



SMI - Edge Grinding Wheels

Dressing Procedure

Dressing for SMI Edge-Grinding-Wheels (EGW) is required, before the EGW is used the first time in production and once in a while during production.

Just before the production starts, dressing is some sort of a cleaning step.

During the production, especially dressing of the groove of the EGW, is required to minimize the build-up of the silicon and the swarf.

The dressing during production becomes even more important when DI water is used just as a coolant, because than the swarf tends to cover the groove and the diamond layer is getting dull.

As a dressing stick a soft Al₂O₃ stick should be used, because the Al₂O₃ stick will clean sufficient and will not change the geometry.

The soft dressing stick of a hardness of app. HV 320 is similar to the dressing sticks used for ID slicing and the small pcs left from ID dressing can be used for the EGW as well.

The dimension of the dressing sticks should be app. 1/4" x 1/4", because it should fit into the grooves.

We want to underline that we heavily recommend the use of VECTOR HTI as a special coolant for EGW's, because in addition to the excellent cooling performance, the HTI will help to make the following cleaning of the wafers more efficient.