

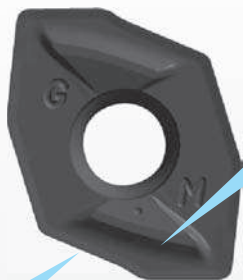
design developed through comprehensive technology

● 3 chipbreakers to cover various materials

◆ GM Chipbreaker...General Cutting

For Steel: PR1230

For Cast Iron: PR1210



① Wider chipbreaker can cover variety of materials

② Good balance of cutting edge strength and sharp cutting

for general cutting



Optimized cutting edge strength, sharpness and chip control

◆ GH Chipbreaker...Tough Edge



1st recommended chipbreaker for hard materials interrupted operation

Cutting edge strength oriented design of Chipbreaker

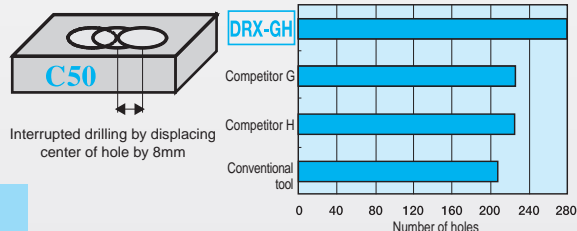
② Cutting edge strength oriented design

① Wider chipbreaker control breakage by pressed chips

For hard materials, interrupted machining: PR1230

• Chipping resistance comparison

Vc=80m/min, f=0.08mm/rev., H=10mm, Dc=ø20mm, 3D type, WET, C50 (S50C)



Better chipping resistance than competitors

◆ SM Chipbreaker...Sharp Cutting, for Deeper Drilling

For Stainless Steel, Low Carbon Steel: PR1225

For deep drilling of difficult to control chip materials such as stainless steel and low carbon steel

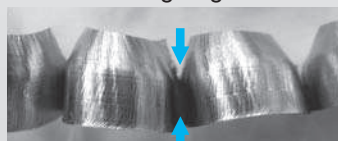


Sharp cutting with large rake angle
Stable chip control owing to newly designed chipbreaker and U-shaped cutting edge

② Sharp cutting by large rake angle

① U-shaped cutting edge
Breaks chips by creating cracks from both ends

Outstanding chip control achieved by splitting chips from the leading edges



Chip breaking system of SM chipbreaker (Outer edge)

