

60° centre holes

Types R, A, B, and C

DIN

332

Part 1

Zentrierbohrungen 60°, Form R, A, B und C

Supersedes November 1973 edition.

In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

See Explanatory notes for connection with International Standards ISO 866 – 1975, ISO 2540 – 1973, and ISO 2541 – 1972 published by the International Organization for Standardization (ISO).

1 Scope and field of application

Dimensions in mm

This standard applies to unthreaded 60° centre holes for general engineering purposes.

Centre holes of type R, type A up to and including size 12,5 mm × 26,5 mm, and type B up to and including 10 mm × 21,2 mm are made with type R, A or B centre drills as specified in DIN 332.

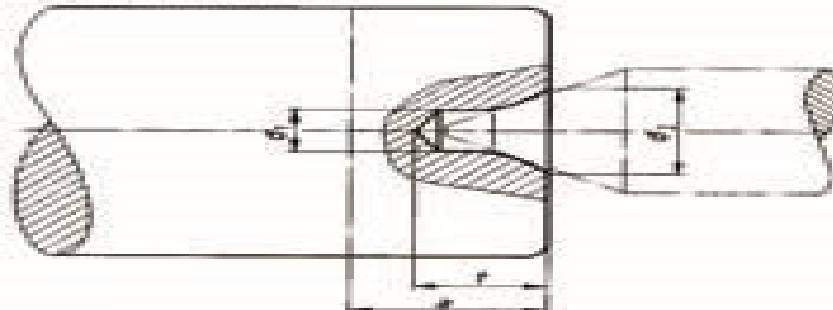
Type A centre holes above size 12,5 mm × 26,5 mm, type B centre holes above size 10 mm × 21,2 mm and type C centre holes are normally manufactured by means of two or more tools in different, successive operations. For the centring portion of type C centre holes up to and including size 12,5 mm × 26,5 mm or 10 mm × 21,2 mm, however, type A or type B centre drills as specified in DIN 332 may be used, since the centring portion is the same for types A, B and C.

Unspecified details of the centre holes made with centre drills result from the shape of the centre drill (see Explanatory notes).

See DIN 332 Part 2 for the determination of d_2 for a workpiece mass up to 28 000 kg.

2 Dimensions, designation

2.1 Type R, radius form, without protective chamfer



Designation of a radius form 60° centre hole without protective chamfer (R), with diameter $d_1 = 4$ mm and diameter $d_2 = 8,5$ mm:

Centre hole DIN 332 – R 4 × 8,5

Table 1.

d_1	d_2	r ¹⁾ Minimum	a ²⁾	d_1	d_2	r ¹⁾ Minimum	a ²⁾
0,5	1,06	1,4	2	● 3,15	6,7	5,8	9
0,8	1,7	1,5	2,5	● 4	8,5	7,4	11
● 1	2,12	1,9	3	● 5	10,6	9,2	14
● 1,25	2,65	2,3	4	● 6,3	13,2	11,4	18
● 1,6	3,35	2,9	5	● 8	17	14,7	22
● 2	4,25	3,7	6	● 10	21,2	18,3	28
● 2,5	5,3	4,6	7	12,5	26,5	23,6	36

● These sizes are specified in ISO 2541 – 1972.

For ¹⁾ and ²⁾, see table 2.

Continued on pages 2 to 5

Din 332 1 Standard

EW Minium



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Einführung in die DIN-Normen Martin Klein, 2013-07-02 Das Buch führt umfassend in die DIN Normen und deren Anwendung ein. Es gliedert sich nach fertigungstechnischen und funktionalen Gesichtspunkten der Normen, bietet detaillierte Informationen und dient als Nachschlagewerk für Studium und Praxis. Damit stellt es für die Schwerpunkte Maschinenbau und Elektrotechnik Informationen aus erster Hand bereit, ohne die in Konstruktion und Fertigung nicht auszukommen ist. Zu zahlreichen Normen werden thematisch zugeordnete Informationen und Hinweise auf weitere den Stoff vertiefende Normen und Normungsliteratur gegeben und der Kontext zum europäischen und internationalen Normenwerk dargestellt.

Countersinking Handbook LaRoux K. Gillespie, 2008 Providing discussions of cutter material variations and options feeds speeds and coolants tool holders and applications this text discusses the side effects of countersinking including stress risers. It contains case histories practical tips and information to make process selection easier. **Technisches Zeichnen**

(39., überarbeitete und aktualisierte Auflage) Prof. Dr. Andreas Fritz, 2024-02-06 Der Hoischen Fritz bietet einen umfassenden Überblick über normgerechtes technisches Zeichnen darstellende Geometrie konstruktive Grundlagen und geometrische Produktspezifikation. Das regelmäßig neu aufgelegte Standardwerk begleitet seit Jahrzehnten Auszubildende, Fortbildungsteilnehmer und Studierende als erprobtes Lehr- und Arbeitsbuch. Technikern und Ingenieuren in der Praxis dient es als bewährtes Nachschlagewerk. In der 39. Auflage wurde der Inhalt hinsichtlich neuer Normen aktualisiert und erweitert. Neue Allgmeintoleranzen nach ISO 22081 und DIN 2769 neue Oberflächenspezifikation nach ISO 21920 Darstellungsnorm ISO 128 Spezifikation nicht formstabiler Bauteile nach ISO 10579 und Populationsspezifikation nach ISO 18391.

Leitfaden der DIN – Normen Klaus Günter Krieg, Wedo Heller, Gunter Hunecke, 2013-07-02 *Klein Einführung in die DIN-Normen* Martin Klein, 2013-03-09 Im DIN Deutsches Institut für Normung e.V. wird seit seiner Gründung im Jahr 1917 von den an der Normung interessierten Kreisen gemeinschaftlich die Vereinheitlichung von materiellen und immateriellen Gegenständen zum Nutzen der Allgemeinheit durchgeführt. Die Ergebnisse dieser Arbeiten werden in Deutschen Normen festgelegt. Normen fördern die Rationalisierung in Wirtschaft, Technik, Wissenschaft und Verwaltung. Sie dienen darüber hinaus der Sicherheit von Menschen und Sachen, dem Schutz der Umwelt sowie der Qualitätssicherung in allen Bereichen. Internationale Normen öffnen der Wirtschaft neue Märkte und Handelshemmnisse werden abgebaut. Die Normung ist in der Bundesrepublik Deutschland eine Aufgabe der Selbstverwaltung der an der Normung interessierten Kreise. Das DIN ist der runde Tisch, an dem sich Hersteller, Handel, Verbraucher, Handwerk, Dienstleistungsunternehmen, Wissenschaft, Staat, technische Überwachungsarbeit, jedermann, der ein Interesse an der Normung hat, zusammensetzen, um geber Gewerkschaften, den Stand der Technik zu ermitteln und unter Berücksichtigung neuer Erkenntnisse in Normen nieder der zentrale technische Regelsetzer in Deutschland. Ihm obliegt die Aufgabe, die deutschen Interessen in der internationalen und der europäischen Normung zur Geltung zu bringen. Die Wirtschaft und der Staat brauchen zur St

rkung des freien Welthandels harmonisierte Normen Hoischen - Technisches Zeichnen Andreas Fritz,2023-03-09 Das Standardwerk dient Auszubildenden Fortbildungsteilnehmenden und Studierenden als Lehr und Arbeitsbuch Technikerinnen und Technikern sowie Ingenieurinnen und Ingenieuren als informatives Nachschlagewerk Themen sind Grundlagen des normgerechten technischen Zeichnens darstellende Geometrie geometrische Produktspezifikation konstruktive Grundlagen Normung Normteile fertigungsgerechtes Gestalten und Bema en CAD CAM Beispiele Tests Die differenzierten Verzeichnisse helfen beim Bearbeiten von Aufgaben Erg nzungen und aktualisierte Inhalte aufgrund von Norm nderungen in der 38 Auflage Umfangreiche Darstellung der neuen Bema ungsnorm M glichkeit zur Spezifikation von berg ngen Anwendung von Materialbedingungen zur Toleranzoptimierung Assoziation von Bez gen und ein Ausblick auf die angek ndigten neuen Normen zur Allgemeintoleranz Der Hoischen bietet einen umfassenden berblick ber normgerechtes technisches Zeichnen darstellende Geometrie konstruktive Grundlagen und geometrische Produktspezifikation Das regelm ig neu aufgelegte Standardwerk begleitet seit Jahrzehnten Auszubildende Fortbildungsteilnehmende und Studierende als erprobtes Lehr und Arbeitsbuch Techniker innen und Ingenieur innen sch tzen es in der Praxis als bew hrtes Nachschlagewerk In der 38 Auflage wurde der Inhalt hinsichtlich neuer Normen aktualisiert und erweitert Umfangreiche Darstellung der neuen Bema ungsnorm M glichkeit zur Spezifikation von berg ngen Anwendung von Materialbedingungen zur Toleranzoptimierung Assoziation von Bez gen Ausblick auf die angek ndigten neuen Normen zur Allgemeintoleranz *Technisches Zeichnen* ausschuf Zeichnungen im Deutschen Normenausschuß,2013-04-17 *Product Lifecycle Management. Integrating Digital Technologies for Sustainability and Innovation* Pradorn Sureephong,Christophe Danjou,Abdelaziz Bouras,2025-07-09 This two volume set constitutes the refereed proceedings of the 21st IFIP WG 5.1 International Conference on Product Lifecycle Management PLM 2024 held in Bangkok Thailand during July 7-10 2024 The 64 full papers presented in this book were carefully reviewed and selected from 105 submissions PLM 2024 aims to integrate business approaches to the collaborative creation management and dissemination of product and process data throughout the extended enterprises that create manufacture and operate engineered products and systems Verordnungsblatt für Gross-Berlin Berlin (Germany : East),1960 *Böttcher/Forberg Technisches Zeichnen* Ulrich Kurz,Herbert Wittel,2011-08-22 Dieses bew hrte Lehrbuch zum normgerechten Technischen Zeichnen und zur Darstellenden Geometrie entstand in enger Zusammenarbeit mit dem Deutschen Institut für Normung Es ber cksichtigt die gesamte Breite der Darstellungsprobleme im Bereich des Maschinenbaus und der Elektrotechnik und legt hier Grundlagen die auch beim Zeichnen am Computer unentbehrlich sind Der B ttcher Forberg f hrt Auszubildende und Studierende von allgemeinen Ausf hrungsregeln ber bestimmte Darstellungsweisen hin zu speziellen Techniken beim Technischen Zeichnen er fasst Elemente angrenzender Fachgebiete zusammen und vermittelt Grundlagen des rechnergest tzten Zeichnens neu Ab sofort sind die L sungen zu zahlreichen wichtigen Aufgaben im B ttcher Forberg im Internet abrufbar wodurch das selbst ndige ben und Lernen ideal erg nzt wird

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Handbuch der Hartmetallwerkzeuge Walter Dawihl, Erich Dinglinger, 2013-03-08 Der 2. Band des Handbuches beschäftigt sich mit der Anwendung der Hartmetalle in Form komplizierter Werkzeuge und der Anwendung von Hartmetall für Sondergebiete. Dabei sind auf fast allen Gebieten industrieller Fertigung so viele Sondererfahrungen gesammelt worden, daß es angebracht erschien, das Gesamtgebiet von Spezialisten der einzelnen Gebiete bearbeiten zu lassen. Bei der engen Berührung zwischen Hartmetallwerkzeugen und der Anwendung von Industriediamanten haben wir es für richtig gehalten, auch dem Industriediamanten einen Platz im Rahmen dieses Bandes vorzubehalten. Wir möchten an dieser Stelle den Mitarbeitern an dem 2. Band für die gründliche und verständnisvolle Zusammenarbeit unseren Dank aussprechen. Wir hoffen, daß infolge dieser Arbeitsteilung der 2. Band den Erfahrungsstand bis etwa zum Jahre 1954 vermittelt. Mag auch er dazu beitragen, die Kenntnis von der Eigenart der Hartmetalle und ihren besonderen Einsatzbedingungen weiter zu verbreiten und zu vertiefen, damit auch das Hartmetall in den kommenden Jahren seinen Beitrag zur Verbesserung der sozialen Lebensbedingungen in vollem Umfang leisten kann. Illingen/Saar und Bremen, Oktober 1955. Die Herausgeber.

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Kunststoffe, 1962 **Werkzeugmaschinen - Grundlagen** Joachim Milberg, 2013-11-11 **Organisation in der Produktionstechnik** Walter Eversheim, 2013-12-14

Band 2 vermittelt die Grundkenntnisse über den Aufbau und die Organisation des Produktionsbereichs Konstruktion sowie die dort auszuführenden Aufgaben. Neben der Darstellung der grundlegenden Methoden, die in der Konstruktion Anwendung finden, werden Maßnahmen und Hilfsmittel für eine rationelle Bearbeitung der unterschiedlichen Aufgabenkomplexe im Konstruktionsbereich vorgestellt. Die Beschreibung der Möglichkeiten und notwendigen Voraussetzungen für den Einsatz der elektronischen Datenverarbeitung (EDV) zur Unterstützung der im Rahmen des Konstruktionsprozesses anfallenden Tätigkeiten bildet einen weiteren Schwerpunkt.

Maschinenbau für Elektrotechniker, 2013-03-09 In den ersten Semestern haben sich die Schüler mit dem Technischen Zeichnen und den Grundregeln des Konstruierens beschäftigt. Dieses Buch ermöglicht es ihnen, das zu Konstruierende auch zu berechnen. Dazu behandelt es die Mechanik in ihrem Grundaufbau, also die Statik, Reibung, Leistung usw., verbunden mit Elementen wie Schrauben, Federn und Lagern. Band 3 wird die Kinetik, Festigkeitslehre und Hydromechanik bringen. Meinen Dank für die Überlassung von Textteilen und Bildern aus den Bereichen Technische Mechanik Teil 1 bis 3 spreche ich hiermit meinen Kollegen DI E. Glauning und DI J. Sieghart aus. Besondere Hilfe hatte ich bei der Durcharbeitung des Textes und der

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 1 4 **DIN Taschenbuch** DIN Deutsches Institut für Normung,1963 *Rechnen an spanenden Werkzeugmaschinen. Ein*
Lehr- und Handbuch zum Gebrauch in Werkstatt, Büro und Schule Franz Riegel,2013-10-05 **Allgemeine Monatsschrift**
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