

Custom solutions (A and E number)

Introduction

When a motor is customized with a special shaft, a custom PCB or a particular lubricant, its designation then contains a unique code to distinguish it from a standard motor. This leads to “E” or “A” number (to compare with *IVA* number from DR. FRITZ FAULHABER and *K* number from FAULHABER MINIMOTOR). However, it is not trivial for the customer to know and understand what is behind this special product code. Therefore, the idea of this application note is to present a list of all the special numbers and explain what they mean. It also gives a list of all the specialties already available.

What is the difference between E or A number?

Up to the beginning of 2012, two types of custom numbers were used: *E* and *A*. For example,

AM1524AE030070 E297	E number
AM08202R022525 A2937	A number (A is usually not marked)

The E numbers were used for prototypes and pre-series custom projects. The number contained 3 digits. The A numbers were used for serial production custom projects. The number contained 4 digits. As soon as a custom project was starting in serial production, it was changing from E to A number. Note that those special products are not assigned to one customer exclusively and might be provided to other customers. The exclusivity of a product can be obtained on request.

From 2012, the custom products always feature a A number. The new policy, since 2012, is to attribute a code for a special project (for example A1080) and then increment the letter if there are some updates on the product.

Example:

Year 1 : customer wishes a longer shaft on an AM1524 => AM1524SB025055-**A1080**
Year 2 : customer wishes to add a custom PCB => AM1524SB025055-**B1080**
Year 3 : customer wishes to add a specific laser marking => AM1524SB025055-**C1080**
Etc.

In which case a product is a custom product?

Table 1 summarizes when a product receives a special code extension and Figure 1 gives some example of custom solutions that are possible for the PRECstep® technology.

Table 1 : List of special modifications leading to a custom number.

Product Change	Special Code	Comment
Ball bearing instead of Sleeve bearing	no	2R option
Bearing lubricant	no	RC, AE, AC, AT, RV options available
Shaft diameter and length	yes	
Shaft material	yes	
Lead screw assembly	no	If a standard lead screw is chosen from the catalog
Lead screw custom length	no	If a standard lead screw is chosen from the catalog
Lead screw pitch and diameter	yes	
Lead screw with nut or ball bearing	no	If a standard nut or ball bearing is chosen from the catalog
Gearhead assembly	no	
Special gearhead	no	
Custom pinion	yes	
Custom parts mounted on motor	yes	
Cable or connector	Case to case	
Encoder assembly	no	If a standard encoder is chosen from our catalog
Special PCB	yes	
Special windings	yes	
Special front flange	yes	
Special laser marking	yes	
Extra tests and measurements	yes	

You may inquire with special requirements directly to your point of sales or at info@precistep.com.

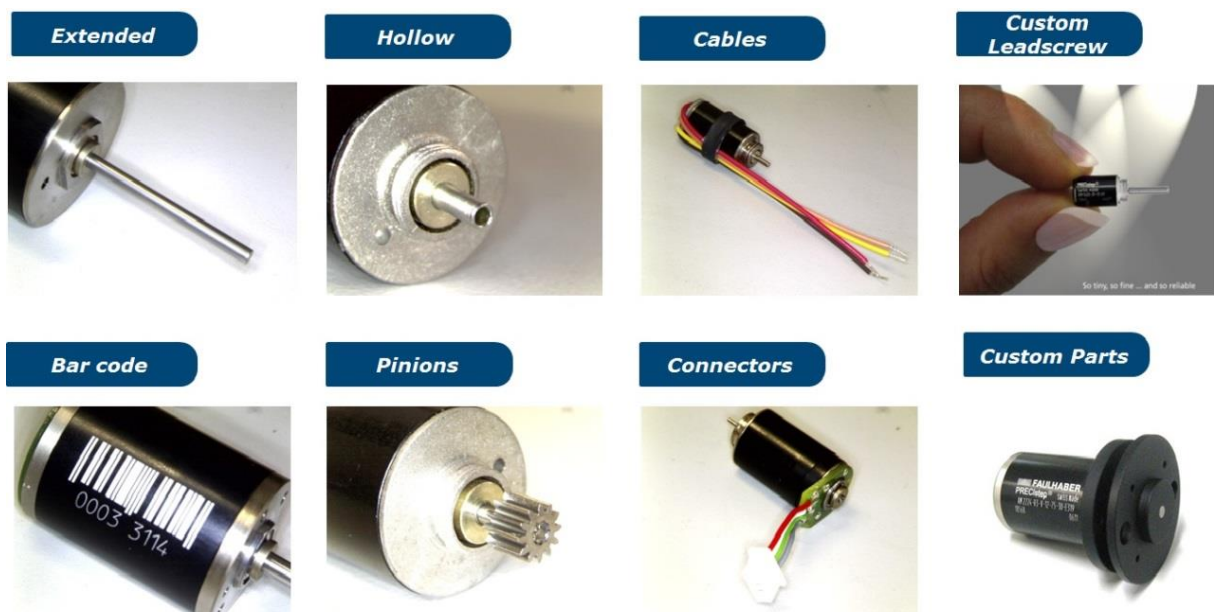


Figure 1 : Examples of custom solutions.

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