

1. To which rolling bearings do the different types of bearing arrangement refer?

- a) Cylindrical roller bearing
- b) Tapered roller bearing
- c) Angular contact ball bearing
- d) Axial deep groove ball bearing

2. What is the origin of the names of the different arrangements?

- a) From the designation of the rolling bearings used
- b) From the first letters of the surnames of the inventors of the arrangements
- c) From the pressure lines through the contact angles
- d) There are no particular naming conventions

3. What is the abbreviation for the tandem arrangement?

- a) TT
- b) DT
- c) DB
- d) TFT

4. What are the advantages of an O-arrangement?

- a) It can absorb high radial loads
- b) It can also absorb one-sided axial forces
- c) It is possible to absorb one-sided radial forces
- d) It can absorb axial forces from both directions

5. You can only fit angular contact ball bearings in the O arrangement.

- a) Correct
- b) Incorrect

6. How does an overlap of the rolling cone lines affect the bearing clearance?

- a) It gets bigger
- b) It becomes smaller
- c) It remains unchanged
- d) The rolling cone lines cannot overlap

7. Angular contact ball bearings can be ordered in both single and double row.

- a) Correct
- b) Incorrect

8. How do bearings in X arrangement differ from bearings in O arrangement?

- a) They have a smaller span between the load application points
- b) Only minor misalignments are possible
- c) They have a lower moment stiffness
- d) There is a higher tilt stiffness

EXERCISES

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O, X and tandem arrangements

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- 9. What is the possible temperature effect in bearings in X arrangement when there is a temperature difference between the inner and outer ring?**
- a) Reduction of the bearing clearance
 - b) Increase of the operating clearance
 - c) Increase of the bearing clearance
 - d) There is no temperature effect
- 10. Bearings in tandem arrangement are able to support larger axial loads in one direction.**
- a) Correct
 - b) Incorrect