

## Tablet Coating and Polishing Pan



A tablet coating pan is a device used in the pharmaceutical industry to apply a thin, uniform coating layer onto tablets. This coating can serve various purposes, such as improving appearance, taste masking, protecting the active ingredient, or controlling drug release. Here's a brief overview:

### Key Features:

#### 1. Design:

- Consists of a rotating drum or pan, typically made of stainless steel, that holds the tablets.
- The pan rotates to ensure even distribution of the coating material.

#### 2. Coating Process:

- Coating solutions (e.g., polymers, sugars, or film coatings) are sprayed onto the tablets as the pan rotates.
- Warm air is blown into the pan to dry the coating quickly and evenly.

#### 3. Types:

- Standard Coating Pan: Traditional design with a rotating drum and manual or semi-automatic operation.
- Perforated Coating Pan: Features a perforated drum for better airflow and efficiency, commonly used in modern automated systems.

#### 4. Applications:

- Applying sugar coatings for taste masking and aesthetic improvement.
- Film coating for controlled release, protection from moisture, or light sensitivity.
- Enteric coating to prevent dissolution in the stomach.

#### Uses:

- Pharmaceutical manufacturing for coating tablets and pellets.
- Nutraceutical and food industries for coating supplements or candies.