

# Suitable and Non-Recommendable Applications for Mitsubishi Polymax Transmission

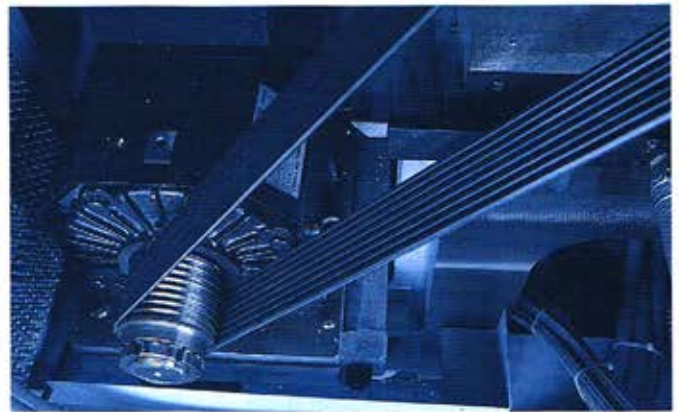
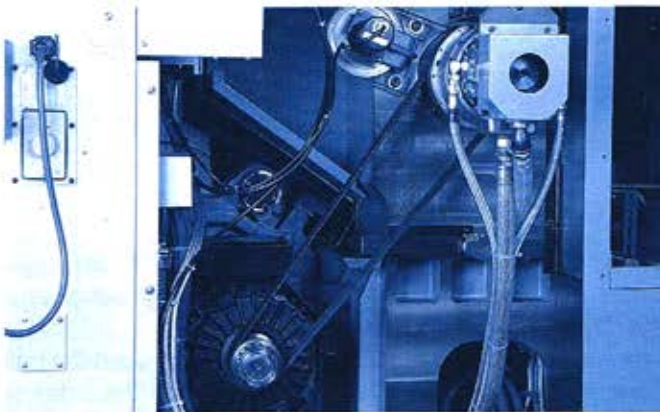
## Suitable application

The Mitsubishi Polymax achieves maximum performance when used in the following equipment:

- Machines that operate continuously at high speed with small torque variation.
- Equipment that requires resistance to ozone, sunlight, and other weather conditions.
- Equipment where the smallest-possible pulley diameter is desired.
- Equipment that operates at or near the rated speed without belt vibration.
- Equipment utilizing belts that are difficult to maintain and inspect.

### Examples

- Air conditioners
- Furnace and ventilation fans
- Machine tools
- Textile machines
- Office equipment
- Wood working tools
- Other equipment that operates continuously at high-speed



## Non-Recommendable Application

The Mitsubishi Polymax offers many excellent features, but certain characteristics make it inappropriate in some cases. It is made of polyurethane elastomer which is not highly heat resistant; and, unlike conventional belts, it relies on the high coefficient of friction of polyurethane elastomer, reducing the wedge effect. Equipment for which Mitsubishi Polymax is not recommended are listed right.

- Machines with severe surging loads (or with radical peak-torque fluctuations)  
Heat generated by belt slippage could melt the belt.
- Machines exposed to water or oil.  
This markedly reduces the coefficient of friction of the belt, leading to slippage.
- Equipment that operates in environments containing acids, alkalis or water vapor  
These cause hydrolysis of the polyurethane elastomer.