



1.0 ISO system of limits and fits

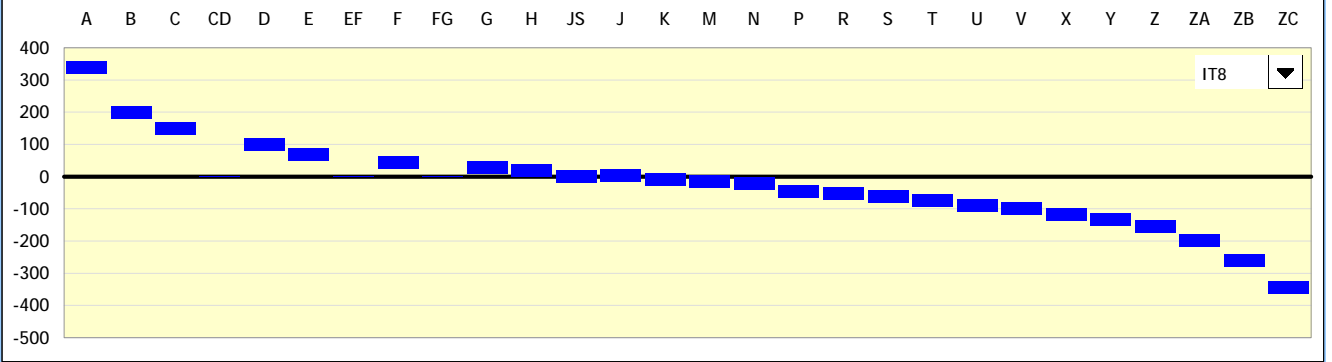
ISO 286

1.1 Basic size [mm]

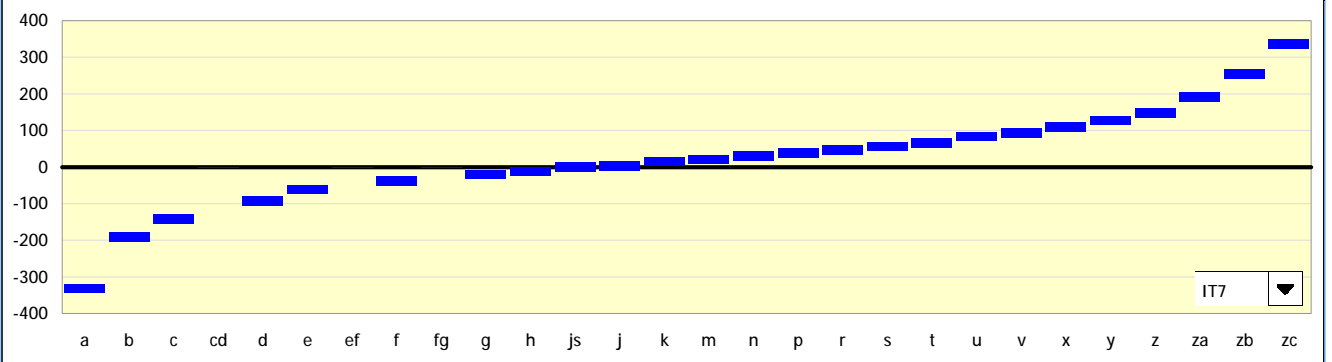
1.2 Tolerance of a basic size for specific tolerance grade [mm]

IT01	IT0	IT1	IT2	IT3	IT4	IT5	IT6	IT7	IT8	IT9	IT10	IT11	IT12	IT13	IT14	IT15	IT16	IT17	IT18
0.6	1	1.5	2.5	4	7	11	16	25	39	62	100	160	250	390	620	1000	1600	2500	3900

1.3 Hole tolerance zones [mm]



1.4 Shaft tolerance zones [mm]



1.5 Selection of fit

1.6 System of fit: Hole basis system

1.7 Type of fit: Clearance fit

1.8 Recommended fits: H8/f7 *

1.11 Parameters of the selected fit

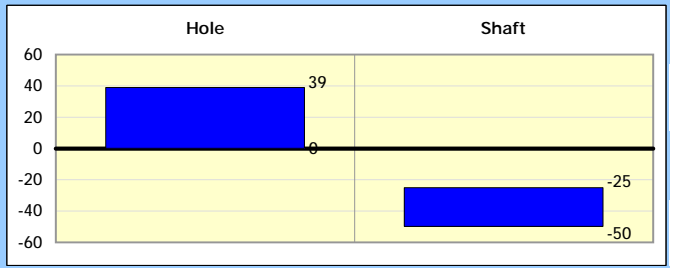
H8/f7	Basic size	<input type="text" value="50"/> [mm]
	Maximum clearance	<input type="text" value="0.089"/> [mm]
	Minimum clearance	<input type="text" value="0.025"/> [mm]

1.9 Hole tolerance zone: H

H8	Upper deviation	ES	<input type="text" value="39"/> [μm]
	Lower deviation	EI	<input type="text" value="0"/> [μm]

1.10 Shaft tolerance zone: f

f7	Upper deviation	es	<input type="text" value="-25"/> [μm]
	Lower deviation	ei	<input type="text" value="-50"/> [μm]



2.0 Preferred limits and fits for cylindrical parts

ANSI B4.1

2.1 Basic size [in]

2.2 Tolerance of a basic size for specific tolerance grade

Tolerance grade	4	5	6	7	8	9	10	11	12	13
Tolerance	0.3	0.5	0.7	1.2	1.8	3	4.5	7	12	18

[10⁻³ in]

2.3 Selection of fit

2.4 System of fit: Hole basis system

2.5 Type of fit: Running or sliding clearance fit

2.6 Fit: RC 4

2.9 Parameters of the selected fit

RC 4	Basic size	<input type="text" value="2"/> [in]
	Maximum clearance	<input type="text" value="0.0042"/> [in]
	Minimum clearance	<input type="text" value="0.0012"/> [in]



