



德信發企業股份有限公司
DHF Precision Tool Co., Ltd.

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分公司 Branch

Italy / Pordenone
DHF Italia Srl <http://www.dhftalia.it>

Poland / Katowice
DHF Polska Sp z o.o.

經銷商 Distributor

Spain / Sondika-Bizkaia
JANA-TOOL, S.L.



BARREL
SHAPED
ENDMILLS

桶型刀
系列

Distributor



德信發於1999年創立，在台灣是個專業鎢鋼刀具的製造商，
專精於生產及研發高速及高硬度切削用鎢鋼銑刀。

我們在製造技術上不斷地測試及研發，提升產品競爭力。
在品質控管上也絕對嚴謹，並做好監控各生產流程的狀態，
堅持秉持高品質、高效率和高客戶滿意度的原則。

DHF is a professional cutting tool supplier established in 1999
located in Taiwan. We are specialized in producing HSC & HHC
Solid Carbide End Mills.

We constantly innovate and test our manufacturing techniques
to improve our product competitiveness. Also, our quality
control and production process are being carefully monitored
with strict standard. Because of DHF's persistence,
we can uphold our business principles: Outstanding Quality,
High Efficiency, and High Customer Satisfaction.

獲取最新 DHF 活動與技術情報：

For exclusive the latest DHF technical intelligence and news：



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品質承諾 追求卓越

Committed to Excellence



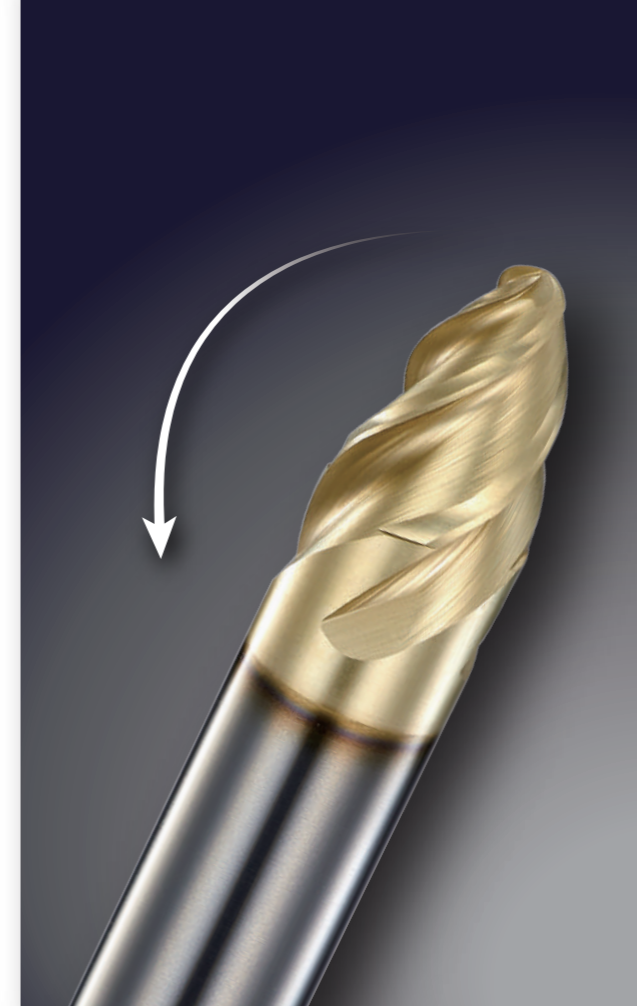
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MAIN FEATURES



產品分別有整體式「短桶(圓錐形)」、「長桶(水滴型)」設計及二代變形「刀頭式短桶型(圓錐形)」設計。

Barrel end mills are available in "Taper-Shape", "Drop-Shape", and "Exchangeable Head design with Taper-Shape".

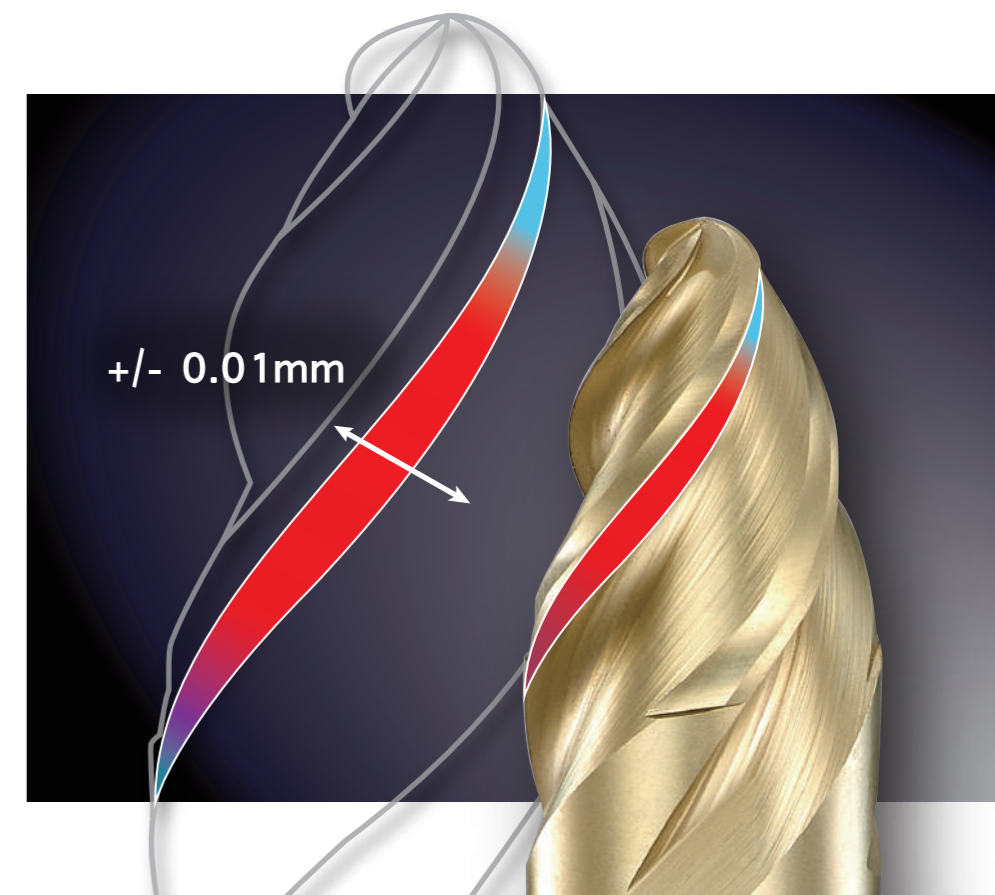


超大弧形設計，可加大「曲面 / 側壁」切削間隔距離，與傳統球刀比較可縮短 3~5 倍加工時間。

The large arc design with larger cutting stepovers on "Curved Surfaces / Side Walls", reducing 65% to 80% processing time compared to ball nose end mills.

高精度研磨生產管控，弧形輪廓公差控制在 $\pm 0.01\text{mm}$ 。

High-precision grinding and producing control ensure the arc profile tolerance is within $\pm 0.01\text{mm}$.





主要適用於五軸加工設備，廣泛應用於航太、模具、醫療等高精密產業。
其切削性能特別適合用於3D曲面工件的「半精加工」與「精加工」過程，
能有效提升加工精度與效率。

Primarily designed for 5-axis machine and is widely applied in aerospace, mold making,
and medical technology industries.
Suitable for 3D surface milling for both "Semi-Finishing" and "Finishing",
enhanced precision and efficiency in processing.

採用全新的 G18 複合鍍層設計，
特別適用於加工「難切削材料」，
如：鎳基高溫合金、鈦合金、
不鏽鋼材等。

經由 DHF 應用中心的測試結果顯示
在加工 1.2311 (P20)材料時，
「KB」刀具的使用壽命顯著優於歐洲
知名品牌。

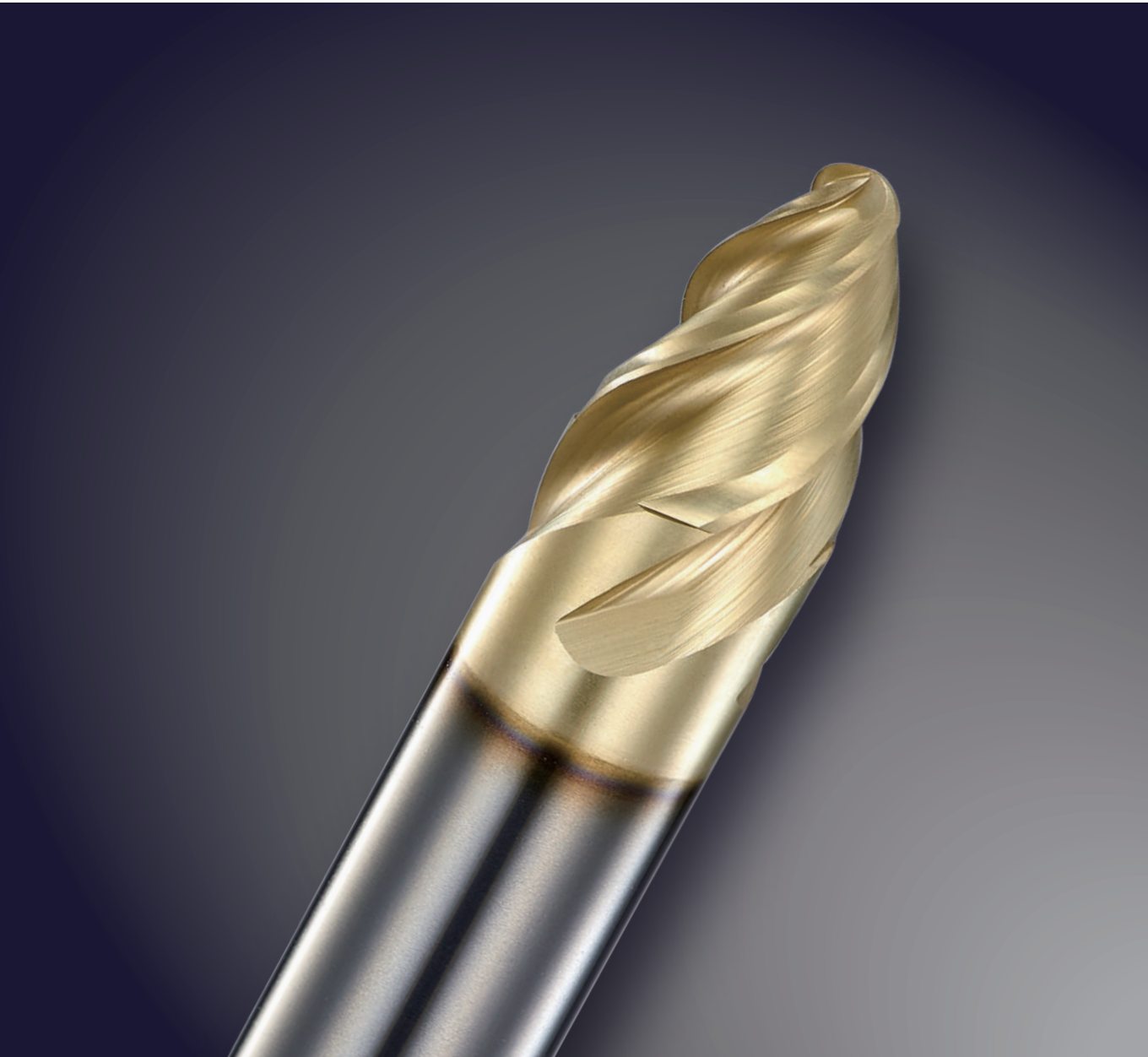
Featuring new G18 composite coating,
especially suitable for machining
"Difficult-To-Cut Materials" such as
nickel-based superalloy, titanium alloy,
and stainless steel.

Testing result of milling material
1.2311 (P20) at DHF Application Center
shows the tool life of DHF "KB" series
is significantly better than major
European brands.



KB 高精度桶型立銑刀

High-Precision Barrel End Mill



關鍵特性 Key Features



極超微粒。
Super micro grain.



4刃桶型刀。
4-Flute Barrel End Mill.



粉末顆粒是 0.4 μm。
Grain size : 0.4 μm.



材料硬度等級：HRc60。
Material hardness reaches up to HRc60.



螺旋角度：38°。
Helix Angle : 38°.



適用於難切削材料（濕式切削），
如：鎳基高溫合金、鈦合金、不鏽鋼材。
Suitable for difficult-to-cut materials (wet coolant),
such as nickel-based superalloy,
titanium alloy, and stainless steel.

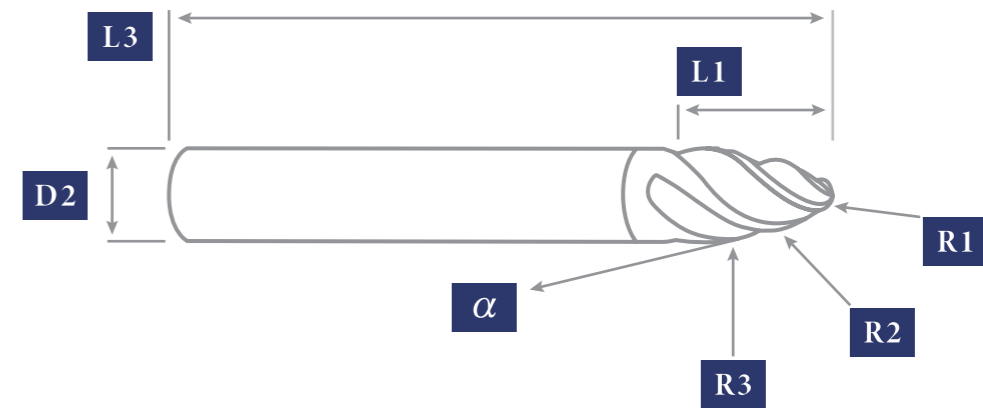
型號規格 Model Specifications



正面。
Front view



俯視圖。
Top view



型號 Type NO.	R1	R2	R3	刃長 L1	全長 L3	柄徑 D2	斜角 α
KB10R2R030	2	30	5	12.3	89	10	20
KB10R2R050	2	50	5	12.5	89	10	20
KB10R3R100	3	100	5	10.7	89	10	20
KB10R3R250	3	250	5	10.8	89	10	20

KLB 高精度長桶型立銑刀

High-Precision Long Neck End Mill



關鍵特性 Key Features



極超微粒。
Super micro grain.



粉末顆粒是 0.4 μm。
Grain size : 0.4 μm.



螺旋角度：20°。
Helix Angle : 20°.



4刃桶型刀。
4-Flute Barrel End Mill.



材料硬度等級：HRC60。
Material hardness reaches up to HRC60.



適用於難切削材料（濕式切削），
如：鎳基高溫合金、鈦合金、不鏽鋼材。
Suitable for difficult-to-cut materials (wet coolant),
such as nickel-based superalloy,
titanium alloy, and stainless steel.

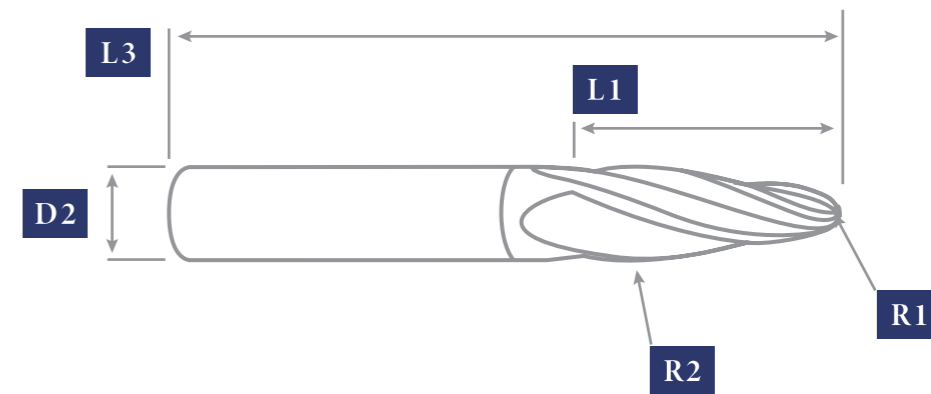
型號規格 Model Specifications



正面。
Front view.



俯視圖。
Top view.



型號 Type NO.	R1	R2	刃長 L1	全長 L3	柄徑 D2
KLB060R1R95	1	95	20.8	62	6
KLB080R1R90	1	90	24.5	68	8
KLB100R2R85	2	85	24.7	72	10
KLB120R2R80	2	80	27.3	83	12
KLB160R3R75	3	75	30.1	92	16

X-KB 高精度桶型立銑刀頭

High-Precision Barrel End Mill



關鍵特性 Key Features



極超微粒。
Super micro grain.



粉末顆粒是 0.4 μm。
Grain size : 0.4 μm.



螺旋角度：38°。
Helix Angle : 38°.



4刃桶型刀。
4-Flute Barrel End Mill.



材料硬度等級：HRC60。
Material hardness reaches up to HRC60.



適用於難切削材料（濕式切削），
如：鎳基高溫合金、鈦合金、不鏽鋼材。
Suitable for difficult-to-cut materials (wet coolant),
such as nickel-based superalloy,
titanium alloy, and stainless steel.

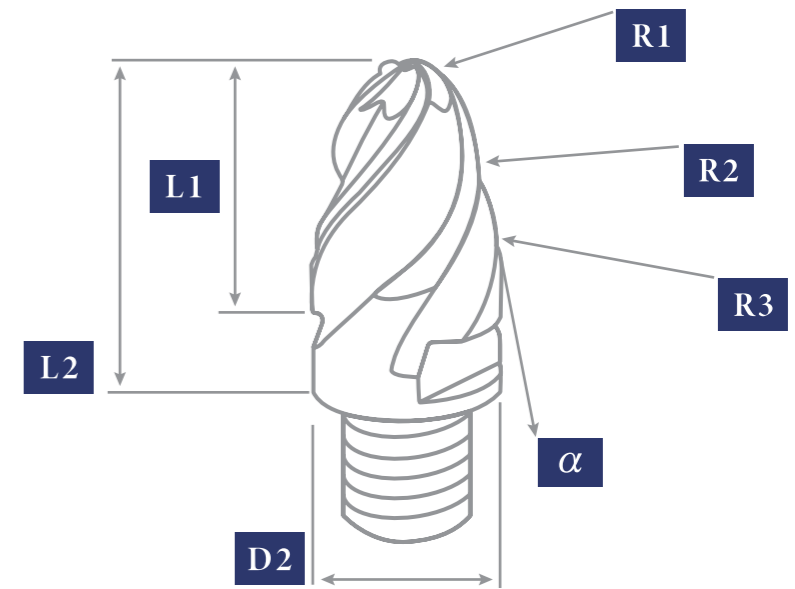
型號規格 Model Specifications



正面。
Front view.



俯視圖。
Top view.



型號 Type NO.	R1	R2	R3	刃長 L1	刃長 L2	柄徑 D2	斜角 α	螺牙 M	鎖固板手型號 Spanner Type No.
X-KB10R2R030	2	30	5	12.3	18.1	10	20	M7-3P	K10
X-KB10R2R050	2	50	5	12.5	18.1	10	20	M7-3P	K10
X-KB10R3R100	3	100	5	10.7	18.1	10	20	M7-3P	K10
X-KB10R3R250	3	250	5	10.8	18.1	10	20	M7-3P	K10

刀具測試比較報告

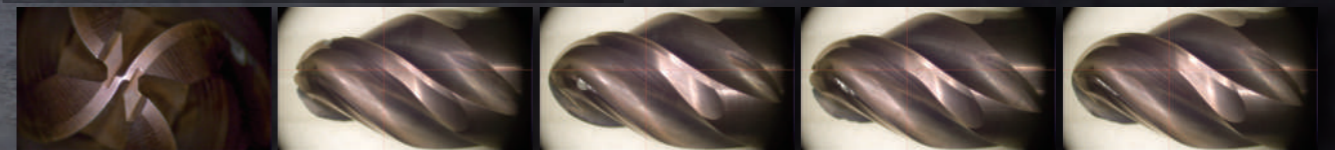
Tool Test Comparison Report



DHF KB10R3R100



European brand S COMPANY



型號 Type NO.	加工材料 Work Material	刀具伸長量 Extension Length	切削速度 Cutting Speed (m/min)	迴轉速度 Speed (min ⁻¹)	進給速度 Feed (mm/min)	加工方式 Milling Method
KB10R3R100	1.2311 (P20)	45mm	125	4000	1800	3D銑 3D Milling
S COMPANY	1.2311 (P20)	45mm	125	4000	1800	3D銑 3D Milling

型號 Type NO.	加工深度 Aa	加工寬度 Ap	鍍層 Coating	冷卻方式 Cooling Method	總測試加工時間 Total test Machining time	壽命百分比 Tool Life
KB10R3R100	1.5	0.2	G18	濕式水冷 Wet Coolant	240mins	100%
S COMPANY	1.5	0.2	X	濕式水冷 Wet Coolant	240mins	75%