

# Nedtite

Clean, quick counter-thread forming for a perfect fit



Nedtite screws are a cost-effective solution for direct mounting in light metals and different types of steel. The key innovation here is the trilobular geometry of the shaft. This allows the screws to form their own counter thread in a drilled, cast or deep drawn hole which remains entirely free of metal chippings or dirt. No preparation is required. A nut thread, in which the screw is assembled, is no longer necessary.

The thread-forming capability provides a continuous rolling action. This assists grain-flow as the fastener is inserted, ensuring the thread geometry is perfectly matched to that of the mating hole. As a result, the joint assembly is significantly stronger and more durable. The screws have a high torsional strength, which is important as the fastener is also used as a tapping tool. Cross threading is impossible, so bad connections are avoided. Another key benefit: Nedtite screws aren't patented, so users do not need to pay royalties.

## Field of application

Nedtite thread-forming screws are widely used by car and commercial vehicle manufacturers, especially in body framework, chassis, interior and engine applications. Customers may test their Nedtite applications in our laboratory - where Nedtite has been developed. Nedschroef can also recommend parameter settings for the screw driving machine. Our lab has vast experience in this area and can provide optimised thread forming torque and tightening torque specifications, to avoid torque overload and poor connections.

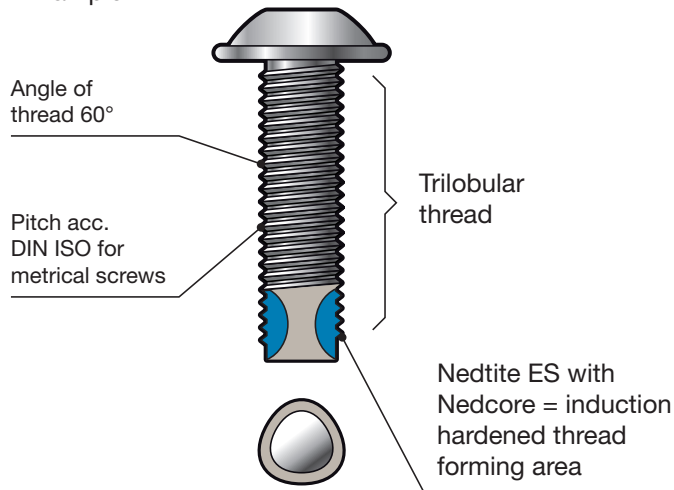
Nedschroef offers the integrated production, design and systems engineering capacity required to create bespoke solutions for even the most specific and demanding requirements at an attractive price point. Our engineers are ready to work together with you to create the ideal solution for your own application.

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

 **NEDSCHROEF**

one step ahead...

Example:



*The unique Nedtite trilobular shaft geometry allows screws to form their own perfectly-fitting counter thread in a drilled, casted or deep drawn hole, without additional preparation. The hole remains entirely free of metal chips or dirt.*

## Dimensions

### Nedtite & Duo Nedtite

- Case hardened acc. to DIN 7500
- Heat treatment to 8.8 and 10.9 acc. to DIN 267-30 / DIN EN ISO 898-1
- Thread diameter from M2,5 to M16
- Additional Nedcore heat treatment from M4 up to M16

### Nedtite ES

- Case hardened acc. to DIN 7500
- Heat treatment to 8.8 and 10.9 acc. to DIN 267-30 / DIN EN ISO 898-1
- Thread diameter from M2,5 to M16
- Additional Nedcore heat treatment from M4 up to M16

## Applications

- Steering gear
- Door fixing
- Seat relock
- Fixing oil pan
- Fixing black box

## Properties

- Nedcore hardening: steel sheet hardness max. 800MPa / 250HV
- High-strength Nedtite induction & hardened thread-forming zone optional
- Can accommodate customer-specific corrosion requirements
- Can be used with light metal and a wide variety of steel materials
- Nedtite ES has very low thread-forming torques (energy saving)
- Formed counter-thread also suitable for standard metric screws
- High clamp loads
- Nedtite has its own dry lubricant for a low thread forming torque

## Advantages

- Customer requires less operations, cost reduction
- No cross-threading and no impurities, no need for protection elements
- Can be screwed into cored domes
- Proven concept as used by many OEMs and suppliers
- Can be used with steel, aluminium and magnesium
- No need for tapping counter thread
- Vibration proof, no need for glue or other safety elements
- Better mating as each screw creates its own tight-fitting thread
- Developed in-house by Nedschroef - no extra royalty payments

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*For over a century, Koninklijke Nedschroef 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.*

*Nedschroef 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. 1,600 people at 24 facilities, including six centres of competence, in 14 countries worldwide are committed to our Full Service Provision concept.*