DIN 8191:2022-03 (E)

Tooth form for chain sprockets for inverted tooth chains complying with DIN 8190 - Dimensions of profile

Contents

Page

Foreword ... 3
1 Scope ... 5
2 Normative references ... 5
3 Terms and definitions ... 5
4 Symbols ... 5
5 Dimensions, designation ... 6
6 Calculation of the gearing dimensions, dimensions of the cutter basic rack tooth profile ... 8
7 Gearing tolerances ... 12
8 Material ... 12
9 Sprocket bore ... 12
10 Marking ... 12
Bibliography ... 13

Figures

Figure 1 — Type A sprocket for a tooth chain with outer guide ... 7
Figure 2 — Type B sprocket for a tooth chain with inner guide ... 7
Figure 3 — Gearing dimensions ... 8

Tables

Table 1 — Gearing width b_A ... 7
Table 2 — Gearing width b_B ... 7
Table 3 — Dimensions of the tooth width profile ... 8
Table 4 — Auxiliary parameters ... 9
Table 5 — Tip diameter d_a and base tangent length W ... 10