

DIN5401-2002

德国钢球标准

Ball Grade 级别	Nominal Size in mm 公称直径(mm)		Limit Deviations in μm 公差范围 (μm)	t_{DWS} v_{DWS} in μm Max 球形误差, 球直径变动量(μm)		R_a in μm Max 表面粗糙度 (μm)	V_{DWL} in μm Max 批直径变动量(μm)	V_{DWA} in μm Max 规制内球直径变动量(μm)	$I_G S_r$ in μm 规制间距, 规制公差(μm)	Preferred Gauges in μm 优选规制(μm)
	Over 以上	UP 以下								
G3	-	12.7	± 5.32	0.08	0.01	0.13	-	0.5	-5, ...-0.5, 0, +0.5, ...+5	
G5	-	12.7	± 5.63	0.13	0.014	0.25	-	1	-5, ...-1, 0, +1, ...+5	
G10	-	25.4	± 9.75	0.25	0.02	0.5	-	1	-9, ...-1, 0, +1, ...+9	
G16	-	25.4	± 11.4	0.4	0.025	0.8	-	2	-10, ...-2, 0, +2, ...+10	
G20	-	38.1	± 11.5	0.5	0.032	1	-	2	-10, ...-2, 0, +2, ...+10	
G28	-	50.8	± 13.7	0.7	0.05	1.4	-	2	-12, ...-2, 0, +2, ...+12	
G40	-	100	± 19	1	0.06	2	-	4	-16, ...-4, 0, +4, ...+16	
G80	-	100	± 14	2	0.1	-	4	4	-12, ...-4, 0, +4, ...+12	
G100	-	150	± 47.5	2.5	0.1	5	-	10	-40, ...-10, 0, +10, ...+40	
G200	-	150	± 72.5	5	0.15	10	-	10	-60, ...-10, 0, +10, ...+60	
G300	-	25.4	± 70	10	0.2	-	20	20	-60, ...-20, 0, +20, ...+60	
G300	25.4	50.8	± 105	15	0.2	-	30	30	-90, ...-30, 0, +30, ...+90	
G300	50.8	75	± 140	20	0.2	-	40	40	-120, ...-40, 0, +40, ...+120	
G500	-	25.4	± 75	25	-	-	50	50	-50, 0, +50	
G500	25.4	50.8	± 112.5	25	-	-	75	75	-70, 0, +70	
G500	50.8	75	± 150	25	-	-	100	100	-100, 0, +100	
G500	75	100	± 187.5	32	-	-	125	125	-125, 0, +125	
G500	100	125	± 225	38	-	-	150	150	-150, 0, +150	
G500	125	150	± 262.5	44	-	-	175	175	-175, 0, +175	
G600	A11		± 200	-	-	-	400	-	-	
G700	A11		± 1000	-	-	-	2000	-	-	