

SELF-LOCKING NUTS VARGAL® - RAILWAYS

1. INTRODUCTION

Vargal® nuts are lock-nuts with an external spring with a radial deformation, suited for security applications.

The nut prevailing torque is guaranteed by the action of the spring, pressing on the collar with radial cuts.



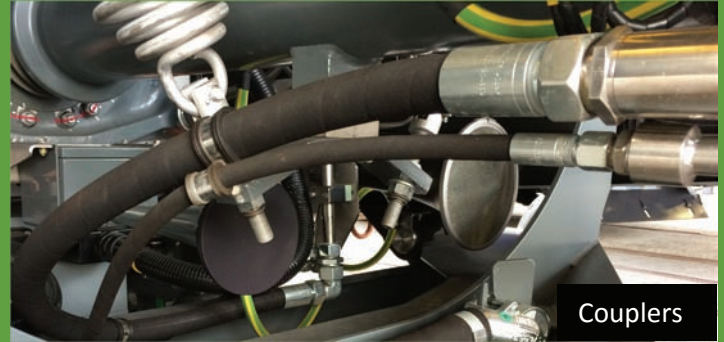
2. USES

Vargal® self-locking nuts have been successfully used through the years in all railway critical applications requiring:

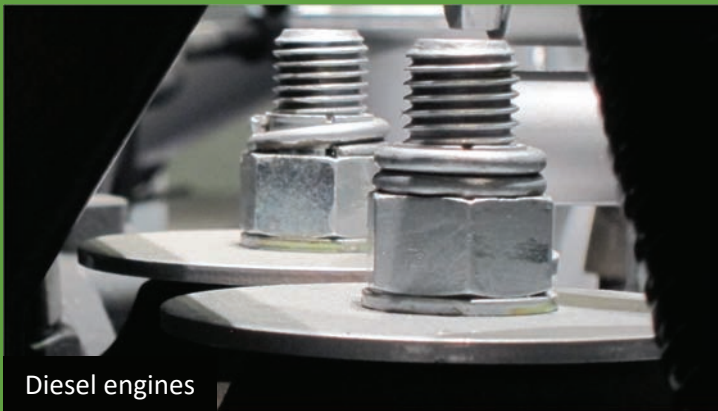
- excellent resistance to vibrations



Bogies



Couplers



Diesel engines



Switch points

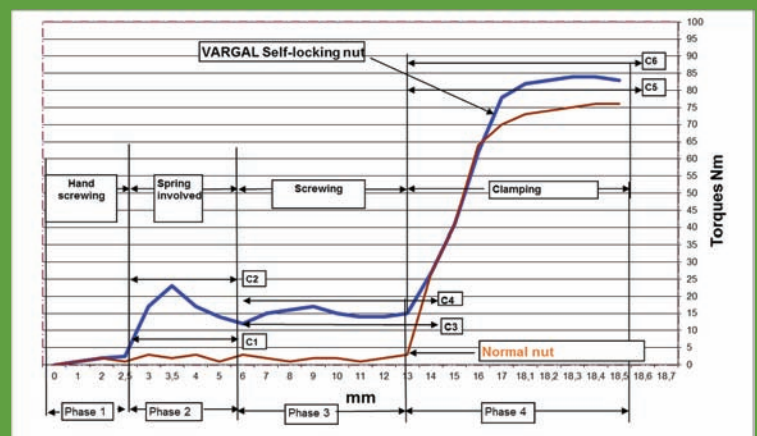
- limited friction coefficient dispersion generated by the prevailing device



Brake discs



Brake discs



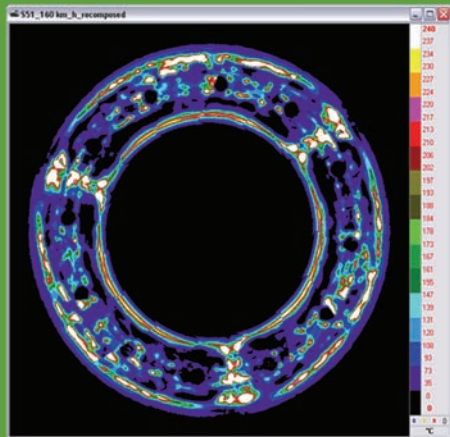
➤ high temperature applications



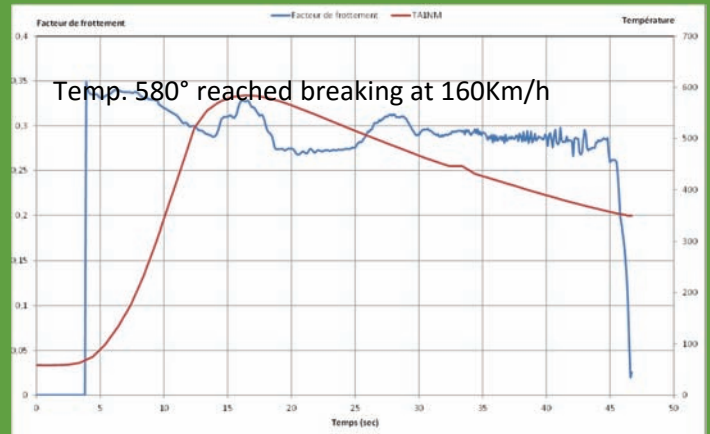
Axle brake discs



Wheel brake discs



Disc thermography – stop at 160 Km/h



Graphic of the disc temperature

➤ constant removal prevailing torque, even after several disassemblies, before the starting of the application



Bogies



Current collectors

➤ security applications with reduced or no tightening torque



Brake calipers



Magnetic brakes