

Procedure for Handling the Spinner Table

Dear Sir / Madam

With regard to the above-mentioned subject, please read the instructions disclosed herein.

Introduction

With respect to the spinner tables used for both washer and protective coating components of the fully automatic laser dicing saw (DFL716*), porous separation issues have been reported among some models that make use of electrically conductive coatings.

It has come to our knowledge that, in certain circumstances, various aspects of the handling procedure and condition of the spinner table may lead to conditions favorable for the development of porous separation.

The goal of this newsletter is to raise awareness regarding proper handling of the spinner table in order to promote safe usage and long component lifespans.

- Recommended table condition maintenance
- Porous Separation Verification Method
- Spinner Table Handling Procedure

*Occurrence rate is approximately 1.7% as of Jan. 2016.

Applicable Models

DFL7160 / DFL7161

Machines equipped with spinner tables that make use of electrically conductive coatings / FKFS-510000-1 (The Table outer ring is black)

Recommended Table Condition Maintenance

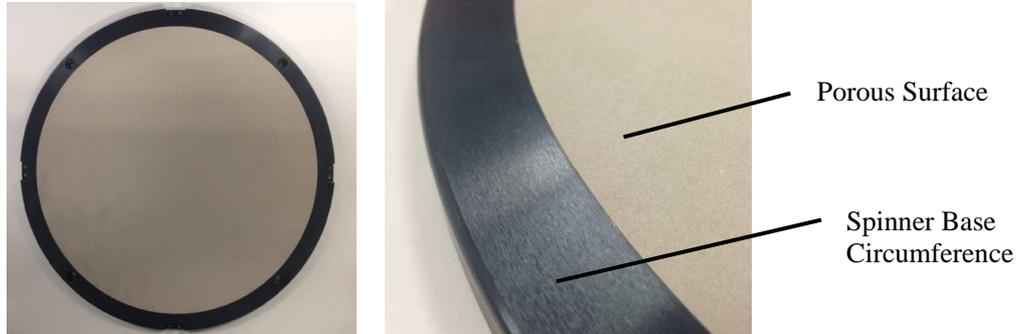
The purpose of the table cleaning is to remove contamination as well as protective film bits which adhered to the table surface.

In the event that either the time or RPM parameters are greater than those displayed below, we recommend adjusting the parameters to those shown below in order to reduce the load on the porous material.

Table Washing		
	Time	rpm
Washing	10 sec	500 /min
Drying	15 sec	2000 /min

Porous Separation Verification Method

1. Please check for a height difference between the porous surface and the outer edge of the spinner base. (Normal value: Less than 50 μm)



2. Please tap the porous side of the table and listen for an abnormal sound.
Judging method: If a light, ringing sound is detected in the vicinity of the tapped area, this may be evidence of possible porous separation.



Procedure for handling the spinner table

The porous area of the spinner table is bonded using a strong adhesive material.

Although a highly durable adhesive is employed, factors such as those described below may weaken the adhesive and lead to porous separation. Accordingly, please avoid the following factors.

- Exposure of the table to water temperature that is higher than DISCO's recommended temperature (25° C.)
- Exposure of the table to other chemicals.
- Usage of the table when the porous is clogged (e.g., using the vacuum at -65kPa or greater without a workpiece in place.)

In the event that a workpiece vacuum error occurs during fully automatic operations, this may be an indication of porous separation. Please inspect the porous material to check for separation as outlined in steps 1 and 2 above.

In the event that porous separation is detected, please replace the spinner table.

For inquiries

If you have any questions or comments on this matter, please contact your DISCO sales representative or service staff.

Translated by Andrew K. Broscoff
Proofread by Andrew K. Broscoff