

## 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.

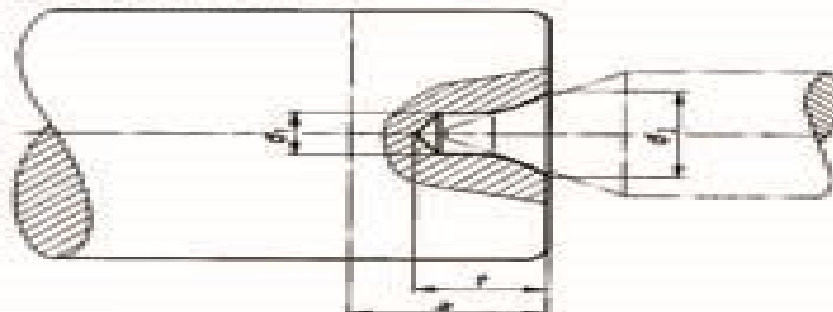
Type A centre holes above size 12,5 mm × 26,5 mm, type B centre holes above size 10 mm × 21,2 mm and type C centre holes are normally manufactured by means of two or more tools in different, successive operations. For the centring portion of type C centre holes up to and including size 12,5 mm × 26,5 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.

| $d_1$  | $d_2$ | $r$ <sup>1)</sup><br>Minimum | $a$ <sup>2)</sup> | $d_1$  | $d_2$ | $r$ <sup>1)</sup><br>Minimum | $a$ <sup>2)</sup> |
|--------|-------|------------------------------|-------------------|--------|-------|------------------------------|-------------------|
| 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 <sup>1)</sup> and <sup>2)</sup>, see table 2.

Continued on pages 2 to 5

# Din 332 1 Standard

**Pradorn Sureephong, Christophe  
Danjou, Abdelaziz Bouras**



## Din 332 1 Standard:

**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 Hoische 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 Stärkung 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 Bemaßen CAD CAM Beispiele Tests Die differenzierten Verzeichnisse helfen beim Bearbeiten von Aufgaben Ergänzungen und aktualisierte Inhalte aufgrund von Normänderungen in der 38. Auflage Umfangreiche Darstellung der neuen Bemaßungsnorm Möglichkeit zur Spezifikation von bergängen Anwendung von Materialbedingungen zur Toleranzoptimierung Assoziation von Bezügen und ein Ausblick auf die angekündigten neuen Normen zur Allgemeintoleranz Der Hoischen bietet einen umfassenden Überblick über normgerechtes technisches Zeichnen darstellende Geometrie konstruktive Grundlagen und geometrische Produktspezifikation Das regelmäßig neu aufgelegte Standardwerk begleitet seit Jahrzehnten Auszubildende Fortbildungsteilnehmende und Studierende als erprobtes Lehr und Arbeitsbuch Technikerinnen und Ingenieuren schätzen es in der Praxis als bewährtes Nachschlagewerk In der 38. Auflage wurde der Inhalt hinsichtlich neuer Normen aktualisiert und erweitert Umfangreiche Darstellung der neuen Bemaßungsnorm Möglichkeit zur Spezifikation von bergängen Anwendung von Materialbedingungen zur Toleranzoptimierung Assoziation von Bezügen Ausblick auf die angekündigten neuen Normen zur Allgemeintoleranz Technisches Zeichnen Ausschuß 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

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**Böttcher/Forberg Technisches Zeichnen** Ulrich Kurz, Herbert Wittel, 2011-08-22 Dieses bewährte Lehrbuch zum normgerechten Technischen Zeichnen und zur Darstellenden Geometrie entstand in enger Zusammenarbeit mit dem Deutschen Institut für Normung Es berücksichtigt 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 Böttcher/Forberg führt Auszubildende und Studierende von allgemeinen Ausführungsregeln über bestimmte Darstellungsweisen hin zu speziellen Techniken beim Technischen Zeichnen er fasst Elemente angrenzender Fachgebiete zusammen und vermittelt Grundlagen des rechnergestützten Zeichnens neu Ab sofort sind die Lösungen zu zahlreichen wichtigen Aufgaben im Böttcher/Forberg im Internet abrufbar wodurch das selbständige Benutzen und Lernen ideal erg

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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 ber den Aufbau und die Organisation des Produktionsbereichs Konstruktion sowie die dort auszuf hrenden Aufgaben Neben der Darstellung der grundlegenden Methoden die in der Konstruktion Anwendung finden werden Ma nahmen und Hilfsmittel f r eine rationelle Bearbeitung der unterschiedlichen Aufgaben komplexe im Konstruktionsbereich vorgestellt Die Beschreibung der M glichkeiten und notwendigen Voraussetzungen f r den Einsatz der elektronischen Datenverarbeitung EDV zur Unterst tzung der im Rahmen des Konstruktionsprozesses anfallenden T tigkeiten bildet einen weiteren Schwerpunkt **Maschinenbau für Elektrotechniker** ,2013-03-09 In den ersten Semestern haben sich die Sch ler mit dem Technischen Zeichnen und den Grund regeln des Konstruierens besch ftigt Dieses Buch erm glicht 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 f r die berlassung von Textteilen und Bildern aus den B chern Technische Mechanik Teil 1 bis 3 spreche ich hiermit meinen Kollegen DI E Glauninger und DI J Sieghart aus Besondere Hilfe hatte ich bei der Durcharbeitung des Textes und der

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**Monatsschrift für Literatur. Hrsg. von L. Ross und G. Schwetschke** Friedrich Harms, 1854 *Zur Geschichte der*  
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