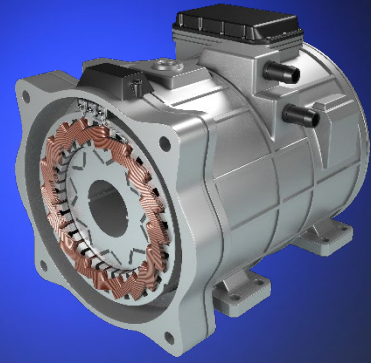


Amorphous alloy ribbon for motor core

Laminated bonded amorphous alloy ribbon will contribute to the mass production of radial gap amorphous motors.



Outline

- We developed laminated bonded amorphous alloy ribbon suitable for punching process.
- Improved punching productivity and easy die fabrication
- Amorphous ribbon enables motors with high RPM and low loss.

Applications

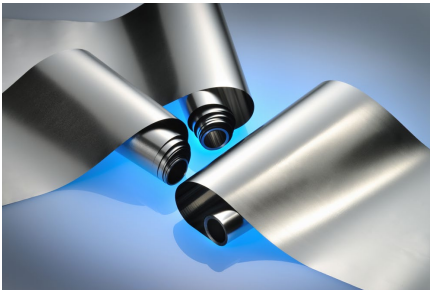
Stator core for high rotation speed Motor



Feature

Amorphous alloy ribbon and sample examples of punched pieces

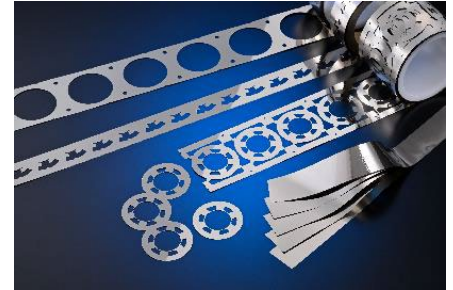
Amorphous alloy ribbon



Laminated bonded amorphous alloy ribbon Reference exhibit

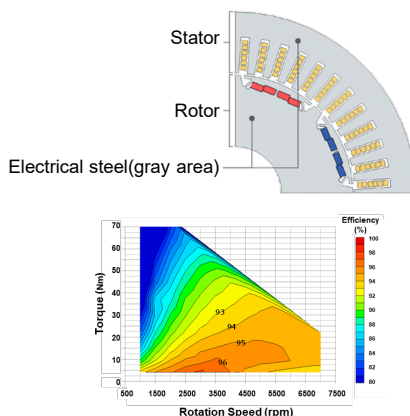


Example of punched pieces for radial gap stator core

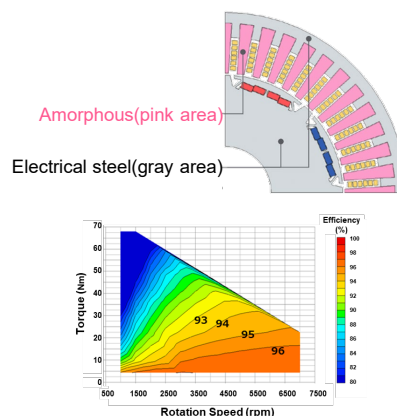


Comparison of efficiency between electrical steel stator and amorphous stator

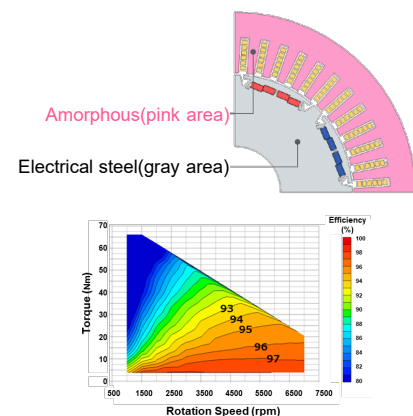
Electrical steel stator



Amorphous teeth stator



All amorphous stator



参考文献: 榎本 裕治、木村 守、丸川 泰弘、佐野 博久「固定子鉄心全体をアモルファス金属とした分布巻 IPM モータ」2021年電気学会産業応用部門大会講演論文集, 3-4, ppⅢ-133-138(2021)