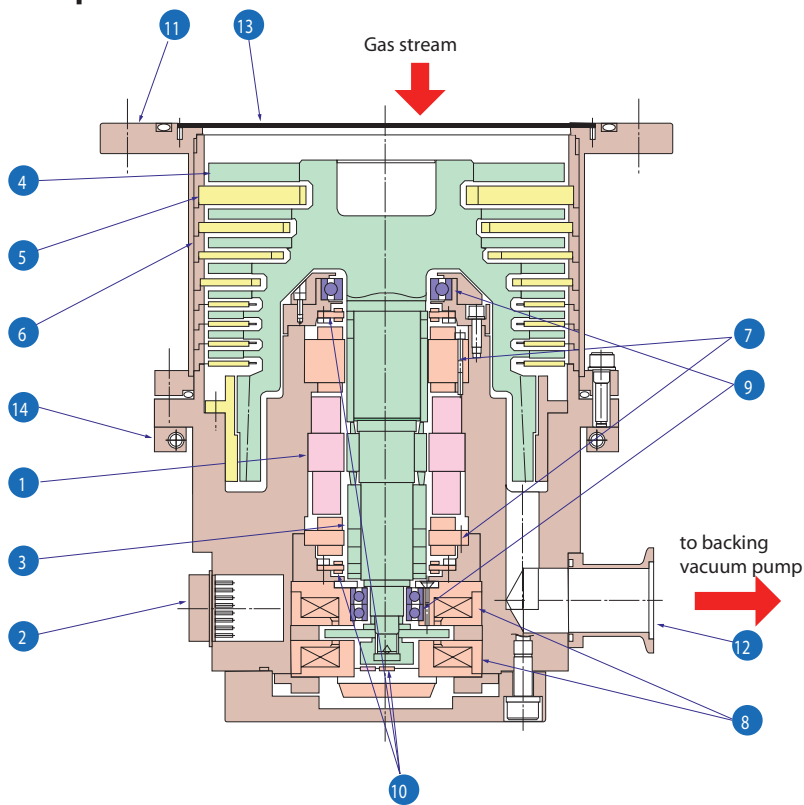


MAGNETICALLY LEVITATED TURBO-MOLECULAR PUMP

Outstanding High Reliability

Pump construction



- | | | |
|------------------------|---------------------------|-----------------------|
| 1 High-frequency motor | 6 Spacers | 11 Inlet flange |
| 2 Connector | 7 Radial magnetic bearing | 12 Outlet flange |
| 3 Shaft | 8 Axial magnetic bearing | 13 Protective net |
| 4 Rotor blades | 9 Touchdown bearings | 14 Cooling water pipe |
| 5 Stator blades | 10 Gap sensors | |

Principle Diagram of 5-Axis Magnetic Bearing

■ Adoption of the 5-axis magnetic bearing system dispenses with any lubrication grease or oil.

1. $X_1 - X_1$
2. $Y_1 - Y_1$
3. $X_2 - X_2$
4. $Y_2 - Y_2$
5. $Z - Z$

