ROTORAMA

M3 Countersunk Screws

Countersunk head, hexagon socket · DIN 7991
Stainless steel A2 · pack of 10 · lengths 5–20 mm



Read this manual before assembly. Contains small parts – keep out of the reach of children.

www.rotorama.com

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1. Product description

1.1 Intended use

M3 countersunk screws are stainless steel screws with a countersunk (conical) head and a hexagon socket according to DIN 7991. They are mainly used for building and repairing 5" quadcopters – typically to join the plates of a carbon frame, to fasten standoffs or motors wherever the screw head should sit flush with the surface of the part.

The countersunk head does not protrude above the surface, so the battery, the battery strap or grass on landing cannot catch on it, and the bottom plate of the frame stays smooth. The screw is tightened with a 2 mm hex key or a screwdriver with a 2 mm hex bit. The pack contains 10 screws of one selected length.



M3 countersunk screws – stainless steel A2, 2 mm hexagon socket

1.2 Technical data and package contents

Product designation	M3 Countersunk Screws (10 pcs)
Standard	DIN 7991 (ISO 10642)
Thread	metric M3, pitch 0.5 mm
Length (variants)	5, 8, 10, 12, 14, 16, 18 or 20 mm
Head	countersunk 90°, nominal diameter 6 mm
Hexagon socket	2 mm (hex key)
Material	stainless steel A2
Package contents	1× set of screws – 10 pcs of the selected length
Not included	hex key, nuts, washers, standoffs, threadlocker

2. Use

2.1 Choosing the screw length

- Add up the thickness of the parts being joined (frame plates, mount, washers) and the length by which the screw should engage the nut, standoff or motor. According to DIN 7991, the length of a countersunk screw is measured **including the head**.
- With a nut, the screw should pass through the whole nut once tightened. A screw in a blind thread (standoff, motor) must not bottom out before the head seats – otherwise the joint does not hold, even if it feels tight.
- Before assembly, measure the lengths with a caliper and compare them with the frame or motor documentation.

Caution with motors: a screw that is too long will touch the stator windings inside the motor, damage the insulation, cause a short circuit and can destroy the motor and the electronic speed controller (ESC). Always check the length of motor screws against the data of the motor and frame manufacturer.

2.2 Assembly

① Make sure the hole is **countersunk** (a conical recess for the head). Otherwise the head rests only on the edge of the hole and the joint may loosen or the hole may be damaged.

② Use a good-quality **2 mm** hex key or bit and insert it fully into the socket. A worn or partially inserted tool easily strips the socket.

③ Start the screw by hand to avoid cross-threading, then tighten it with the tool.

④ Tighten with care. Overtightening damages the thread in an aluminium standoff or motor, may crack the plates of a carbon frame and can strip the socket.

⑤ For metal-to-metal joints exposed to vibration (e.g. motors, standoffs) you can use a medium-strength threadlocker as instructed by its manufacturer; never on plastic parts.

2.3 Safety and inspection

- The screws are **small parts** that can be inhaled or swallowed. Keep them away from children and animals.
- Before any work on the drone, **disconnect the battery** – an unintended motor start with propellers fitted can cause serious injury.
- Before each flight and after every crash, check that all screws are in place and tight – vibration can loosen them.
- Always replace a bent screw, a screw with a damaged thread or a stripped socket with a new one.

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 made of metal (stainless steel) and **is not electrical equipment**. Hand over unneeded or damaged screws for metal waste collection – at a collection yard or in a metal waste container according to the rules of your municipality.
- Sort the packaging by material into the appropriate container for separated waste.
- Proper disposal contributes to the reuse of secondary raw materials.

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.