◆.幾何學公差的種類和記號 Type and mark(s) of geometric tolerance

Г	公差的種類 Type of tolerance	記號 Mark	公差的域的定義 Definition of tolerance zone	圓示例的解釋 Note to illustration
形狀公差 形狀公子	真直度公差 Straightness		表示公差域的數值前方,附有代號 ф 時, 是指此一公差域,直徑的圓筒中的領域。 When there is symbol ф in front of the numerical value that expresses tolerance zone, it means this tolerance zone, the area in the cylinder with diameter of t	表示圓筒直徑的尺寸加有公差的裁框時, 其圓筒軸錢須是在直徑0.08mm的圓筒內 If the tolerance frame is after the diameter of the cylinder, it means the axial line of the cylinder could have 0.08mm tolerance
	平面度公差 Flatness		公差域是·夾挎的相距距離之兩個平均的平面間的領域 Tolerance zone: area enclosed by two average planes with a distance of t	此一表面須在相距的二個平行的平面之間, This surface must be between two parallel planes with a distance of t
	真圓度公差 Roundness		對象的平面的公差域是相距i距離的 2個同心圓之間的領域。 Object plane's tolerance zone is area which two concentric circles with a distance of t	任意軸直角斷面的外周必須是在同一平面上相距的兩個同心圓之間。 The circumference of right-angle section of any axis must be between two concentric circles with a distance of tin the same plane
	圓筒度公差 Cylindricity	\Diamond	公差域是相距的二個同軸圓筒面間的領域 Tolerance zone is area in which two coaxial cylinder plane with a distance of t	對象面必須在相距0.1mm的二個同軸圓筒面之間 Object plane must be between two coaxial cylinder surfaces with a distance of 0.1mm
	綫的輪廓度公差 Line profile		☆ t	與投影面平行的任意截面上對象的輪廓必須是中心位于 具有理論上正確輪廓面上直徑0.04mm圓的二個包圍綾之門 The contour of the object in any section that is parallel with projective surface must be between two profile lines of a circle with a diameter of 0.04mm when the center is in the theoretically correct contour plane.
	面的輪廓度公差 Surface profile		公差域是中心位于理論上正確輪廓面上, 直徑t球體的二個包圍面之間,所夾持的領域。 s ф t Tolerance zone is area enclosed by two profile planes of a sphere with a diameter of t when the center is in the theoretically correct contour line	對象的面必須是在中心位于理論上具有正確 輸廓面上,直徑0.02mm球體之二個包圍面之間 Object plane must be between two profile planes of a sphere with a diameter of 0.02mm when the center is in the theoretically correct contour plane
多勢公差 Orientation tolerance	平行度公差 Parallelism	//	公差域是與已知(datum)平面平行、相距的二個平行平面間所夾持的領域。 Tolerance zone is area enclosed by two parallel planes with a distance of t and parallel with datum plane	指示錢箭頭的指示面,必須是與已知平面的平行,而且在 指示錢箭頭方向相距0.01mm二個平面之間, Indication surface of indicating line arrow must be parallel with datum surface, and be between two planes with a distance of 0.01mm in the direction of indicating line arrow
	直角度公差 Perpendicularity		表示公差數值前面加有代號 ф 時,此一公差域 是與已知平面垂直,直徑的圓筒內的領域。 When there is symbol ф in front of the numerical value that expresses tolerance zone, this tolerance zone is area in the cylinder with a diameter of t that is perpendicular with the datum plane	指示錢箭頭指示的圓筒軸綫,必須是與已知平面 相垂直,直徑0.01mm的圓筒内. The cylinder axis indicated by indicating line arrow must be perpendicular with datum surface and in the cylinder with a diameter of 0.01mm.
	傾斜度公差 Angularity	_	公差域依規定角度,與已知平面呈傾斜,相互間相距距鈕的二個平行平面間所來持的領域 Tolerance zone is area enclosed by two parallel planes with a distance of "t" and inclined with datum plane by a specified angle.	指示线箭頭指示的面,必須是理論上與已知平面A呈正確的40° 傾象而且是指示线的箭頭方向相距0.08mm距離的二個平行平面間. The surface indicated by indicating line arrow, must be theoretically 4 inclined from datum plane A, and be between two parallel planes with distance of 0.08 in the direction of indicating line arrow.
位置公差 Lolerance in position	位置度公差 Position	\oplus	公差域以對象點的理論上正確位置(以下稱"正位置") 的中心之直徑圓之中或球體內的領域。 Tolerance zone is the area in a circle or sphere with a diameter of t with theoretically correct position (hereinafter referred to 正位置 as "positive position" as the center.	●
	同軸度公差又 及同心度公差 Concentricity		表示公差數值前面,加有代號 4時.此一公差域是 與己知軸直錢呈一致细綫之直徑的閩简中的領域 When there is symbol \$\phi\$ in front of the numerical value that expresses tolerance zone, this tolerance zone is area in the cylinder with a diameter of that is parallel with the datum axis line	指示錢箭頭指示的軸綫,必須是在以已知軸, 直綫A為軸綫,直徑0.01mm的圓筒内. The axis indicated by indicating line arrow, must be in the cylinder with a diameter of 0.01mm with datum axial straight line A as axis
	對稱度 Symmetry	=	公差域是與已知中心平面呈對稱配置,彼此相距的二個平行平面間所夾持的領域。 Tolerance zone is the area symmetry with the datum plane, and enclosed by two parallel planes with a distance of "".	指示緩箭頭指示的中心面。必須是以已知的中心平面) 呈對稱為0.08mm間隔,而且呈平行的二個平面之間。 The center plane indicated by indicating line arrow must be between two parallel planes with a distance of 0.08mm and symmetric with datum center plane A.
次 素 Vibration tolerance	圓周振動公差 Circular runout	~	测定實施表面(測定表面) Measure suphementation surface (measure surface) A	指示缓箭頭指示的圓筒面半徑方向的振動是已知軸直緩A-B的回轉 圈時,其在與已知軸直緩呈垂直的任意測定平面上,不會超過0.1mm. The vibration in the direction of cylinder plane radius indicated by indicating line arrow is in any measured plane perpendicular with datum axial straight line when datum straight line A-B rotates a round and it will not exceed 0.1mm
	全振動公差 Total runout	11	公差域是具有與已知軸直錢一致的軸綫,在半徑方向相距。距離的二個同軸圓筒間的領域 Tolerance zone is area between two coaxial cylinders with a distance of t in the direction of radius and has the same axis with datum axial straight line	指示线箭頭指示的圓筒面半徑方向的完全振動,在已知軸直线A-B的回轉圓筒部分時,圓筒表面上的任意點不會超過0.1mm. The complete vibration in the direction of cylinder plane radius indicated by indicating line arrow, when in datum straight line A-B's rotating cylindrical part, any point on cylinder surface w not exceed 0.1mm

粗實綫或虛綫:形體 Thick real line or dashed: form

粗一點虛綫: 既有資料
Thick one-dot dashed: data available
細實綫或虛綫: 公差域

Thin real line or dashed: tolerance zone

細一點虛綫: 中心綫 Thin one-dot dashed: center line

細二點虛綫:補足的投影面或切斷面

 $Thin \ two-dot \ dashed: complementary \ projective \ surface \ or \ section$

粗二點虛綫:形狀對于補足的投影面或切斷面的投影 Thick two-dot dashed: projection of profile to complementary projective surface or fracture surface

