

# Diameters of counterbores (holes) for cheese head, pan head and hexagon socket head cap screws

**DIN**  
**974**  
Part 1

Senkdurchmesser für Schrauben mit Zylinderkopf, Konstruktionsnische

This standard, together with DIN 974 Part 2, May 1991 edition, supersedes DIN 974, March 1972 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.

This standard should be used in conjunction with DIN 74 Part 2, May 1991 edition, valid until 30 April 1996.

Dimensions in mm.

## 1 Scope and field of application

This standard specifies diameters of counterbores (holes) for cheese head screws, pan head screws and hexagon socket head cap screws, in components with clearance holes.

## 2 Counterbore diameters

This standard specifies six series of counterbore diameters,  $d_1$ , as a function of screw type, of whether used with or without washer and, if used with washer, of the washer type. For information, the associated medium series clearance hole diameters, as specified in ISO 273, have been given in table 1.

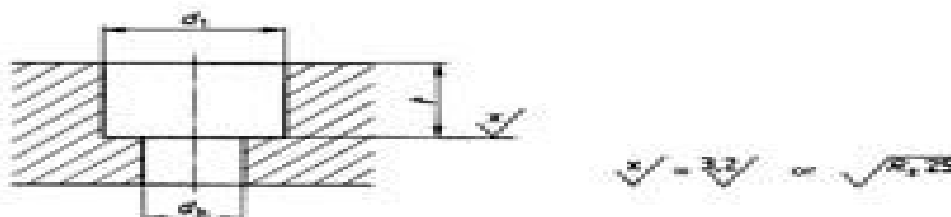


Figure 1. Counterbore

Where there is the risk of the edge of the hole being damaged by the screw underhead fillet, the edge shall be chamfered. This, however, will increase the pressure on the head bearing face.

Continued on pages 2 to 4

# Din 974 1 Standard

**Clifford Lane**



## **Din 974 1 Standard:**

**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 **The Massachusetts register**, 2013 **Fuels and Lubricants Handbook**, **Handbook of Mechanical Engineering** Heinrich Dubbel, 1994 Dubel's Handbook has provided generations of German speaking engineers with a comprehensive source of guidance and reference on which they can rely throughout their professional lives DLC Mechanical engineering Standards India, 1989 **The Numismatic Circular and Catalogue of Coins, Tokens, Commemorative & War Medals, Books & Cabinets** Spink & Son, 1921 Magazine of Standards, 1958 **Solid Edge 2019 Lagerungen** Hans-J. Engelke, 2019-02-19 Sie lieben Solid Edge auch neben den umfangreichen beruflichen CAD Aufgaben hat dieses Programm die Faszination für Sie nicht verloren Zu Ihren Aufgaben gehören Lagerungs Konstruktionen und 3D Drucke Dann habe ich hier genau das Richtige für Sie Das neue Buch einer von mir bei BOD herausgegebenen Buchreihe zu Solid Edge 2019 hat diesmal das Schwerpunktthema Funktions Lagereinheiten eine elementare Basis zum Erfahren beweglicher Bauteile Die Erfinder und Optimierer der Funktions Lagereinheiten stehen in einer Reihe mit der Entwicklung des Rades und dem Anwachsen des Wissens über die Lagermaterialien In 6 ausführlichen Buchkapiteln und 8 Supportkapitel mit fast 600 Seiten auf der Buch DVD werden das Zusammenspiel von Bauteilen Baugruppen Zeichnungsableitungen und mechanische Bewegungen mit den vielfältigen Konstruktionsmöglichkeiten der Software in Bezug auf Lagerungsbaugruppen behandelt In dem klaren Aufbau der Skizzen Bauteilen Formelemente und verschiedenen Lagerungsbaugruppen mit Einzelteilkonstruktionen und mechanischen Bewegungsanimationen lernt der Leser Solid Edge 2019 effizient einzusetzen In den Supportkapiteln 8-15 auf der Buch DVD befinden sich noch weitere komplette Lagerungs Baugruppen die den Buchrahmen sprengen würden außerdem gibt es im Kapitel 14 ein Ausflug in die Welt des 3D Drucks mit Solid Edge 2019 Durch den klar strukturierten visuellen Aufbau und mittels zahlreicher Tipps und Hinweise stellt sich der Lernerfolg sehr rasch ein so dass ein methodisches Arbeiten mit Solid Edge innerhalb weniger Stunden möglich ist hier wird auch besonders auf die neuen Programmelemente und Befehle eingegangen Das Buch ist so aufgebaut das auch mit älteren Solid Edge Versionen hier insbesondere Solid Edge ST6 bis ST10 mit Einschränkungen die Lerninhalte dieses Buches abzuarbeiten sind Verschiedene Lagerungs Baugruppen im Buch und als

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