

DIAMOND TOOLS FOR DENTISTRY

[General instructions for use DIASA Dental Diamond Tools](#)

DIASA guarantees long-term and effective work of diamond tools by following the general instructions for use.

1. There is no tools expiration storage date.
2. It is necessary to accurately remove tools from packing materials in avoidance of deformation of a working part.
3. Diamond burs and heads can be used only with the handpieces for burs with diameter of a shaft: 1,60 mm and 2,35 mm.
4. Instruments must be compatible and suitable for each individual handpieces.
5. Make sure the handpiece is in proper working condition.
6. Ensure that the bur is fully seated and gripped in the handpiece collet.
7. Using diamond burs without local water cooling in the preparation area with the minimum water flow less than 50ml/min is not recommended.
8. The burs longer than 22 mm or with diameter of a working part more then 2 mm demand additional amount of water flow.
9. The burs should be rotated prior to the beginning of dental preparation. It is necessary to avoid excessive pressure on a working part of the bur during dental procedure. The recommended pressure is 0,3-0,2 N.
10. Do not exceed the maximum recommended speed for esch individual instrument based on a table below.
11. It is forbidden to use diamond burs in case of vibration in a rotor of the bearing or in a head of the handpiece as well as in the presence of excessive noise of the handpiece.
12. Sterilization and disinfection of tools can be made by all ways correspondingly the sanitary standards approved by ROSZDRAVNADZOR of Russia.

Warning!* Use of gasperien sterilizers is not recommended for sterilization of diamond burs due to excessive heating of a diamond surface and not quality sterilization because they used touse for sterilization of tools with smooth surface.*

13. Installation or removing ofdiamond burs from handpieces should be made by special tools.

[Table of maximum recommended speed for each individual bur depending on diameter of a working surface.](#)

Diameter of a working surface, mm	Identification of diameter of a working surface by ISO	Maximum recommended speed (rpm)
No more 1,8 mm	005 - 018	To 450 000 rpm max.
From 1,8 mm to 2,3 mm	018 - 023	To 300 000 rpm max.
From 2,3 mm to 2,7 mm	023 - 027	To 160 000 rpm max.
From 2,7 mm to 3,1 mm	027 - 031	To 140 000 rpm max.
From 3,1 mm to 4,0 mm	031 - 040	To 100 000 rpm max.
From 4,0 mm to 5,0 mm	040 - 050	To 80 000 rpm max.

 [Director General](#)
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