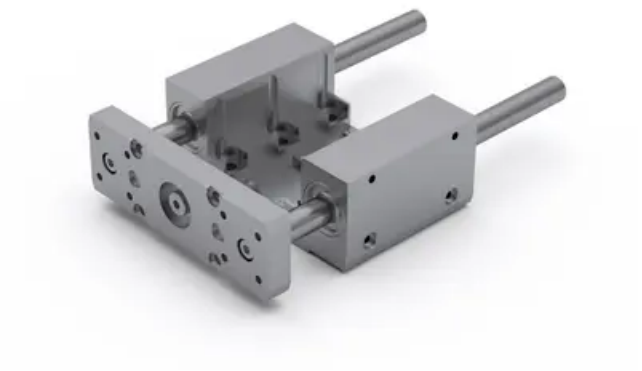
# Guiding unit GUC

Dimensions in mm.

Mounting (on the MCE profile) screws and nuts are included. Guiding unit GUC requires a female thread on the piston rod end.

**Material:** Body and plate in anodized aluminium. Guides in hardened steel.



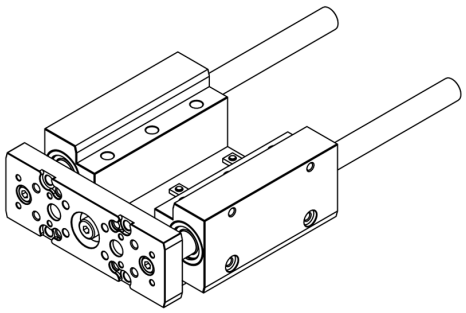

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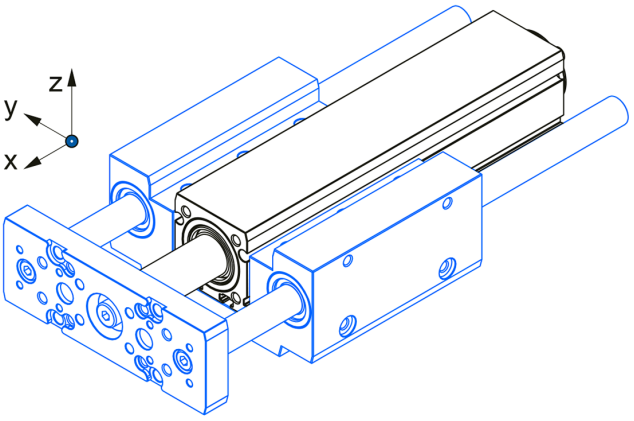
**Displacement (friction) force**

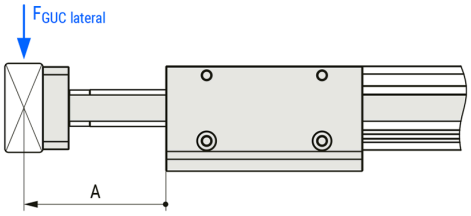
| Designation | Displacement force [N] GUC with ball bushes |
|---|---|
| GUC 25 | 3 |
| GUC 32 | 3 |
| GUC 45 | 3 |

## General Data

### Maximum lateral loading (in y and z directions) as a function of a load position

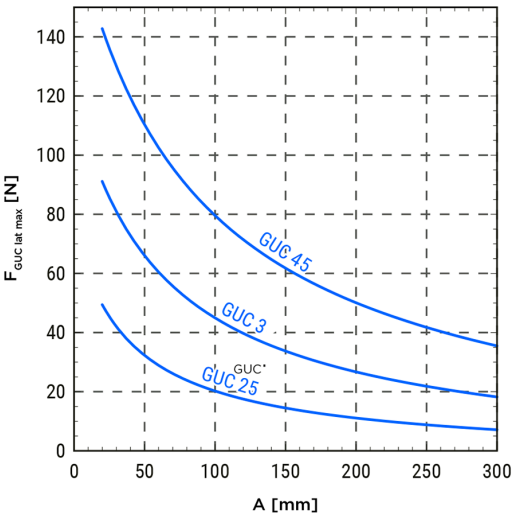





Moved mass of GUC is already considered in the equation for calculating the mass of GUC $m_{GUC}$

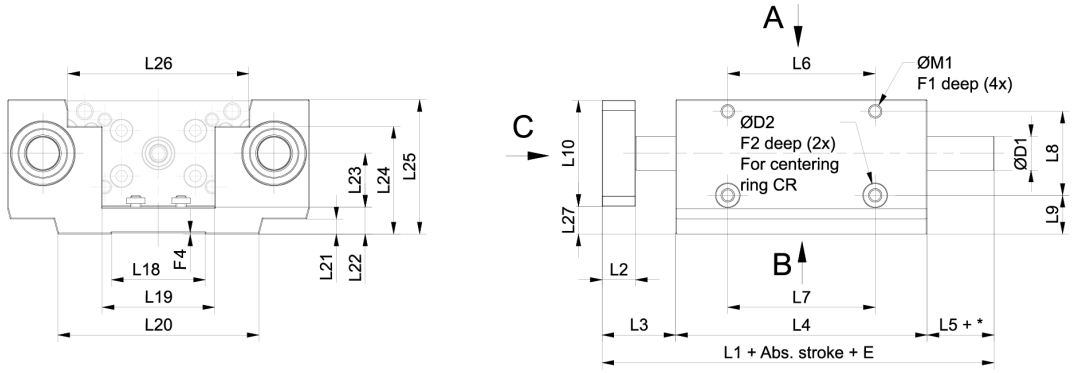
| | |
|---|---|
| **Abs. stroke** | Absolute stroke [mm] |
| **E** | Extended piston rod [mm] |

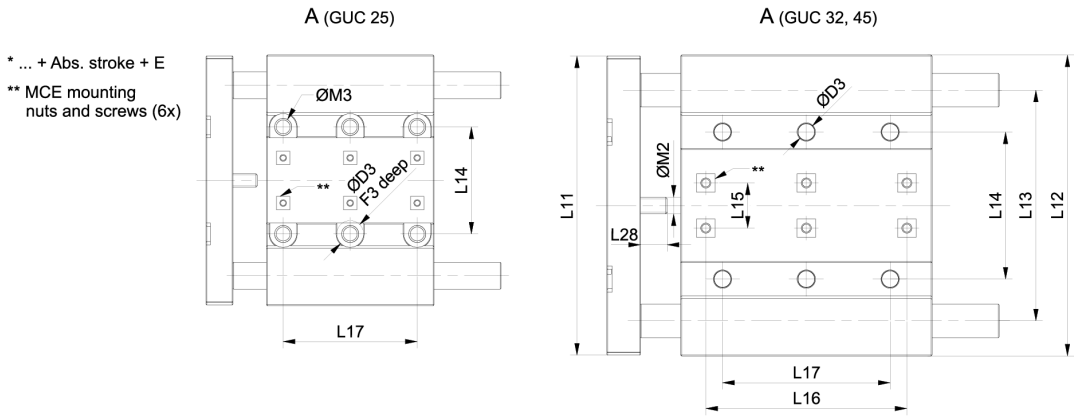


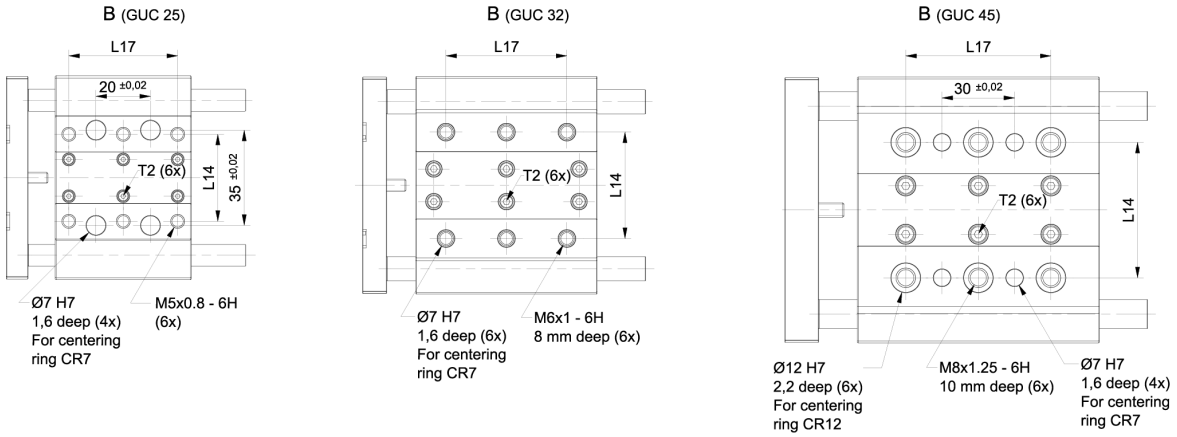

| Designation | Compatible with | Mass of GUC mGUC (kg) | Moved Mass of GUC m mGUC (kg) | T1 (Nm) | T2 (Nm) |
|---|---|---|---|---|---|
| **GUC 25** | MCE 25 | 0.30 + 0.0008 × (Abs. stroke + E) | 0.10 + 0.0008 × (Abs. stroke + E) | 2.8 | 0.3 |
| **GUC 32** | MCE 32 | 0.65 + 0.0013 × (Abs. stroke + E) | 0.20 + 0.0013 × (Abs. stroke + E) | 5.6 | 1.2 |
| **GUC 45** | MCE 45 | 1.30 + 0.0018 × (Abs. stroke + E) | 0.42 + 0.0018 × (Abs. stroke + E) | 9.6 | 2.2 |


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# Dimensions

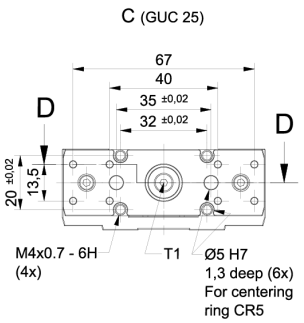


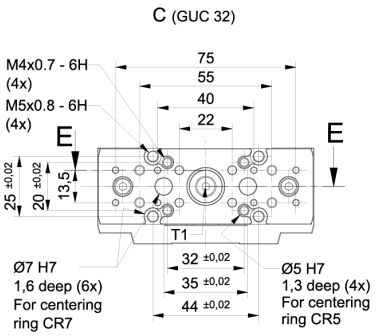



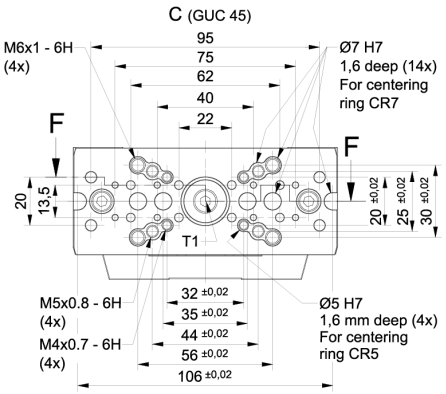



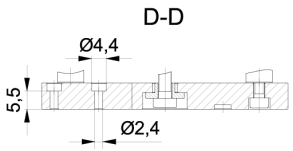


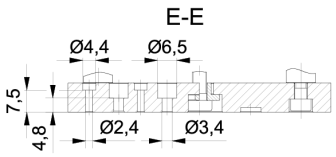
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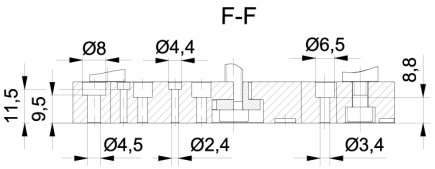



| Designation | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 |
|---|---|---|---|---|---|---|---|---|---|
| **GUC 25** | 88 | 8 | 18 | 50 | 20 | 32 | 32 (±0.02) | 20 | 7.5 |
| **GUC 32** | 117 | 10 | 22 | 75 | 20 | 44 | 44 (±0.02) | 25 | 11.5 |
| **GUC 45** | 150 | 14 | 30 | 100 | 20 | 56 | 56 (±0.02) | 30 | 17.5 |

| Designation | L10 | L11 | L12 | L13 | L14 | L15 | L16 | L17 | L18 | L19 |
|---|---|---|---|---|---|---|---|---|---|---|
| **GUC 25** | 24.5 | 74.5 | 75 | 57 | 32 | 13.5 | 40 | 40 | 19 | 25.5 |
| **GUC 32** | 31.5 | 89.5 | 90 | 69 | 44 (±0.02) | 13.5 | 60 | 50 (±0.02) | 28 | 33.5 |
| **GUC 45** | 44.5 | 109.5 | 110 | 86 | 56 (±0.02) | 20 | 60 | 60 (±0.02) | 38 | 46.5 |

| Designation | L20 | L21 | L22 | L23 | L24 | L25 | L26 | L27 | L28 | D1 |
|---|---|---|---|---|---|---|---|---|---|---|
| **GUC 25** | 45 | 1.5 | 5 | 12.5 | 12.5 | 30 | 39 | 5.25 | 7.3 | 8 |
| **GUC 32** | 60 | 4.5 | 8 | 16 | 32 | 40 | 54 | 8.25 | 8 | 10 |
| **GUC 45** | 80 | 10.5 | 10 | 22.5 | 47 | 55 | 67 | 10.25 | 10.5 | 12 |

| Designation | D2 | D3 | M1 | M2 | M3 | F1 | F2 | F3 | F4 |
|---|---|---|---|---|---|---|---|---|---|
| **GUC 25** | 5 (H7) | 8 | M3 | M4 | M5 | 12 | 1.3 | 4.5 | 0.3 |
| **GUC 32** | 7 (H7) | 5.1 | M4 | M5 | - | 12 | 1.6 | - | 0.3 |
| **GUC 45** | 7 (H7) | 6.6 | M5 | M6 | - | 12 | 1.6 | - | 0.3 |


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