

Shaft modification

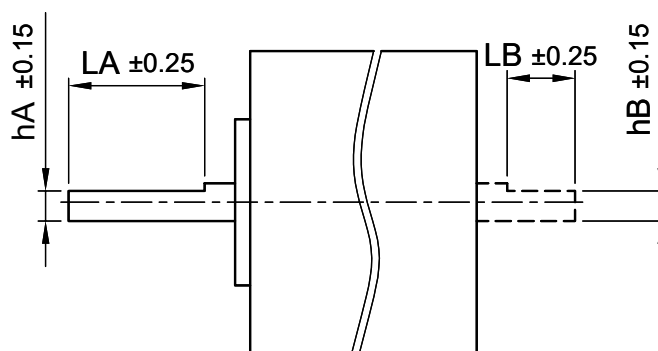
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Customer name

Article number

Nanotec offers various shaft modification options which can be ordered individually or in combination: shaft flattening, shorter shaft, thinner shaft, cross bore or keyway. Other machining options or tolerances are also possible for larger quantities. For further information, please contact our sales department: sales@nanotec.de

D-shaft (not Nanotec standard D-Cut "KM-FLAT")



Dimensions

1 motor shaft

2 motor shafts

LA	hA	LB	hB

Notes

- The first 3 mm of the shaft (measured from the motor) cannot be machined. For motors with a flange size of NEMA 34 and more, the first 4 mm of the shaft (measured from the motor) cannot be machined.
- If the shaft is flattened on both ends, the flats are not parallel to each other.
- The more economical standard D-shaft from Nanotec can be ordered via the online configurator after selecting a motor. You can find an overview of the dimensions [here](#).

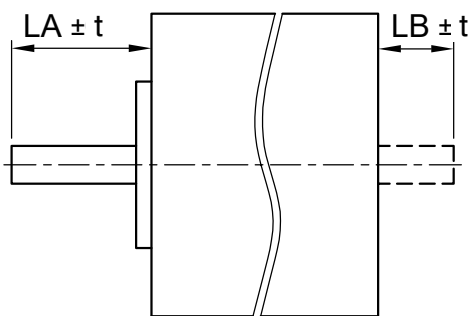
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Shaft modification

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Shorter motor shaft



Dimensions

1 motor shaft

2 motor shafts

LA

LB

Note

- The first 3 mm of the shaft (measured from the motor) cannot be machined. For motors with a flange size of NEMA 34 and more, the first 4 mm of the shaft (measured from the motor) cannot be machined.
- t = specified tolerance of the motor (see dimension drawing online)

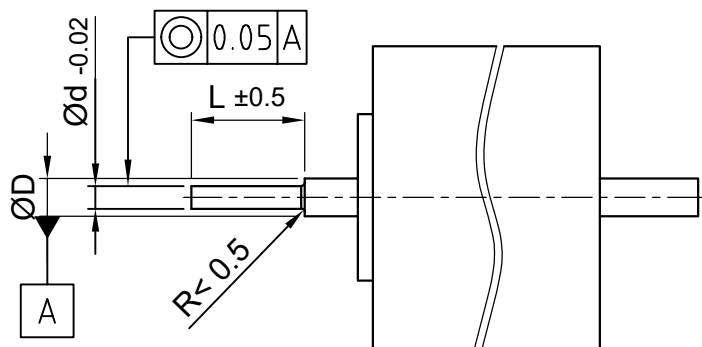
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Shaft modification

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Thinner motor shaft



Dimensions

Desired dimensions

L

d

Notes

- A motor with two shaft ends (B shaft) is necessary for the subsequent machining of a shaft.
- After machining, the B shaft can also be shortened. In this case, please enter the desired length (LB) under "Shorter motor shaft."
- The first 3 mm of the shaft (measured from the motor) cannot be machined. For motors with a flange size of NEMA 34 and more, the first 4 mm of the shaft (measured from the motor) cannot be machined.

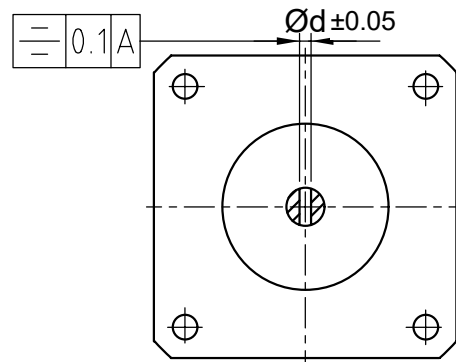
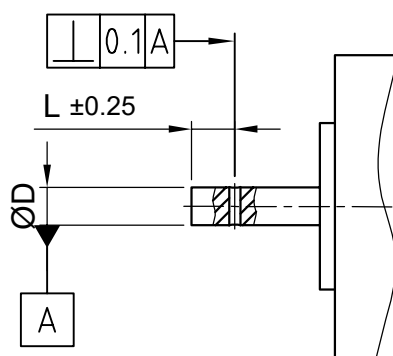
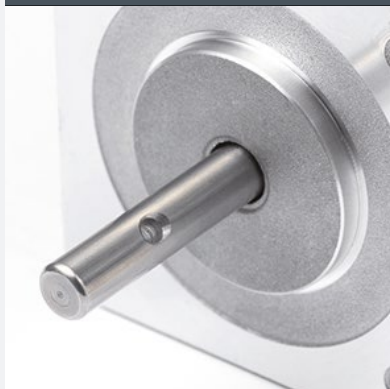
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Shaft modification

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Cross bore



Dimensions

Desired dimensions

L

d

Note

- Holes can only be drilled in 0.1 mm increments
- You can find the minimum distance from the center point of the bore to the shaft end and the motor flange in the table below

Motorsize

≤ 60 mm

≥ 60 mm

Min. distance from shaft end

4 mm

6 mm

Min. distance from motor flange

6 mm

10 mm

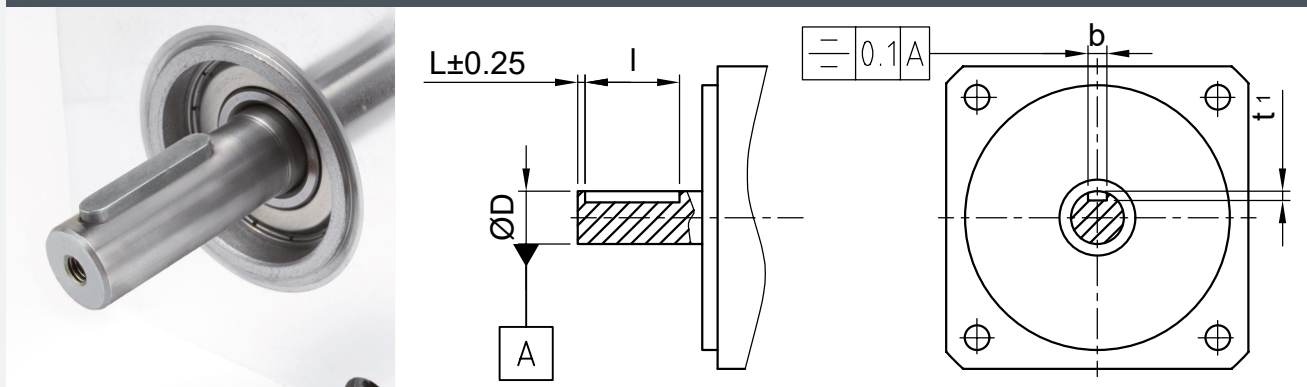
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Keyway



Dimensions

Desired dimensions

L

I

Keyway acc. to DIN 6885-A, tight seating (P9)

The size of the keyway depends on the shaft diameter:

- 6.35 mm (2x2xl)
- 8 mm (2x2xl)
- 14 mm (5x5xl)

Notes

- All dimensions and tolerances are determined by the shaft end!
- The first 3 mm of the shaft (measured from the motor) cannot be machined. For motors with a flange size of NEMA 34 and more, the first 4 mm of the shaft (measured from the motor) cannot be machined.
- The more economical standard D-Cut from Nanotec can be ordered via the online configurator after selecting a motor. You can find an overview of the dimensions [here](#).

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