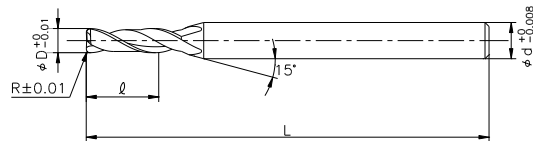


# KSER-2

超硬2枚刃コーナーR付エンドミル  
Tungsten Carbide 2 Flutes Corner R Endmill

■刃長が刃径の1倍～最大10倍までのコーナーR付エンドミルです  
Line-upped flute length 1 times to max 10 times of flute diameter



被削材 Workpiece					
一般構造鋼 General Structural Steel	炭素鋼 Carbon Steel	合金鋼・工具鋼 Alloy Steel Tool Steel	プリハードン鋼 Pre-Harden Steel	鋳鉄 Cast Iron	アルミ合金 Aluminum Alloy
○	○	○	○	○	○

●切削条件表はP188に記載

●Cutting conditions are recommended on page 188.

単位[寸法:mm/価格:円]  
Unit [size:mm/Retail Price:JPY]

品番 Code No.	刃径 D Flute Diameter	コーナーR Corner R	刃長 ℓ Flute Length	全長 L Total Length	柄径 d Shank Diameter	標準価格 Retail Price
KSER-210005010	1	R0.05	1	50	4	8,600
KSER-210005020	1	R0.05	2	50	4	8,600
KSER-210005030	1	R0.05	3	50	4	8,600
KSER-210005040	1	R0.05	4	50	4	9,400
KSER-210005050	1	R0.05	5	50	4	10,200
KSER-210005060	1	R0.05	6	50	4	11,300
KSER-210005070	1	R0.05	7	50	4	11,700
KSER-210005080	1	R0.05	8	50	4	12,500
KSER-210005090	1	R0.05	9	50	4	13,700
KSER-210005100	1	R0.05	10	50	4	14,100
KSER-210010010	1	R0.1	1	50	4	8,600
KSER-210010020	1	R0.1	2	50	4	8,600
KSER-210010030	1	R0.1	3	50	4	8,600
KSER-210010040	1	R0.1	4	50	4	9,400
KSER-210010050	1	R0.1	5	50	4	10,200
KSER-210010060	1	R0.1	6	50	4	11,300
KSER-210010070	1	R0.1	7	50	4	11,700
KSER-210010080	1	R0.1	8	50	4	12,500
KSER-210010090	1	R0.1	9	50	4	13,700
KSER-210010100	1	R0.1	10	50	4	14,100
KSER-210020010	1	R0.2	1	50	4	8,600
KSER-210020020	1	R0.2	2	50	4	8,600
KSER-210020030	1	R0.2	3	50	4	8,600
KSER-210020040	1	R0.2	4	50	4	9,400
KSER-210020050	1	R0.2	5	50	4	10,200
KSER-210020060	1	R0.2	6	50	4	11,300
KSER-210020070	1	R0.2	7	50	4	11,700
KSER-210020080	1	R0.2	8	50	4	12,500
KSER-210020090	1	R0.2	9	50	4	13,700
KSER-210020100	1	R0.2	10	50	4	14,100

品番 Code No.	刃径 D Flute Diameter	コーナーR Corner R	刃長 ℓ Flute Length	全長 L Total Length	柄径 d Shank Diameter	標準価格 Retail Price
KSER-210030010	1	R0.3	1	50	4	8,600
KSER-210030020	1	R0.3	2	50	4	8,600
KSER-210030030	1	R0.3	3	50	4	8,600
KSER-210030040	1	R0.3	4	50	4	9,400
KSER-210030050	1	R0.3	5	50	4	10,200
KSER-210030060	1	R0.3	6	50	4	11,300
KSER-210030070	1	R0.3	7	50	4	11,700
KSER-210030080	1	R0.3	8	50	4	12,500
KSER-210030090	1	R0.3	9	50	4	13,700
KSER-210030100	1	R0.3	10	50	4	14,100
KSER-215005020	1.5	R0.05	2	50	4	8,600
KSER-215005040	1.5	R0.05	4	50	4	8,600
KSER-215005060	1.5	R0.05	6	50	4	10,200
KSER-215005080	1.5	R0.05	8	50	4	11,700
KSER-215005100	1.5	R0.05	10	50	4	12,500
KSER-215005120	1.5	R0.05	12	50	4	13,700
KSER-215005150	1.5	R0.05	15	50	4	14,800
KSER-215010020	1.5	R0.1	2	50	4	8,600
KSER-215010040	1.5	R0.1	4	50	4	8,600
KSER-215010060	1.5	R0.1	6	50	4	10,200
KSER-215010080	1.5	R0.1	8	50	4	11,700
KSER-215010100	1.5	R0.1	10	50	4	12,500
KSER-215010120	1.5	R0.1	12	50	4	13,700
KSER-215010150	1.5	R0.1	15	50	4	14,800
KSER-215020020	1.5	R0.2	2	50	4	8,600
KSER-215020040	1.5	R0.2	4	50	4	8,600
KSER-215020060	1.5	R0.2	6	50	4	10,200
KSER-215020080	1.5	R0.2	8	50	4	11,700
KSER-215020100	1.5	R0.2	10	50	4	12,500
KSER-215020120	1.5	R0.2	12	50	4	13,700

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# KSER-2

品番 Code No.	刃径 D Flute Diameter	コーナー R Corner R	刃長 ℓ Flute Length	全長 L Total Length	柄径 d Shank Diameter	標準価格 Retail Price
KSER-215020150	1.5	R0.2	15	50	4	14,800
KSER-215030020	1.5	R0.3	2	50	4	8,600
KSER-215030040	1.5	R0.3	4	50	4	8,600
KSER-215030060	1.5	R0.3	6	50	4	10,200
KSER-215030080	1.5	R0.3	8	50	4	11,700
KSER-215030100	1.5	R0.3	10	50	4	12,500
KSER-215030120	1.5	R0.3	12	50	4	13,700
KSER-215030150	1.5	R0.3	15	50	4	14,800
KSER-215050020	1.5	R0.5	2	50	4	8,600
KSER-215050040	1.5	R0.5	4	50	4	8,600
KSER-215050060	1.5	R0.5	6	50	4	10,200
KSER-215050080	1.5	R0.5	8	50	4	11,700
KSER-215050100	1.5	R0.5	10	50	4	12,500
KSER-215050120	1.5	R0.5	12	50	4	13,700
KSER-215050150	1.5	R0.5	15	50	4	14,800
KSER-220005020	2	R0.05	2	50	4	8,600
KSER-220005040	2	R0.05	4	50	4	8,600
KSER-220005060	2	R0.05	6	50	4	8,600
KSER-220005080	2	R0.05	8	50	4	9,400
KSER-220005100	2	R0.05	10	50	4	10,200
KSER-220005120	2	R0.05	12	50	4	10,900
KSER-220005140	2	R0.05	14	50	4	11,700
KSER-220005160	2	R0.05	16	60	4	12,500
KSER-220005180	2	R0.05	18	60	4	13,700
KSER-220005200	2	R0.05	20	60	4	14,800
KSER-220010020	2	R0.1	2	50	4	8,600
KSER-220010040	2	R0.1	4	50	4	8,600
KSER-220010060	2	R0.1	6	50	4	8,600
KSER-220010080	2	R0.1	8	50	4	9,400
KSER-220010100	2	R0.1	10	50	4	10,200
KSER-220010120	2	R0.1	12	50	4	10,900
KSER-220010140	2	R0.1	14	50	4	11,700
KSER-220010160	2	R0.1	16	60	4	12,500
KSER-220010180	2	R0.1	18	60	4	13,700
KSER-220010200	2	R0.1	20	60	4	14,800
KSER-220020020	2	R0.2	2	50	4	8,600
KSER-220020040	2	R0.2	4	50	4	8,600
KSER-220020060	2	R0.2	6	50	4	8,600
KSER-220020080	2	R0.2	8	50	4	9,400
KSER-220020100	2	R0.2	10	50	4	10,200
KSER-220020120	2	R0.2	12	50	4	10,900
KSER-220020140	2	R0.2	14	50	4	11,700
KSER-220020160	2	R0.2	16	60	4	12,500
KSER-220020180	2	R0.2	18	60	4	13,700
KSER-220020200	2	R0.2	20	60	4	14,800
KSER-220030020	2	R0.3	2	50	4	8,600
KSER-220030040	2	R0.3	4	50	4	8,600
KSER-220030060	2	R0.3	6	50	4	8,600

品番 Code No.	刃径 D Flute Diameter	コーナー R Corner R	刃長 ℓ Flute Length	全長 L Total Length	柄径 d Shank Diameter	標準価格 Retail Price
KSER-220030080	2	R0.3	8	50	4	9,400
KSER-220030100	2	R0.3	10	50	4	10,200
KSER-220030120	2	R0.3	12	50	4	10,900
KSER-220030140	2	R0.3	14	50	4	11,700
KSER-220030160	2	R0.3	16	60	4	12,500
KSER-220030180	2	R0.3	18	60	4	13,700
KSER-220030200	2	R0.3	20	60	4	14,800
KSER-220050020	2	R0.5	2	50	4	8,600
KSER-220050040	2	R0.5	4	50	4	8,600
KSER-220050060	2	R0.5	6	50	4	8,600
KSER-220050080	2	R0.5	8	50	4	9,400
KSER-220050100	2	R0.5	10	50	4	10,200
KSER-220050120	2	R0.5	12	50	4	10,900
KSER-220050140	2	R0.5	14	50	4	11,700
KSER-220050160	2	R0.5	16	60	4	12,500
KSER-220050180	2	R0.5	18	60	4	13,700
KSER-220050200	2	R0.5	20	60	4	14,800
KSER-230005030	3	R0.05	3	50	6	9,400
KSER-230005060	3	R0.05	6	50	6	9,400
KSER-230005090	3	R0.05	9	50	6	9,400
KSER-230005120	3	R0.05	12	50	6	10,200
KSER-230005150	3	R0.05	15	60	6	10,900
KSER-230005180	3	R0.05	18	60	6	11,700
KSER-230005210	3	R0.05	21	60	6	12,500
KSER-230005250	3	R0.05	25	70	6	13,700
KSER-230005300	3	R0.05	30	70	6	14,800
KSER-230010030	3	R0.1	3	50	6	9,400
KSER-230010060	3	R0.1	6	50	6	9,400
KSER-230010090	3	R0.1	9	50	6	9,400
KSER-230010120	3	R0.1	12	50	6	10,200
KSER-230010150	3	R0.1	15	60	6	10,900
KSER-230010180	3	R0.1	18	60	6	11,700
KSER-230010210	3	R0.1	21	60	6	12,500
KSER-230010250	3	R0.1	25	70	6	13,700
KSER-230010300	3	R0.1	30	70	6	14,800
KSER-230020030	3	R0.2	3	50	6	9,400
KSER-230020060	3	R0.2	6	50	6	9,400
KSER-230020090	3	R0.2	9	50	6	9,400
KSER-230020120	3	R0.2	12	50	6	10,200
KSER-230020150	3	R0.2	15	60	6	10,900
KSER-230020180	3	R0.2	18	60	6	11,700
KSER-230020210	3	R0.2	21	60	6	12,500
KSER-230020250	3	R0.2	25	70	6	13,700
KSER-230020300	3	R0.2	30	70	6	14,800
KSER-230030030	3	R0.3	3	50	6	9,400
KSER-230030060	3	R0.3	6	50	6	9,400
KSER-230030090	3	R0.3	9	50	6	9,400
KSER-230030120	3	R0.3	12	50	6	10,200

超硬エンドミル  
Carbide Endmill

# KSER-2

品番 Code No.	刃径 D Flute Diameter	コーナー R Corner R	刃長 L Flute Length	全長 L Total Length	柄径 d Shank Diameter	標準価格 Retail Price
KSER-230030150	3	R0.3	15	60	6	10,900
KSER-230030180	3	R0.3	18	60	6	11,700
KSER-230030210	3	R0.3	21	60	6	12,500
KSER-230030250	3	R0.3	25	70	6	13,700
KSER-230030300	3	R0.3	30	70	6	14,800
KSER-230050030	3	R0.5	3	50	6	9,400
KSER-230050060	3	R0.5	6	50	6	9,400
KSER-230050090	3	R0.5	9	50	6	9,400
KSER-230050120	3	R0.5	12	50	6	10,200
KSER-230050150	3	R0.5	15	60	6	10,900
KSER-230050180	3	R0.5	18	60	6	11,700
KSER-230050210	3	R0.5	21	60	6	12,500
KSER-230050250	3	R0.5	25	70	6	13,700
KSER-230050300	3	R0.5	30	70	6	14,800
KSER-230100030	3	R1	3	50	6	9,400
KSER-230100060	3	R1	6	50	6	9,400
KSER-230100090	3	R1	9	50	6	9,400
KSER-230100120	3	R1	12	50	6	10,200
KSER-230100150	3	R1	15	60	6	10,900
KSER-230100180	3	R1	18	60	6	11,700
KSER-230100210	3	R1	21	60	6	12,500
KSER-230100250	3	R1	25	70	6	13,700
KSER-230100300	3	R1	30	70	6	14,800
KSER-240005040	4	R0.05	4	50	6	10,200
KSER-240005080	4	R0.05	8	50	6	10,200
KSER-240005120	4	R0.05	12	50	6	10,200
KSER-240005160	4	R0.05	16	60	6	10,900
KSER-240005200	4	R0.05	20	60	6	12,500
KSER-240005250	4	R0.05	25	70	6	14,100
KSER-240005300	4	R0.05	30	70	6	15,200
KSER-240005350	4	R0.05	35	80	6	16,400
KSER-240005400	4	R0.05	40	80	6	17,500
KSER-240010040	4	R0.1	4	50	6	10,200
KSER-240010080	4	R0.1	8	50	6	10,200
KSER-240010120	4	R0.1	12	50	6	10,200
KSER-240010160	4	R0.1	16	60	6	10,900
KSER-240010200	4	R0.1	20	60	6	12,500
KSER-240010250	4	R0.1	25	70	6	14,100
KSER-240010300	4	R0.1	30	70	6	15,200
KSER-240010350	4	R0.1	35	80	6	16,400
KSER-240010400	4	R0.1	40	80	6	17,500
KSER-240020040	4	R0.2	4	50	6	10,200
KSER-240020080	4	R0.2	8	50	6	10,200
KSER-240020120	4	R0.2	12	50	6	10,200
KSER-240020160	4	R0.2	16	60	6	10,900
KSER-240020200	4	R0.2	20	60	6	12,500
KSER-240020250	4	R0.2	25	70	6	14,100
KSER-240020300	4	R0.2	30	70	6	15,200

品番 Code No.	刃径 D Flute Diameter	コーナー R Corner R	刃長 L Flute Length	全長 L Total Length	柄径 d Shank Diameter	標準価格 Retail Price
KSER-240020350	4	R0.2	35	80	6	16,400
KSER-240020400	4	R0.2	40	80	6	17,500
KSER-240030040	4	R0.3	4	50	6	10,200
KSER-240030080	4	R0.3	8	50	6	10,200
KSER-240030120	4	R0.3	12	50	6	10,200
KSER-240030160	4	R0.3	16	60	6	10,900
KSER-240030200	4	R0.3	20	60	6	12,500
KSER-240030250	4	R0.3	25	70	6	14,100
KSER-240030300	4	R0.3	30	70	6	15,200
KSER-240030350	4	R0.3	35	80	6	16,400
KSER-240030400	4	R0.3	40	80	6	17,500
KSER-240050040	4	R0.5	4	50	6	10,200
KSER-240050080	4	R0.5	8	50	6	10,200
KSER-240050120	4	R0.5	12	50	6	10,200
KSER-240050160	4	R0.5	16	60	6	10,900
KSER-240050200	4	R0.5	20	60	6	12,500
KSER-240050250	4	R0.5	25	70	6	14,100
KSER-240050300	4	R0.5	30	70	6	15,200
KSER-240050350	4	R0.5	35	80	6	16,400
KSER-240050400	4	R0.5	40	80	6	17,500
KSER-240100040	4	R1	4	50	6	10,200
KSER-240100080	4	R1	8	50	6	10,200
KSER-240100120	4	R1	12	50	6	10,200
KSER-240100160	4	R1	16	60	6	10,900
KSER-240100200	4	R1	20	60	6	12,500
KSER-240100250	4	R1	25	70	6	14,100
KSER-240100300	4	R1	30	70	6	15,200
KSER-240100350	4	R1	35	80	6	16,400
KSER-240100400	4	R1	40	80	6	17,500

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切削条件参考  
Referential Cutting Conditions



刃 径 Flute Diameter	切込み巾 Cutting Width	切込み深さ Cutting Depth
	Ar	Ad
$\phi 1 \leq D$	0.1D	0.8D

被削材 Workpiece	炭素鋼・一般構造用鋼 Carbon Steel・ General Structural Steel S55C・SS材		合金鋼・工具鋼 Alloy Steel・Tool Steel  SCM・SKT・SKS・SKD		プリハードン鋼 Pre-Harden Steel  HPM-1・NAK55・SKT		鑄 鉄 Cast iron  FC・FCD	
	刃 径 Flute Diameter mm	回転数 Revolution min <sup>-1</sup>	送り速度 Feed mm/min	回転数 Revolution min <sup>-1</sup>	送り速度 Feed mm/min	回転数 Revolution min <sup>-1</sup>	送り速度 Feed mm/min	回転数 Revolution min <sup>-1</sup>
1	13,500	50	11,500	45	8,600	35	13,500	50
1.5	8,700	65	7,500	55	6,000	45	8,700	65
2	6,800	70	5,900	60	4,700	50	6,800	70
3	4,600	90	4,000	75	3,200	65	4,600	90
4	3,500	100	3,200	90	2,500	70	3,500	100
備 考 Remarks	<ul style="list-style-type: none"> <li>回転数と送り速度は同じ割合で調整して下さい。</li> <li>刃長により回転数、送り速度を調整して下さい。 (上記は 5D 程度の条件)</li> <li>切削油を使用して下さい。</li> </ul>				<ul style="list-style-type: none"> <li>Adjust Revolution and Feed Speed at the same rate.</li> <li>Adjust Revolution and Feed Speed according to Flute Length. The above list is shown in case of the cutting conditions of around 5D.</li> <li>Use Cutting Oil.</li> </ul>			