

# New Product Naming

## Software Change Notification

Version	Date	Editor	Comment
001	2019-01-17	mx chm	Initial edit
002	2019-01-21	mx	Internal review
003	2019-01-30	chm	Section Legacy Firmware

Document SWSCN006\_NewProductNaming\_EP  
Version 003  
Source Q:\doc\Software\SWSCN\  
Destination T:\doc\Software  
Owner chm

Copyright © 2019  
Triamec Motion AG  
All rights reserved.

Triamec Motion AG  
Industriestrasse 49  
6300 Zug / Switzerland

Phone +41 41 747 4040  
Email [info@triamec.com](mailto:info@triamec.com)  
Web [www.triamec.com](http://www.triamec.com)

### Disclaimer

This document is delivered subject to the following conditions and restrictions:

- This document contains proprietary information belonging to Triamec Motion AG. Such information is supplied solely for the purpose of assisting users of Triamec products.
- The text and graphics included in this manual are for the purpose of illustration and reference only. The specifications on which they are based are subject to change without notice.
- Information in this document is subject to change without notice.

### Table of Contents

1 Summary.....2	3 Product Naming and Order Convention.....3
2 Limitation of the Commutation Frequency. 2	3.1 Ordering.....3
2.1 Rotational axis.....2	3.2 Identification.....3
2.2 Linear motor:.....2	4 TAM System Explorer Issues.....3
2.3 DC motor:.....2	4.1 Older Than 7.8.0.....3
	4.2 TAM SDK 7.8.0 or Newer.....3
	TAM Configurations.....3
	Legacy Firmware.....4

## 1 Summary

The European Union issued export restrictions for frequency converters to some countries. Under some conditions, export to these countries is simplified. With this target, Triamec Motion AG changes the naming convention for the products of the TSD-series. This document describes the impact to ordering and handling these drives. The product naming of the (older) TS-series drives (TS351, TSP350, TSP700) does not change. Therefore, these are not covered here.

Triamec drives for simplified export contain a limitation of the commutation frequency described in this document. This feature is activated at the factory if ordered accordingly.

## 2 Limitation of the Commutation Frequency

The following frequency limitation can be ordered to simplify export issues. It will limit the electrical commutation frequency (`axes[].signals.commutation.velocity/2pi`) to 600Hz. Moving above this speed will throw the error „Commutation600HzLimit“ and the axis stops. The commutation frequency is related to the mechanical speed by the following equations:

### 2.1 Rotational axis

$$n * p / (60 \text{ s/min}) = \text{axes}[].\text{signals.commutation.velocity}/2\pi < \underline{600 \text{ Hz}};$$

$n$  [1/min]: mechanical speed

$p$  [-]: Pole-Pairs per turn

### 2.2 Linear motor:

$$v/a = \text{axes}[].\text{signals.commutation.velocity}/2\pi < \underline{600 \text{ Hz}}$$

$v$  [m/s]: velocity

$a$  [m]: Distance of the magnetic period

### 2.3 DC motor:

No limitation

## 3 Product Naming and Order Convention

### 3.1 Ordering

Old TSD-Series products ordered or delivered before 10.01.2019 do not contain the frequency limitation. Products must now be ordered based on our new naming convention:

<i>Name</i>	<i>Export</i>	<i>Frequency limitation</i>	<i>Example</i>
TSD-Series without „HS“-Tag	Simplified	yes	TSD80E-E1
TSD-Series with „HS“-Tag	Restricted	no	TSD80E-E1HS

This means: when ordering a product without the new tag “HS”, the product will automatically contain the frequency limitation feature.

### 3.2 Identification

If one of the following conditions is met, a Triamec product of the TSD-series allows simplified export:

- Products ordered or delivered after 10.01.2019 without extension “HS” on the name-plate.
- Products with serial number  $\geq 353$  without extension “HS” on the name-plate.
- Products that do not show an “HS” extension on a TAM System Explorer  $\geq 7.8.0$ .

## 4 TAM System Explorer Issues

TSD-Series product names are displayed with the new convention with TAM System Explorer 7.8.0. This might cause issues discussed in the following.

### 4.1 Older Than 7.8.0

The TAM System Explorer shows the product with the old product naming convention, (e.g., TSD80E for a product without frequency limitation).

A special remark on TAM SDK 7.7.1: It does support fast firmware download of some products, but not if the active firmware release is newer than 4.3.2. In these cases only slow firmware upgrade is possible without special knowledge.

### 4.2 TAM SDK 7.8.0 or Newer

The Explorer shows the new product naming convention, (e.g., TSD80E-HS for a product without frequency limitation).

### TAM Configurations

TAM Configurations saved with an older version of the TAM SDK can still be loaded. However, only configurations containing only *one* renamed product will be able to resolve automatically. Other TAM configurations need to be assigned once again in the GUI.

The same behavior is to be expected when loading a TAM Configuration from a newer TAM SDK with an



old TAM SDK.

### **Legacy Firmware**

The download of TSD-Series firmware released until October 2017 is no longer supported. These releases can be distinguished from newer releases by their single-number version. Newer releases use a Major.Minor.Patch versioning scheme.

Please use a TAM System Explorer delivered with an older version of the TAM SDK for this sake.