

SYMBOL DESCRIPTIONS

Tool material



Ultra micro grain carbide

Ultra micro grain carbide is used as the substrate material.



High grade high alloy HSS

High grade high alloy HSS is used as the substrate material.



Cobalt high speed steel

Cobalt high speed steel is used as the substrate material.



High speed steel

High speed steel is used as the substrate material.

Coating



MIRACLE Coating

The original MIRACLE (Al,Ti)N coating. Also suitable for dry cutting.



DP Coating

New generation coating suitable for each materials.



UP Coating



VIOLET Coating

Increased tool life of 2—3 times that of TiN coated products.



Diamond Coating

The original CVD diamond coating. Also suitable for CFRP drilling.

Web thinning



X web thinning

X web thinning is used at the drill point.



XR web thinning

XR web thinning is used at the drill point.

Angle and sharp corner edge



Point angle

Indicates the drill point angle at the tip.