polished.
  - Volume of vessel: 10 liters.
  - Vessel is well-lathed in circle shape, vessel bottom is flatly lathed.
  - All internal and external surfaces of the vessel are fully polished to obtain a surface roughness of R.a.0.5. Surface is smooth to avoid any accumulation of dirt and ensure proper cleaning.
  - Vessel lid is constructed with Silicon joint, sight glass window for observation, binder hopper, lightened on lid.
  - Vessel and lid are jointed by hinge, weight balance, for easy open and close, and 2 locks for tight close.

- Vessel lid can be lifted by manual or pneumatic cylinder for easy operation.

### 1.2 Agitator blades:

- The agitator impeller in Z-shaped is driving by the geared motor through the main shaft.
- Gear motor Sew-Germany 1.1kw, 380V, 3 phase, 50 Hz.
- The agitator speed: 0-145 rpm
- The agitator speed control is performed by the frequency inverter ABB 2.2 Kw
- The Teflon packing and the ring treatments are added on the shaft for blocking the inflow of the powder around the sealing.
- The three directional impellor of agitator make the capacity maximize and the agitating time minimize as much as possible.
- The clearance between agitator and bottom: only about 0.3-0.5 mm.

### 1.3 Chopper blades:

- Chopper blades: 4 identical blades- German style.
- Chopper blades is made of SS 316L.
- Motor of chopper blades: ABB: 7.5 Kw, 380V, 3 phase, 50Hz
- Chopper speed: 0-2900 rpm.
- Frequency inverter: ABB 1.1 Kw
- Water path for cleaning.
- The filtered compressed air is distributed to the chopper air sealing system. It prevents the powder from falling into the shaft of chopper.

### 1.4 Air sealing system:

The filtered compressed air is stably distributed to the agitator air sealing system and the chopper air sealing system. It prevents the powder from falling into the shaft of agitator and chopper.

### 1.5 Discharge door:

- Made of stainless steel and Teflon, firmly fit with the vessel to assure tightness when closed.
- Open-and-close switch is near the discharge door for user's convenience.

### 1.6 Hopper for binder solution (fast assembled-disassembled):

- Made of SS 304L.
- Polished R.a.0.5
- Tightly covered with lid
- Stainless steel valve: 1 item
- Binder spray system to feature a selection of nozzle sizes.

### 1.7 Sight glass window for product observation: 01 item

### 1.8 Lightened door: attached with a light: 01 item

### 1.9 Gas vent:

- Made of by SS 304
- Filter bag: 2 items

### 1.11 Machine frame:

- Made of stainless steel, doors can be disassembled for dynamic maintenance.



- Machine base: 4 items

### 1.12 Touch-screen control system:

- Control panel: Color Touch Screen, size: 7 inches (Siemens-GERMANY or Mitsubishi-Japan)
- Program Controller: PLC (Siemens-GERMANY or Mitsubishi-Japan)
- Air pressure gauge: FESTO-GERMANY
- Speed gauge of agitator blades and chopper blades: in control panel
- CB, contactor: from Japan
- Frequency inverter of agitator blades and chopper blades: ABB for saving electricity.



### 1.13 Pneumatic System:

- 5-6kg/cm<sup>2</sup>, 100 liters/min
- Pneumatic solenoid: FESTO- GERMANY.
- On-off valve and pneumatic source: FESTO- GERMANY

### II. SAFETY FUNCTION :

- Pneumatic cylinder shut down – stop operation
- Emergency stop button.
- Cover open- Stop operation
- Electric phase lost – Stop operation
- Overload – Stop operation
- Error signal light