



The SNEP<sup>®</sup>  
Product Range



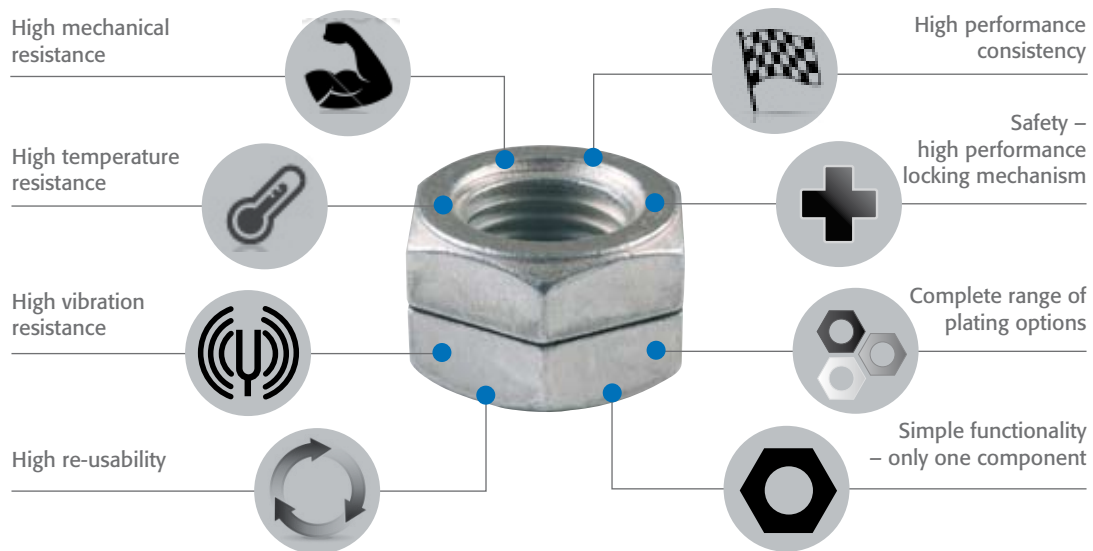
# SNEP – the inventors of the slotted self-locking nut

In 1918 SNEP was established as a manufacturer of high quality fasteners for the growing aerospace industry. In 1954 they invented the original single slotted nut with a revolutionary locking mechanism to provide greater performance than ever before. Today the SNEP slotted self locking nut is still being manufactured in Montbrison, France and sold all over the world into many industries. Over the last 50 years SNEP has continued to refine its engineering expertise and production capabilities through CNC and screw-machining processes. These processes allow SNEP to manufacture virtually any nut range and any drawing parts to even the most demanding customer specifications. Today the SNEP factory is full of high quality, efficient machinery dedicated to the design and production of locking nuts as well as a huge variety of other customer-specified mechanical parts.

## The SNEP self-locking nut

The original single slotted self-locking nut developed in 1954 is still available today alongside a wider range of self-locking nuts including the double slotted nut. Despite major advances in technology, the single-slotted self locking nut still outperforms its rivals in performance – sometimes simplicity is better. SNEP slotted nuts combine both extreme strength with re-usability so you can rely on it time and time again.

SNEP slotted nuts offer the following features and benefits:



### Principle mechanical function:

The self-locking function is obtained by an axial deformed slot.

The metal above the slot is set to de-pitch the threads so that when the nut is tightened on to a bolt, the thread is gripped on the flank.

#### ESN – H100

- Single locking slot – simple but incredibly effective
- Reversible: Locking slot at 1/2 nut height
- Re-usable up to 5 times with minimal performance loss (ISO2320)
- Class 6 & 8
- Suitable for automatic installation



#### ESN – H130

- Single locking slot – simple but incredibly effective
- Locking slot at 2/3 nut height
- Re-usable up to 5 times with minimal performance loss (ISO2320)
- Class 6, 8 & 10
- Made to ISO 7042 standard
- CF 00-040 European rail standard certified



#### DAH (Turret Nut)

- Dual locking slots
- Fitting with automatic assembly
- Class 8 & 10
- CF 00-040 European rail standard certified
- Network rail certified PA05/03451
- Re-usable up to 5 times with minimal performance loss (ISO2320)



# Specialisation capabilities

## Special Nuts & Drawing Parts

### Special Nuts

SNEP has the capability to manufacture to customer drawing specifications. In addition to the ESN and DAH slotted nuts SNEP design and manufacture a wide range of special nuts ranging in size from M3 to M100. This range includes self-locking -collar nuts, crimped nuts, notched nuts, set nuts and many more.

#### Typical Applications

- Methane gas tankers
- Outdoor power equipment (ski lifts)
- Mining extraction
- Conveyors
- Nuclear energy



### Drawing Parts

In addition to slotted and special nuts, SNEP is also specialised in providing manufacturing capabilities for a large range of customer made-to-drawing parts for both aerospace and industrial applications.

Our capability to make to customer specification has resulted in an existing product range of over 5,000 different products. Special products are our speciality.



### Manufacturing Processes

SNEP operate a variety of highly-specialised CNC and screw cutting machines onsite to produce parts ranging in size up to 60mm in bar, up to 250mm on slug or 400x400x400mm for milling parts.

SNEP has recently introduced advanced machinery to turn and mill the parts on a single machine on 10 axis.

Additionally SNEP offer a range of secondary operations to provide the finishing touches to SNEP products.

Secondary operations include:

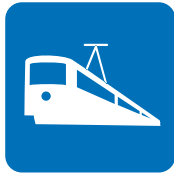
- Tapping
- Drilling
- Grinding
- Threading
- Crimping
- Surface & Heat treatment
- Assembly



These machines have the ability to turn out extremely high quality parts to very tight tolerances in **small to medium sized production runs**.

The SNEP machines can be used to produce products in virtually any material including steel, stainless steel, aluminium, titanium, hard alloys like inconel as well as plastic.

# Markets



Rail



Windmill



Aerospace



Nuclear Energy

SNEP products are commonly used in a wide variety of differing industries and markets and are so versatile they can be used in applications ranging from automotive to green energy and from aerospace to rail-track.

Typical applications include...



Defence



General Industry

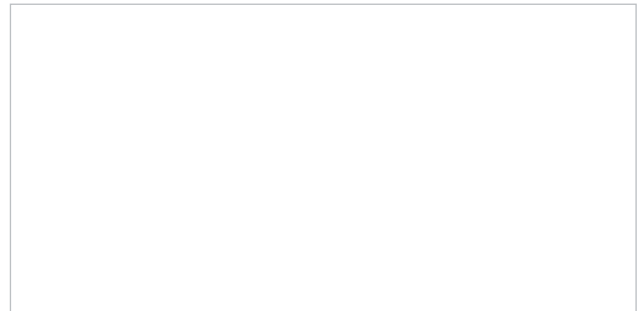
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ISO 9001



ISO 14000

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