Features of the Precision Filer Device

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The features of our precision filer device are briefly explained as follows:

1. **High-precision filtration**
   With filtration accuracy of 5 micron, the level of contamination is 3 mg/100 ml or lower.

2. **Stable filtration and high washing efficiency with large filter element**
   With large filtration area of 5 sq.m for 500H type or 7 sq.m for 700H type, and low filtration velocity, even sludge smaller than the filtration accuracy is captured. Moderate filtration through large filtration area prevents sludge bonding on filter elements, allows automatic washing with high efficiency, and high reproductivity after filter washing.

3. **No sludge sediments in tanks**
   High-precision filtration prevents sludge deposition in a tank. With gather-up conveyor, sludge sedimentation in the conveyor tank will not affect the tank’s effective capacity.

4. **Only small tank capacity required**
   Unlike a large tank, spontaneous sedimentation is ignorable. High-precision filtration requires only a compact tank with no excess capacity.

5. **Clean fluid recovered with no clogging in pipeline**
   The filtrate through our filtration device takes on high cleanliness and good quality; used coolant contains no sludge except of cutting and grinding.

6. **Small gauge pipes in central piping**
   Highly clean coolant requires only a small size pipes with low installation cost. It also facilitates flexibility in plant layout.

7. **Centralization by space-saving and low-cost small recovery tank on each machine**
   Compact recovery pumps and tanks are space-saving and inexpensive.

8. **Highly unique centralized coolant system with recovery pump**
   The coolant containing chips and sludge is transferred from each machine to a storage tank using a recovery pump. Recovery pump is customized with consideration to the shape and the volume of sludge. The recovery pump needs power as small as 0.4KW, where an automatic pump requires 0.75KW, reasonably priced, and is energy saving.

9. **Steady feeding with automatic quantitative mixing unit**
   Quantitative mixing system feeds stably diluted fluid, and prevents unwanted human error.

10. **High-efficiency and space-saving inverter controlled immersion cooling**
    The inverter controlled cooling system does not waste energy. High-precision filtration leaves no sludge sediments at heat exchanger; exchange efficiency is maintained high, and system failure by sludge sediments is prevented.

11. **Experienced installation of centralized pump-up coolant system**
    Since the establishment of our company, we have been proposing and delivered centralized coolant system to many customers. Our unique system is space- and energy-saving unlike other conventional centralized coolant systems. It also adopts machine expansions with simple tanks and automatic pumps. Every one of equipment optimizes the efficiency at least power consumption and heat generation requiring only little cooling. We are pleased to introduce our system with great merits to you.

Representive Director S. Ueda