



External inside spline 01 (Zapfzelle 3 DIN 9611)		
no. of teeth	z	20
module	m	2.16667
pressure angle	$\alpha$	30 °
tip diameter	$d_{a1}$	40.660
root form diameter	$d_{f11}$	40.200
root diameter	$d_{f1}$	39.210
tooth thickness	$s_{a1}$	3.168
span measurement (mm)	$w_1$	21.891
Pin diameter	$D_M$	4.000
Measurement over pins	$M_1$	40.160

Internal inside spline 02 (Nabe 3 DIN 9611)		
no. of teeth	z	20
module	m	2.16667
pressure angle	$\alpha$	30 °
root diameter	$d_{f2}$	40.100
root form diameter	$d_{f12}$	41.305
tip diameter	$d_{a2}$	40.305
tooth gap	$e_{a2}$	3.372
Pin diameter	$D_M$	3.750
Measurement between pins	$M_2$	39.600

DIMENSIONS			1	2
pitch circle diameter	$d$	mm	42.330	42.330
base circle diameter	$d_b$	mm	38.960	38.960
addendum	$a$ add	mm	0.735	0.660
backlash	$a$ p	mm	0.004	0.004
profile shift coeff.	$x$		-0.00429	-0.01919
profile shift	$x$ mm	mm	-0.105	-0.041
tooth depth	$s$	mm	2.340	2.476
tooth thickness	$s_t$	mm	3.168	3.276
space width	$e_t$	mm	3.480	3.372
normal top land	$a$ an	mm	2.404	2.044

Parameters of tool			1	2
addendum coeff. of tool	$ha^*_{G1mm}$		0.305	0.502
addendum coeff. of tool	$ha^*_{G2mm}$		0.074	0.646
fillet radius of tool	$r_{filletG1mm}$		0.300	0.300
dedendum of tool	$h^*_{F0}$	mm	0.814	1.105
addendum of tool	$h^*_{aF0}$	mm	1.405	1.372
fillet radius of tool	$r_{filletF0}$	mm	0.025	0.025

# Metric Spline Shaft Dimensions

**International Organization for  
Standardization, International  
Electrotechnical Commission**



## **Metric Spline Shaft Dimensions :**

*Guide to the Use of Tables and Formulas in Machinery's Handbook, 27th Edition* John Milton Amiss, Franklin D. Jones, Henry H. Ryffel, Christopher J. McCauley, Riccardo Heald, 2004 Annotation Celebrating its 90th year the newest edition of The Bible in its field brings together volumes of knowledge information and data gathered revised and improved upon from experts throughout the mechanical industries Extraordinarily comprehensive yet easy to use since it premiered Machinery s Handbook provides mechanical and manufacturing engineers designers draftsmen toolmakers and machinists with a broad range material from the very basic to the more advanced It has always and continues to provide industry fundamentals and standards while it leaps ahead into the 21st century with material reflecting technological advances and offering vast editorial improvements making the 27 Edition the best tool ever Industrial Standardization ,1947 **AASHTO Load and Resistance Factor Design Movable Highway Bridge Design Specifications** American Association of State Highway and Transportation Officials. Subcommittee on Bridges and Structures, 2007 **Index of Specifications and Standards** ,2005

**Design Practices** SAE Transmission/Axle/Driveline Forum Committee, 2012-05-22 Since the mid 20th Century automatic transmissions have benefited drivers by automatically changing gear ratios freeing the driver from having to shift gears manually The automatic transmission s primary job is to allow the engine to operate in its speed range while providing a wide range of output vehicle speeds automatically The transmission uses gears to make more effective use of the engine s torque and to keep the engine operating at an appropriate speed For nearly half a century Design Practices Passenger Car Automatic Transmissions has been the go to handbook of design considerations for automatic transmission industry engineers of all levels of experience This latest 4th edition represents a major overhaul from the prior edition and is arguably the most significant update in its long history In summary the authors have put together the most definitive handbook for automatic transmission design practices available today Virtually all existing chapters have been updated and improved with the latest state of the art information and many have been significantly expanded with more detail and design consideration updates most notably for torque converters and start devices gears splines chains bearings wet friction one way clutch pumps seals and gaskets and controls All new chapters have also been added including state of the art information on Lubrication Transmission fluids Filtration Contamination control Finally details about the latest transmission technologies including dual clutch and continuously variable transmissions have been added Machine Design with CAD and Optimization Sayed M. Metwalli, 2021-04-08 MACHINE DESIGN WITH CAD AND OPTIMIZATION A guide to the new CAD and optimization tools and skills to generate real design synthesis of machine elements and systems Machine Design with CAD and Optimization offers the basic tools to design or synthesize machine elements and assembly of prospective elements in systems or products It contains the necessary knowledge base computer aided design and optimization tools to define appropriate geometry and material selection of machine elements A comprehensive text for each element includes a chart

excel sheet a MATLAB program or an interactive program to calculate the element geometry to guide in the selection of the appropriate material The book contains an introduction to machine design and includes several design factors for consideration It also offers information on the traditional rigorous design of machine elements In addition the author reviews the real design synthesis approach and offers material about stresses and material failure due to applied loading during intended performance This comprehensive resource also contains an introduction to computer aided design and optimization This important book Provides the tools to perform a new direct design synthesis rather than design by a process of repeated analysis Contains a guide to knowledge based design using CAD tools software and optimum component design for the new direct design synthesis of machine elements Allows for the initial suitable design synthesis in a very short time Delivers information on the utility of CAD and Optimization Accompanied by an online companion site including presentation files Written for students of engineering design mechanical engineering and automotive design Machine Design with CAD and Optimization contains the new CAD and Optimization tools and defines the skills needed to generate real design synthesis of machine elements and systems on solid ground for better products and systems

**Specifications and Drawings of Patents Issued from the United States Patent Office** United States. Patent Office,1908 *Department Of Defense Index of Specifications and Standards Alphabetical Listing Part I* July 2005 , **Fluid Power Systems** International Organization for Standardization,1985 **Industrial Standardization** ,1947 *MVMA Specifications Form - Passenger Car; Oldsmobile Ninety-Eight Regency and Ninety-Eight Regency Brougham.* 1985 ,1984 **Mechanical Design Engineering Handbook** Peter Childs,Marc Masen,2024-09-30 Mechanical Design Engineering Handbook Third Edition discusses the mechanical engineering skills that are essential to power generation production and transportation Machine elements such as bearings shafts gears belts chains clutches and belts represent fundamental building blocks for a wide range of technology applications The aim of this handbook is to present an overview of the design process and to introduce the technology and selection of specific machine elements that are fundamental to a wide range of mechanical engineering design applications This book includes detailed worked examples for the design and application of machine elements and over 600 images with line drawings complemented by solid model illustrations to aid understanding of the machine elements and assemblies concerned The context for engineering and mechanical design is introduced in the first chapter which also presents a blended design process incorporating principles from systematic and holistic design as well as practical project management Provides a comprehensive treatment of machine elements including bearings gears shafts clutches brakes belts chains springs wire rope hydraulics and pneumatics Presents the design and selection of flow charts Includes over 600 illustrations presenting the technologies and their implementation Covers detailed worked examples throughout *Machinery's Handbook Guide* Franklin D. Jones,Nick Jones,John M. Amiss,Robert E. Green,Ryffel,Christopher J. McCauley,1996-04 Illustrates through hundreds of examples solutions and questions how to take full advantage of the Handbook to solve the

types of problems typically encountered in drafting rooms machine shops and on the factory floor Allows you to quickly become more thoroughly familiar with the vast range of contents found in the Handbook By practicing the many practical techniques explained in this Guide you will be able to obtain the solution or information needed to resolve on the job problems

**Engineering Tolerances** Hugh Graham Conway,1966      **Thomas' Register of American Manufacturers**,2003      *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      **Kwic Index of International Standards** International Organization for Standardization,International Electrotechnical Commission,1991      *Design Practices--passenger Car Automatic Transmissions* ,1994 First published in 1962 with a second edition in 1973 and a revised second edition in 1988 as AE 5 A compendium of the latest current practices of transmission engineering for both experienced and novice transmission design engineers Design calculations are included wherever possible This ed      Machinery ,1945      Specifications and Drawings of Patents Relating to Electricity Issued by the U. S. ,1885

Metric Spline Shaft Dimensions : Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. Metric Spline Shaft Dimensions : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Metric Spline Shaft Dimensions : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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