

Table of Contents

1. General Information	2
2. Milling Methods	3
2.1 Manufacturing processes	3
2.2 Cutting processes	3
2.3 Material removal processes	4
2.4 Milling processes	4
3. Fundamental Principles	5
3.1 The motions on a milling machine	5
3.2 Cutting edge geometry	7
3.3 Tool wear	9
3.4 Determining machining parameters	11
4. Milling	18
4.1 Milling processes according to DIN 8589	18
4.2 Milling machine types	24
4.3 Milling machine design	27
4.4 Milling tools	30
4.5 Clamping and aligning the workpieces	41
4.6 Tool holding fixtures	50
4.7 Milling with the dividing head.....	55
4.8 General guidelines regarding occupational safety	59
4.9 Environmental protection/energy efficiency	60
4.10 Exercises with solutions	61
5. Recommended Reading	63