



Polymer Dosing System/ Poly Preparation Unit



**ABOUT US**

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## Polymer Dosing System/ Poly Preparation Unit

Rudraksha Engineering is an accomplished manufacturer of various dosing systems- Manual Polymer Dosing System, Semi-Automatic Polymer Dosing System, Automatic Polymer Dosing System, established in the year 2019.

We, experts in water and wastewater treatment, have a team of experts dedicated to bring about change in how various industries look at water processing and its utilization. With more than 16 years of deep thinking in this industry, we are recognized as one of the pioneers offering various solutions in this field. To Facilitate our clients with the best, we have in-house facilities and a state-of-the-art manufacturing unit that helps us to deliver exceptional quality products that are recognized all around the globe.

### OUR VISION

Emerging as a most potent and reliable company of integrated water & wastewater solutions. Our vision of “creating a vivid, optimistic future, together” is a message to our employees, clients & all industries that we are more than a premise, collection of projects & contracts.

### OUR MISSION

Along with aiming for high revenues and portfolio expansion, we are continuously aiming at providing cost effective solutions to our customers. We intend to this by putting in practice ecofriendly methods whilst using advanced techniques that maximize overall system effectiveness.

### CORE COMPETENCIES

**Driven by Innovation:** As a brand we believe in the power of knowledge. That is why we invest resources to make sure we develop groundbreaking solutions for our clients.

**Radical Outlook:** Our unique approach and design methodologies help us produce outstanding results whilst maintaining cost effectiveness and superior built.

**Brilliant Team:** We believe in the power of teamwork.

**Exceptional Products & Services:** We provides remarkable machines & equipment and also round-the-clock service and assistance for a hassle-free engagement and experience.

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Our aim is to make world-class products at very reasonable prices. This has driven us to follow the latest technical advancements in the industry and enhance our product range by incorporating the same into our offerings.

The company was founded and has grown under the great leadership of our owner Mr. Girish Chaudhari and Mr. Gunjan Chaudhari, who have along with our top-management team has dedicated himself to the growth and wellbeing of the organization. With comprehensive domain expertise and experience, he provides us with valuable direction and guidance that has helped us in being a leader in this industry. We believe in achieving overall excellence in all our functions.

We offer a comprehensive range of dosing systems. These have been fabricated by us under stringent quality-controlled environment to assure highest levels of quality, performance and durability. All the products offered by us are available in a variety of sizes and other specifications to suit the varied needs and requirements of the clients.

The product catalogue you have in your hands is designed to share with you the range of products manufactured and supplied from our Rudraksha Engineering works. Its purpose is to allow you to check whether there are products of interest and opportunity for your market. We hope that in making this information available, you are better able to shape your portfolio and exploit available sales opportunities.

Please circulate this product catalogue as appropriate within your marketing organization. In addition, please be aware this is not a definitive list of all our products, therefore, please contact us so that we can discuss what best fits with your requirements.



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**Polymer Dosing System/ Poly Preparation Unit**

**AUTOMATIC POLYMER DOSING SYSTEM**



**Automatic Polymer Preparation Unit**

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**MANUAL POLYMER DOSING SYSTEM**



**Manual Polymer Preparation Unit**

Function of Polymer Preparation Unit is to make flocculants of powder of liquid dissolve or dilute into flocculation solutions.

**Manual Dosing Device:**

It is a ready to use form can be used for single dosing or two combinations to realize continuous dosing. Specification of the dosing equipment varies according to the dosage. Dosing device and Metering Pump can be combined into a whole through the stand.

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## Polymer Dosing System/ Poly Preparation Unit

### Advantages:

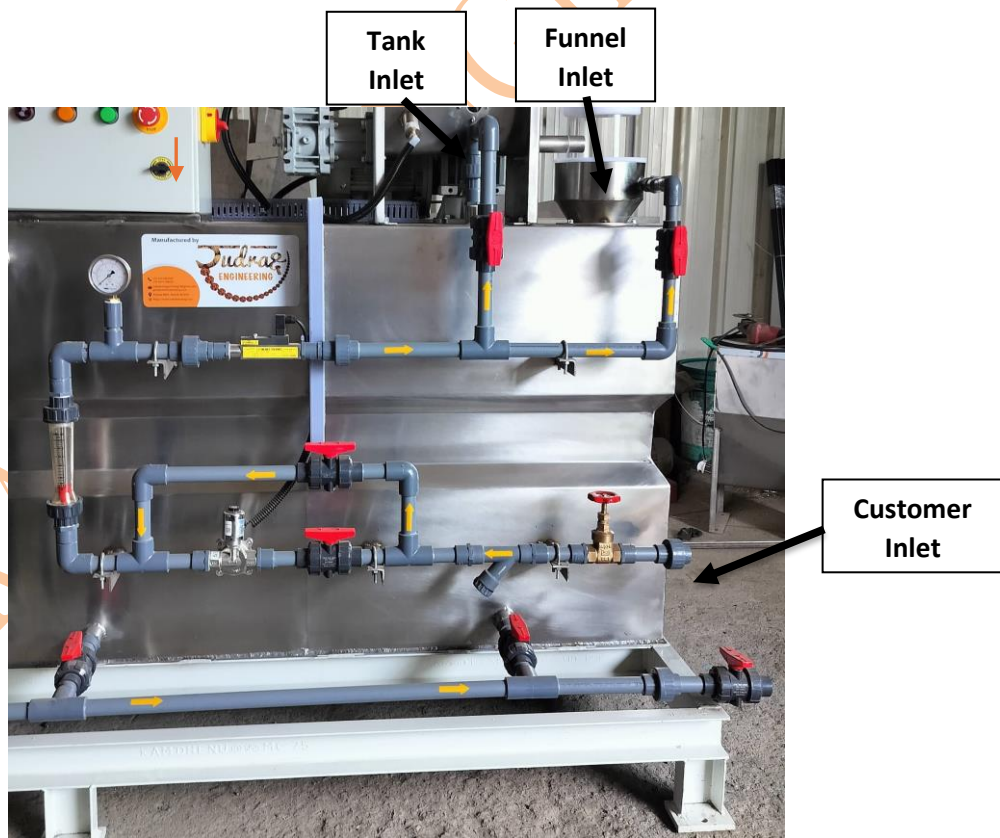
1. Artificial feeding, suitable for polymer feeding with small quantity and there is operator at site.
2. Easy artificial feeding, convenient installation.
3. The barrel body, polymer feed pump, electric control panel, and pump are all installed on the frame body, compact structure, easy installation and transportation.
4. Tank material optional: SS304, SS316 /316L, PE, FRP, etc.

### Automatic Polymer Preparation Unit:

Full-automatic operation including automatic dosing, dissolving & feeding. the high precision transporting of dry polymer dosing device and the well-designed heater device can prevent the polymer from cracking, the dosage of dry powder and water can be adjustable, so the solution with any concentration can be prepared.

Optional: Vacuum feeding machine optional: online dilution system tank material: SS304 or SS316, pe, pp, FRP etc.

### Working Principle:



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## Polymer Dosing System/ Poly Preparation Unit

The preparation of polymer solution is completed and processed by each solution box step by step. Detailed working principle is as follows:

1. Feed enough dry polymer into the hopper, the dry polymer will be transported into the pre-soaking device by polymer dosing device, open the solenoid valve of water inlet pipe, the dry polymer becomes wet in the pre-soaking device, and then the wet polymer drops into the mixing tank by gravity.
2. The pre-mixed solution flows into the homogeneous slaking tank through the overflow weir, then the solution will be stirred and compound again in the homogeneous slaking tank. The solution will reach the state of homogeneous, curing and active after low speed soft effective stirring for a certain time. Then the solution flows into the solution storage tank through the overflow weir, here, the polymer solution has been prepared.
3. When the solution storage tank is full, the liquid level switch gives signals and the polymer dosing device and solenoid valve are shut down automatically. At this point the dissolved solution is ready, and the indicator for “Ready” is on.
4. The polymer feeding pump starts, and the solenoid valve for dilution water opens, the solution with constant concentration will be diluted to the required concentration according to the actual usage, and then the solution can be poured into the required equipment.
5. The liquid level in the solution storage tank reaches the set low level, the liquid level switch gives signals, this device can repeat the above step 1, 2 and 3 automatically, and ensure that the solution storage tank has plenty of polymer solution.



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**Polymer Dosing Device:**



**Polymer Feeding Hopper**



**Agitator**

Polymer dosing device is composed of hopper, screw conveyor, electric heater and etc.

1. The effective volume of the hopper can meet the dosage for a long time. The hopper is equipped with sight glasses for observing material level. The material level meter can monitor the material level automatically and will alarm at the same time.
2. The screw conveyor is the screw driven by the high precision reducer. The reducer is light, and it operates stably with high efficiency. High precision of screw can completely satisfy the dosage of the user.

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3. The electric heater is installed in the discharge pipe of the conveyor, and it can prevent the dry polymer from dampening and caking in the discharge pipe and avoid the pipe clogging.
4. Filter is used to intercept the impurities in the water to protect the solenoid valve.
5. Pressure gauge is installed at the back of the filter to show the pressure. If the pressure is too low, it means the filter is blocked and impurities in the filter need to be removed.
6. Solenoid valve receives the electrical signals and then the water inlet. It can realize water inlet automatically.
7. Rotor flow meter is used to show water inlet flow.
8. Stop valve is used to adjust water inlet flow, and it is convenient in adjustment and stable.

#### **Main Features:**

1. Three tanks in one equipment (precast mixing tank, homogeneous slaking tank and solution storage tank); preparation and dosing continuously; easy operation and maintenance; the lowest cost of manpower.
2. Pour the polymer and water into the tank at the same time; the flow of input water, dilute water and polymer feeding pump are adjustable; any concentration of the solution (within a certain range) can be prepared and dosing according to the actual requirements.
3. The high-precision conveying of the polymer dosing device, the delicate design of pre-soaking device and the constant temperature heating method can reduce agglomeration phenomenon caused of improper artificial operation or prevent the line from clogging and can ensure the stable concentration of the solution.
4. The unique structure and proper rotating speed of the mixer not only can ensure the homogenization solution, but also can not destroy the polymer molecular chain.

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