Data sheet drylin® drive technology

Content:

Linear Module SLW-1080

SLW-1080-DS10X2

SLW-1080-DS10X3

SLW-1080-DS10X12

SLW-1080-DS10X25

SLW-1080-DS10X50

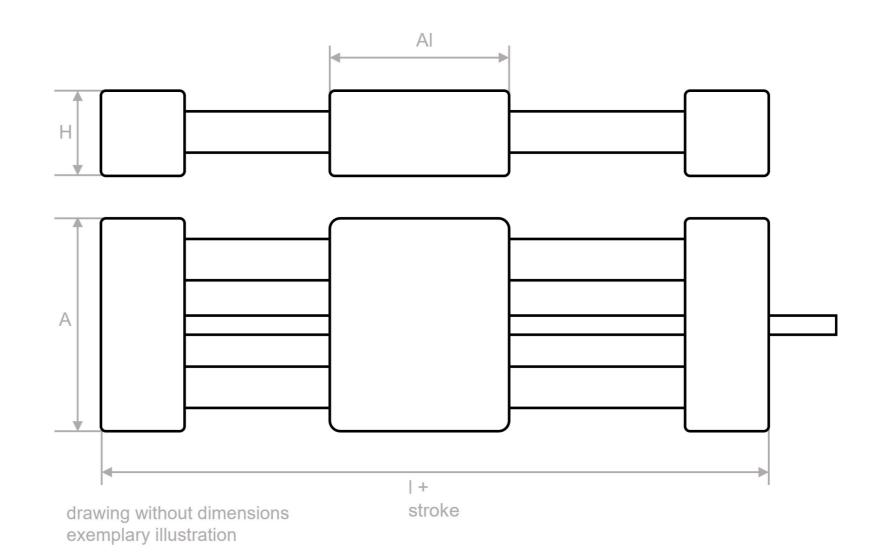
SLW-1080-TR10X2

SLW-1080-TR10X3

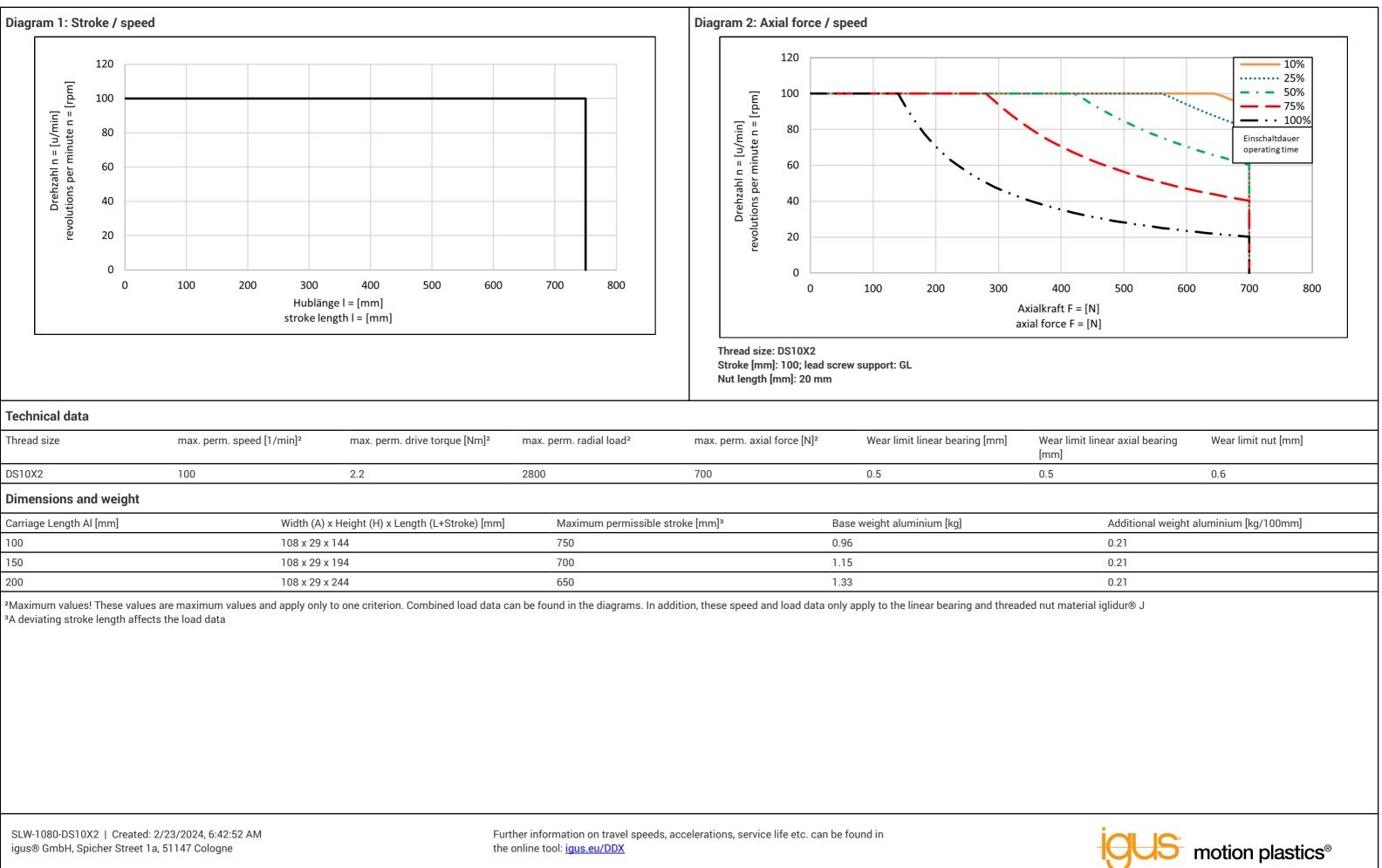
SLW-1080-TR10X4

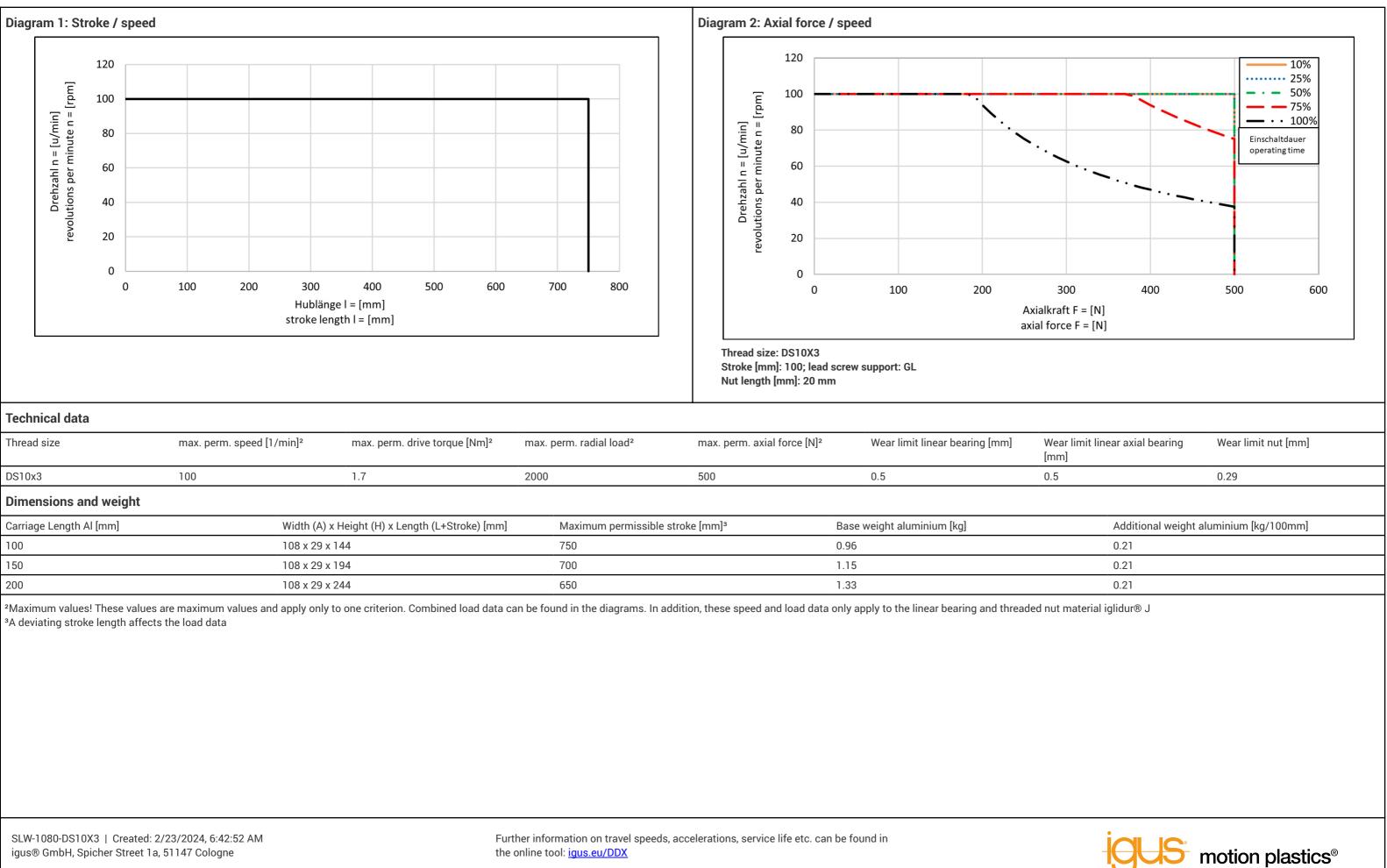
Reading example

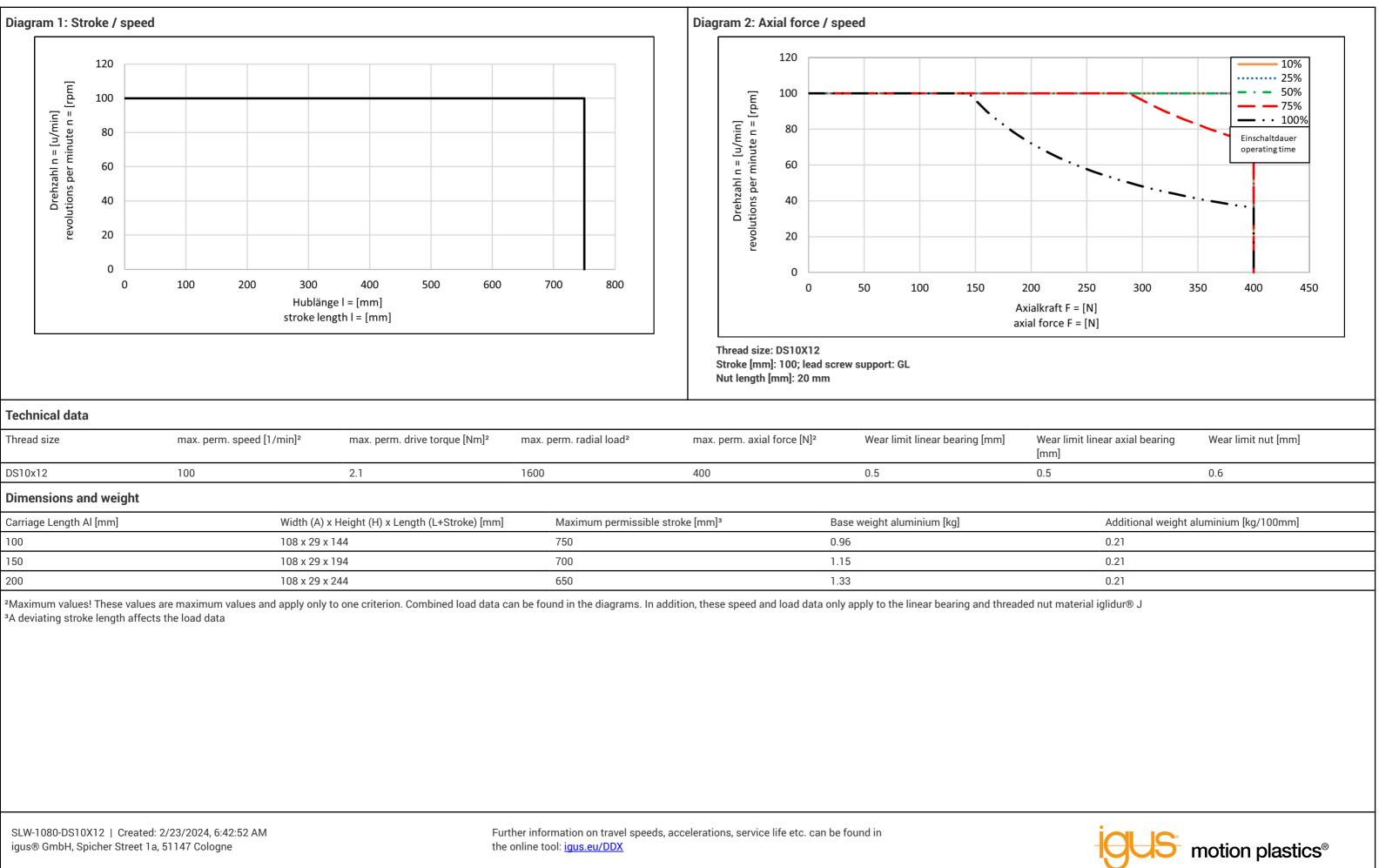
Disclaimer

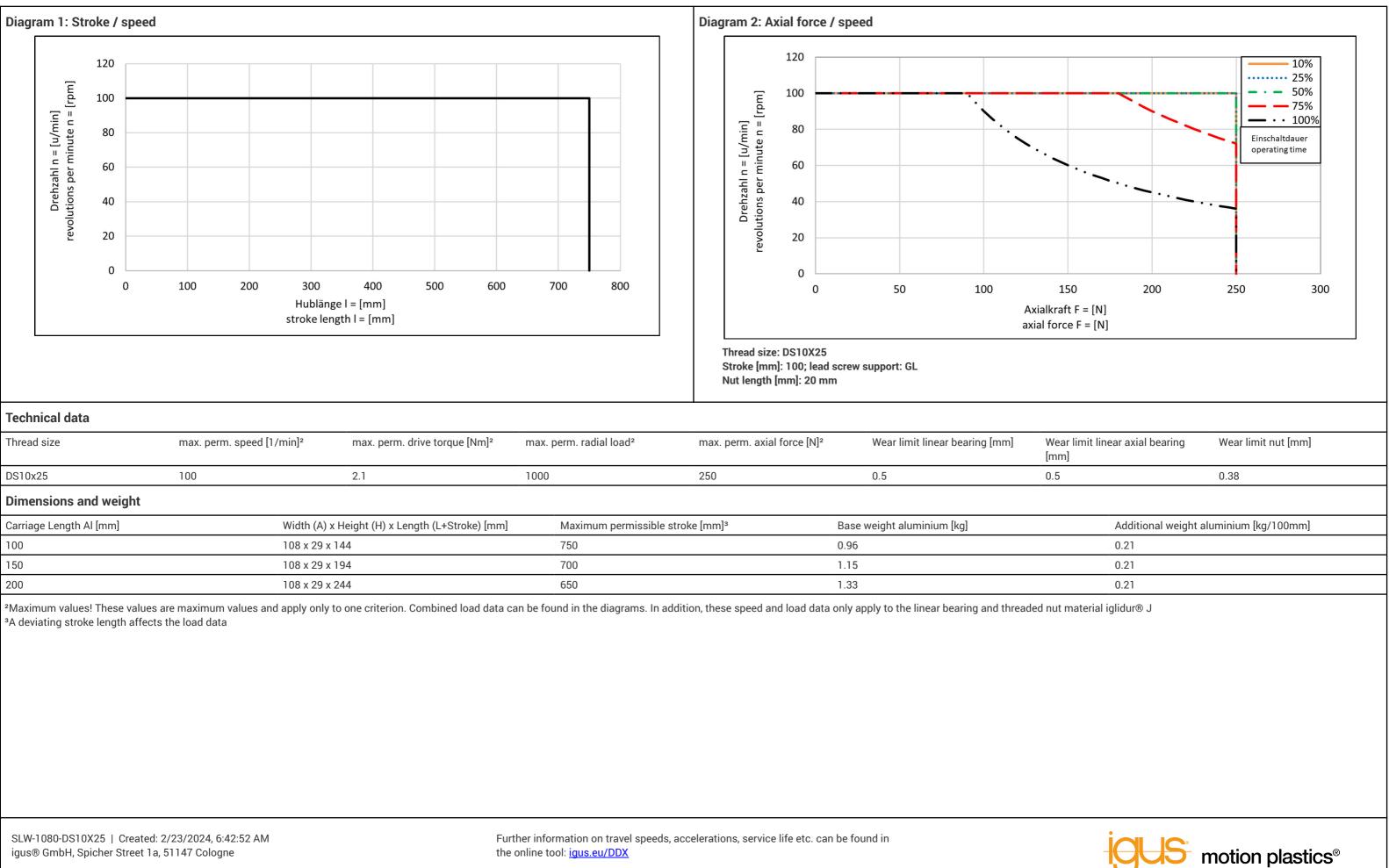


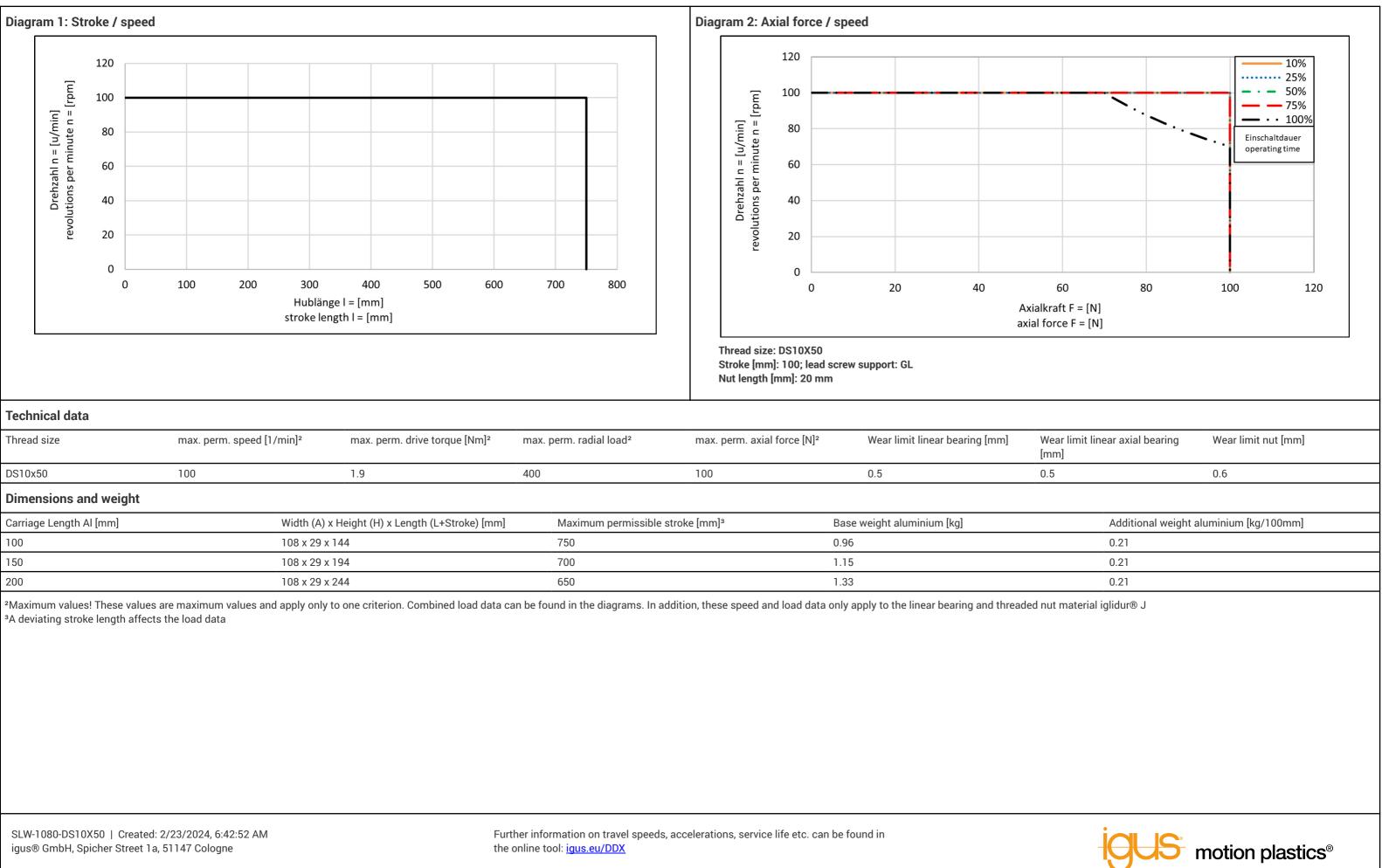


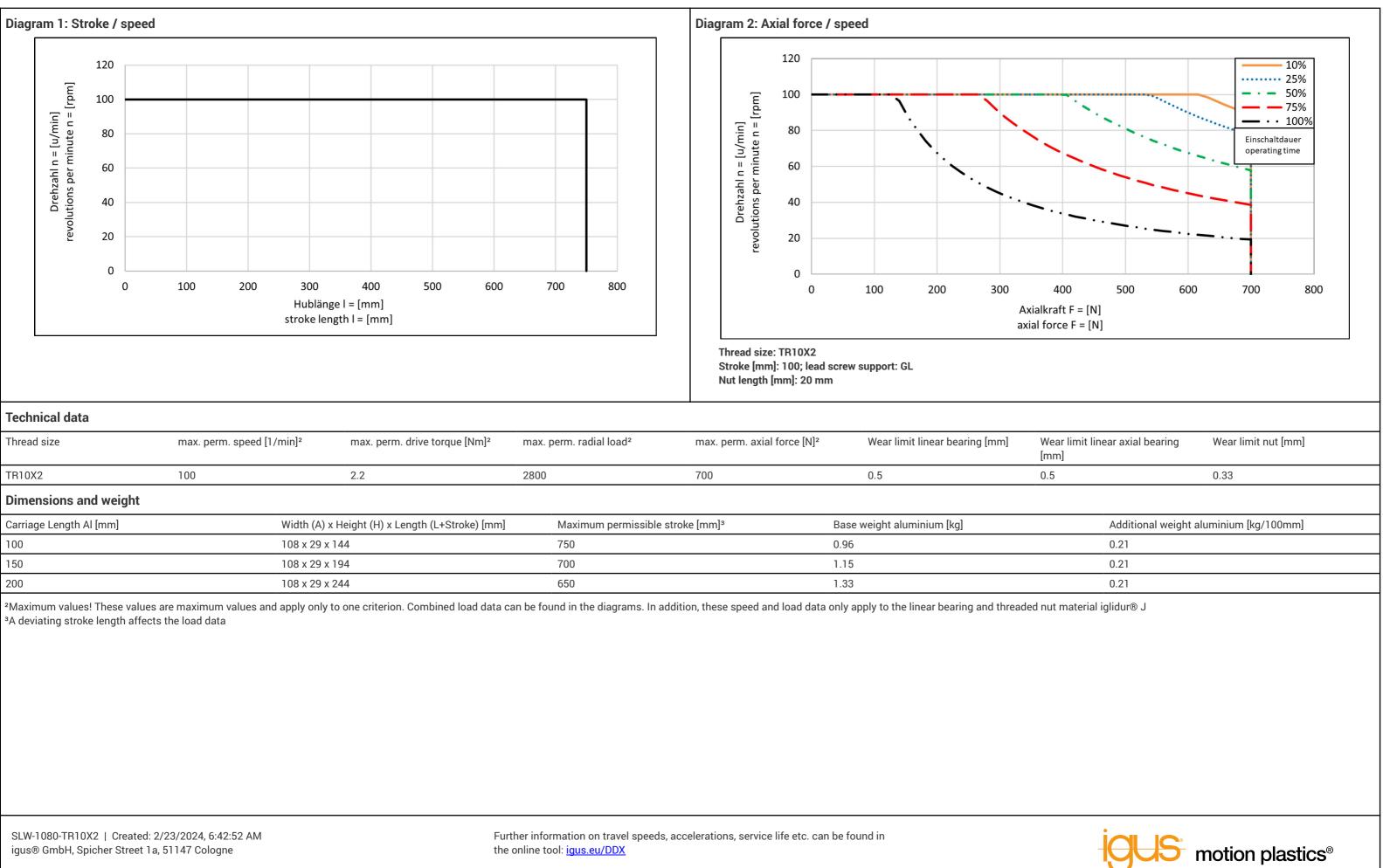


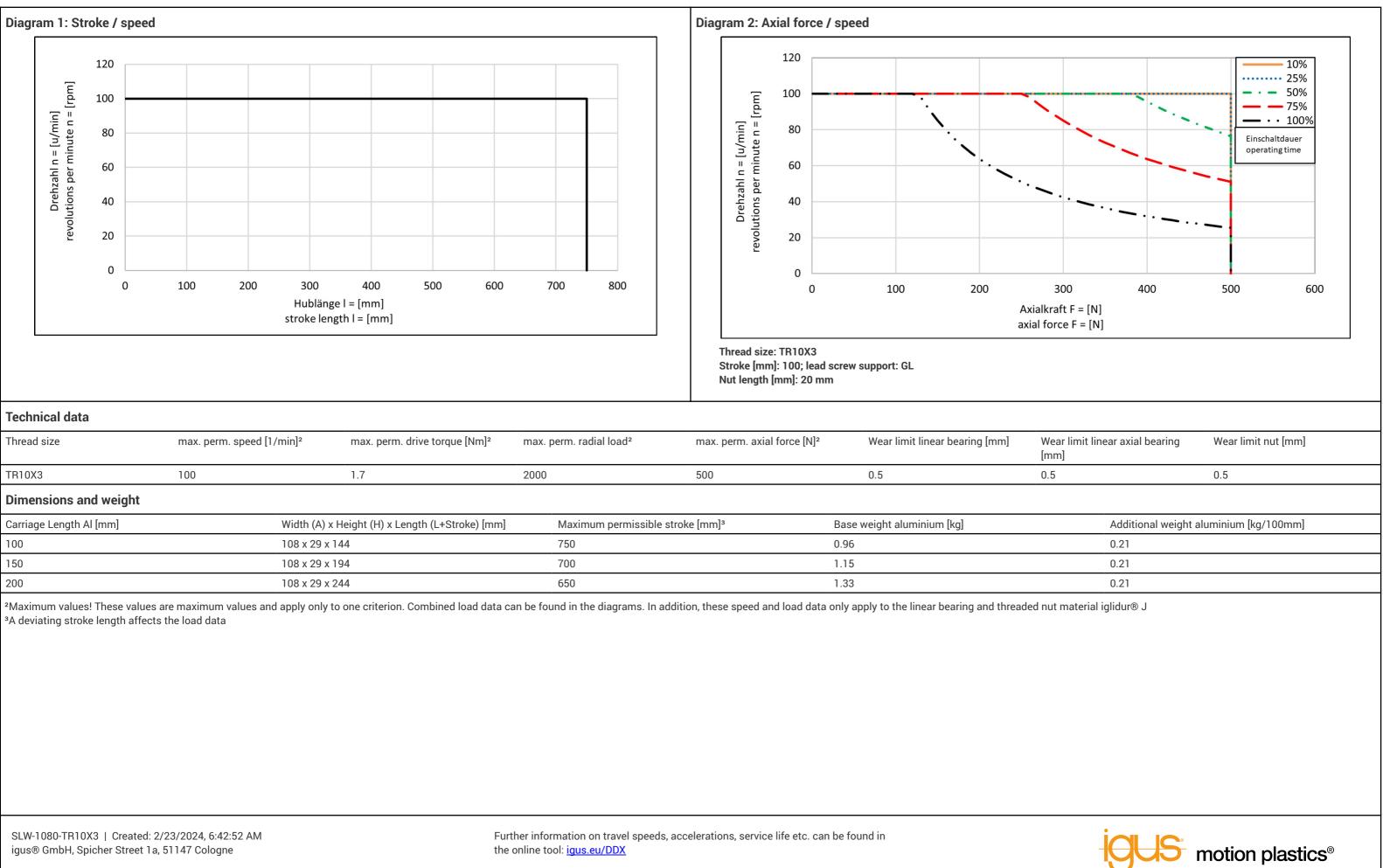


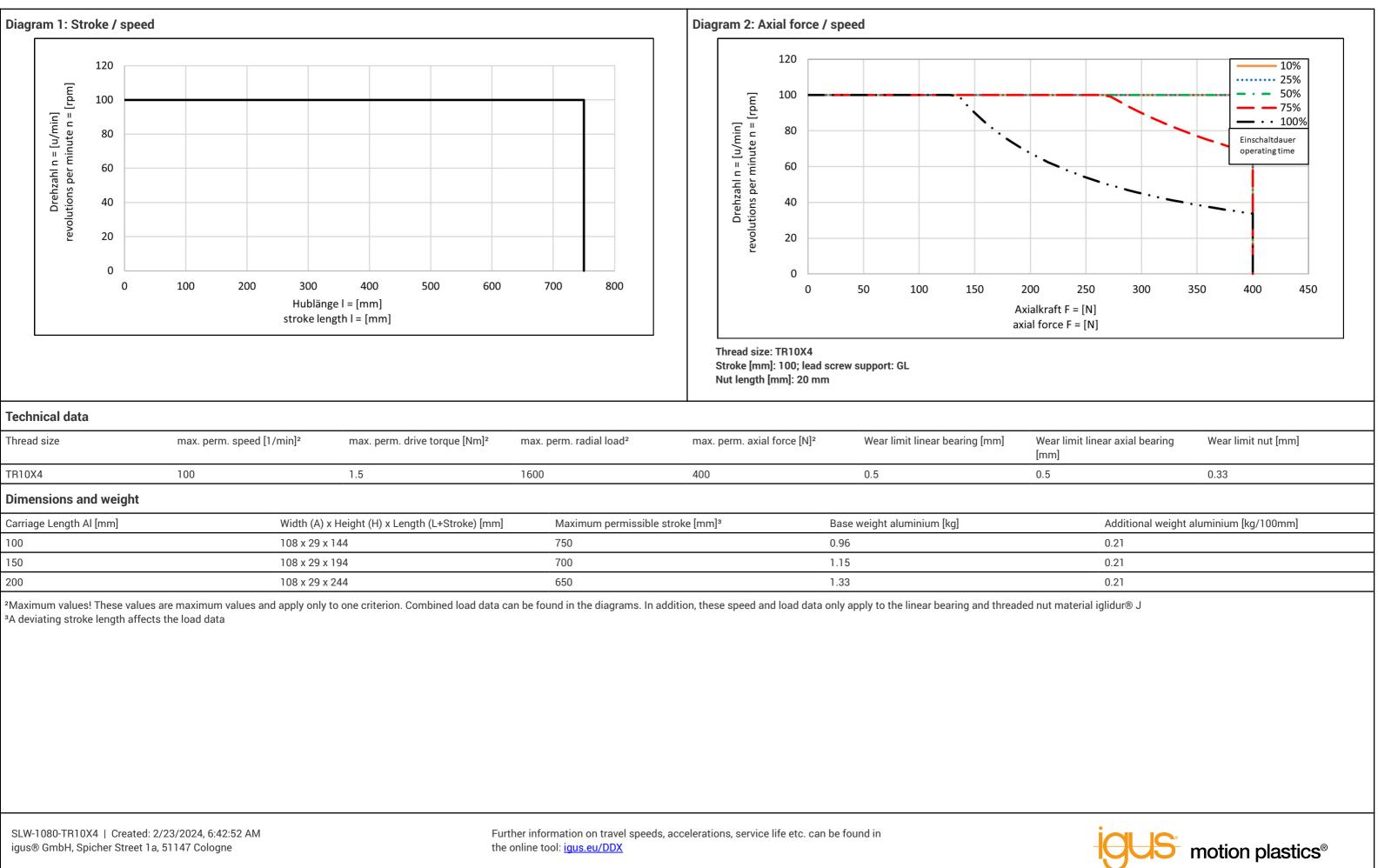












Reading example Linear Module SLW-1080

Reading example diagram 1: Stroke / speed 600 = [rpm] 500 Drehzahl n = [u/min] 2 400 1 300 200 100 0 400 0 100 1) 300 500 600 Hublänge I = [mm] stroke length I = [mm]

Example 1 (black): available stroke = 200 mm

Based on the existing stroke length 1 the permissible speed can be determined. 2

At **200** mm stroke (1) a permissible speed of **400** U/min (2) can be determined.

Based on the permissible rotational speed 3, the permissible axial force 4 can be read as a function of the duty cycle (diagram legend). abgelesen werden. With a duty cycle of 100% and a speed of 400 U/min (3) a permissible axial force of **20 N** (4) can be determined.

Hint!

The diagram 2: Axial force / speed only refers to stroke lengths < 100mm. For stroke lengths > 100mm, the max. permissible axial force can be increased with a correction factor. The limit values from the table of technical data must not be exceeded.

 $F_k = F_{zul} * (0.008 * stroke length + 0.2)$

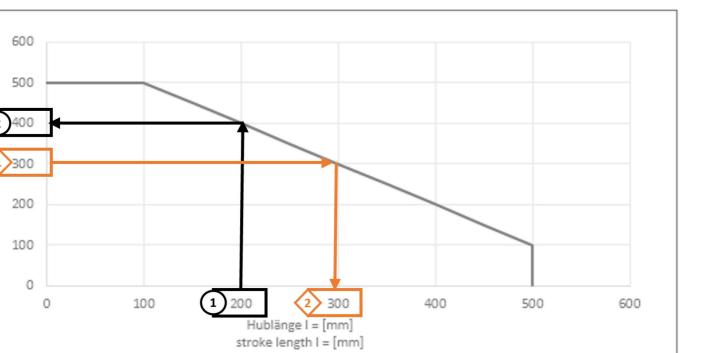
 $F_k = 20 N * (0.008 * 200 + 0.2) = 36 N$

Calculation example:

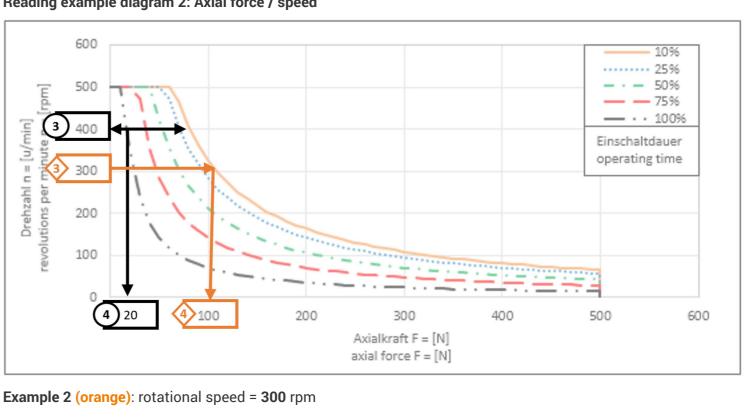
The corrected force can be used with the previously determined stroke-dependent speed.

Disclaimer

The preceding information is the result of tests carried out. None of the information comprises one or more guarantees on certain properties nor does it comprise one or more guarantees in respect of the suitability of a product for a specific purpose, since the tests were carried out under laboratory conditions. A guarantee on certain product properties and/or their suitability for specific use is to be made in writing in the order confirmation. Since the results have been gained under laboratory conditions, which are almost never able to simulate real application-conditions, we recommend application-specific measurements under real application conditions.



Reading example diagram 2: Axial force / speed



Dependent on the required speed (1) the permissible stroke (2) can be determined. At a speed of 300 rpm (1)a permissible stroke length of **300** mm 📀 can be determined.

Based on the speed 3> the permissible axial force 4> can be read as a function of the duty cycle (diagram legend). With a duty cycle of 10% and a speed of **300** rpm 3 a permissible axial force of **100** N 4 can be determined

