

## INDUSTRY NEWS



### Speed is the key in machining!

Speed is directly related to productivity, the faster the better! You can use a carbide tool to reach over a 5xD but you have to slow down to stop the tool from vibrating and destroying the surface.

When you need to go deeper than 5xD, the weakest link is the carbide bar and you just have to accept it.

MAQ's STMD products in the 5xD series, outperform the carbide bar in the range between 4-7xD setups. With MAQ tools, you can fully utilize the potential offered by the inserts and machine.

**A 250% increase in cutting speed and a 71% reduction in cycle time! You can produce 250% more components with the same machine, insert, fixture and programs!**

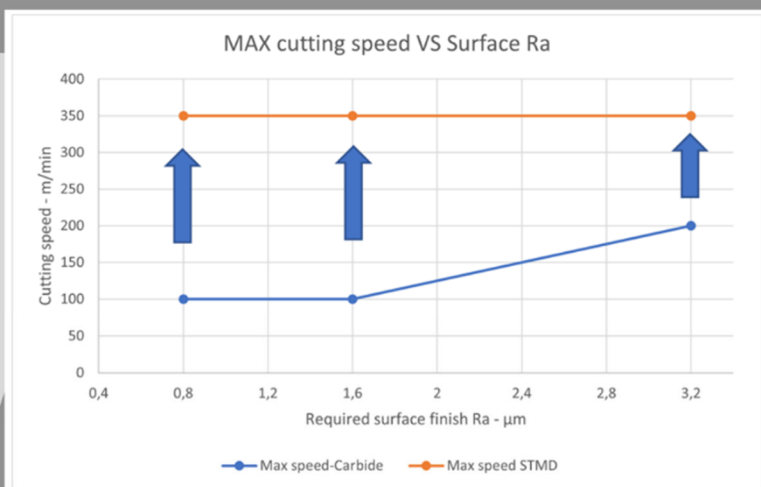


Figure 1, maximum allowed cutting speed Vs required surface finish, comparing STMD M25-205 SDUCR and equivalent carbide tool, at 6xD setup, depth of cut ap was fixed at 0.25 mm, the workpiece material is 34CrNiMo – 4340 steel HRC 28-30, coolant was used during the test and the cutting insert is MAQ DCMT 070204 FP – P25C.

Let's look at the maximum speed performance comparing our STMD M25-205 SDUCR product to the carbide bar.

Visit [www.maqab.com](http://www.maqab.com) for more information.