



# SF Engineering Works



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## Crushing and Pulverising/Micro Pulveriser with Screw Feeder

### MICRO PULVERISER WITH SCREW FEEDER

Micro Pulverizer excellent for Pulverizing, Blending and Dispersing of Ceramics, Pigments, Dyes, Spices, Chemicals etc. It is simple in construction and easy to operate. The capacity of the Pulverizer will vary according to the nature of the material and fineness of the product desired by each customer.

### CONSTRUCTION:

The Micro Pulverizer is lined with serrated liner on the top and perforated screen at the bottom and consists of hopper, chrome steel plate screw, chrome steel plated rotor, shaft with rotor fitted with hardened steel beaters, mounted on two heavy duty ball bearings, variable speed pulley, V-Belts, cotton bag, balloon and a set of 3 sieves. The entire machine is mounted on a common steel structure and is complete with 440/3/50 cycles totally enclosed electricals. Model 6 & Model 8 are provided with jacket arrangement for heating or cooling.



| SIZE   | HP       | APPROX CAP IN KGS/HR. |
|--------|----------|-----------------------|
| SFMP 3 | 1.5 +0.5 | 15-25                 |
| SFMP 6 | 5+0.5    | 75-125                |
| SFMP 8 | 10+0.75  | 400-750               |

### **Principle of pulverizing :**

MICRO PULVERIZER consists of a rotor assembly fitted with hammers (beaters) & is generally operated at high speeds.

The grinding action in all the pulverizers is due to the impact between rapidly moving hammers (beaters) & the particle itself. The energy of the moving hammers is dissipated into the particles being ground by virtue of their inertia, thus causing the particle size reduction.

### **Rotor shaft assembly :**

The rotor shaft is made of suitable quality steel & is assembled with beater assembly & sufficient number of bearings to withstand the loads caused by high - speed revolutions & the impact of beaters & the particles.

### **Beaters :**

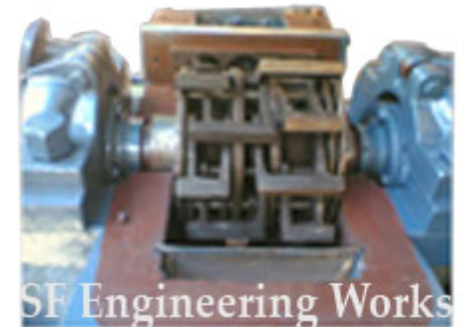
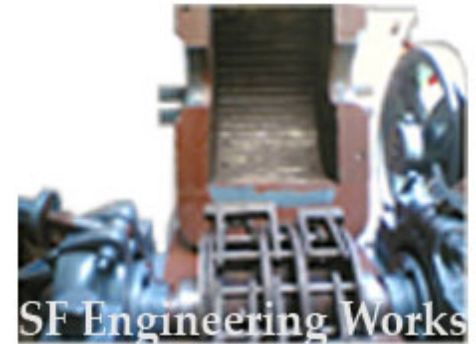
These are a set of hammers revolving at high velocity inside the grinding chamber. The beaters are surface hardened . Special types of beaters are provided for heat sensitive materials.

### **Liner:**

The multiple deflectors or the serrations provide multiple breakers for still further reduction of the particle size by virtue of impact between the rapidly moving particles & the multiple deflectors. The liner enhances the ultra – fine pulverizing because the particles break down by the force of impact against the breakers. These are specially designed to minimize heat due to the impact of beaters on the particles being pulverized.

### **Retaining Screen :**

The screens are replaceable & are available in various mesh sizes. Their function is to hold the material in the grinding chamber until the particles are ground to the required degree of fineness. The particle size is not accomplished by the screens.



**Feeding Arrangement :**

The material to be pulverized is fed to the grinding chamber in two different ways:

**Direct feeding**

The material to be ground is uniformly fed to the grinding chamber by gravity with the help of feed valve. This type of arrangement is extremely successful for materials, which cannot be conveyed into the grinding chamber due to their light – weight or due to their size. Gravity feeding can be used to pulverize materials like sugar, salt or carbon, as these types of material are extremely easy to grind. It gives the same order of fineness as the screw-feeding unit does & completely eliminates the screw feeding assembly.

**SALIENT FEATURES:****Compact, Rugged Design :**

Each part is precisely engineered from quality materials. The micro pulveriser grinds, blends & disperses in a single dustless operation. Rugged, accurate & carefully designed, it assures increased capacity & longer machine life.

**No auxiliaries :**

The finished product in a pulverizer is a result accomplished without the aid of cost consuming auxiliaries such as fans, air separators, classifiers, cyclones etc.

**Dust free operation :**

The accurately machined surfaces ensures effective sealing against dust, leakage while the machine is still in operation.

**Quick & Easy cleaning :**

Cleaning is greatly simplified due to the absence of auxiliaries. The simplicity of design also makes all parts easily accessible for fast cleaning & inspection. Easily cleaned & inspected, it saves labour & reduces the maintenance costs.

**Water Cooling System :**

A water-cooling system is provided for cool grinding.

**Air Balloon :**

Air balloon is provided which eliminates the back pressure and cools warm air circulating in the grinding chamber.

**Note :** All Details , description, specification, size, capacity, mesh, etc. are approximate & For

General Reference & will depend upon the nature of your material only.

| MODEL          | SFEMP 3 | SFEMP 6 | SFEMP 8 |
|----------------|---------|---------|---------|
| CHAMBER SIZE   | 6"      | 8"      | 11.5"   |
| HORSE POWER    | 1.5     | 5       | 10      |
| FEED MOTOR     | 0.5     | 0.5     | 0.75    |
| CAP. PER/HR.   | 15/25   | 75/125  | 400/750 |
| NO. OF BEATERS | 6       | 6       | 24      |
| RPM            | 6000    | 6000    | 7000    |