

# Centring liner bushings


**Material:**

Roller bearing steel

**Surface finish:**

Hardened, black oxide finish

**Sample order:**

nlm 03154-113020

**Note:**

At a distance-between-centre tolerance of  $\pm 0.005$  mm and use of two centring liner bushings grade I, a clamping repeating accuracy of within  $\pm 0.013$  mm is possible.

At a distance-between-centre tolerance of  $\pm 0.03$  mm and use of one centring liner bushing grade I and one centring liner bushing grade II, a clamping repeating accuracy of within  $\pm 0.04$  mm is possible.

The centring liner bushings are pressed into the receiver holes in the grid plates with light pressure. For further details see „General information“.

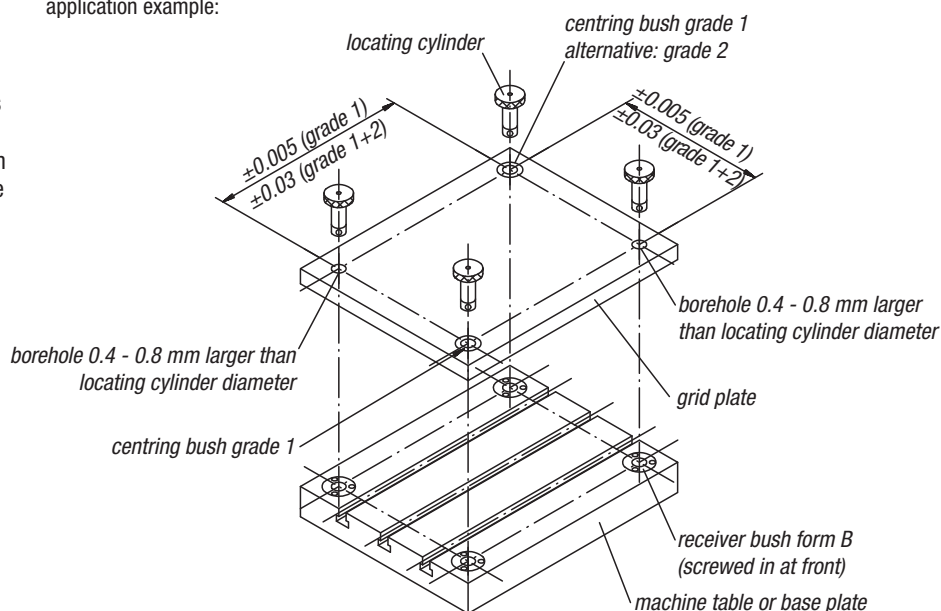
\* Tol. centring bushing grade

1  $+0.005 / +0.018$

Tol. centring bushing grade

2  $+0.025 / +0.050$

application example:



Order No. grade 1	Order No. grade 2	D	D1	L	Receiving hole for centering bushing $\varnothing +0,010$	Approx. weight kg
03154-113013	03154-213013	13*	19,040	13	19,016	0,015
03154-113020	03154-213020	13*	19,040	20	19,016	0,024
03154-116020	03154-216020	16*	25,042	20	25,016	0,045
03154-116025	03154-216025	16*	25,042	25	25,016	0,057
03154-120020	03154-220020	20*	35,042	20	35,018	0,120
03154-120025	03154-220025	20*	35,042	25	35,018	0,150
03154-125020	03154-225020	25*	35,042	20	35,018	0,074
03154-125025	03154-225025	25*	35,042	25	35,018	0,093
03154-130020	03154-230020	30*	45,042	20	45,018	0,139
03154-130025	03154-230025	30*	45,042	25	45,018	0,174
03154-135020	03154-235020	35*	45,042	20	45,018	0,099
03154-135025	03154-235025	35*	45,042	25	45,018	0,123
03154-135040	03154-235040	35*	45,042	40	45,018	0,198
03154-135050	03154-235050	35*	45,042	50	45,018	0,248
03154-150020	03154-250020	50*	63,546	20	63,521	0,190
03154-150025	03154-250025	50*	63,546	25	63,521	0,237
03154-150040	03154-250040	50*	63,546	40	63,521	0,379
03154-150050	03154-250050	50*	63,546	50	63,521	0,474