

# PHR TECHNOLOGY

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## GENERAL INFORMATION ABOUT A RUNNING CHANGE FROM PHR TO PHR II WASHERS

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Dear DT Swiss Partner,

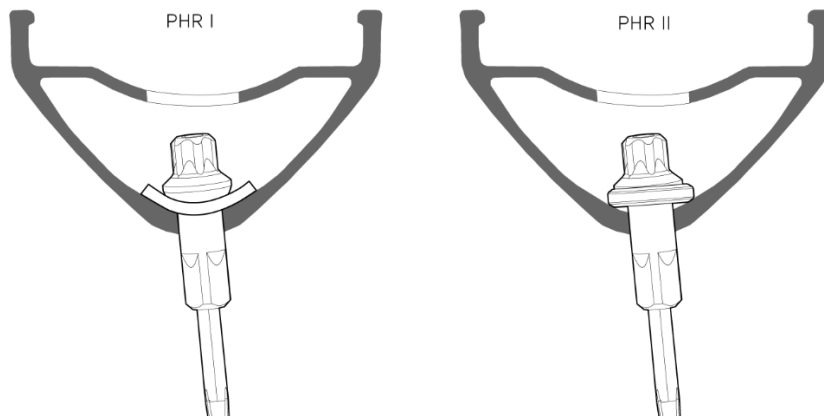
We would like to inform you about a running product update regarding our PHR washer system. DT Swiss is gradually transitioning from the current **PHR Washer** to the new **PHR II Washer** across all wheels and rims using washer-based nipple support systems.

This update is part of our continuous product development process and aims to further optimize nipple alignment, load distribution, and assembly performance.

Therefore, the PHR II Washer will be the only Washer option long term.

During the transition period, both washer versions may be present in production, service stock, and the aftermarket.

### What is changing?



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### KEY FACTS

- PHR II fully replaces the previous PHR washer
  - Compatibilities and rim-specific application guidelines remain unchanged
  - The PHR II Washer improves the nipple guidance and load distribution due to the optimized shape
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## **Q&A**

### **When did this change transfer take place?**

The transition / running change to the PHR II Washer was started with production orders starting in late 2025.

### **Do existing wheels need to be updated?**

No. Wheels already built with the previous PHR washer can continue to be used without modification.

### **Can PHR and PHR II washers be mixed?**

Since the compatibility requirements remain the same, both washers can generally be used.

### **Does spoke or nipple compatibility change?**

No. Existing DT Swiss spoke and nipple systems remain compatible, provided they are approved for the respective rim.

### **Do spoke tension values or wheelbuilding specifications change?**

No. Approved tension ranges and wheelbuilding guidelines remain unchanged.

### **Why was PHR II introduced?**

PHR II improves due to the rotational symmetrical shape assembly behavior, nipple alignment, and load distribution at the rim interface, further optimizing the robustness of the complete wheel system.

### **Are there any special considerations during assembly?**

No specific orientation is required. Due to the rotational symmetry of the new PHR II washer, alignment during assembly does not need to be considered. DT Swiss recommends applying DT Swiss multipurpose grease or an equivalent lubricant to the contact areas between the nipple and the PHR II washer.

### **The new PHR II washer is flat. Does it deform to match the rim shape during assembly?**

No. The new PHR II washer remains in its flat shape and is supported against the rim flanks.

### **Does anything need to be considered when calculating spoke lengths with PHR II washers in the DT Swiss online spoke calculator?**

No. The correction factor for both PHR I and PHR II is already included in the rim ERD and does not need to be considered separately in the calculator.

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### Does this change affect all DT Swiss rims?

The transition only affects products where PHR washers were already specified.

### Will spare part numbers change?

Depending on the product group, existing PHR part numbers gradually be replaced by PHR II versions. Please refer to the latest DT Swiss service and spare parts documentation.

Overview Spare Parts:

|            |                 |                             |
|------------|-----------------|-----------------------------|
| Old PHR    | WSZXX10051297S  | WASHER FOR ONE Ø8.5/4.3X0.9 |
| New PHR II | WSZXX100027381S | WASHER PHR II 100pcs        |

### Are there visible differences between PHR and PHR II?

Yes. PHR II features an updated geometry as shown in the drawings above

### Does this change affect warranty or product approvals?

No. Using the approved washer system for the respective rim does not affect warranty coverage or product approvals.

We hope this information sheet provides you with a clearer overview and serves as a guideline for the change described.

Should you have any further questions regarding the PHR II transition, please contact your DT Swiss sales or service representative.

**YOUR DT SWISS TEAM**