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## **Air Purge of the Rotary Union**

### **(A utility model application has been already filed.)**

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#### **■ Setting up an air purge port (standard)**

Supply mist air to the housing.

The main system is used to prevent coolant liquid from flowing into the rear bearings.

(Results)

Rotation anomaly and life deterioration are prevented.

The sub system is used to lubricate bearings.

(Results)

Cooling effect is enhanced during high-speed rotation.

#### **■ Air purge conditions**

The pressure of supply air shall be the same as a coolant pressure, or ensure that supply air pressure is at least 0.3 MPa. A flow rate in a speed controller shall be specified as 1.5 to 2.0 liter per minute prior to delivery to the customer. (It is possible to fabricate a high-pressure coolant of 1.0 MPa. However, it is necessary to separately determine the matter through mutual consultation.)

As the amount of drops of lubricants to a lubricator, a rate of about 2 to 3 drops per minute is appropriate.