

Fit Analysis

Sample document with complete example values. It shows the report the purchased export produces for YOUR input - it is not itself a report for any part.

Project: Sample project

Part/Position: no real part

Prepared by: Sample, not released

25 H7/g6 - Clearance fit

Inputs

Basic size 25 mm
Hole H7
Shaft g6

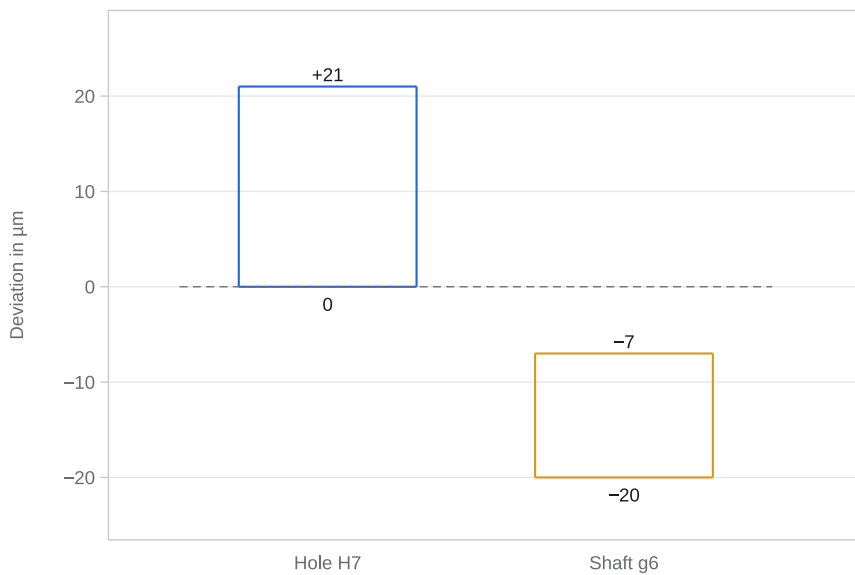
Limit deviations and limit sizes

Partner	Upper deviation in μm	Lower deviation in μm	Maximum size in mm	Minimum size in mm	Tolerance in μm
Hole H7	+21	0	25.021	25.000	21
Shaft g6	-7	-20	24.993	24.980	13

Fit

Fit type Clearance fit
Maximum clearance +41 μm
Minimum clearance +7 μm
Fit tolerance 34 μm

Tolerance zones



Calculation basis

Tolerance system per ISO 286-1: the basic size, fundamental deviation (position of the tolerance zone, letter) and tolerance grade (IT number) determine the limit deviations of hole and shaft from the published table values (IT5 to IT13, basic sizes 1 to 500 mm). The maximum clearance is the upper deviation of the hole minus the lower deviation of the shaft, the minimum clearance is the lower deviation of the hole minus the upper deviation of the shaft; negative values indicate interference.

Fit type: clearance fit when minimum clearance ≥ 0 , interference fit (press fit) when maximum clearance ≤ 0 , otherwise transition fit. Freely entered deviations are used directly without a table lookup.

About this sample

All values on these pages come from a freely chosen example calculation and belong to no real part. The purchased export contains the same sections with your input, your header data (project, part, prepared by) and as searchable text. Pricing and scope: maschinenbaurechner.de/en/pricing

Note: The results are design and orientation aids. They do not replace independent verification, calculation and approval by a qualified person. The terms of use at maschinenbaurechner.de apply.