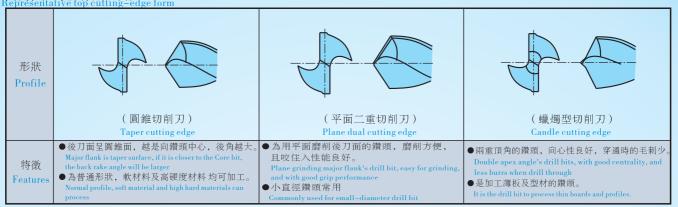
醫用工具及配件系列(鑽針、骨鑽、骨科工具系列)Medical tools and parts series

(Drill points、Orthopedic drills、Orthopedic tools series) 医療器具及び部品シリーズ(ドリルピン、骨ドリル、整形外科工具(超高耐磨型/高耐衝撃用/高精密度) 钻尖种类及应用

drilltip and appliction ドリルポイントの種類とアプリケーション
◆具代表性的頂端切刃形狀
Representative top cutting-edge form

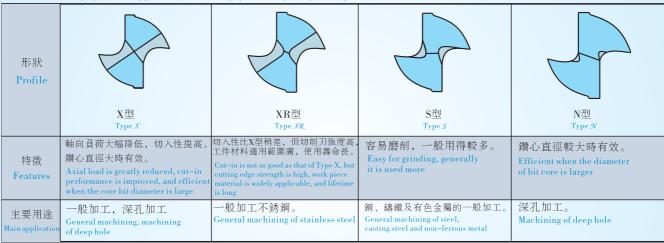
(Super high wear resistance/ high impact resistance application/high precision) (超高耐摩耗型/高耐衝擊用/高精密度)



◆ 橫刃修磨 Chisel edge grinding

鑽頭切削刀的前角越靠近鑽頭中心部越小,在横刀部分呈員前角。切削時中心部分擠壓材料,產生的切削抵抗占50%~70%,而横刀修 磨對于降低鑽頭的切削抵抗、排出横刀部分產生的切屑以及提高切入性都非常有效。

The closer, the rake angle of drill bit's cutting-edge to the drill bit, the smaller, the center part, and it is negative rake angle at chisel edge part. When cutting, the center part extrudes the materials, and the cutting resistance produced account for 50%-70%, but chisel edge grinding is very efficient in lowering the drill bit's cutting resistance, discharging the cutting produced at chisel edge part and improving cut–in performance



◆ 鑽頭加工時的切屑 Chips when drill bit is processed

1 1		
切屑種類 Cutting type	形狀 Profile	特徵與排出性能 Features and discharge performance
1. 圓錐螺旋形 Taper helical		從切削刃部流出的扇形切屑經容屑槽卷曲形成。在低進給加工延展性材料時產生。 數卷後即折斷則切屑排出性能好。 The fan chip from cutting edge is formed via chip flute ,when machining ductile materials at low feed, and will break when there are many rolls, so chip discharge is good
2.長齒形 Long gear	Market Market Conn.	生成切屑不卷曲,照原樣排出,排出時容易纏住鑽頭。 Formed chips don't crimp, and are discharged as is and easy to entwine drill bit when discharging
3.扇 形 Fan		切屑由容屑槽與加工孔壁控制分斷,在高進給情况下產生.切屑處理性能好。 Chips are controlled by chip flute and processed hole-wall, formed at high feed, and chip disposal is good
4.過渡折斷形 Over breaking		圓錐螺旋形切屑,受加工孔壁的約束,在即將成為長節距前,由于材料塑性不足,切屑斷裂。切屑排出順暢,切屑處理性能良好。 Taper helical chips are restrained by processed hold wall. Before growing into long way of mesh, chips are broken and discharged smoothly because of insufficient material plastics, so chip disposal is good
5.Z字形 Z-profile		生成的切屑由于容屑槽形狀、材料特性等被擠壓、折叠,容易引起槽内阻塞。 Formed chips are squeezed, folded due to profile of chip flute, material characteristics etc, and easily lead to jamming inside the flute
6.針形 Needle		脆質材料或小卷切屑受振動分斷產生。切屑排出順暢,但有時會在槽內阻塞。 Brittle materials or small rolls of chips are formed by vibration breaking, chips are discharged smoothly, but sometimes they are jammed inside the flute

