Technical Newsletter

Notification of Software Release
for Safety Measures when Chuck Table is Removed

Applicable models

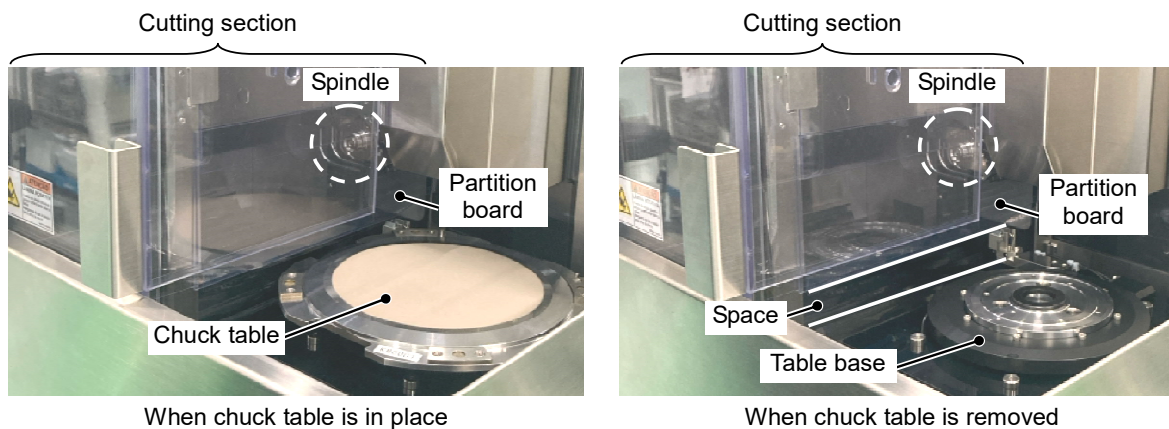DAD322   DAD323   DAD324   DAD3220   DAD3221

Introduction

During automatic operation of DAD3220, a customer put their hand into the cutting section from underneath the partition board in order to retrieve a dropped part after removing the chuck table while the X-axis was at the origin point. The customer's hand inadvertently touched the rotating blade, cutting the back of customer's hand and causing an accident.

Specification of applicable models

In the specification of the applicable models, the rotating spindle does not stop when the X-axis is at the origin point (workpiece replacement position) since it significantly reduces the work efficiency if the spindle rotation is stopped every time a workpiece is replaced. As there is no need to remove the chuck table during normal automatic operation, the risk of someone's hand touching the rotating spindle is avoided through a structure where there is no space to insert your hand between the chuck table and the partition board when the chuck table is in place.

If the chuck table is removed during equipment maintenance, etc., the space between the table base and the partition board becomes larger and there is a risk of touching the spindle if your hand is inserted into the cutting section from underneath the partition board.

When chuck table is in place

When chuck table is removed

Also, in the current software specification, the rotating spindle does not stop when the X-axis is at the origin point even if the chuck table retaining vacuum is turned OFF.

Specification of the countermeasure software

In order to prevent the accident from recurring, a countermeasure software that stops the rotating spindle when the chuck table retaining vacuum is turned OFF will be released.

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Regarding installation of the countermeasure software

[Newly ordered equipment]

The countermeasure software is free of charge for equipment that will be shipped with the countermeasure software already installed. You can select whether you would like the countermeasure software to be installed at the time of purchase in the Machine Specification sheet.

[Equipment already owned by customers]

The countermeasure software is chargeable.

・ However, when a new equipment is purchased, a countermeasure software with the same version and same specification as the newly purchased equipment can be installed for free on equipment already owned by the customer (if compatible).
Please note that the installation work performed by our customer engineer will be chargeable.
Contact your DISCO sales representative if you wish to select this option.

[Please be aware]

If you own equipment both with and without the countermeasure software, the equipment operation will differ when the chuck table retaining vacuum is turned OFF.
Please note that accidents may occur due to the difference in equipment operation and consider the appropriateness of software installation.

When not installing the countermeasure software on applicable models

Be sure to confirm that the spindle has stopped before removing the chuck table in accordance with instruction manual.

Inquiries

Please contact a DISCO sales representative or DISCO customer engineer if you have any questions regarding this matter.