



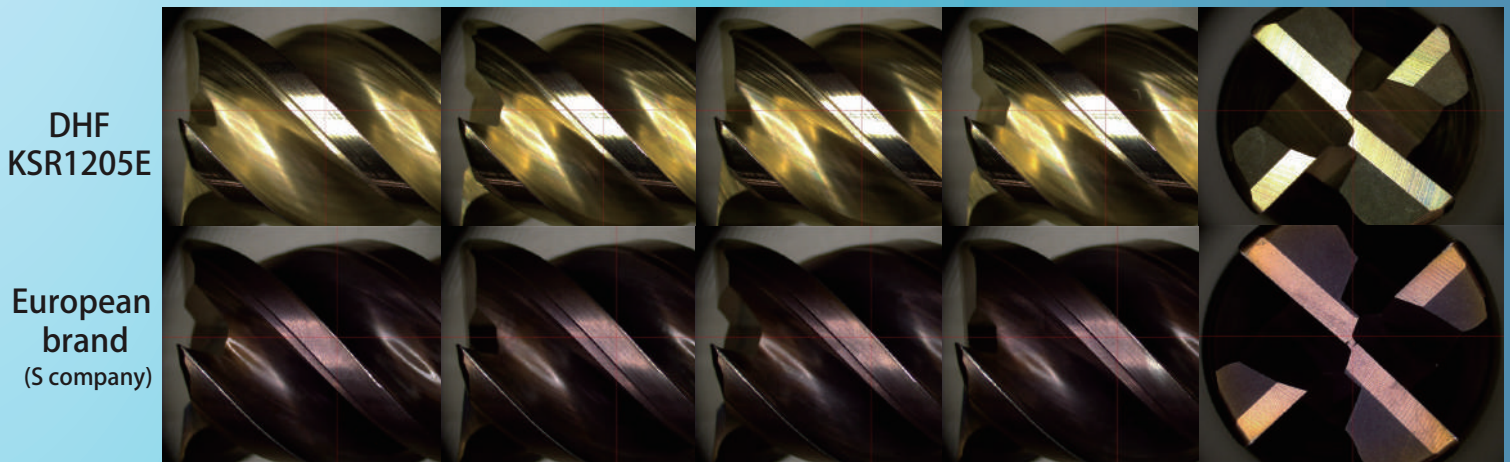
鎳基高溫合金系列

**Inconel** series

# NEW

## 鎳基高溫合金 系列 Inconel Series

### 刀具測試比較報告 Tool Test Report



型號 Type NO.	被切削材 Work Material	刀具伸長量 Extension Length	切削速度 Cutting Speed (m/min)	迴轉速度 Speed (min <sup>-1</sup> )	進給速度 Feed (mm/min)	加工深度 (Aa) Cut of depth	加工寬度 (Ap) Cut of width	加工方式 Milling Type	鍍層 Coating	冷卻方式 Coolant type	總測試 加工時間 Total test time	壽命 百分比 Tool life
DHF-KSR1205E	Inconel 718	40 mm	55	1500	250	10	0.5	側銑 Side milling	G18	濕式 Wet	120min	100%
European brand (S company)	Inconel 718	40 mm	55	1500	250	10	0.5	側銑 Side milling	X	濕式 Wet	120min	90%

### 特長介紹 Feature

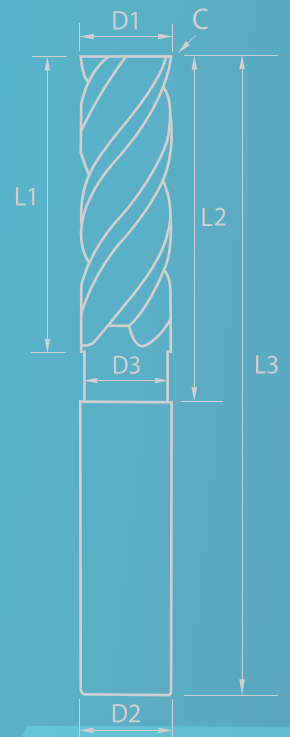
1. 突破加工<Inconel> 鎳基高溫合金的難題，效能及刀具壽命極佳。
2. 特殊的工藝設計，刀具剛性良好、於加工中抗震性更加良好。
3. 複合式的G18新鍍層設計、刀具更耐磨。
4. 系列產品針對<Inconel> <鎳基高溫合金>加工應用Vc值、可達50 (m/min)以上。
5. 經DHF應用中心測試對比加工Inconel 718，KSR刀具壽命優於歐洲大品牌。
  - I. Overcoming the challenges of machining Inconel and Nickel-based superalloy, with excellent performance and tool life.
  - II. Special geometry design with good rigidity and better vibration resistance during processing.
  - III. The new composite G18 coating design with better wear-resistant.
  - IV. Vc value can reach 50 (m/min) and above, when machining Inconel and nickel-based superalloy.
  - V. After testing Inconel 718 by DHF Application Center, the tool life of <KSR> is better than major European brands.

# KSE



## 抗震高效能立銑刀 End Mills

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	C 倒角 Chamfer	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia	側固 Weldon
KSE0304S	3	3.05	0.035	4	6	50	6	
KSE0304	3	2.85	0.035	8	12	50	6	
KSE0304E	3	2.85	0.035	6	10	57	6	
KSE0404S	4	4.05	0.045	5	9	50	6	
KSE0404	4	3.8	0.045	11	15	50	6	
KSE0404E	4	3.8	0.045	8	13	57	6	
KSE0504S	5	5.05	0.055	7	10	50	6	
KSE0504	5	4.75	0.055	13	18	50	6	
KSE0504E	5	4.75	0.055	10	16	57	6	
KSE0604S	6	X	0.075	8	X	50	6	
KSE0604	6	5.7	0.075	16	20	50	6	
KSE0604E	6	5.7	0.075	12	18	57	6	★
KSE0604L	6	5.7	0.075	21	26	65	6	★
KSE0804S	8	X	0.1	11	X	58	8	
KSE0804	8	7.6	0.1	20	25	60	8	
KSE0804E	8	7.6	0.1	16	25	63	8	★
KSE0804L	8	7.6	0.1	32	37	75	8	★
KSE1004S	10	X	0.125	13	X	58	10	
KSE1004	10	9.5	0.125	25	32	75	10	
KSE1004E	10	9.5	0.125	20	29	72	10	★
KSE1004L	10	9.5	0.125	40	47	89	10	★
KSE1204S	12	X	0.15	15	X	67	12	
KSE1204	12	11.4	0.15	30	35	75	12	
KSE1204E	12	11.4	0.15	24	35	83	12	★
KSE1204L	12	11.4	0.15	45	53	100	12	★
KSE1604S	16	X	0.2	19	X	73	16	
KSE1604	16	15.2	0.2	40	48	100	16	
KSE1604E	16	15.2	0.2	32	42	92	16	★
KSE1604L	16	15.2	0.2	55	65	115	16	★



附註 ★ 標示為含有製作側固  
Note The Star marks refer to be with Weldon flat design.



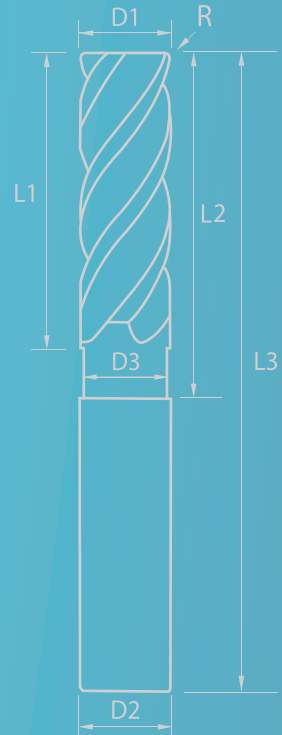
# KSR



## 抗震高效能圓鼻角立銑刀 End Mills

### Corner Radius

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia
KSR0302S	3	3.05	0.2	4	6	50	6
KSR0302	3	2.85	0.2	8	12	50	6
KSR0302E	3	2.85	0.2	6	10	57	6
KSR0402S	4	4.05	0.2	5	9	50	6
KSR0402	4	3.8	0.2	11	15	50	6
KSR0402E	4	3.8	0.2	8	13	57	6
KSR0405S	4	4.05	0.2	5	9	50	6
KSR0405	4	3.8	0.2	11	15	50	6
KSR0405E	4	3.8	0.2	8	13	57	6
KSR0502S	5	5.05	0.2	7	10	50	6
KSR0502	5	4.75	0.2	13	18	50	6
KSR0502E	5	4.75	0.2	10	16	57	6
KSR0602S	6	X	0.2	8	X	50	6
KSR0602	6	5.7	0.2	16	20	50	6
KSR0602L	6	5.7	0.2	21	26	65	6
KSR0605S	6	X	0.5	8	X	50	6
KSR0605	6	5.7	0.5	16	20	50	6
KSR0605L	6	5.7	0.5	21	26	65	6
KSR0610	6	5.7	1	16	20	50	6
KSR0610L	6	5.7	1	21	26	65	6
KSR0805S	8	X	0.5	11	X	58	8
KSR0805	8	7.6	0.5	20	25	60	8
KSR0805L	8	7.6	0.5	32	37	75	8
KSR0810	8	7.6	1	20	25	60	8
KSR0810L	8	7.6	1	32	37	75	8
KSR1005S	10	X	0.5	13	X	58	10
KSR1005	10	9.5	0.5	25	32	75	10
KSR1005L	10	9.5	0.5	40	47	89	10
KSR1010S	10	X	1	13	X	58	10
KSR1010	10	9.5	1	25	32	75	10
KSR1010L	10	9.5	1	40	47	89	10
KSR1015	10	9.5	1.5	25	32	75	10
KSR1020	10	9.5	2	25	32	75	10
KSR1020L	10	9.5	2	40	47	89	10
KSR1030	10	9.5	3	25	32	75	10
KSR1030L	10	9.5	3	40	47	89	10
KSR1205S	12	X	0.5	15	X	67	12
KSR1205	12	11.4	0.5	30	35	75	12
KSR1205L	12	11.4	0.5	45	53	100	12
KSR1210S	12	X	1	15	X	67	12
KSR1210	12	11.4	1	30	35	75	12
KSR1210L	12	11.4	1	45	53	100	12
KSR1215	12	11.4	1.5	30	35	75	12
KSR1220	12	11.4	2	30	35	75	12
KSR1220L	12	11.4	2	45	53	100	12
KSR1230	12	11.4	3	30	35	75	12
KSR1230L	12	11.4	3	45	53	100	12
KSR1605S	16	X	0.5	19	X	73	16
KSR1605	16	15.2	0.5	40	48	100	16
KSR1605L	16	15.2	0.5	55	65	115	16
KSR1610S	16	X	1	19	X	73	16
KSR1610	16	15.2	1	40	48	100	16
KSR1610L	16	15.2	1	55	65	115	16
KSR1620	16	15.2	2	40	48	100	16
KSR1620L	16	15.2	2	55	65	115	16
KSR1630	16	15.2	3	40	48	100	16
KSR1630L	16	15.2	3	55	65	115	16



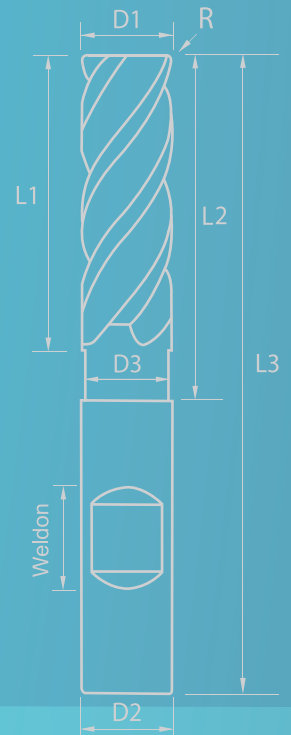
# KSR



## 抗震高效能圓鼻角立銑刀 End Mills

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia	側固 Weldon
KSR0602E	6	5.7	0.2	12	18	57	6	★
KSR0605E	6	5.7	0.5	12	18	57	6	★
KSR0610E	6	5.7	1	12	18	57	6	★
KSR0805E	8	7.6	0.5	16	25	63	8	★
KSR0810E	8	7.6	1	16	25	63	8	★
KSR1005E	10	9.5	0.5	20	29	72	10	★
KSR1010E	10	9.5	1	20	29	72	10	★
KSR1015E	10	9.5	1.5	20	29	72	10	★
KSR1020E	10	9.5	2	20	29	72	10	★
KSR1030E	10	9.5	3	20	29	72	10	★
KSR1205E	12	11.4	0.5	24	35	83	12	★
KSR1210E	12	11.4	1	24	35	83	12	★
KSR1215E	12	11.4	1.5	24	35	83	12	★
KSR1220E	12	11.4	2	24	35	83	12	★
KSR1230E	12	11.4	3	24	35	83	12	★
KSR1605E	16	15.2	0.5	32	42	92	16	★
KSR1610E	16	15.2	1	32	42	92	16	★
KSR1620E	16	15.2	2	32	42	92	16	★
KSR1630E	16	15.2	3	32	42	92	16	★

### Corner Radius



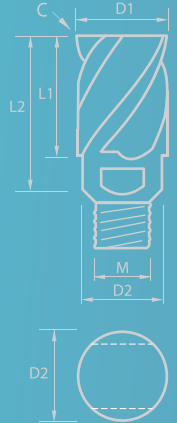
附註  
Note ★標示為含有製作側固  
The Star marks refer to be with Weldon flat design.

# X-KSE



## 抗震高效能立銑刀頭 End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	C 倒角 Chamfer	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-KSE0804	8	8	0.1	7.8	12.1	M5-3P	K08
X-KSE1004	10	10	0.125	9.8	16.1	M7-3P	K10
X-KSE1204	12	12	0.15	11.7	20.3	M8-3P	K12
X-KSE1604	16	16	0.2	15.6	25.7	M10-3P	K16
X-KSE2004	20	20	0.25	19.5	31.1	M12-3P	K20
X-KSE2504	25	25	0.3	24.4	39.3	M16-3P	K25



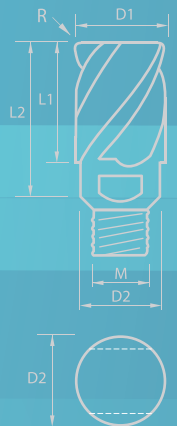
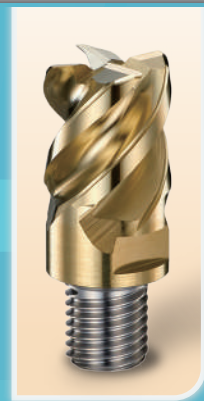
# X-KSR



## 抗震高效能圓鼻角立銑刀頭 End Mills

### Corner Radius

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	R 圓角 Corner R	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-KSR0805	8	8	0.5	7.8	12.1	M5-3P	K08
X-KSR0810	8	8	1	7.8	12.1	M5-3P	K08
X-KSR1005	10	10	0.5	9.8	16.1	M7-3P	K10
X-KSR1010	10	10	1	9.8	16.1	M7-3P	K10
X-KSR1015	10	10	1.5	9.8	16.1	M7-3P	K10
X-KSR1020	10	10	2	9.8	16.1	M7-3P	K10
X-KSR1030	10	10	3	9.8	16.1	M7-3P	K10
X-KSR1205	12	12	0.5	11.7	20.3	M8-3P	K12
X-KSR1210	12	12	1	11.7	20.3	M8-3P	K12
X-KSR1220	12	12	2	11.7	20.3	M8-3P	K12
X-KSR1230	12	12	3	11.7	20.3	M8-3P	K12
X-KSR1605	16	16	0.5	15.6	25.7	M10-3P	K16
X-KSR1610	16	16	1	15.6	25.7	M10-3P	K16
X-KSR1620	16	16	2	15.6	25.7	M10-3P	K16
X-KSR1630	16	16	3	15.6	25.7	M10-3P	K16
X-KSR1640	16	16	4	15.6	25.7	M10-3P	K16
X-KSR2005	20	20	0.5	19.5	31.1	M12-3P	K20
X-KSR2010	20	20	1	19.5	31.1	M12-3P	K20
X-KSR2020	20	20	2	19.5	31.1	M12-3P	K20
X-KSR2030	20	20	3	19.5	31.1	M12-3P	K20
X-KSR2040	20	20	4	19.5	31.1	M12-3P	K20

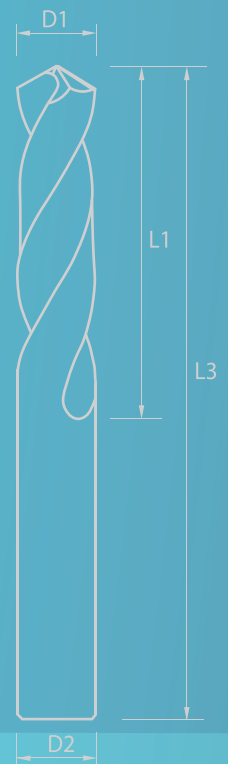


# DAN



## 鎢鋼鑽頭 Carbide Drills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.	公制螺牙鑽孔 尺寸備註
DAN025	2.5	14.3	62	6	○
DAN030	3.0	17.1	62	6	
DAN033	3.3	18.8	62	6	○
DAN035	3.5	20	62	6	
DAN040	4.0	22.8	66	6	
DAN042	4.2	24	66	6	○
DAN045	4.5	25.7	66	6	
DAN050	5.0	28.6	66	6	○
DAN055	5.5	31.4	66	6	
DAN060	6.0	34.3	66	6	
DAN065	6.5	37.1	79	8	
DAN068	6.8	38.8	79	8	○
DAN070	7.0	40	79	8	
DAN080	8.0	45.7	79	8	
DAN085	8.5	48.5	103	10	○
DAN087	8.7	49.7	103	10	
DAN090	9.0	51.4	103	10	
DAN100	10.0	57.1	103	10	
DAN102	10.2	58.2	118	12	○
DAN110	11.0	62.8	118	12	
DAN120	12.0	68.5	118	12	○



註記: ○者為公制螺牙鑽孔尺寸  
Remark: ○ refers to metric thread drill size



# 德信發企業股份有限公司

DHF Precision Tool Co., Ltd.

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