

AC6020M / AC6030M / AC6040M

AC6020M**AC6030M****AC6040M**

**AC6020M, AC6030M & AC6040M Grades
for machining stainless steels**

M

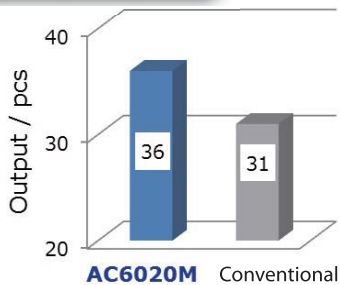


AC6020M & AC6030M Features & Benefits

- Sumitomo's new "Absotech platinum" CVD grade coating, with fine grains and high hardness, achieved 1.5 times higher wear resistance and twice the tool life than conventional grade
- New TiB₂ surface layer creates excellent adhesion and chipping resistance
- Expanded chipbreaker lineup with newly developed "EEM" type gives excellent chip control when roughing

AC6020M Application Examples

Excellent wear resistance.
1.2 times longer tool life.

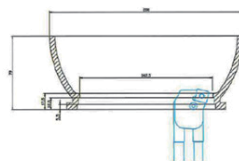


AC6020M

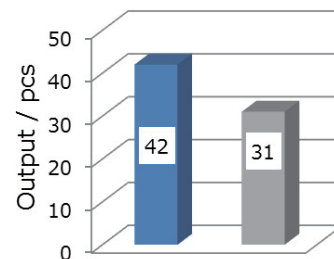
Conventional M30



Application Example Cutting Conditions:
Work Material: SUS304 (1.4301, 304) Adaptor
Insert: CNMG432
Cutting Condition: V_c : 400 sfm f : 0.0079 ipr
 a_p : 0.079", Wet



1.4 times longer tool life without chipping.



AC6020M

AC6020M Comp. A

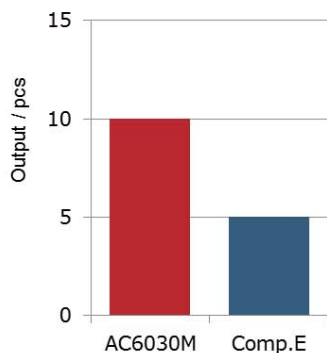


Application Example Cutting Conditions:
Work Material: SUS316L (1.4404, 316L) Casing
Insert: SNMG433
Cutting Condition: V_c : 600 sfm f : 0.0098 ipr
 a_p : 0.098", Wet

AC6030M Application Examples



Twice longer tool life with improved fracture resistance!

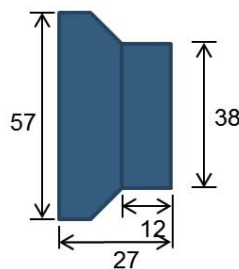


AC6030M

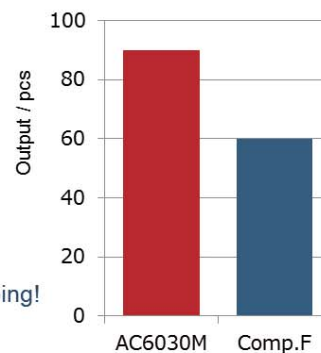
Competitor E



Application Example Cutting Conditions (Impeller):
Work Material: G-X6CrNi189 / Cast Stainless
Insert: CNMG432EEG
Cutting Condition: V_c : 530 sfm f : 0.008 ipr
 a_p : 0.078", Wet



1.5 times longer tool life without chipping!



AC6030M

Competitor F



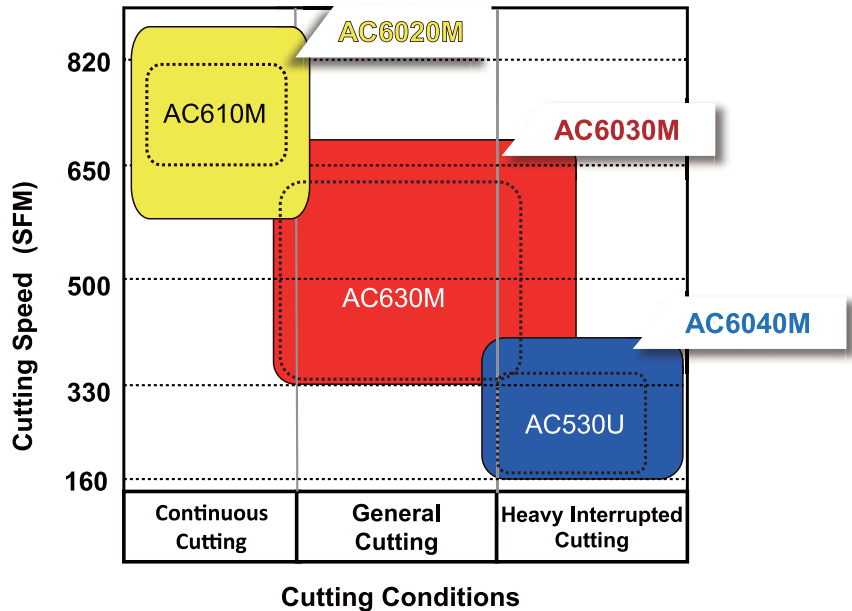
Application Example Cutting Conditions (probe):
Work Material: X5CrNiMo1810 / 316 Stainless
Insert: WNMG432EMU
Cutting Condition: V_c : 600 sfm f : 0.011 ipr
 a_p : 0.118", Wet



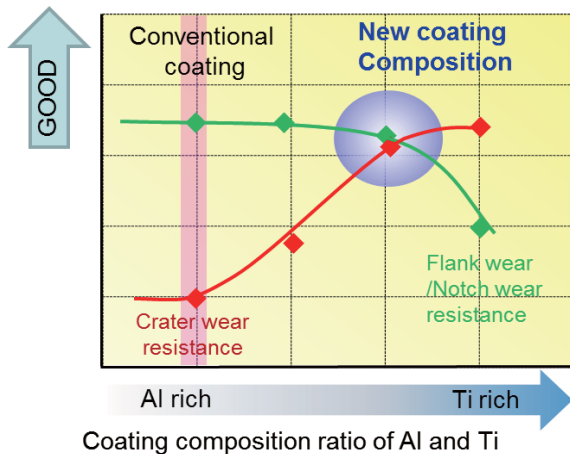
AC6040M Features & Benefits

- Sumitomo's new "Absotech Bronze" PVD grade coating improves wear resistance, adhesion resistance, and fracture resistance which extends tool life - reducing your cost per part
- Expanded chipbreaker lineup with newly developed "EEM" type gives excellent chip control when roughing

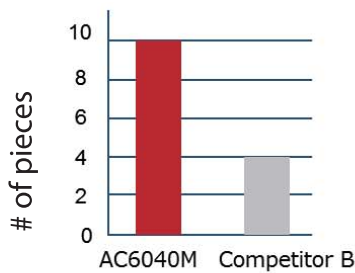
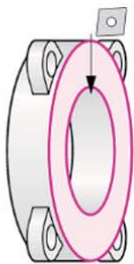
Cutting Conditions



Wear Resistance Chart



AC6040M Application Examples

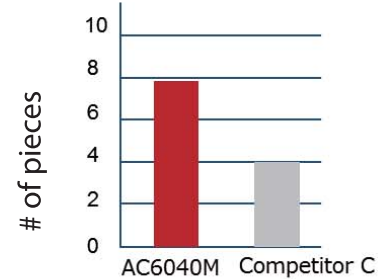
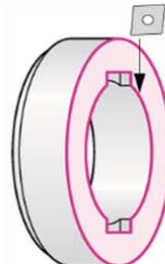


2.6 times longer tool life without breakage!

AC6040M



Competitor B



2.0 times longer tool life!

AC6040M



Competitor C



Application Example Cutting Conditions (flange):

Work Material: X5CrNiMo1810 / 316 Stainless

Insert: CNMG432EGU

Cutting Condition: V_c : 650 - 1,175 sfm f : 0.005 ipr
 a_p : 0.016", Wet

Application Example Cutting Conditions (coupling):

Work Material: G-X6CrNi189 / Cast Stainless

Insert: WNMG432EEG

Cutting Condition: V_c : 230 - 600 sfm f : 0.006 ipr
 a_p : 0.098", Wet



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