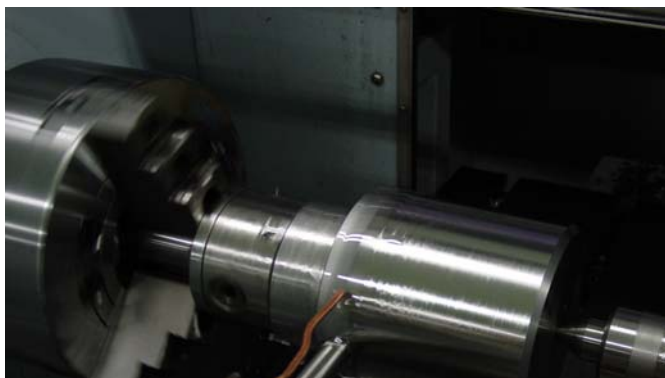


## Characteristics

**DesignMecha** plunger tips has a great durability performance. The advantage is our final processing method, which is UNSM (Ultrasonic Nano crystal Surface Modification) treatment, which is a surface hardening technology by cold deformation. This technology has recently been patented in Korea. This process feature is to strike the surface or the plunger tip 20,000 times per second. Therefore, the mechanical properties such as surface hardness, surface roughness, residual compressible stress, etc) of the workpiece are greatly improved. It creates miniscule embossing on the surface of the plunger tips. It radically retards cracking on the edges of the tip as well as the simple durability.



**Special technology made a possible the next generation of plunger tip.**

- High surface roughness (less Rz 1.0)
- High surface hardness (over HRc 62\*)
- High compressed stress

(\* Material: D2)

**DesignMecha**® has a variety size of plunger tip. (Basic size is Dia 50~150mm) Also, we can make as follow to special order size. Please feel free to contact us if you wish to discuss any your spec and requirements.

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