

# TECHNICAL INSIGHT

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## Retainer Plate Equipped with Ball Bearing

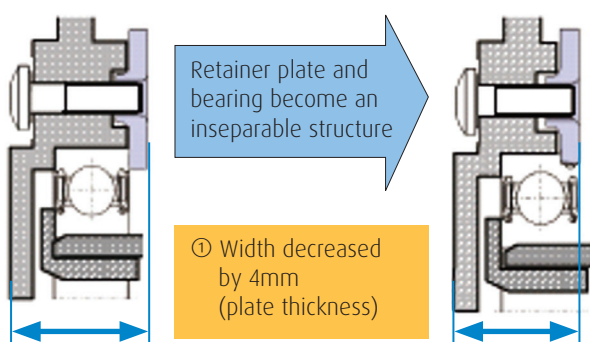
### Development focus or purpose of development

Integrated Retainer Plate and Bearing  $\Rightarrow$  Reduction of the transmission overall length

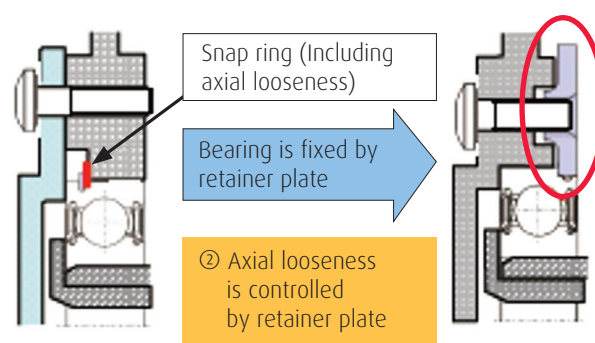
### Features or Background

#### Demands

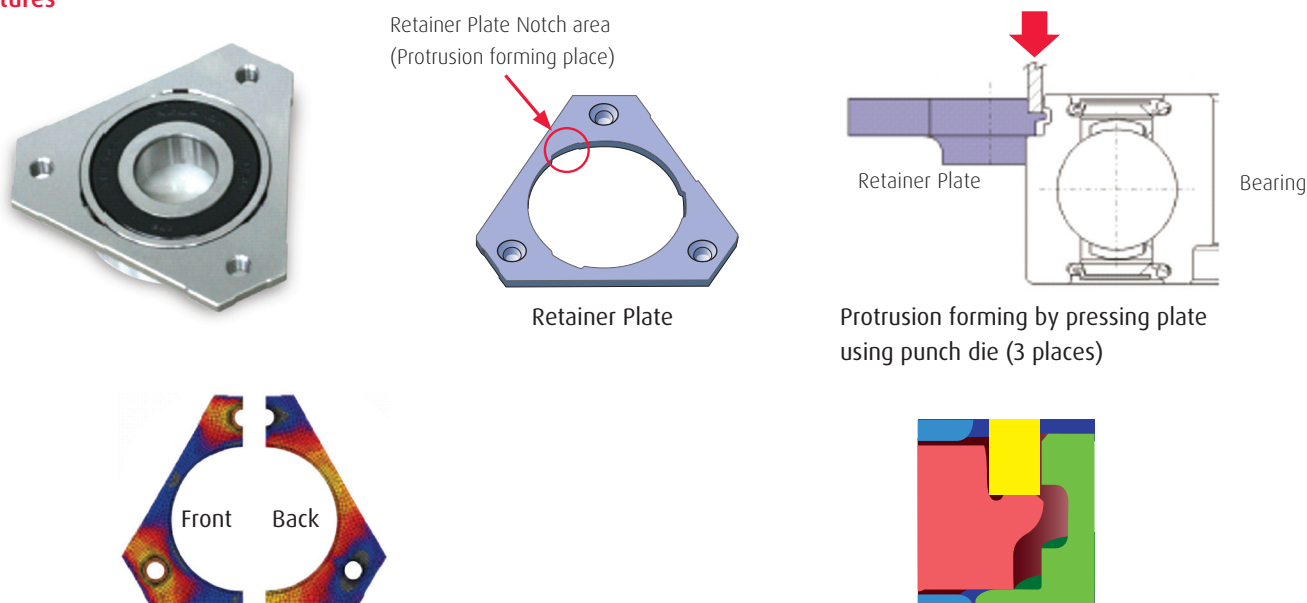
#### ① Reduction of transmission overall length



#### ② Reduction of transmission vibration



#### Features



Optimisation of plate and outer ring shape by elasto-plastic analysis and strength test of bearing with retainer plate

Optimisation of outer ring step and protrusion forming condition by forming analysis and forming test