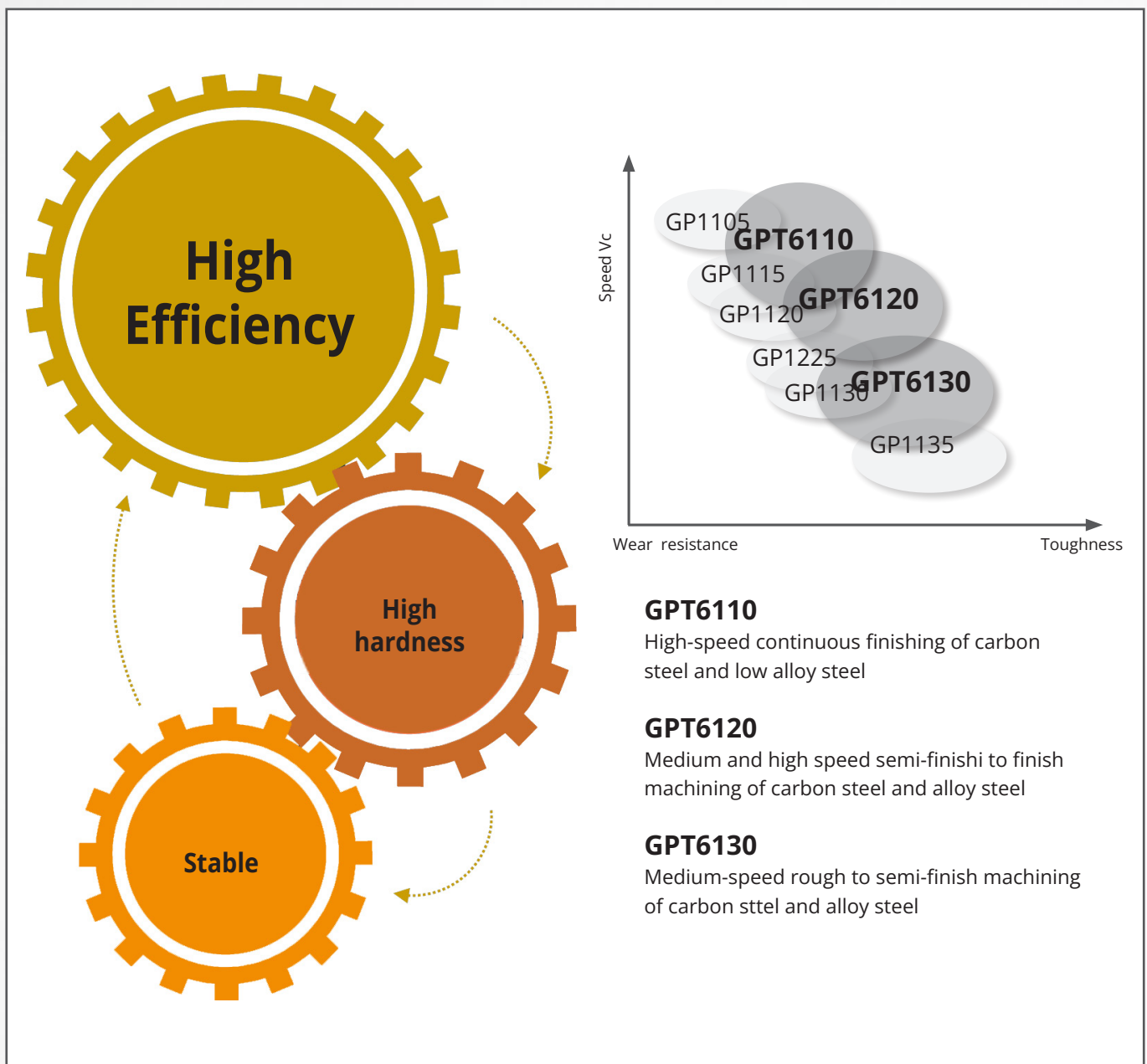
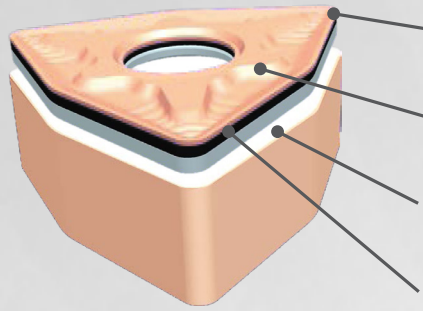


New Grades for High Efficient Turning of Steels

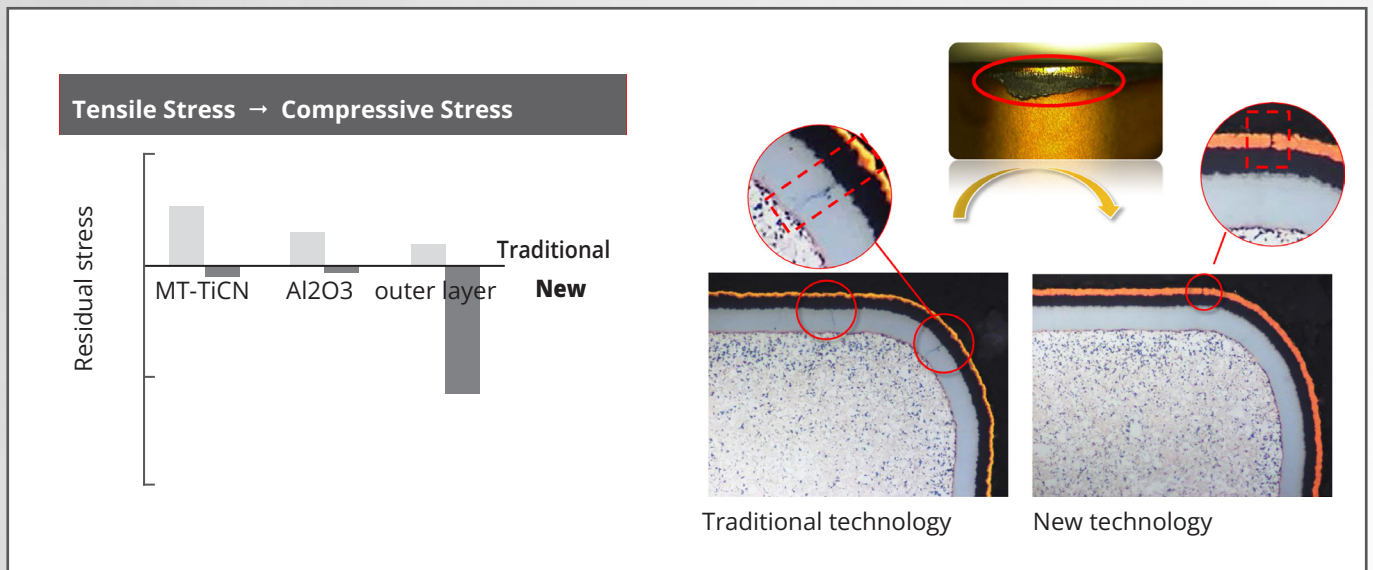


Breakthrough GE.FORCE

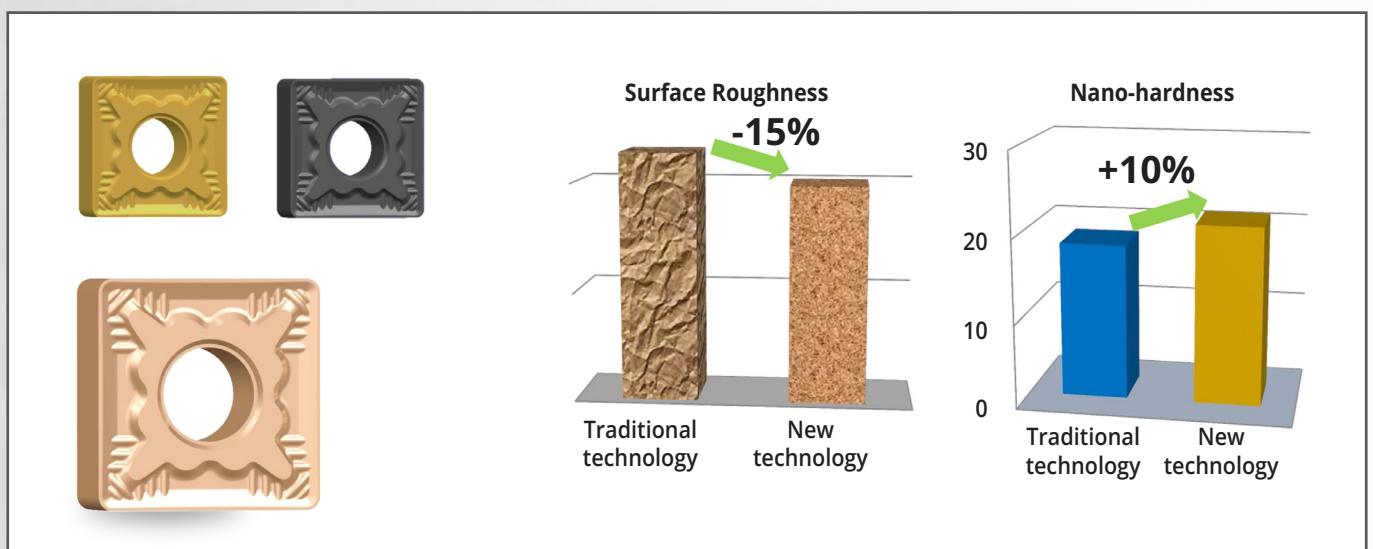


- Excellent Surface Treatment Technology
- Hard Champagne Outer Layer Technology
- High Strength Substrates Technology
- Tough Functional Coatings Technology

Excellent Surface Treatment Technology



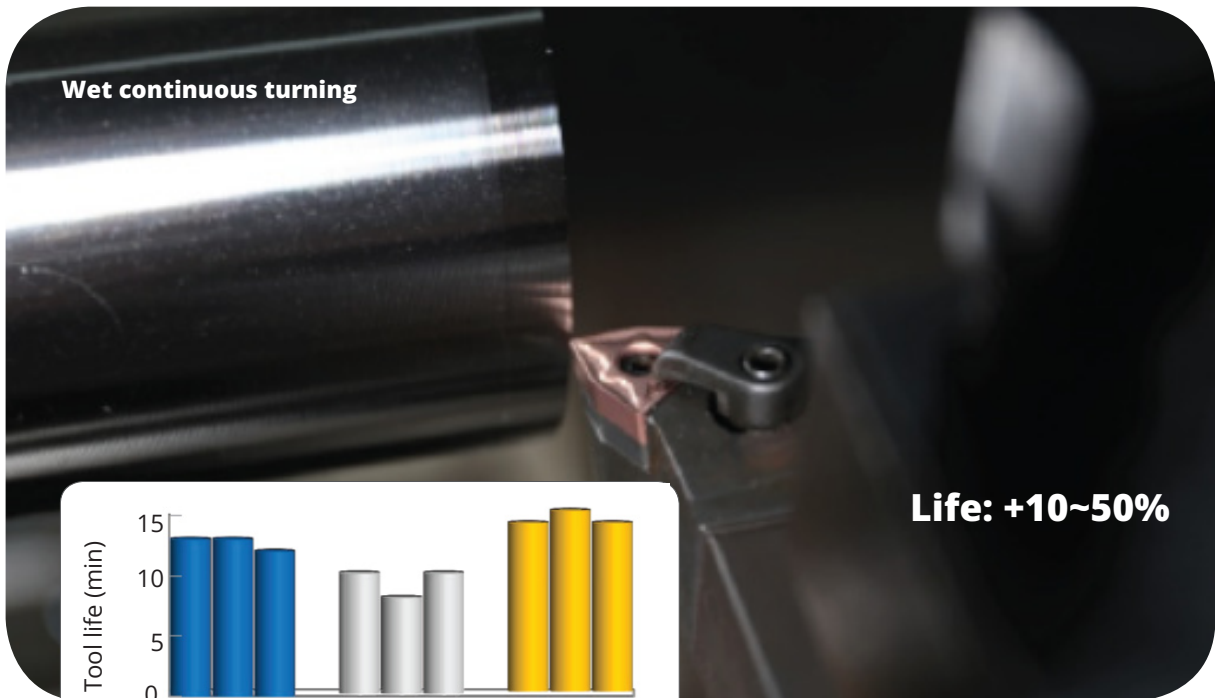
Hard Champagne Outer Layer Technology



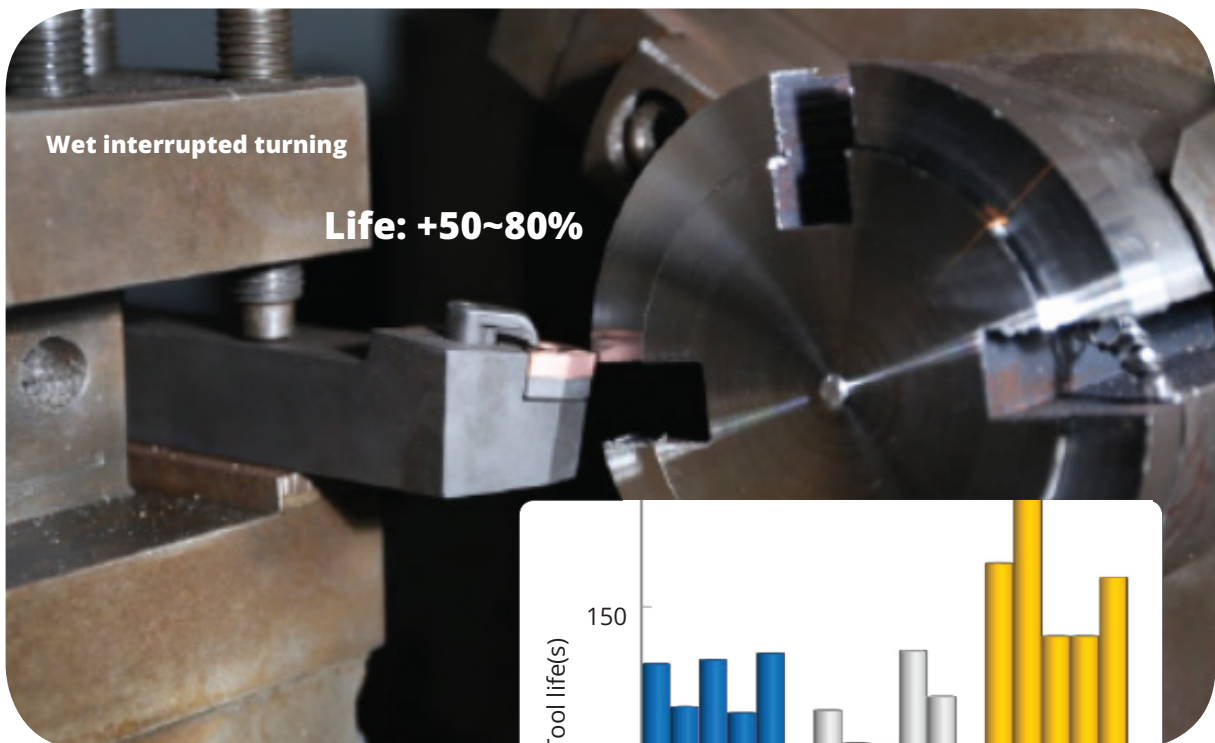
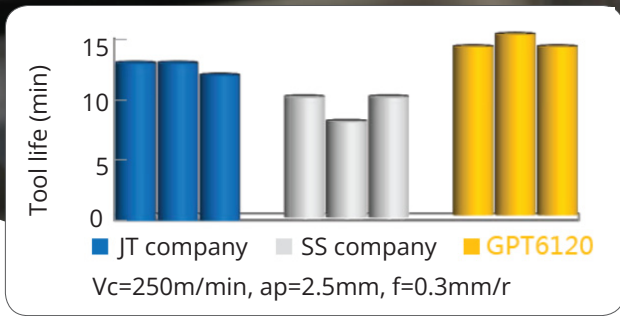
Internal test

Excellent Durability

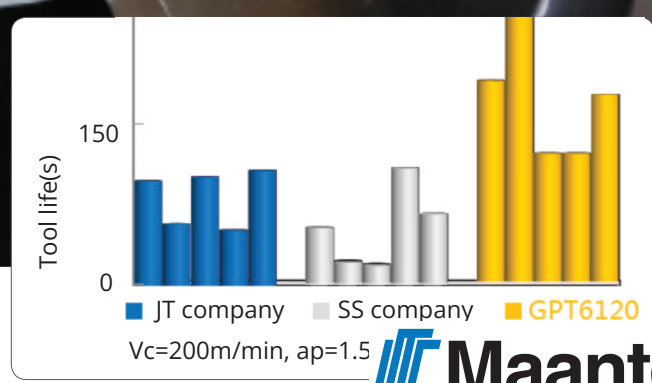
Internal performance evaluation: 1045 ordinary steel (HB280)
Wet turning continuously and intermittently



Life: +10~50%



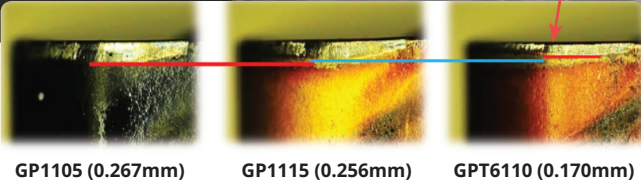
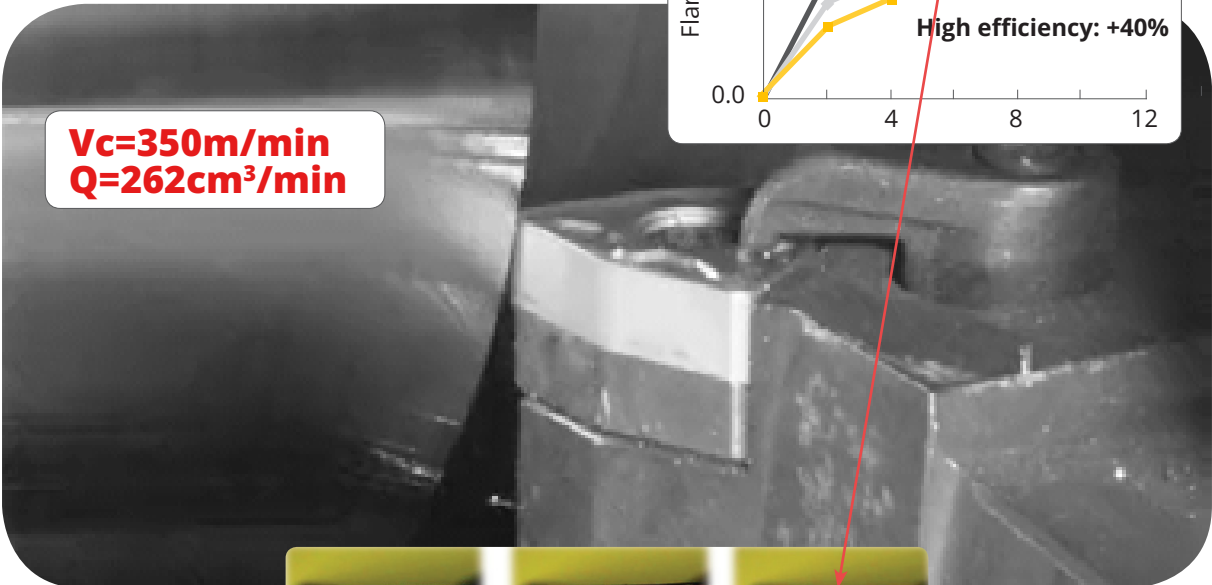
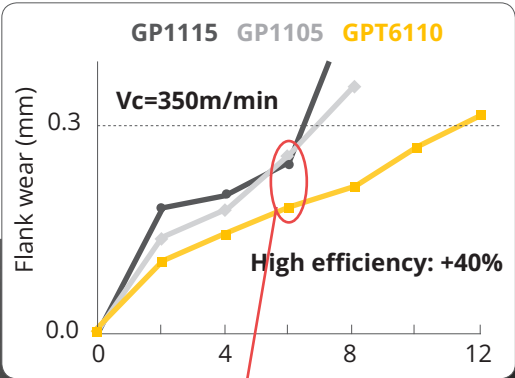
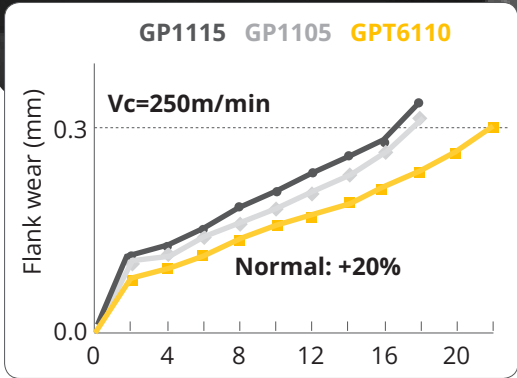
Life: +50~80%



Internal test

Outstanding High Efficiency Application

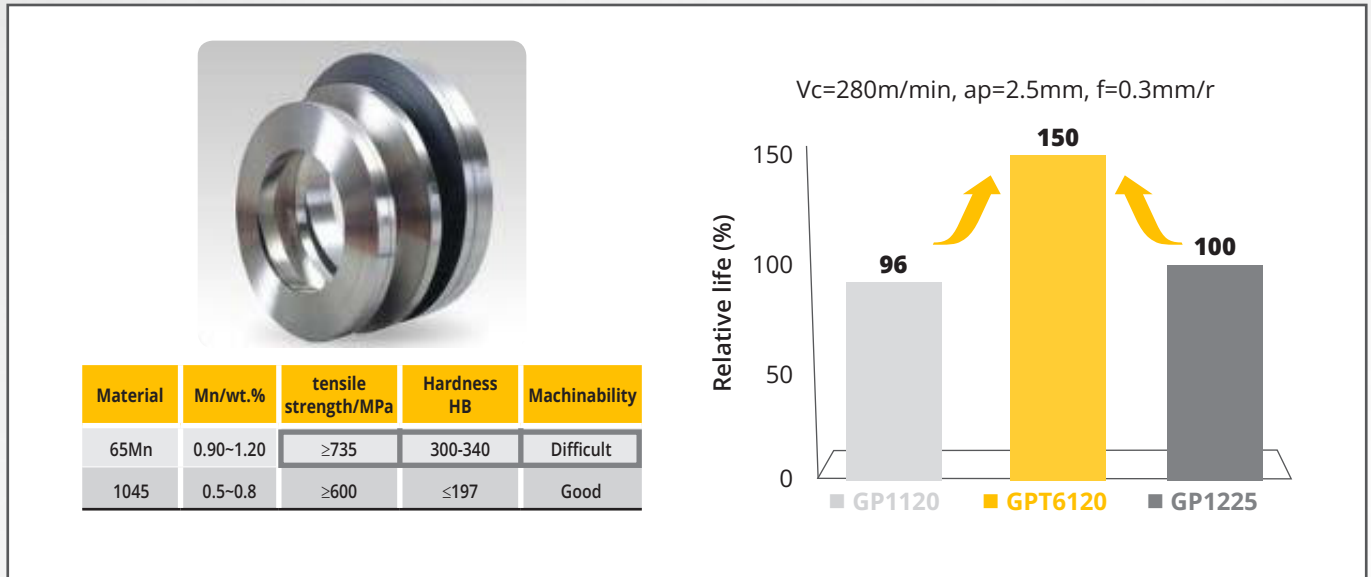
Comparison of new and old grade: 1045 ordinary steel (HB280)
Wet continuous turning



Internal test

The best choice of High hardness and high strength material processing

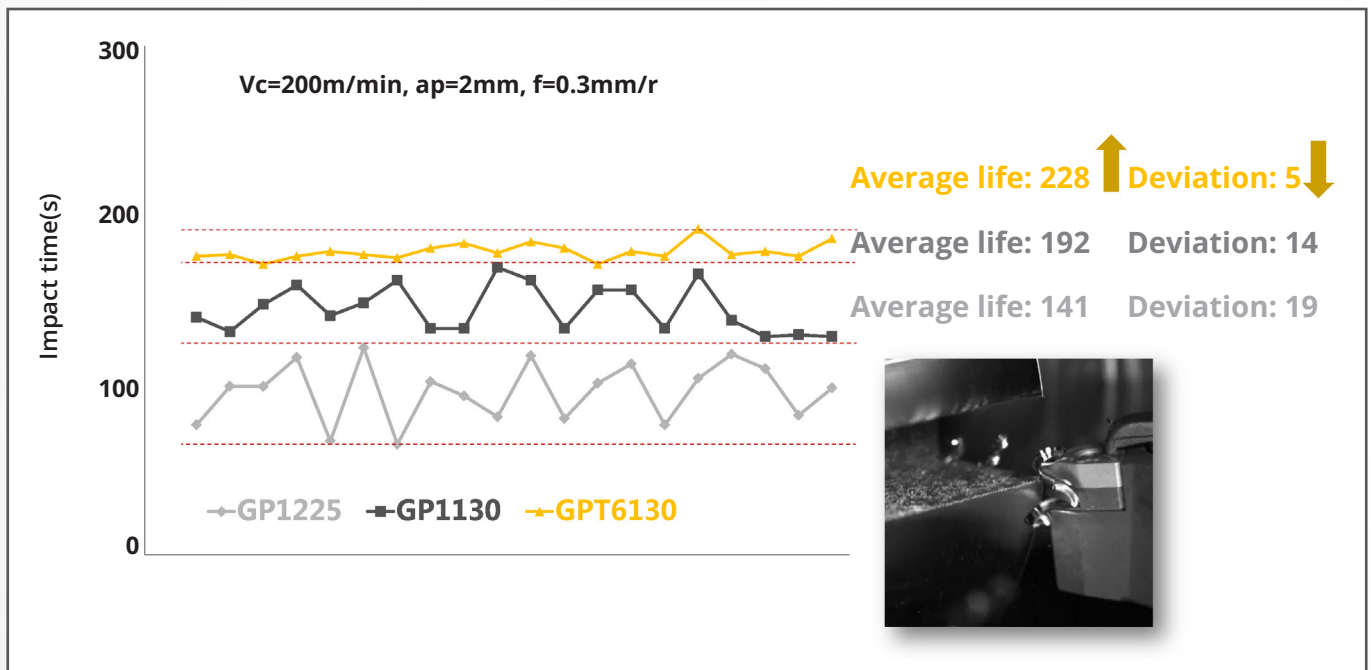
Comparison of new and old grade: 65Mn Spring steel (HB340)
Wet continuous turning



Internal test

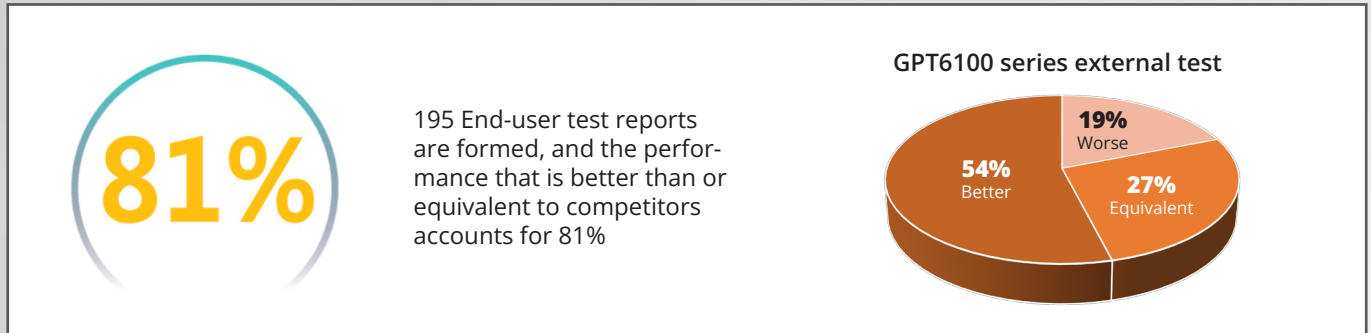
Superior Working stability

Comparison of new and old grade: 1045 round bar with slot (HB280)
Interrupted turning



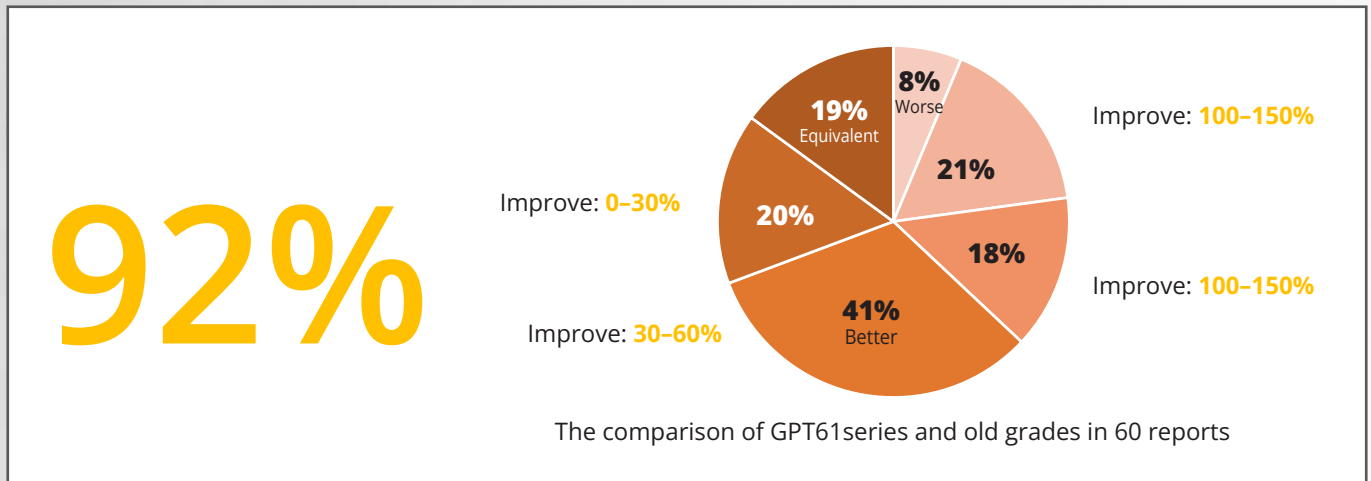
End-user application

Field test



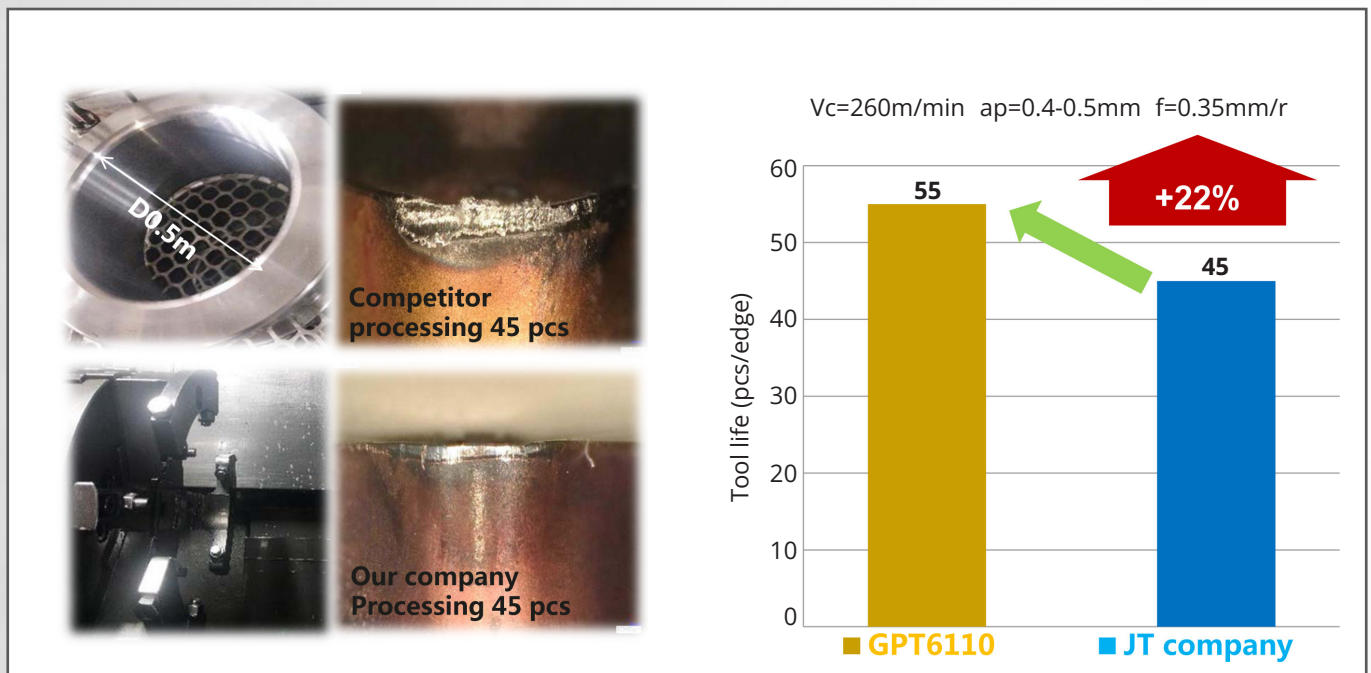
End-user application

The comparison of new and old grade in field tests



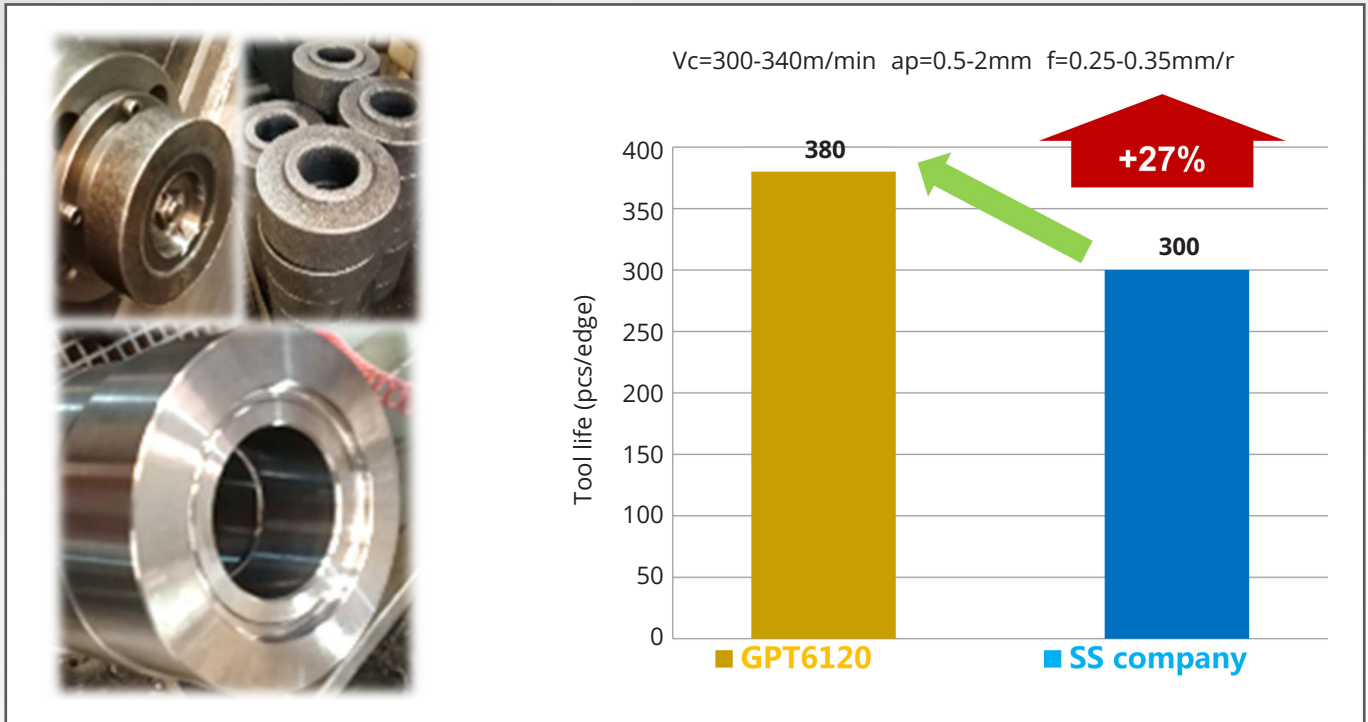
End-user application

Field test 1: Internal finishing. GCr15(HB170-207), WNMG080408-QM-GPT6110



End-user application

Field test 2: External and end face lightly intermittent turning, 8620RH(HB320), WNMG080408-QM-GPT6120



End-user application

Field test 3: External profile rough turning, $Q=226\text{ cm}^3/\text{min}$, 20CrMnTi TNMG160408-QM-GPT6130

