

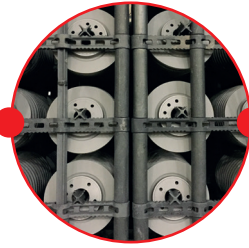
## A component journey

# Brake through – Brake discs

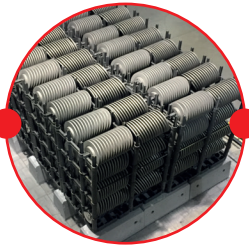
Vehicles are exposed to environmental elements which cause corrosion, such as snow, ice, road salt, and acid rain. The FNC process makes it easier to maintain clean brakes, important for safety critical components. Bodycote's FNC treatment strengthens the surface providing optimal corrosion protection and wear.



The brake rotors begin life as iron sand castings.



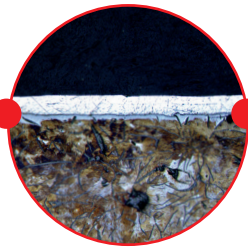
**B** The parts are stress relieved to eliminate stress introduced in the casting process.



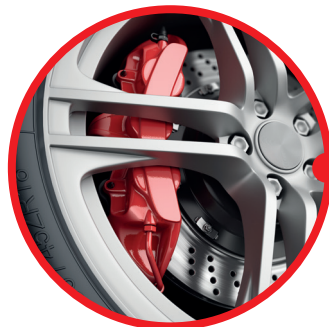
**B** Brake rotors are treated in Bodycote's proprietary Ferritic Nitrocarburising (FNC) furnaces. In a nitrogen enriched atmosphere, the rotor surfaces are hardened and strengthened.



The braking surfaces are finish machined.



**B** The parts are inspected and tested for core hardness. After this, the parts are painted and assembled into the brake systems.



End applications,  
**automobile or light truck.**

**B** Denotes the parts of the component journey undertaken by Bodycote