

PD M4 x 12 mm

Instruction Manual for PD® M4 Stainless Steel Washers

Model: M4 x 12 mm (Part No. ASDIOFJ2)

1. INTRODUCTION

This instruction manual provides comprehensive information regarding the PD® M4 Stainless Steel Washers, designed for a wide range of fastening applications. These washers conform to DIN 9021 and ISO 7093 standards, ensuring consistent quality and performance. Made from high-quality A2 V2A stainless steel, they offer excellent corrosion resistance and robustness, making them suitable for both indoor and outdoor use.

2. PRODUCT SPECIFICATIONS

The PD® M4 Stainless Steel Washers are manufactured to precise standards to ensure optimal performance.

- **Material:** A2 V2A Stainless Steel
- **Standard:** DIN 9021 / ISO 7093
- **Inner Diameter (d1):** Approximately 4.3 mm
- **Outer Diameter (d2):** Approximately 12.0 mm
- **Thickness (h):** Approximately 1.0 mm
- **Corrosion Resistance:** Excellent
- **Heat Resistance:** Great
- **Durability:** High
- **Quantity per pack:** 25 pieces (for this specific model)
- **Color:** Silver
- **Weight:** 150 g (for 25 pieces)
- **Part Number:** ULS-D9021-A2-M4-25x-0001-FBM
- **Model Number:** ASDIOFJ2

2.1. Dimensional Diagram

Refer to the diagram below for a visual representation of the washer dimensions according to DIN 9021 / ISO 7093.

# Genormt nach DIN 9021

DIN = Deutsches Institut für Normung



Image: Technical drawing illustrating the dimensions of a washer (d1, d2, h) and a table with various sizes.

## 2.2. M4 Washer Specific Dimensions

A detailed view of the M4 washer's dimensions and material benefits.

# Hochwertiges Edelstahl A2

sorgt für eine sehr gute Korrosionsbeständigkeit sowie eine enorme Robustheit!



M4

12,0 mm

- ✓ Sehr gute Korrosionsbeständigkeit
- ✓ Großartige Hitzebeständigkeit
- ✓ Extreme Strapazierfähigkeit
- ✓ Enorme Langlebigkeit
- ✓ Ideal für den Innen- & Außenbereich

4,3 mm

1,0 mm

Auch in der Ausführung aus Edelstahl A4 erhältlich!

+ Salzwasser- & Säurebeständig sowie Amagnetisch!

Image: Close-up of an M4 washer with precise measurements and a list of benefits of A2 stainless steel, including excellent corrosion resistance, great heat resistance, extreme durability, enormous longevity, and suitability for indoor & outdoor areas.

## 3. INSTALLATION AND USAGE

Washers are essential components in many fastening applications, primarily used to distribute the load of a threaded fastener, such as a screw or nut, evenly across the surface of the material being fastened. This helps prevent damage to the surface and ensures a more secure connection.

### 3.1. General Application

To install, place the washer between the fastener head (or nut) and the material surface. Ensure the washer is flat against both surfaces. Tighten the fastener according to the required torque specifications for your specific application. The large outer diameter of these DIN 9021 washers provides a wider load distribution area, which is beneficial for softer materials or when a larger bearing surface is desired.

### 3.2. Versatile Applications

These stainless steel washers are highly versatile and can be used in a multitude of projects due to their robust material



properties and corrosion resistance. Examples include:

- **Construction Projects:** Ideal for outdoor structures like garden sheds, fences, or treehouses where resistance to elements is crucial.
- **Furniture Assembly and Repair:** Provides stable connections and protects surfaces when assembling or repairing furniture.
- **Automotive and Trailer Applications:** Suitable for securing components in vehicles or trailers, especially in areas exposed to moisture or varying temperatures.
- **General Repairs:** Useful for various household or industrial repairs requiring a durable and corrosion-resistant washer.

**Ein absoluter Allrounder**  
Eine kleine Scheibe & tausende Möglichkeiten...

...Bauen Sie mit Ihren Kindern ein Baumhaus!

...Reparieren Sie Ihre Möbel!

...Werden Sie Ihren Anhänger auf!

...Befestigen Sie Ihre Zäune!

Image: Collage demonstrating the versatility of the washers in various scenarios, including construction, furniture repair, and outdoor installations.

#### 4. MATERIAL PROPERTIES AND SELECTION


The PD® M4 washers are made from A2 V2A stainless steel, known for its excellent balance of strength and corrosion resistance. PD also offers fasteners in various other materials, each suited for specific environmental and mechanical




requirements.

# Vielseitige Auswahl

Jedes Material hat seinen Einsatzbereich!





**Messing**

**Titan**

**Galvanisch verzinkt**

**Edelstahl A2**

**Nylon**

**Edelstahl A4**

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Image: Visual representation of various material options for fasteners, including Brass, Titanium, Galvanized steel, A2 Stainless Steel, Nylon, and A4 Stainless Steel, highlighting their diverse applications.

For applications requiring even higher corrosion resistance, such as in saltwater environments or with strong acids, A4 stainless steel (V4A) is recommended. Nylon washers are suitable for electrical insulation or vibration dampening, while brass and galvanized options offer different aesthetic and protective qualities.

## 5. MAINTENANCE AND STORAGE

PD® M4 Stainless Steel Washers require minimal maintenance due to their inherent corrosion resistance. However, proper storage can prolong their aesthetic quality and ensure readiness for use.

- **Cleaning:** If exposed to harsh chemicals or contaminants, clean the washers with a mild detergent and water, then rinse thoroughly and dry.
- **Storage:** Store in a dry environment, away from direct moisture and corrosive substances. Keeping them in their original packaging or sealed containers will prevent dust accumulation and potential surface scratches.

- **Inspection:** Before use, visually inspect washers for any deformities or damage. Do not use damaged washers as they may compromise the integrity of the fastening.

## 6. TROUBLESHOOTING

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As simple mechanical components, washers typically do not require extensive troubleshooting. However, consider the following if issues arise:

- **Loose Connection:** Ensure the correct size washer is used with the corresponding fastener. Over-tightening or under-tightening can lead to issues. Always refer to the fastener's torque specifications.
- **Surface Damage:** If the washer is causing damage to the material surface, consider using a washer with a larger outer diameter (like these DIN 9021 washers) or adding a softer material layer (e.g., a rubber gasket) between the washer and the surface.
- **Corrosion:** While A2 stainless steel is highly corrosion-resistant, extreme environments (e.g., prolonged exposure to saltwater or certain strong acids) may still cause surface discoloration or pitting. For such conditions, consider using A4 stainless steel washers.

## 7. WARRANTY AND SUPPORT

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PD stands behind the quality of its products. If you are not satisfied with your PD® M4 Stainless Steel Washers, you may be eligible for a refund within 60 days of purchase. For further assistance or inquiries, please refer to the seller's contact information on the purchase platform.

For a wider range of fastening elements and to explore other product offerings, please visit the official PD store:

[Visit the PD Store](#)



# Nächstes Projekt geplant?

PD® bietet Ihnen genau die richtigen Befestigungselemente für Ihr Projekt!



## Besuchen Sie unseren PD-Store!

- ✓ Hunderte unterschiedliche Arten von Scheiben
- ✓ Hunderte unterschiedliche Arten von Muttern
- ✓ Hunderte unterschiedliche Arten von Schrauben
- ✓ Gewindestangen, Ringe, Splinte & vieles mehr
- ✓ Vielfältige Auswahl an Materialien & Mengen
- ✓ Insgesamt ein Sortiment von über 1000 Artikeln

*Image: A collection of various fastening elements such as bolts, nuts, and washers, illustrating the broad product range available from PD.*

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This manual is for informational purposes only. Specifications are subject to change without notice.