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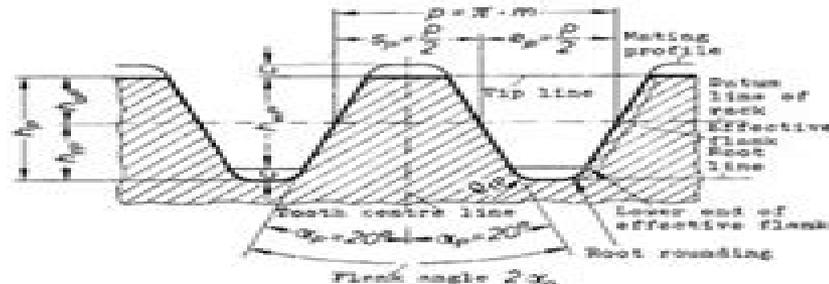
Basic Rack  
of Cylindrical Gears with Involute Teeth  
for General and Heavy Engineering

DIN  
867

Bezugsprofil für Stirnräder (Zylinderräder) mit Evolventenverzahnung  
für den allgemeinen Maschinenbau und den Schwermaschinenbau

The basic rack according to this Standard should preferably be used for cylindrical gears of module  $m = 1$  mm to 30 mm.  
For connection with the standard ISO 33-1974 issued by the International Organization for Standardization (ISO), see Explanations.

Basic rack of involute teeth (with mating profile)



1. The basic rack of a cylindrical gear is the normal section through the tooth system of a gear of infinitely large diameter (reference rack). The mating profile is the symmetrical counterpart of the rack, with mirror-image symmetry (see also, referred through half a pitch).
2. The dimensions of the basic rack are nominal dimensions which are stated on the datum line of the rack, or originate from it.
3. The basic rack of cylindrical gears with involute teeth has straight flanks. The tip line and the root line are straight lines parallel to the datum line of the rack.
4. The flanks of the basic rack form with the normals to the datum line of the rack the rack angle  $\alpha_f = 20^\circ$ .  
The flank angle  $2\alpha_f$  is bisected by the tooth centre line perpendicular to the datum line of the rack.
5. The basic rack has the  
pitch  $p = \pi \cdot m$   
and the  
module  $m = p/\pi$ .  
Pitch and module are lengths, to be quoted in mm, which determine the basic rack and the corresponding tooth systems. The linear dimensions of the basic rack are given as multiples of the module.
6. The datum line of the rack intersects the basic rack in such a way that, on it, thickness of tooth - space width = half pitch, i.e., that  
 $b_{ty} = s_{ty} = p/2$ .
7. The rack height  $h_{ry}$  is divided by the datum line of the rack into the tip height  $h_{ty}$  and the root height  $h_{rp}$ . It is  
 $h_{ty} = h_a + m + c$   
 $h_{ry} = h_a + m$   
 $h_{rp} = h_r + m + c$ .
8. The crest clearance  $c$  is  $0.1 \cdot m$  to  $0.3 \cdot m$ , and in special cases up to  $0.4 \cdot m$ . The crest clearance depends on the gear-cutting tools and on any special requirements involved.
9. The effective flank of the basic rack is determined by the common tooth height  
 $h_{ef} = h_a + m$ .
10. The root rounding can start from the lower end of the effective flank. The shape of the rounding depends on the manufacturing process.

Continued on page 2  
Explanations on page 2

# Din 867 Standard

**Albert Charles Parkinson, W. H.  
Dawney**



## Din 867 Standard :

**Machinery's Handbook Pocket Companion** Chris McCauley,2000 An extremely concise yet completely authoritative ready reference which draws its contents largely from Machinery's Handbook

**World Metric Standards for Engineering** Knut O. Kverneland,1978

**Design and Application of Small Standardized Components Data Book** 757 Frank Buchsbaum,Ferdinand Freudenstein,Peter J. Thornton,Stock Drive Products (Firm),1983

National Bureau of Standards Miscellaneous Publication ,1966

*Dimensional Metrology, Subject-classified with Abstracts Through 1964* ,1966

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**BOSCH Automotive Handbook** Robert Bosch GmbH,2004 BOSCH Automotive Handbook Sixth Edition the latest update to the world's definitive automotive technology reference is expanded by twenty five percent and covers the entire range of modern passenger car and commercial vehicle systems Detailed enough to address complex technical issues yet small enough to take everywhere it is the reference of choice for designers engineers mechanics students and enthusiasts New topics include Analog and digital signal transmission Coating systems Development methods and application tools for electronic systems Diagnosis Emission reduction systems Engine lubrication Environmental management Fleet management Fluid mechanics Frictional joints Hydrostatics Mechatronics Mobile information systems Multimedia systems Positive or form closed joints Sound design Truck brake management as a platform for truck driver assistance systems Vehicle wind tunnels Workshop technology

*NBS Special Publication* ,1918

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Automotive Handbook H. Bauer (Dipl.-Ing.),2000 Information on all aspects of vehicle engineering Includes charts diagrams Basic principles upwards

**Gear Metrology** C. A. Scoles,R. Kirk,1969

**Gears, Gear Production and Measurement** Albert Charles Parkinson,W. H. Dawney,1948

**Engineers' Digest (American Edition)** ,1944

**DUBBEL - Handbook of Mechanical Engineering** B.J. Davies,Wolfgang Beitz,Karl-Heinz Küttner,2013-06-29 DUBBEL's Handbook of Mechanical Engineering has provided generations of German speaking engineers with a comprehensive source of guidance and reference on which they can rely throughout their professional lives The key sections of this standard work are now available for the first time in English Each subject is discussed in detail and supported by numerous figures and tables DIN standards are retained throughout but ISO equivalents are given where possible The text offers a concise but detailed and authoritative treatment of the topics with full references Contents Mechanics Strength of Materials Thermodynamics Engineering Design Hydraulic and Pneumatic Power Transmission Components of Thermal Apparatus Machine Dynamics and Components Manufacturing Process and Systems

Handbook of Precision Engineering: Fundamentals A. Davidson,1971

**Industrial Standardization** ,1951

**Mechanical Engineering** ,1968

Machinery's Handbook Erik Oberg,Christopher J. McCauley,2012 Machinery's Handbook has been the most popular reference work in metalworking design engineering and manufacturing facilities and in technical schools and colleges throughout the world for nearly 100 years It is universally

acknowledged as an extraordinarily authoritative comprehensive and practical tool providing its users with the most fundamental and essential aspects of sophisticated manufacturing practice The 29th edition of the Bible of the Metalworking Industries contains major revisions of existing content as well as new material on a variety of topics It is the essential reference for Mechanical Manufacturing and Industrial Engineers Designers Draftsmen Toolmakers Machinists Engineering and Technology Students and the serious Home Hobbyist New to this edition micromachining expanded material on calculation of hole coordinates an introduction to metrology further contributions to the sheet metal and presses section shaft alignment taps and tapping helical coil screw thread inserts solid geometry distinguishing between bolts and screws statistics calculating thread dimensions keys and keyways miniature screws metric screw threads and fluid mechanics Numerous major sections have been extensively reworked and renovated throughout including Mathematics Mechanics and Strength of Materials Properties of Materials Dimensioning Gaging and Measuring Machining Operations Manufacturing Process Fasteners Threads and Threading and Machine Elements The metric content has been greatly expanded Throughout the book wherever practical metric units are shown adjacent to the U S customary units in the text Many formulas are now presented with equivalent metric expressions and additional metric examples have been added The detailed tables of contents located at the beginning of each section have been expanded and fine tuned to make finding topics easier and faster The entire text of this edition including all the tables and equations has been reset and a great many of the figures have been redrawn The page count has increased by nearly 100 pages to 2 800 pages Updated Standards Machinery's Handbook for Machine Shop and Drafting-room Erik Oberg, Franklin D. Jones, 1949 Compendium of tables standards and data on every operation relating to machinery **Engineers' Digest** ,1944

This book delves into Din 867 Standard . Din 867 Standard is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Din 867 Standard , encompassing both the fundamentals and more intricate discussions.

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