

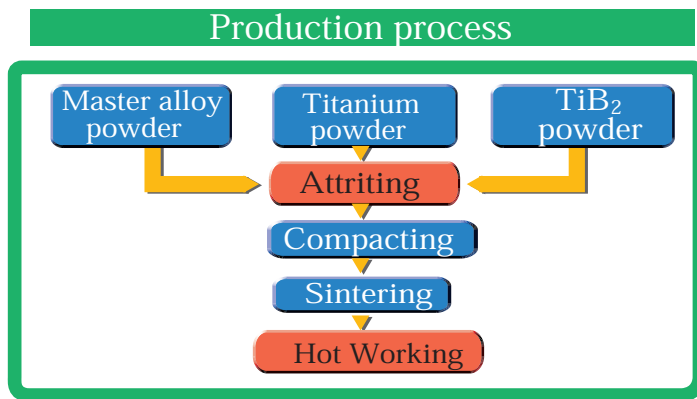
# Cost-Effective Titanium Matrix Composite

## Aim

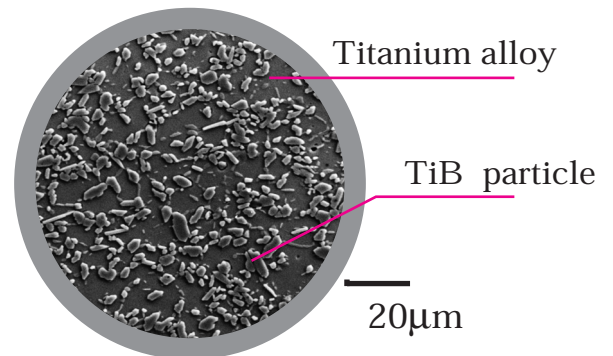
To develop a new high performance, cost-effective titanium matrix composite.

## Basic concepts and processes

Using original powder metallurgy method, uniformly dispersed TiB particles, which have superior properties and are also the most thermodynamically stable in titanium alloys, into large amounts to develop a high performance, cost-effective titanium material that is unparalleled by conventional materials.

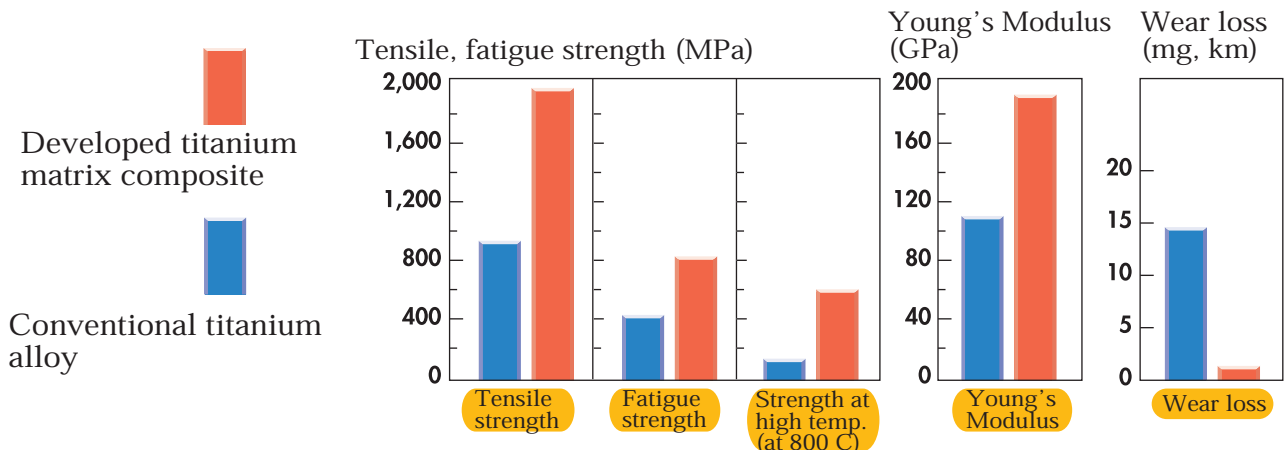


## Microstructure of developed titanium matrix composite



## Characteristics

A new material with strength, heat resistance, rigidity, and wear resistance far superior to conventional titanium alloys



Lower costs over remarkably wider range than conventional titanium alloys.

## Application

Automobile engines, drive train components, general machine components