M3 Lock Nut

Hexagon lock nut with polyamide insert
DIN 985, A2 stainless steel – pack of 10



Read this manual before use and keep it for future reference.

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Contents

1. Product description

1.1 What it is for

1.2 Specifications and package contents

2. Use

2.1 Installation

2.2 Reuse and inspection

2.3 Safety warnings

3. Information for the EU and Czech Market

3.1 Importer and responsible person in the EU

3.2 Disposal

4. Warranty and rights arising from defective performance

1. Product description

1.1 What it is for

A set of ten hexagon lock nuts with an M3 thread. The nuts are intended for building and repairing multicopters and other models – typically for frame, arm and standoff joints secured with an M3 screw.

The locking function is provided by a **polyamide (PA) insert** in the upper part of the nut. When the nut is screwed on, the screw cuts into the insert, which grips it so that the joint does not loosen even under the vibrations that occur in flight. The nut is a low-profile type and no threadlocker is needed.



M3 lock nuts – the blue polyamide insert is visible on the top of the nut

1.2 Specifications and package contents

Product designation	M3 Lock Nut (10 pcs)
Type	low hexagon lock nut with PA insert, DIN 985
Thread	M3 (metric, 0.5 mm pitch)
Material	A2 stainless steel, polyamide (PA) insert
Nut height	4 mm
Wrench size	5.5 mm
Temperature resistance (supplier data)	long-term 90–100 °C, short-term 140 °C
Package contents	10× nut

Not included in the package: screws, washers and tools. M3 screws of a suitable length must be purchased separately.

2. Use

2.1 Installation

① Choose an M3 screw long enough to pass through the entire nut, including the polyamide insert, after tightening and to protrude by at least one or two threads. If the screw does not pass through the insert, the nut does not lock.

② Put the nut on the screw with the side without the insert (the metal hexagon) first – the polyamide insert must be on the side where the screw comes out.

③ Screw the nut on by hand until it stops at the insert. Then tighten it with a 5.5 mm wrench or nut driver; resistance when turning is normal for a lock nut.

④ When tightening, hold the nut with the wrench and turn the screw, or vice versa. Tighten with care – carbon and plastic parts in particular can be damaged by overtightening.

⑤ After tightening, check that the joint is firm and that the parts do not move relative to each other.

2.2 Reuse and inspection

- The polyamide insert wears each time the nut is screwed on and off. If, after repeated installation, the nut turns on the screw noticeably more easily than a new one, replace it – it no longer locks reliably.
- After a crash and during regular maintenance of the model, check whether the nuts have loosened and retighten or replace them as needed.
- Do not continue to use a nut with a damaged thread or a deformed insert.
- When a stainless steel nut is combined with a stainless steel screw, the thread may seize (galling). Therefore tighten slowly and without excessive force.

2.3 Safety warnings

- The nuts are small parts. Keep them out of the reach of small children – risk of inhalation or swallowing.
- Do not use the nuts in places where the temperature permanently exceeds the stated temperature resistance (e.g. in close proximity to hot components) – the polyamide insert would lose its locking function.
- The nuts are intended for model-making purposes. Do not use them for joints whose failure could endanger persons (e.g. load-bearing structures, lifting equipment).

3. Information for the EU and Czech Market

3.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorama.cz
Phone	+420 252 252 098
Website	www.rotorama.com

3.2 Disposal

- The product is not electrical equipment and contains no batteries; the take-back scheme for electrical equipment does not apply to it.
- Hand over unneeded or worn nuts as metal waste at a collection yard or scrap metal buyer, or dispose of them in accordance with local waste regulations.
- Dispose of the packaging in separated waste according to its material.

4. Warranty and rights arising from defective performance

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 3.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.