#### Washers

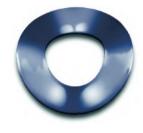


Serrated Disc Washer for DIN 912 Bolts

Spring Steel From 3 mm To 16 mm



DIN 6798 Serrated Lock Washer with External Teeth Form V Spring Steel From 3 mm To 16 mm



DIN 137 Waver Spring Washer (Form B) Spring Steel From 3 mm To 22 mm



DIN 6797 External Tooth Lock Washer Form A Spring Steel From 3 mm To 20 mm



DIN 6798 Serrated Lock Washer with External Teeth Form A Spring Steel From 3 mm To 20 mm



Double-Toothed Lock Washer

Spring Steel From 4,5 mm To 12 mm



Internal Ribbed Automotive Washer

Spring Steel From 4 mm To 10 mm



DIN 6797 Internal Tooth Lock Washer Form J Spring Steel From 2,7 mm To 24 mm



DIN 6798 Serrated Lock Washer with Internal Teeth Form J Spring Steel From 3 mm To 22 mm



DIN 137 Curved Spring Washer (Form A)

Spring Steel From 2 mm To 10 mm



DIN 6799 E-type Circlip

Spring Steel From 1,2 mm To 24 mm

## Nuts



Standard Cage Nut

Cage Stainless Steel Nut Steel Zinc-plated From M3 To M10

U-Nut for DIN 7970 Threaded Bolts

Spring Steel Metric thread From M3 To M6 ISO thread From 2,9 mm To 5,5 mm





DIN 1481 Heavy-Duty Spring Pin

Spring Steel From Ø 1,5x4 To Ø 12x120



Front-Mounted Cage Nut Spring Steel From M4 To M8

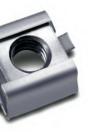








#### **MIKALOR**



Clip Cage Nut Spring Steel From M4 To M8



Chimney (Lug) Nut

Spring Steel From M5 To M8



Cylindrical Cage Nut Spring Steel From M4 Tom M8



Cage Nut for Leveling Spring Steel From M8 To M10



Flat Spring Nut

Spring Steel Metric thread From M3 To M8 ISO thread From 2,9 mm To 6,3 mm



Circular Uncapped

Push-on Fastener

for Shafts

Spring Steel

From Ø 2 To Ø 14

**Special Fasteners** 

Safety Clip

Spring Steel From Ø 5 To Ø 14



**Compression Ring** 

Spring Steel From Ø 6,4 To Ø 14,2

Circular Push-on Fastener

Spring Steel

Ø 4,8

Spring Steel Panel Latch

Spring Steel Form A, B and C





DIN 472-I Internal Circlip Spring Steel From Ø 8 To Ø 200



Flat Nut for Shafts

Spring Steel From Ø 1,5 To Ø 8



Shaft Clip Spring Steel From Ø 6 To Ø 10



Button Clip

Steel Button 1, 2 and 3



DIN 471-E External Circlip

Spring Steel From Ø 3 To Ø 200

### **Excellence in Fastener Manufacture**

THE MIKALOR GROUP (Mikalor Tools & Engineering, Mikalor Fastening Solutions, Mikalor Hose Clamps and Damesa) ensures that each of the member companies specializes in production and services within the Group, creating synergies and a clear competitive advantage compared to our competitors.

STANDARD PARTS Mikalor Fastening Solutions, in Manresa (Barcelona) is specialized in the manufacture of all of our standard metal fasteners, including DIN 1481 spring pins, washers, cage nuts and so on. Many of our spring-steel U-nuts, chimney nuts and compression rings in particular are increasingly sought after as they become harder and harder to source. Our low MOQ's (one box quantity of any standard part) make us an excellent option for spring-steel fasteners.

SPECIALS At Mikalor Fastening Solutions we also manufacture special metal fasteners according to the technical specifications of industry or automotive R&D departments. We control the complete manufacturing process from beginning to end. Based on a sample or drawing, we can design and manufacture a machine tool for punching, stamping, bending, threading etc. and then manufacture the finished article. We also manufacture machine tools for third parties.

















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# **MIKALOR**