EXERCISES

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Bearing units

bearingwizard.com

1. On which type of bearing is an insert bearing based?
a) Angular contact ball bearing
b) Needle bearing
c) Deep groove ball bearing
d) Cylindrical roller bearing

2. Special knowledge and special assembly tools are required to assemble bearing units.
a) Correct
b) Incorrect

3. What factors influence the choice of mounting system when mounting a bearing insert on cylindrical shafts?
a) Direction of rotation
b) Maximum permissible speed
c) Exposure to radial load
d) Available installation space

4. Which series of deep groove ball bearings have bearing geometry identical to insert bearings?
a) 52
d) 73

5. Which series of deep groove ball bearings have bearing geometry identical to insert bearings?
a) Less bearing play
b) Restrictions of the materials
c) Too much weight
d) The fastening method

6. Insert bearings can be mounted hot or cold.
a) Correct
b) Incorrect

7. Which statements apply to the fastening of insert bearings with grub screws?
a) It is the most expensive fixing method
b) It is the simplest fixing method
c) You need very special tools for it
d) Bearings with grub screws are not suitable for alternating directions of shaft rotation

8. Which fixing method uses grub screws?
a) Floating bearing
b) Fastening with grub screws
c) Mounting with an eccentric collar
d) Fastening with clamping sleeve

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9. What must be considered when fastened with an eccentric collar?

a) Do not make sudden changes to direction of rotation
b) Tighten the eccentric collar against the direction of rotation of the shaft
c) The larger installation space required
d) Nothing else needs to be observed

10. Adapter sleeve fastening is suitable when...?

a) You are looking for a simple mounting option
b) Higher speeds need to be achieved
c) There is little budget available
d) A very secure shaft connection is sought

11. A locating bearing opposite a non-locating bearing can absorb forces in both radial and axial directions.

a) Correct
b) Incorrect

Solution: 1. c; 2. b; 3. a, b, d; 4. b, c; 5. d; 6. a; 7. b; 8. b, c; 9. a, b, c; 10. b, d; 11. a