

Involute Splines Testing and Gauges for Side Fit

DIN
5480
Part 15

Zahnwellen-Verbindungen mit Evolventenflanken; Prüfung und Lehren bei Flankenextrudierung

Dimensions in mm

Contents

	Page		Page
<u>1. Symbols and denominations</u>	1	<u>2. Gauges</u>	2
<u>2. General</u>	2	2.1. Blank dimensions of gauges	2
<u>3. Testing of external and internal splines</u>	2	2.2. Go gauges	2
3.1. Principle of testing	2	2.3. Not go gauges	2
3.2. Testing of the maximum material conditions with Go gauges	2	2.4. Master gauges	2
3.3. Testing of the minimum material conditions	3	2.5. Indicators	2
3.4. Actual measurement in place of testing with Go gauges	4	2.6. Tolerances and testing of gauges	2
		2.7. Designation and marking of gauges	2
		<u>3. Calculation of the tooth thickness and the test measurements of gauges</u>	3
		3.1. Rule for calculation	3
		3.2. Example of calculation	3

1. Symbols and denominations

b_1	face width
b_2	width of plug gauge
b_3	see Figure 9 and Table 2
b_4 to b_8	see Figure 10 and Table 3
b_9	width of ring gauge
b_{10}	measured width, see Figure 12
d	pitch diameter
d_{e1}	major diameter - external spline
d_{e2}	minor diameter - internal spline
d_{f1}	minor diameter - external spline
d_{f2}	major diameter - internal spline
D_m	ball or pin diameter
d_s	reference diameter
d_{sr1}	form diameter - external spline
d_{sr2}	form diameter - internal spline
d_7 to d_{10}	see Figure 8 and Table 1
d_{11} to d_{13}	see Figure 9 and Table 2
d_{14} to d_{20}	see Figure 10 and Table 3
d_{21} to d_{23}	see Figure 11
e_2	nominal space width of internal spline
f_p	adjacent pitch variation
f_{ms}	tooth alignment variation
g	length of handle
l_1 , l_2	length of plug gauge
l_3	length of pilot
m	module

p	pitch at pitch circle
s_1	nominal tooth thickness of the external spline (pitch)
z	number of teeth
A_{es}	upper space width allowance
A_{ei}	lower space width allowance
A_{eiE}	lower space width allowance (for actual measurement)
A_{se}	upper tooth thickness allowance
A_{seE}	upper tooth thickness allowance (for actual measurement)
A_{si}	lower tooth thickness allowance
D_1 , D_2	see Figure 12 and Table 4
F_r	total profile variation
F_p	cumulative pitch variation
F_r	radial run-out
IQ	quality of gauge
M_e	test dimension over pins for external splines
M_i	test dimension between pins for internal splines
T	total tolerance (Go-gauge)
T_E	machining tolerance (for actual measurement)
w	base tangent length
α	pressure angle
α_H	pressure angle at pin centre point
$\text{inv } \alpha$	involute α
γ	space width semi-angle

Continued on pages 2 to 11
Explanations on page 12

No guarantee can be given in respect of this translation

In all cases the latest German language version of this standard shall be taken as authoritative

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Table of Contents **Din 5480 Pdf Scribd**

1. Understanding the eBook **Din 5480 Pdf Scribd**
 - The Rise of Digital Reading **Din 5480 Pdf Scribd**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Din 5480 Pdf Scribd**
 - 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 **Din 5480 Pdf Scribd**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Din 5480 Pdf Scribd**
 - Personalized Recommendations
 - **Din 5480 Pdf Scribd** User Reviews and Ratings
 - **Din 5480 Pdf Scribd** and Bestseller Lists

5. Accessing Din 5480 Pdf Scribd Free and Paid eBooks
 - Din 5480 Pdf Scribd Public Domain eBooks
 - Din 5480 Pdf Scribd eBook Subscription Services
 - Din 5480 Pdf Scribd Budget-Friendly Options
6. Navigating Din 5480 Pdf Scribd eBook Formats
 - ePub, PDF, MOBI, and More
 - Din 5480 Pdf Scribd Compatibility with Devices
 - Din 5480 Pdf Scribd Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Din 5480 Pdf Scribd
 - Highlighting and Note-Taking Din 5480 Pdf Scribd
 - Interactive Elements Din 5480 Pdf Scribd
8. Staying Engaged with Din 5480 Pdf Scribd
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Din 5480 Pdf Scribd
9. Balancing eBooks and Physical Books Din 5480 Pdf Scribd
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Din 5480 Pdf Scribd
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Din 5480 Pdf Scribd
 - Setting Reading Goals Din 5480 Pdf Scribd
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Din 5480 Pdf Scribd
 - Fact-Checking eBook Content of Din 5480 Pdf Scribd
 - 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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