

UNIMILL for Prototype and Small-Batch Bevel Gear Manufacturing

Hermann J. Stadtfeld

Introduction

The manufacturing of spiral bevel and hypoid gears can be conducted in several ways. The following methods are commonly known:

- A. Face hobbing with a circular face cutter that rotates while the work rotates in the opposite direction (continuous indexing).
- B. Face hobbing with tapered hob (peripheral cutter) that rotates while the work rotates as well (continuous indexing).
- C. Planing method with one or two tools that move linearly, while the work either is performing a roll rotation or a combination of roll rotations and an additional rotation for a spiral-shaped flank line (single indexing).
- D. Face milling with circular face cutter that rotates while the generating gear is not rotating, the work only performs a roll, but no indexing motion (single indexing).
- E. Universal 5-axis milling with pencil-shaped end mill or disk-shaped cutter (single slot manufacturing).

Methods A through D are well known and have been performed for more than 70 years. Method E became available with the possibility to enter complex free-form surfaces into the control of 5-axis universal milling machines. While the manufacturing time is between 10 and 100 times that of the processes A through D, the accuracy might generally be lower than that of the dedicated machines used to perform methods A through D. The advantage of 5-axis bevel gear machining is the flexibility; no special cutting tool is required and the bevel gear size is only limited by the size of the 5-axis machines available (Refs. 1–2).

Five-axis machining uses a spherical- or cylindrical-shaped mill to shape the flank surfaces. The data post-processing uses flank surface points and, in some cases, normal vectors to calculate the machining paths. The machining paths must be close enough to achieve enveloping paths that approximate the target surface with sufficient precision. The orientation of the enveloping paths (flats) is linked only to the machining strategy in order to minimize the machining time and the deviation from the target flank surface. It has to be considered in manufacturing of bevel gears with machining centers that a generated bevel gear tooth consists of up to 7 different areas:

1. Flank surface — first flank
2. Flank surface — second flank
3. Root fillet radius — below first flank
4. Root fillet radius — below second flank
5. Slot bottom — between both root fillet radii
6. Undercut section — below first flank and above root fillet
7. Undercut section — below second flank and above root fillet

The true profile and lead generation, according to the gearing law, only works within the flank surface and in the root fillet area, i.e., — from the flank transition down towards the root bottom, ending in the area of the 30° tangent point. Depending on the severity and character of the undercut, it is impossible to generate this area precisely with correct normal vectors. Also

the slot bottom — connecting the fillet region from the 30° tangent through the deepest bottom land to the opposite side root radius at the 30° tangent — cannot be generated using the common surface-generating algorithm for bevel and hypoid gears.

In regards to face-hobbed gears with extended toe or heel ends, it is also equally difficult or impossible to generate the extension of the flank surface, which in many cases does not consist of a true flank surface according to the gearing law. One typical example is slotted nose pieces that represent flank surface extension far behind the heel of the pinion to be clamped in front of the nose piece. However, those problem areas are formed with a face cutter head that represents one tooth of the generating gear. The generating gear (Fig. 1) will form them as: an undercut section, as root bottom area, or as enveloping forms cuts beyond the theoretical face width. If the undercut, root bottom area, etc. are formed by the generating gear, then it is assured that rolling without disturbances between pinion and gear can occur. Undercut, for example, is not an "evil" caused by the manufacturing process; rather, it is a geometrical necessity in order to assure correct rolling without interferences (Ref. 3).

But the solution for the problem areas is not a substitution of those sections with plane, cylindrical or parabolic surface elements, because of the risk of either weakening the teeth or causing rolling disturbances.

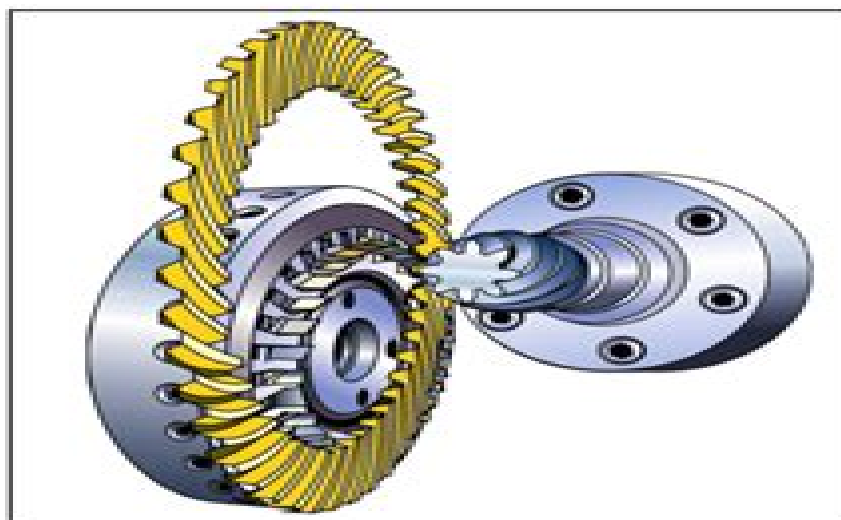


Figure 1 Face cutter representing one tooth of a generating gear.

Gear Hobbing Indexing Gear Calculation Manual

Tobias Bleicker

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Tool and Manufacturing Engineers Handbook: Machining Thomas J. Drozda, 1983-05-02 Part of the renowned Tool and Manufacturing Engineers Handbook Series the Machining Vol 1 helps you apply cost effective techniques to achieve the best results for over 100 traditional and nontraditional machining processes Chapters include Principles of Metalcutting and Machinability Tolerance Control Cutting Tool Materials Sawing Broaching Planing Shaping and Slotting Turning and Boring Milling Grinding Threading Gear and Spline Production Nontraditional Machining Machine Loading and Unloading Machine Rebuilding and much more *Machining Processes and Machines* Zainul Huda, 2020-12-14 Machining is one of the eight basic manufacturing processes This textbook covers the fundamentals and engineering analysis of both conventional and advanced non traditional material removal processes along with gear cutting manufacturing and computer numerically controlled CNC machining The text provides a holistic understanding of machining processes and machines in manufacturing it enables critical thinking through mathematical modeling and problem solving and offers 200 worked examples calculations and 70 multiple choice questions on machining operations as well as on CNC machining with the eBook version offered in color This unique book is equally useful to both engineering degree students and production engineers practicing in the manufacturing industry Tool Engineers Handbook American Society of Tool and Manufacturing Engineers, 1959 Gear Hobbing, Shaping, and Shaving Robert Endoy, 1990 Everyone involved in gear design and production will benefit from the practical guidelines in this book Refer to it on the job for tips on process selection process planning cycle time formulas and calculations speeds and feeds and volume considerations This book also includes many examples to make your process planning and cycle time estimating easier *Gear Calculations and Cutting* International Correspondence Schools, 1928

Gear Cutting Tools Stephen P. Radzevich, 2024-12-30 This new edition of Gear Cutting Tools has been updated with revised chapters and illustrations as well as additional new material with the aim to provide a systematic and comprehensive discussion on modern designs kinematics and cutting geometry of gear cutting tools This book presents the DG K based method of surface generation a practical mathematical method for designing gearcutting tools with optimal parameters The text addresses the evolution of gear cutting tools and scientific classification for all types of gear machining meshes before discussing optimal cutting tool designs Designs currently used and those being planned are covered and the approach allows for the development of scientific predictions and optimal designs Solutions appear in analytical form and or graphical form with a wealth of new figures added and new appendices offer additional data for readers This is an essential reading for engineers who work in the field of gear cutting especially those involved in the manufacturing of autos aircraft agriculture machines and metal cutting machines This book would also be relevant to various mechanical engineering courses for graduate students such as machine elements machine and mechanism science and theory of machines and mechanisms ,

Machinery, 1917 **Index of Patents Issued from the United States Patent Office** United States. Patent

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Table of Contents Gear Hobbing Indexing Gear Calculation Manual

1. Understanding the eBook Gear Hobbing Indexing Gear Calculation Manual
 - The Rise of Digital Reading Gear Hobbing Indexing Gear Calculation Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Gear Hobbing Indexing Gear Calculation Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Gear Hobbing Indexing Gear Calculation Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gear Hobbing Indexing Gear Calculation Manual
 - Personalized Recommendations
 - Gear Hobbing Indexing Gear Calculation Manual User Reviews and Ratings

- Gear Hobbing Indexing Gear Calculation Manual and Bestseller Lists
- 5. Accessing Gear Hobbing Indexing Gear Calculation Manual Free and Paid eBooks
 - Gear Hobbing Indexing Gear Calculation Manual Public Domain eBooks
 - Gear Hobbing Indexing Gear Calculation Manual eBook Subscription Services
 - Gear Hobbing Indexing Gear Calculation Manual Budget-Friendly Options
- 6. Navigating Gear Hobbing Indexing Gear Calculation Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Gear Hobbing Indexing Gear Calculation Manual Compatibility with Devices
 - Gear Hobbing Indexing Gear Calculation Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gear Hobbing Indexing Gear Calculation Manual
 - Highlighting and Note-Taking Gear Hobbing Indexing Gear Calculation Manual
 - Interactive Elements Gear Hobbing Indexing Gear Calculation Manual
- 8. Staying Engaged with Gear Hobbing Indexing Gear Calculation Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gear Hobbing Indexing Gear Calculation Manual
- 9. Balancing eBooks and Physical Books Gear Hobbing Indexing Gear Calculation Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gear Hobbing Indexing Gear Calculation Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gear Hobbing Indexing Gear Calculation Manual
 - Setting Reading Goals Gear Hobbing Indexing Gear Calculation Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gear Hobbing Indexing Gear Calculation Manual
 - Fact-Checking eBook Content of Gear Hobbing Indexing Gear Calculation Manual
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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