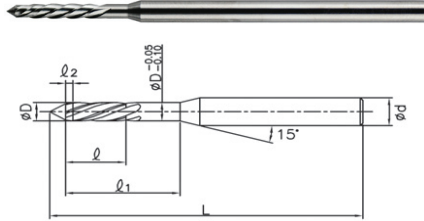


# KSHR-4

超硬スパイラルリーマ  
Tungsten Carbide 4 Flutes Spiral Reamer

■小径穴仕上加工用Φ0.5~Φ2.03まで0.01とびにラインナップ  
Line-upped Φ0.5~Φ2.03 at pitch 0.01



微粒子合金 Micro Grain Tungsten Carbide



刃径の許容差 Flute Diameter Tolerance  
D +0.002~+0.005



柄径の許容差 Shank Diameter Tolerance  
d 0~-0.006



左ネジレ右刃 ネジレ角30°  
Left Twist Right Flute Twist Angle 30°



喰付角片角2° Chamfer Angle Single 2°

●切削条件表はP149に記載  
●Cutting conditions are recommended on page 149.

[寸法単位: mm]  
[size: mm]

品番 Code No.	刃径 D Flute Diameter	刃長 l Flute Length	有効長 l1 Effective Length	全長 L Total Length	柄径 d Shank Diameter	喰付長 l2 Chamfer Length	備考 Remarks
KSHR-4050	0.5	8	13	60	3	1.2	
KSHR-4051	0.51	8	13	60	3	1.2	
KSHR-4052	0.52	8	13	60	3	1.2	
KSHR-4053	0.53	8	13	60	3	1.2	
KSHR-4054	0.54	8	13	60	3	1.2	
KSHR-4055	0.55	8	13	60	3	1.2	
KSHR-4056	0.56	8	13	60	3	1.2	
KSHR-4057	0.57	8	13	60	3	1.2	
KSHR-4058	0.58	8	13	60	3	1.2	
KSHR-4059	0.59	8	13	60	3	1.2	
KSHR-4060	0.6	8	13	60	3	1.5	
KSHR-4061	0.61	8	13	60	3	1.5	
KSHR-4062	0.62	8	13	60	3	1.5	
KSHR-4063	0.63	8	13	60	3	1.5	
KSHR-4064	0.64	8	13	60	3	1.5	
KSHR-4065	0.65	8	13	60	3	1.5	
KSHR-4066	0.66	8	13	60	3	1.5	
KSHR-4067	0.67	8	13	60	3	1.5	
KSHR-4068	0.68	8	13	60	3	1.5	
KSHR-4069	0.69	8	13	60	3	1.5	
KSHR-4070	0.7	8	13	60	3	2	
KSHR-4071	0.71	8	13	60	3	2	

品番 Code No.	刃径 D Flute Diameter	刃長 l Flute Length	有効長 l1 Effective Length	全長 L Total Length	柄径 d Shank Diameter	喰付長 l2 Chamfer Length	備考 Remarks
KSHR-4072	0.72	8	13	60	3	2	
KSHR-4073	0.73	8	13	60	3	2	
KSHR-4074	0.74	8	13	60	3	2	
KSHR-4075	0.75	8	13	60	3	2	
KSHR-4076	0.76	8	13	60	3	2	
KSHR-4077	0.77	8	13	60	3	2	
KSHR-4078	0.78	8	13	60	3	2	
KSHR-4079	0.79	8	13	60	3	2	
KSHR-4080	0.8	8	16	60	3	2	
KSHR-4081	0.81	8	16	60	3	2	
KSHR-4082	0.82	8	16	60	3	2	
KSHR-4083	0.83	8	16	60	3	2	
KSHR-4084	0.84	8	16	60	3	2	
KSHR-4085	0.85	8	16	60	3	2	
KSHR-4086	0.86	8	16	60	3	2	
KSHR-4087	0.87	8	16	60	3	2	
KSHR-4088	0.88	8	16	60	3	2	
KSHR-4089	0.89	8	16	60	3	2	
KSHR-4090	0.9	8	16	60	3	2	
KSHR-4091	0.91	8	16	60	3	2	
KSHR-4092	0.92	8	16	60	3	2	
KSHR-4093	0.93	8	16	60	3	2	
KSHR-4094	0.94	8	16	60	3	2	
KSHR-4095	0.95	8	16	60	3	2	
KSHR-4096	0.96	8	16	60	3	2	
KSHR-4097	0.97	8	16	60	3	2	
KSHR-4098	0.98	8	16	60	3	2	
KSHR-4099	0.99	8	16	60	3	2	
KSHR-4100	1	8	16	60	3	2.5	
KSHR-4101	1.01	10	16	60	3	2.5	
KSHR-4102	1.02	10	16	60	3	2.5	
KSHR-4103	1.03	10	16	60	3	2.5	
KSHR-4104	1.04	10	16	60	3	2.5	
KSHR-4105	1.05	10	16	60	3	2.5	
KSHR-4106	1.06	10	16	60	3	2.5	
KSHR-4107	1.07	10	16	60	3	2.5	
KSHR-4108	1.08	10	16	60	3	2.5	
KSHR-4109	1.09	10	16	60	3	2.5	
KSHR-4110	1.1	10	16	60	3	2.5	
KSHR-4111	1.11	10	16	60	3	2.5	
KSHR-4112	1.12	10	16	60	3	2.5	
KSHR-4113	1.13	10	16	60	3	2.5	
KSHR-4114	1.14	10	16	60	3	2.5	
KSHR-4115	1.15	10	16	60	3	2.5	
KSHR-4116	1.16	10	16	60	3	2.5	
KSHR-4117	1.17	10	16	60	3	2.5	
KSHR-4118	1.18	10	16	60	3	2.5	
KSHR-4119	1.19	10	16	60	3	2.5	