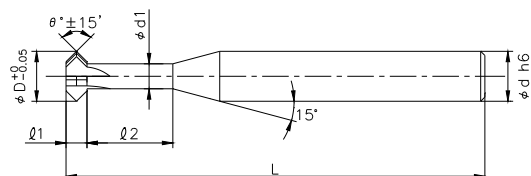


KUMW-4

超硬裏面取りカッター 両角タイプ Tungsten Carbide Chamfering Cutter Single Angular type

■直刃4枚刃、60°、90°（両角）の両面取りカッターです
Straight 4-blade, 60°, 90° (double-edged) double-sided cutter



単位[寸法:mm]
Unit [size:mm]

●切削条件表はP242に記載

●Cutting conditions are recommended on page 242.



品番 Code No.	外径 D Flute Diameter	有効長 ℓ2 Effective Length	刃長 ℓ1 Flute Length	首径 d1 Neck Diameter	全長 L Total Length	柄径 d Shank Diameter
KUMW-490010S	1	3	0.25	0.65	50	4
KUMW-490010L	1	6	0.25	0.65	50	4
KUMW-490011S	1.1	3	0.3	0.7	50	4
KUMW-490011L	1.1	6	0.3	0.7	50	4
KUMW-490012S	1.2	3	0.35	0.75	50	4
KUMW-490012L	1.2	6	0.35	0.75	50	4
KUMW-490013S	1.3	3	0.4	0.8	50	4
KUMW-490013L	1.3	6	0.4	0.8	50	4
KUMW-490014S	1.4	3	0.4	0.9	50	4
KUMW-490014L	1.4	6	0.4	0.9	50	4
KUMW-490015S	1.5	4	0.4	1	50	4
KUMW-490015L	1.5	8	0.4	1	50	4
KUMW-490016S	1.6	4	0.5	1	50	4
KUMW-490016L	1.6	8	0.5	1	50	4
KUMW-490017S	1.7	4	0.6	1	50	4
KUMW-490017L	1.7	8	0.6	1	50	4
KUMW-490018S	1.8	4	0.6	1.1	50	4
KUMW-490018L	1.8	8	0.6	1.1	50	4
KUMW-490019S	1.9	4	0.6	1.2	50	4
KUMW-490019L	1.9	8	0.6	1.2	50	4
KUMW-490020S	2	5	0.8	1.1	50	4
KUMW-490020L	2	10	0.8	1.1	50	4
KUMW-490021S	2.1	5	0.8	1.2	50	4
KUMW-490021L	2.1	10	0.8	1.2	50	4
KUMW-490022S	2.2	5	0.8	1.3	50	4
KUMW-490022L	2.2	10	0.8	1.3	50	4
KUMW-490023S	2.3	5	0.8	1.4	50	4
KUMW-490023L	2.3	10	0.8	1.4	50	4
KUMW-490024S	2.4	5	0.8	1.5	50	4
KUMW-490024L	2.4	10	0.8	1.5	50	4

品番 Code No.	外径 D Flute Diameter	有効長 ℓ2 Effective Length	刃長 ℓ1 Flute Length	首径 d1 Neck Diameter	全長 L Total Length	柄径 d Shank Diameter
KUMW-490025S	2.5	6	1	1.4	50	4
KUMW-490025L	2.5	12	1	1.4	50	4
KUMW-490026S	2.6	6	1	1.5	50	4
KUMW-490026L	2.6	12	1	1.5	50	4
KUMW-490027S	2.7	6	1	1.6	50	4
KUMW-490027L	2.7	12	1	1.6	50	4
KUMW-490028S	2.8	6	1	1.7	50	4
KUMW-490028L	2.8	12	1	1.7	50	4
KUMW-490029S	2.9	6	1	1.8	50	4
KUMW-490029L	2.9	12	1	1.8	50	4
KUMW-490030S	3	8	1.2	1.7	50	4
KUMW-490030L	3	16	1.2	1.7	50	4
KUMW-490031S	3.1	8	1.2	1.8	50	4
KUMW-490031L	3.1	16	1.2	1.8	50	4
KUMW-490032S	3.2	8	1.2	1.9	50	4
KUMW-490032L	3.2	16	1.2	1.9	50	4
KUMW-490033S	3.3	8	1.2	2	50	4
KUMW-490033L	3.3	16	1.2	2	50	4
KUMW-490034S	3.4	8	1.2	2.1	50	4
KUMW-490034L	3.4	16	1.2	2.1	50	4
KUMW-490035S	3.5	9	1.4	2	50	4
KUMW-490035L	3.5	18	1.4	2	50	4
KUMW-490036S	3.6	9	1.4	2.1	50	4
KUMW-490036L	3.6	18	1.4	2.1	50	4
KUMW-490037S	3.7	9	1.4	2.2	50	4
KUMW-490037L	3.7	18	1.4	2.2	50	4
KUMW-490038S	3.8	9	1.4	2.3	50	4
KUMW-490038L	3.8	18	1.4	2.3	50	4
KUMW-490039S	3.9	9	1.4	2.4	50	4
KUMW-490039L	3.9	18	1.4	2.4	50	4
KUMW-490040S	4	10	1.6	2.3	50	4
KUMW-490040L	4	20	1.6	2.3	60	4
KUMW-490041S	4.1	10	1.6	2.4	50	6

KUMW-4

品番 Code No.	外径 D Flute Diameter	有効長 ℓ2 Effective Length	刃長 ℓ1 Flute Length	首径 d1 Neck Diameter	全長 L Total Length	柄径 d Shank Diameter
KUMW-490041L	4.1	20	1.6	2.4	60	6
KUMW-490042S	4.2	10	1.6	2.5	50	6
KUMW-490042L	4.2	20	1.6	2.5	60	6
KUMW-490043S	4.3	10	1.6	2.6	50	6
KUMW-490043L	4.3	20	1.6	2.6	60	6
KUMW-490044S	4.4	10	1.6	2.7	50	6
KUMW-490044L	4.4	20	1.6	2.7	60	6
KUMW-490045S	4.5	12	2	2.4	50	6
KUMW-490045L	4.5	24	2	2.4	60	6
KUMW-490046S	4.6	12	2	2.5	50	6
KUMW-490046L	4.6	24	2	2.5	60	6
KUMW-490047S	4.7	12	2	2.6	50	6
KUMW-490047L	4.7	24	2	2.6	60	6
KUMW-490048S	4.8	12	2	2.7	50	6
KUMW-490048L	4.8	24	2	2.7	60	6
KUMW-490049S	4.9	12	2	2.8	50	6
KUMW-490049L	4.9	24	2	2.8	60	6
KUMW-490050S	5	12	2.2	2.7	50	6
KUMW-490050L	5	24	2.2	2.7	60	6
KUMW-490051S	5.1	12	2.2	2.8	50	6
KUMW-490051L	5.1	24	2.2	2.8	60	6
KUMW-490052S	5.2	12	2.2	2.9	50	6
KUMW-490052L	5.2	24	2.2	2.9	60	6
KUMW-490053S	5.3	12	2.2	3	50	6
KUMW-490053L	5.3	24	2.2	3	60	6
KUMW-490054S	5.4	12	2.2	3.1	50	6
KUMW-490054L	5.4	24	2.2	3.1	60	6
KUMW-490055S	5.5	15	2.4	3	60	6
KUMW-490055L	5.5	30	2.4	3	70	6
KUMW-490056S	5.6	15	2.4	3.1	60	6
KUMW-490056L	5.6	30	2.4	3.1	70	6
KUMW-490057S	5.7	15	2.4	3.2	60	6
KUMW-490057L	5.7	30	2.4	3.2	70	6
KUMW-490058S	5.8	15	2.4	3.3	60	6
KUMW-490058L	5.8	30	2.4	3.3	70	6
KUMW-490059S	5.9	15	2.4	3.4	60	6
KUMW-490059L	5.9	30	2.4	3.4	70	6
KUMW-490060S	6	15	3	2.9	60	6
KUMW-490060L	6	30	3	2.9	70	6
KUMW-490065S	6.5	18	3	3.4	70	8
KUMW-490065L	6.5	35	3	3.4	80	8
KUMW-490070S	7	18	3.4	3.5	70	8
KUMW-490070L	7	35	3.4	3.5	80	8
KUMW-490075S	7.5	20	3.4	4	70	8
KUMW-490075L	7.5	40	3.4	4	80	8
KUMW-490080S	8	20	4	3.9	70	8
KUMW-490080L	8	40	4	3.9	80	8
KUMW-490085S	8.5	24	4	4.4	80	10

品番 Code No.	外径 D Flute Diameter	有効長 ℓ2 Effective Length	刃長 ℓ1 Flute Length	首径 d1 Neck Diameter	全長 L Total Length	柄径 d Shank Diameter
KUMW-490085L	8.5	45	4	4.4	100	10
KUMW-490090S	9	24	4.4	4.5	80	10
KUMW-490090L	9	45	4.4	4.5	100	10
KUMW-490095S	9.5	30	4.4	5	80	10
KUMW-490095L	9.5	50	4.4	5	100	10
KUMW-490100S	10	30	5	4.9	80	10
KUMW-490100L	10	50	5	4.9	100	10



品番 Code No.	外径 D Flute Diameter	有効長 ℓ2 Effective Length	刃長 ℓ1 Flute Length	首径 d1 Neck Diameter	全長 L Total Length	柄径 d Shank Diameter
KUMW-460010S	1	3	0.14	0.65	50	4
KUMW-460010L	1	6	0.14	0.65	50	4
KUMW-460015S	1.5	4	0.23	1	50	4
KUMW-460015L	1.5	8	0.23	1	50	4
KUMW-460020S	2	5	0.46	1.1	50	4
KUMW-460020L	2	10	0.46	1.1	50	4
KUMW-460025S	2.5	6	0.57	1.4	50	4
KUMW-460025L	2.5	12	0.57	1.4	50	4
KUMW-460030S	3	8	0.69	1.7	50	4
KUMW-460030L	3	16	0.69	1.7	50	4
KUMW-460035S	3.5	9	0.8	2	50	4
KUMW-460035L	3.5	18	0.8	2	50	4
KUMW-460040S	4	10	0.92	2.3	50	4
KUMW-460040L	4	20	0.92	2.3	60	4
KUMW-460045S	4.5	12	1.15	2.4	50	6
KUMW-460045L	4.5	24	1.15	2.4	60	6
KUMW-460050S	5	12	1.27	2.7	50	6
KUMW-460050L	5	24	1.27	2.7	60	6
KUMW-460055S	5.5	15	1.38	3	60	6
KUMW-460055L	5.5	30	1.38	3	70	6
KUMW-460060S	6	15	1.73	2.9	60	6
KUMW-460060L	6	30	1.73	2.9	70	6
KUMW-460065S	6.5	18	1.73	3.4	70	8
KUMW-460065L	6.5	35	1.73	3.4	80	8
KUMW-460070S	7	18	1.96	3.5	70	8
KUMW-460070L	7	35	1.96	3.5	80	8
KUMW-460075S	7.5	20	1.96	4	70	8
KUMW-460075L	7.5	40	1.96	4	80	8
KUMW-460080S	8	20	2.31	3.9	70	8
KUMW-460080L	8	40	2.31	3.9	80	8
KUMW-460085S	8.5	24	2.31	4.4	80	10
KUMW-460085L	8.5	45	2.31	4.4	100	10
KUMW-460090S	9	24	2.54	4.5	80	10
KUMW-460090L	9	45	2.54	4.5	100	10
KUMW-460095S	9.5	30	2.54	5	80	10
KUMW-460095L	9.5	50	2.54	5	100	10
KUMW-460100S	10	30	2.88	4.9	80	10
KUMW-460100L	10	50	2.88	4.9	100	10

KUMC-4、KUMW-4

切削条件参考

Referential Cutting Conditions

被削材 Workpiece	切削速度 Cutting Speed m/min	送り速度 Feed mm/rev
炭 素 工 具 鋼 Carbon Tool Steel	30～ 60	0.05 ～0.12
鑄 鉄 Cast Iron	30～ 80	0.05 ～0.12
合 金 鋼 Alloy Steel	25～ 70	0.03 ～0.08
プリハードン鋼 Pre-Harden Steel	15～ 40	0.02 ～0.06
ス テ ン レ ス Stainless Steel	20～ 50	0.025～0.06
銅 ・ 銅 合 金 Copper and Copper Alloy	25～ 80	0.05 ～0.1
チ タ ン 合 金 Titanium Alloy	15～ 30	0.02 ～0.05
ア ル ミ 合 金 Aluminum Alloy	50～100	0.05 ～0.15
樹 脂 Resin	50～120	0.1 ～0.2
備 考 Remarks	- 加工形状により切削速度、送り速度を調整して下さい。 - Adjust Revolution and Feed Speed at the same rate.	

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Carbide
Cutter