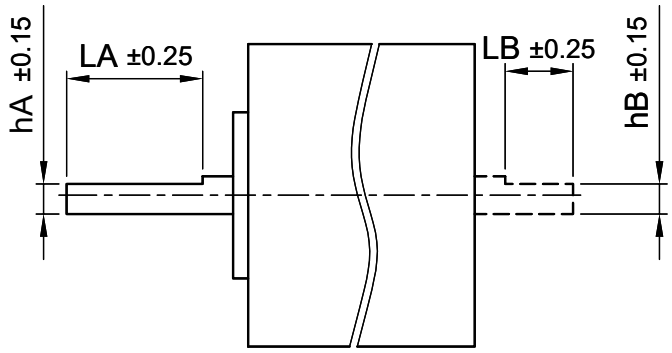
Shaft modification

Please download the PDF. To complete the form you need Adobe Reader.

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	LA	hA	LB	hB
1 motor shaft				
2 motor shafts				

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.

Please send the completed form via e-mail to info@nanotec.de or by fax to +49 89 900686-50.

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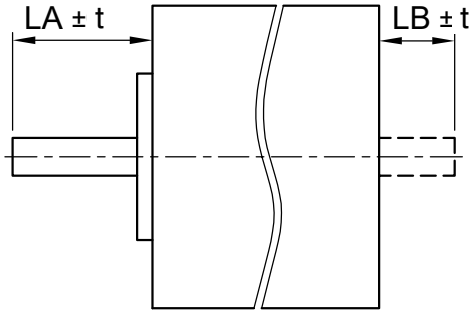
☐ Shorter motor shaft



Dimensions	LA	LB
1 motor shaft		
2 motor shafts		

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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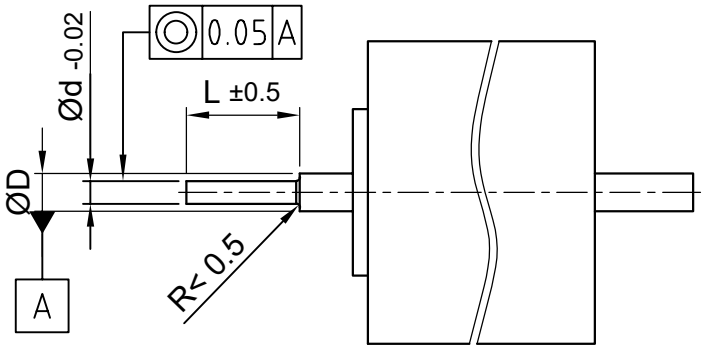
☐ Thinner motor shaft



Dimensions	**L**	**d**
Desired dimensions		

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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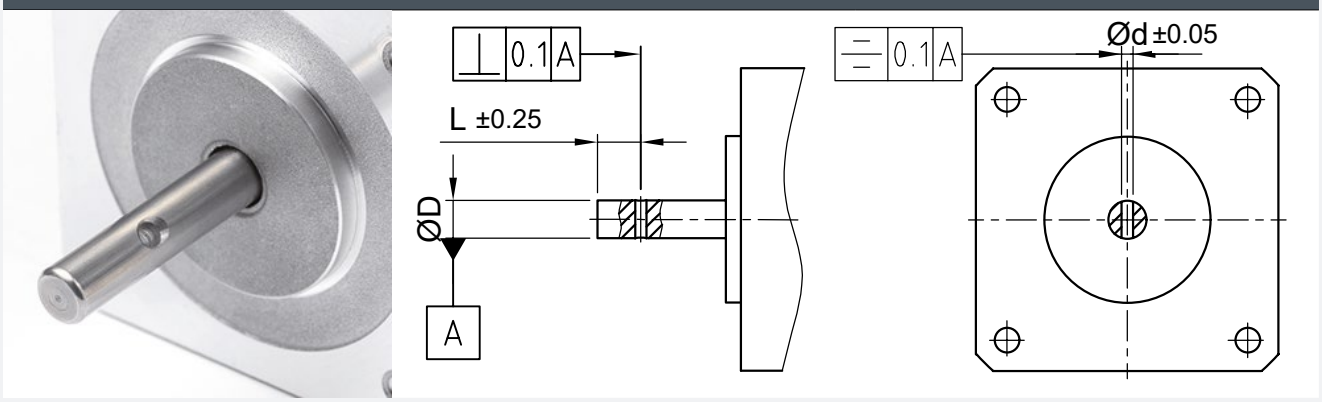
Cross bore



Dimensions	**L**	**d**
Desired dimensions		

Note

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

Motorsize	**Min. distance from shaft end**	**Min. distance from motor flange**
≤ 60 mm	4 mm	6 mm
≥ 60 mm	6 mm	10 mm

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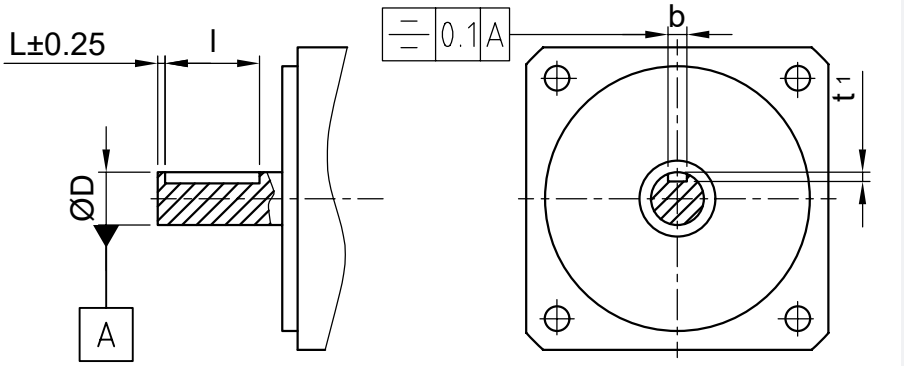
Keyway



Dimensions	**L**	**l**
Desired dimensions		

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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