



kuso relock[®]



kuso GmbH

www.kuso.ch

Dear Customer

We are pleased to present our **new**, comprehensively revised **sales documentation**. We have expanded our product range and made the information clearer. On our homepage, you can view detailed information on the individual products and download the corresponding 3D CAD files.

For over 40 years, we have been supplying our customers worldwide with **Swiss-quality lock nuts**. In all these years, we have held on to Switzerland as a production location and we are proud to still be able to supply customers all over the world with Swiss-quality products from Biel.

We now also manufacture lock nuts according to **your requirements**. Thanks to our modern machinery, we can implement **special designs** quickly and cost-effectively.

The lock nuts are manufactured in a wide variety of designs. Our lock nuts are available with radial or axial clamping, in excess width, or stainless steel.

The lock nuts are made of high-quality steel and are subject to the **highest standards of accuracy**. This ensures that the load is evenly distributed over the threads and the clamped elements. This leads to higher rigidity and longer service life of the units.

To facilitate the assembly of the lock nuts and to prevent damage, we recommend our **extensive range of accessories**. Socket spanners and torque adapters can be used to define the forces acting on the units.

kuso relock® MRR radial



Radial Lock Nuts type MRR, MRR-A, 3MRR and MRR-INOX

The **radial locking system** is suitable if there is sufficient space for the tool. Utilizing the grub screw, the brass lardon is pressed into the thread flanks, thus increasing the loosening torque. We offer the radial locking system for standard nuts, extra-wide lock nuts, lock nuts with triple locking system and INOX lock nuts.

- Thread and plane surface are ground in one clamping
- Axial runout accuracy 0.002
- Thread quality: 4H
- Design as right and left thread
- Thread from M6 to M200
- Special sizes on request

Radial locking and unlocking system

kuso relock® MRA axial



Axial locking and unlocking system

Axial Lock nuts type MRA, MRA-A

The **axial locking system** is suitable when there is not enough space and the lock nut must be secured axially. Utilizing an eccentric screw, the lardon is pressed into the thread flanks, thus increasing the loosening torque. Thanks to the eccentric screw, the lardon can be actively loosened, making it much easier to dismantle the adjusting nut. We offer the axial locking system for the standard nuts and for the extra-wide lock nuts.

- Thread and plane surface are ground in one clamping
- Axial runout accuracy 0.002
- Thread quality: 4H
- Design as right and left thread
- Thread from M17 to M200
- Special sizes on request

kuso relock® MRG



Slotted Adjusting Lock Nuts MRG

Made of case-hardened steel and **ground on all sides**, this lock nut is particularly suitable for **high speeds and strong accelerations**. The axial locking system acts on the thread flanks. The thread flanks are clamped against each other utilizing a cap screw. The considerably increased loosening torque permits **higher acceleration and braking torques**. Thanks to the resilient properties of the hardened steel, the adjusting nut can be loosened again with the same torque after the cap screw has been loosened.

- Thread and plane surface are ground in one clamping
- Axial runout accuracy 0.002
- Outer diameter and back-side ground
- Surface hardened to 60 HRC
- Thread quality: 4H
- Design as right and left thread
- Thread from M20 to M100
- Special sizes on request

Axial Lock nuts type MRA

Slotted Adjusting Lock Nuts MRG

According To Your Needs



Thanks to our **modern machinery park**, we can design, manufacture and deliver an adjusting nut that **meets your requirements** quickly and cost-effectively. We have the most modern turning, milling and cylindrical grinding machines and guarantee the **highest precision** in terms of tolerance, roundness and concentricity.

We **grind surface finishes far below Ra 0.05** while maintaining the tightest tolerances. The lock nuts can be manufactured in a wide variety of designs. Depending on the load and installation possibilities, axial or radial clamping or tensioning via the flanks can be selected. The lock nuts are made of high-quality steel and hardened on request.

Special Lock Nuts And Custom-Made Products

Accessories and technical informations



To facilitate the assembly of the adjusting nuts and to prevent damage, we recommend our extensive range of accessories. Utilizing socket wrenches and torque adapters, the forces acting on the units can be defined.

The recommended tightening torques and the resulting loosening torques for the individual adjusting nuts can be viewed on our website www.kuso.ch.

Using the kuso relock calculation formula, you can calculate the forces at work on your system

Accessoires

Liability

It is the customer's responsibility to determine the suitability of the products for the customer's use.

Kuso is liable for the articles supplied, but not for consequential damage resulting from defective articles and applications.

Your Kuso Relock® Dealer

