








Linear dimensions tollerances

Dim. range (mm)	Tolerance grade		
	D1	D2	D3
	General dimensions	Some functional dimensions	Agreed dimensions
0 up to 6	+ - 0.15	+ - 0.12	+ - 0.10
6 up to 10	+ - 0.18	+ - 0.14	+ - 0.11
10 up to 18	+ - 0.22	+ - 0.17	+ - 0.14
18 up to 30	+ - 0.26	+ - 0.20	+ - 0.17
30 up to 50	+ - 0.40	+ - 0.31	+ - 0.25
50 up to 80	+ - 0.45	+ - 0.37	+ - 0.30
80 up to 120	+ - 0.55	+ - 0.44	+ - 0.35
120 up to 180	+ - 0.80	+ - 0.65	+ - 0.50
180 up to 250	+ - 1.20	+ - 0.95	+ - 0.75
250 up to 315	+ - 1.30	+ - 1.10	+ - 0.80
315 up to 400	+ - 1.80	+ - 1.40	
400 up to 500	+ - 2.00	+ - 1.60	
500 up to 630	+ - 2.70	+ - 2.20	
630 up to 800	+ - 3.10	+ - 2.50	
800 up to 1000	+ - 3.60		

Geometric tolerances (flatness, parallelism, straightness)			
Lenght (mm)	Tolerance grade		
	D1	D2	D3
	General dimensions	Some functional dimensions	Agreed dimensions
0 up to 25	+ - 0.15	+ - 0.10	+ - 0.10
25 up to 50	+ - 0.25	+ - 0.20	+ - 0.15
Over 50	0.60% of the lenght	0.40% of the lenght	0.30% of the lenght

Other geometric tolerances		
Type	Dimension (mm)	Symbol
Circularity	+ - 0.10 per 20mm	
Cilindricity	+ - 0.10 per 20mm	
Profile accuracy	+ - 0.15 per 20mm	
Angular accuracy	+ - 0.30	
Position accuracy	+ - 0.10 per 20mm	
Concentricity	0.20 per 20mm	
Symmetry	+ - 0.15 per 20mm	
Run-out	+ - 0.10 per 20mm	