

# Decoupling nut

Fixed and decoupled – challenging connecting component



Today's engines place higher-than-ever requirements on fasteners. Nedschroef's decoupling nut, consisting of a combined, specially designed nut and washer, meets these requirements.

The decoupling nut can be made of extremely heat-resistant material. By using this decoupling nut, thermal expansion, transverse displacement and mechanical vibration are not transferred to the nut. Furthermore, the usual loss of preload can be reduced and transverse displacement of up to some 2mm can be realized. Other dimensions are also possible, in accordance with customer requirements. The decoupling function can replace a full solution with decoupling washers, which allows reduction of assembly time, cost and weight for the customer.

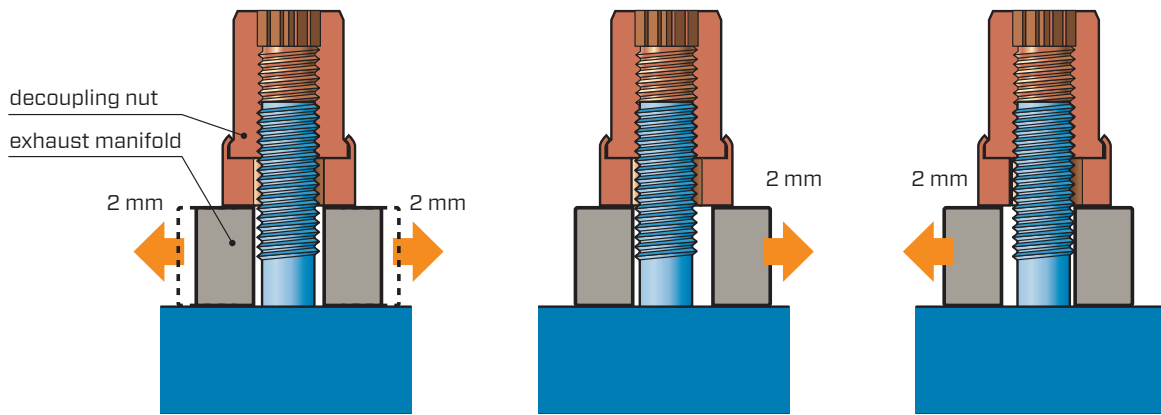
## FIELD OF APPLICATION

The decoupling nut has been designed for powertrain applications. It fixes the exhaust manifold to the exhaust cylinder head and the turbo charger to the engine. Additionally, it can be applied in other thermal and dynamic load areas. This solution is ideal for engines including exhaust systems for automotive, motorcycles and agricultural applications.

Besides a broad selection of standard solutions, Nedschroef offers the integrated production, design and systems engineering capacity required to create bespoke solutions for even the most specific, demanding requirements at an attractive price point. Our engineers are ready to work together with you to create the ideal solution for your own application...

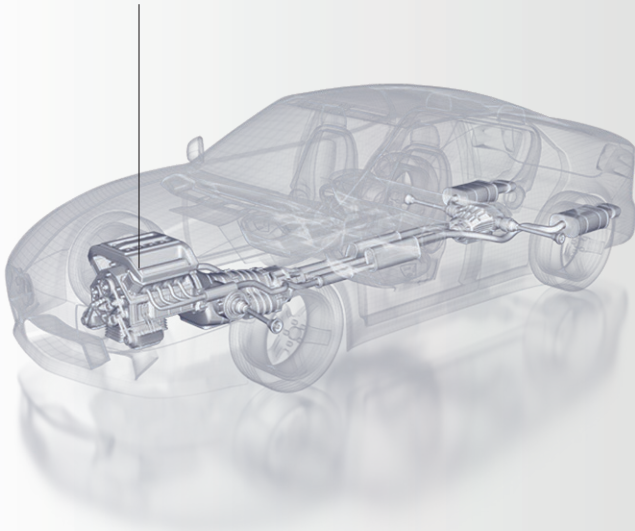
For more information: [www.nedschroef.com](http://www.nedschroef.com)

## THE SELF-PIERCING AND THREADFORMING SCREW



*Transversal movement between the decoupling nut and the exhaust manifold.*

Cylinder head/exhaust-manifold-assembly



Powertrain

### DIMENSIONS

With our standard M8 nut, movement of +/- 2mm is possible. Other sizes can be made, based on customer needs

### PROPERTIES

- Available in different geometries
- Available for standard metric threads
- External and internal drive possible
- Heat resistant material

### ADVANTAGES

- Heat resistance
- Decoupling function
- Decrease total weight
- Increase reliability  
(keeps preload at a good level)
- Decrease total cost

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*For more than 130 years, Koninklijke Nedsschroef Holding B.V. has developed, manufactured and supplied fasteners and special parts for the automotive industry. In addition, we design and produce superior forming machines and tools for the metal forming industry. Nedsschroef delivers world-class services and innovative, cost-effective solutions. Our expanding global operations offer everything from product design and development to delivery, installation and service, supported by a vast global partner network. 2,400 people at 22 facilities in 11 countries worldwide are committed to our Full Service Provision concept.*