DIN 32711-2:2023-09 (E)

Shaft-hub-connection - Polygon profile P3G - Part 2: Calculation and dimensioning

Contents

Page

Foreword ... 3

1 Scope ... 4

2 Normative references ... 4

3 Terms and definitions ... 4

4 Symbols and abbreviations ... 4

5 Calculation principles ... 5
5.1 Dimensioning and calculation ... 5
5.1.1 General ... 5
5.1.2 Shaft stresses ... 5
5.1.3 Surface pressure in the connection ... 6
5.1.4 Tensile stress in the hub ... 6
5.2 Recommended parameters for calculating dimensions ... 7

Annex A (informative) **Examples of calculations** ... 8

Bibliography ... 10

Figures

Figure 1 — Minimum hub wall thickness *s* on a P3G polygon hub ... 7

Figure A.1 — Diagram showing loads ... 8