### Type of Mitsubishi integrally geared compressor

<table>
<thead>
<tr>
<th>Application range</th>
<th>Design features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gear casing</td>
<td>- Gear casing is designed and constructed for easy maintaining, the gear and bearing without removing the entire casing by disassembling the upper side gear casing.</td>
</tr>
<tr>
<td>Piston shaft</td>
<td>- Each high speed piston shaft has the cavitation plate on the end. The cylinder opened, is back for the vibration reduction. A continuous design is easy maintenance.</td>
</tr>
</tbody>
</table>
| Shaft seal        | - Standard type is a combination seal 
                    - sealer on the shaft, a common open space is located for preventing the respraying of the oil mixing oil and the product oil. |
| Impeller          | - MRO Full 3D impeller is designed with high efficiency and durability for the design needs of wide range of applications, small to large |}

### Gear arrangement

- **Model code**: Mitsubishi integrally geared compressor models are generally indicated by the three digits after the "M".
- **Gear arrangement**: 
  - 1 stage compressor
  - 2 stage compressor
  - 3 stage compressor

### Optional seal system

- **Based on the actual design and operating conditions**
  - Gas pressure type
  - Gas bled seal
  - Mechanical seal

### Journal bearing for piston shaft

- **Silicon carbide bearing**
  - Applied on our speed but gear shaft

### Thrust bearing

- **Thrust collar**
  - Applied for the thrust bearing of each piston shaft.

### Auxiliary system design

- **MRO design**
  - Designed for the operation in an open environment
  - Simple system

### Ergonomics design

- **Ergonomics design**
  - Sealing at the starting position of the discharge valve
  - Simple system
  - Sealing of the starting valve of the discharge valve

### Double Flow Integrally Geared Compressor

- **Double Flow Integrally Geared Compressor (DFIC)**
  - Designed with single gear arrangement and dual-diameter shaft
  - Compactness (by mcy/pcs for 1-stage model/2-stage model)

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**Inlet Guide Valve (IGV)**

- **Variable guide version**
  - Size reduced version: 1 stage and 2 stage

**Ergonomics design**

- **Ergonomics design**
  - Sealing at the starting position of the discharge valve
  - Sealing at the starting valve of the discharge valve

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**Inlet Guide Valve (IGV)**

- **Variable guide version**
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**Ergonomics design**

- **Ergonomics design**
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  - Sealing at the starting valve of the discharge valve