

KHRA-4

超硬底刃付リーマ・TiA ℓ Nコーティング付
Tungsten Carbide Reamer with Bottom Flute TiA ℓ N Coating

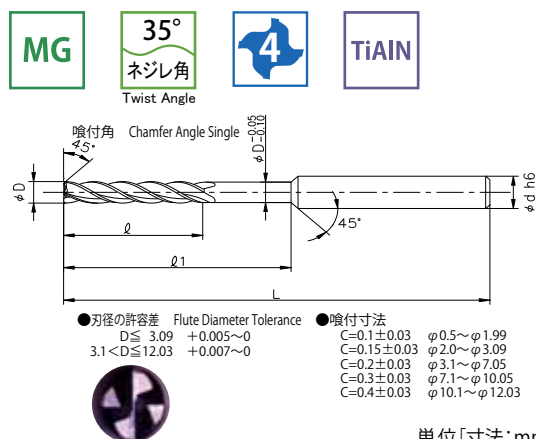
- 底刃が付いているので止まり穴の加工などに最適です
Best for stop hole processing due to having bottom flute
- TiA ℓ Nコーティングを施しました
TiAlN coating is applied



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	ステンレス鋼 Stainless Steel
◎	◎	◎	◎	◎	◎

- 切削条件表はP277に記載
- Cutting conditions are recommended on page 277.

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
KHRA-4050	0.5	4	10	50	3
KHRA-4051	0.51	4	10	50	3
KHRA-4052	0.52	4	10	50	3
KHRA-4053	0.53	4	10	50	3
KHRA-4054	0.54	4	10	50	3
KHRA-4055	0.55	4	10	50	3
KHRA-4056	0.56	4	10	50	3
KHRA-4057	0.57	4	10	50	3
KHRA-4058	0.58	4	10	50	3
KHRA-4059	0.59	4	10	50	3
KHRA-4060	0.6	4	10	50	3
KHRA-4061	0.61	4	10	50	3
KHRA-4062	0.62	4	10	50	3
KHRA-4063	0.63	4	10	50	3
KHRA-4064	0.64	4	10	50	3
KHRA-4065	0.65	4	10	50	3
KHRA-4066	0.66	4	10	50	3
KHRA-4067	0.67	4	10	50	3
KHRA-4068	0.68	4	10	50	3
KHRA-4069	0.69	4	10	50	3
KHRA-4070	0.7	4	10	50	3
KHRA-4071	0.71	4	10	50	3
KHRA-4072	0.72	4	10	50	3
KHRA-4073	0.73	4	10	50	3
KHRA-4074	0.74	4	10	50	3
KHRA-4075	0.75	4	10	50	3
KHRA-4076	0.76	4	10	50	3
KHRA-4077	0.77	4	10	50	3
KHRA-4078	0.78	4	10	50	3
KHRA-4079	0.79	5	12	50	3



単位 [寸法: mm]
Unit [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
KHRA-4080	0.8	5	12	50	3
KHRA-4081	0.81	5	12	50	3
KHRA-4082	0.82	5	12	50	3
KHRA-4083	0.83	5	12	50	3
KHRA-4084	0.84	5	12	50	3
KHRA-4085	0.85	5	12	50	3
KHRA-4086	0.86	5	12	50	3
KHRA-4087	0.87	5	12	50	3
KHRA-4088	0.88	5	12	50	3
KHRA-4089	0.89	5	12	50	3
KHRA-4090	0.9	5	12	50	3
KHRA-4091	0.91	5	12	50	3
KHRA-4092	0.92	5	12	50	3
KHRA-4093	0.93	5	12	50	3
KHRA-4094	0.94	5	12	50	3
KHRA-4095	0.95	5	12	50	3
KHRA-4096	0.96	5	12	50	3
KHRA-4097	0.97	5	12	50	3
KHRA-4098	0.98	5	12	50	3
KHRA-4099	0.99	5	12	50	3
KHRA-4100	1	6	15	60	3
KHRA-4101	1.01	6	15	60	3
KHRA-4102	1.02	6	15	60	3
KHRA-4103	1.03	6	15	60	3
KHRA-4104	1.04	6	15	60	3
KHRA-4105	1.05	6	15	60	3
KHRA-4106	1.06	6	15	60	3
KHRA-4107	1.07	6	15	60	3
KHRA-4108	1.08	6	15	60	3
KHRA-4109	1.09	6	15	60	3

超硬リーマ

Carbide Reamer

KHRA-4

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
KHRA-4110	1.1	6	15	60	3
KHRA-4111	1.11	6	15	60	3
KHRA-4112	1.12	6	15	60	3
KHRA-4113	1.13	6	15	60	3
KHRA-4114	1.14	6	15	60	3
KHRA-4115	1.15	6	15	60	3
KHRA-4116	1.16	6	15	60	3
KHRA-4117	1.17	6	15	60	3
KHRA-4118	1.18	6	15	60	3
KHRA-4119	1.19	6	15	60	3
KHRA-4120	1.2	6	15	60	3
KHRA-4121	1.21	6	15	60	3
KHRA-4122	1.22	6	15	60	3
KHRA-4123	1.23	6	15	60	3
KHRA-4124	1.24	6	15	60	3
KHRA-4125	1.25	6	15	60	3
KHRA-4126	1.26	6	15	60	3
KHRA-4127	1.27	6	15	60	3
KHRA-4128	1.28	6	15	60	3
KHRA-4129	1.29	6	15	60	3
KHRA-4130	1.3	6	15	60	3
KHRA-4131	1.31	6	15	60	3
KHRA-4132	1.32	6	15	60	3
KHRA-4133	1.33	6	15	60	3
KHRA-4134	1.34	6	15	60	3
KHRA-4135	1.35	6	15	60	3
KHRA-4136	1.36	6	15	60	3
KHRA-4137	1.37	6	15	60	3
KHRA-4138	1.38	6	15	60	3
KHRA-4139	1.39	6	15	60	3
KHRA-4140	1.4	6	15	60	3
KHRA-4141	1.41	6	15	60	3
KHRA-4142	1.42	6	15	60	3
KHRA-4143	1.43	6	15	60	3
KHRA-4144	1.44	6	15	60	3
KHRA-4145	1.45	6	15	60	3
KHRA-4146	1.46	6	15	60	3
KHRA-4147	1.47	6	15	60	3
KHRA-4148	1.48	6	15	60	3
KHRA-4149	1.49	6	15	60	3
KHRA-4150	1.5	8	20	60	3
KHRA-4151	1.51	8	20	60	3
KHRA-4152	1.52	8	20	60	3
KHRA-4153	1.53	8	20	60	3
KHRA-4154	1.54	8	20	60	3
KHRA-4155	1.55	8	20	60	3
KHRA-4156	1.56	8	20	60	3
KHRA-4157	1.57	8	20	60	3

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
KHRA-4158	1.58	8	20	60	3
KHRA-4159	1.59	8	20	60	3
KHRA-4160	1.6	8	20	60	3
KHRA-4161	1.61	8	20	60	3
KHRA-4162	1.62	8	20	60	3
KHRA-4163	1.63	8	20	60	3
KHRA-4164	1.64	8	20	60	3
KHRA-4165	1.65	8	20	60	3
KHRA-4166	1.66	8	20	60	3
KHRA-4167	1.67	8	20	60	3
KHRA-4168	1.68	8	20	60	3
KHRA-4169	1.69	8	20	60	3
KHRA-4170	1.7	8	20	60	3
KHRA-4171	1.71	8	20	60	3
KHRA-4172	1.72	8	20	60	3
KHRA-4173	1.73	8	20	60	3
KHRA-4174	1.74	8	20	60	3
KHRA-4175	1.75	8	20	60	3
KHRA-4176	1.76	8	20	60	3
KHRA-4177	1.77	8	20	60	3
KHRA-4178	1.78	8	20	60	3
KHRA-4179	1.79	8	20	60	3
KHRA-4180	1.8	8	20	60	3
KHRA-4181	1.81	8	20	60	3
KHRA-4182	1.82	8	20	60	3
KHRA-4183	1.83	8	20	60	3
KHRA-4184	1.84	8	20	60	3
KHRA-4185	1.85	8	20	60	3
KHRA-4186	1.86	8	20	60	3
KHRA-4187	1.87	8	20	60	3
KHRA-4188	1.88	8	20	60	3
KHRA-4189	1.89	8	20	60	3
KHRA-4190	1.9	8	20	60	3
KHRA-4191	1.91	10	24	60	3
KHRA-4192	1.92	10	24	60	3
KHRA-4193	1.93	10	24	60	3
KHRA-4194	1.94	10	24	60	3
KHRA-4195	1.95	10	24	60	3
KHRA-4196	1.96	10	24	60	3
KHRA-4197	1.97	10	24	60	3
KHRA-4198	1.98	10	24	60	3
KHRA-4199	1.99	10	24	60	3
KHRA-4200	2	10	24	60	3
KHRA-4201	2.01	10	24	60	3
KHRA-4202	2.02	10	24	60	3
KHRA-4203	2.03	10	24	60	3
KHRA-4204	2.04	10	24	60	3
KHRA-4205	2.05	10	24	60	3

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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
KHRA-4206	2.06	10	24	60	3
KHRA-4207	2.07	10	24	60	3
KHRA-4208	2.08	10	24	60	3
KHRA-4209	2.09	10	24	60	3
KHRA-4210	2.1	10	24	60	3
KHRA-4211	2.11	10	24	60	3
KHRA-4212	2.12	10	24	60	3
KHRA-4213	2.13	10	24	60	3
KHRA-4214	2.14	10	24	60	3
KHRA-4215	2.15	10	24	60	3
KHRA-4216	2.16	10	24	60	3
KHRA-4217	2.17	10	24	60	3
KHRA-4218	2.18	10	24	60	3
KHRA-4219	2.19	10	24	60	3
KHRA-4220	2.2	10	24	60	3
KHRA-4221	2.21	10	24	60	3
KHRA-4222	2.22	10	24	60	3
KHRA-4223	2.23	10	24	60	3
KHRA-4224	2.24	10	24	60	3
KHRA-4225	2.25	10	24	60	3
KHRA-4226	2.26	10	24	60	3
KHRA-4227	2.27	10	24	60	3
KHRA-4228	2.28	10	24	60	3
KHRA-4229	2.29	10	24	60	3
KHRA-4230	2.3	10	24	60	3
KHRA-4231	2.31	10	24	60	3
KHRA-4232	2.32	10	24	60	3
KHRA-4233	2.33	10	24	60	3
KHRA-4234	2.34	10	24	60	3
KHRA-4235	2.35	10	24	60	3
KHRA-4236	2.36	10	24	60	3
KHRA-4237	2.37	10	24	60	3
KHRA-4238	2.38	10	24	60	3
KHRA-4239	2.39	10	24	60	3
KHRA-4240	2.4	10	24	60	3
KHRA-4241	2.41	10	24	60	3
KHRA-4242	2.42	10	24	60	3
KHRA-4243	2.43	10	24	60	3
KHRA-4244	2.44	10	24	60	3
KHRA-4245	2.45	10	24	60	3
KHRA-4246	2.46	10	24	60	3
KHRA-4247	2.47	10	24	60	3
KHRA-4248	2.48	10	24	60	3
KHRA-4249	2.49	10	24	60	3
KHRA-4250	2.5	10	24	60	3
KHRA-4251	2.51	10	24	60	3
KHRA-4252	2.52	10	24	60	3
KHRA-4253	2.53	10	24	60	3

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
KHRA-4254	2.54	10	24	60	3
KHRA-4255	2.55	10	24	60	3
KHRA-4256	2.56	10	24	60	3
KHRA-4257	2.57	10	24	60	3
KHRA-4258	2.58	10	24	60	3
KHRA-4259	2.59	10	24	60	3
KHRA-4260	2.6	10	24	60	3
KHRA-4261	2.61	10	24	60	3
KHRA-4262	2.62	10	24	60	3
KHRA-4263	2.63	10	24	60	3
KHRA-4264	2.64	10	24	60	3
KHRA-4265	2.65	10	24	60	3
KHRA-4266	2.66	10	24	60	3
KHRA-4267	2.67	10	24	60	3
KHRA-4268	2.68	10	24	60	3
KHRA-4269	2.69	10	24	60	3
KHRA-4270	2.7	10	24	60	3
KHRA-4271	2.71	10	24	60	3
KHRA-4272	2.72	10	24	60	3
KHRA-4273	2.73	10	24	60	3
KHRA-4274	2.74	10	24	60	3
KHRA-4275	2.75	10	24	60	3
KHRA-4276	2.76	10	24	60	3
KHRA-4277	2.77	10	24	60	3
KHRA-4278	2.78	10	24	60	3
KHRA-4279	2.79	10	24	60	3
KHRA-4280	2.8	10	24	60	3
KHRA-4281	2.81	10	24	60	3
KHRA-4282	2.82	10	24	60	3
KHRA-4283	2.83	10	24	60	3
KHRA-4284	2.84	10	24	60	3
KHRA-4285	2.85	10	24	60	3
KHRA-4286	2.86	10	24	60	3
KHRA-4287	2.87	10	24	60	3
KHRA-4288	2.88	10	24	60	3
KHRA-4289	2.89	10	24	60	3
KHRA-4290	2.9	10	24	60	3
KHRA-4291	2.91	15	30	60	3
KHRA-4292	2.92	15	30	60	3
KHRA-4293	2.93	15	30	60	3
KHRA-4294	2.94	15	30	60	3
KHRA-4295	2.95	15	30	60	3
KHRA-4296	2.96	15	30	60	3
KHRA-4297	2.97	15	30	60	3
KHRA-4298	2.98	15	30	60	3
KHRA-4299	2.99	15	30	60	3
KHRA-4300	3	15	30	60	3
KHRA-4301	3.01	15	30	60	3

KHRA-4

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
KHRA-4302	3.02	15	30	60	3
KHRA-4303	3.03	15	30	60	3
KHRA-4304	3.04	15	30	60	3
KHRA-4305	3.05	15	30	60	3
KHRA-4306	3.06	15	30	60	3
KHRA-4307	3.07	15	30	60	3
KHRA-4308	3.08	15	30	60	3
KHRA-4309	3.09	15	30	60	3
KHRA-4310	3.1	15	30	70	4
KHRA-4311	3.11	15	30	70	4
KHRA-4312	3.12	15	30	70	4
KHRA-4313	3.13	15	30	70	4
KHRA-4314	3.14	15	30	70	4
KHRA-4315	3.15	15	30	70	4
KHRA-4316	3.16	15	30	70	4
KHRA-4317	3.17	15	30	70	4
KHRA-4318	3.18	15	30	70	4
KHRA-4319	3.19	15	30	70	4
KHRA-4320	3.2	15	30	70	4
KHRA-4321	3.21	15	30	70	4
KHRA-4322	3.22	15	30	70	4
KHRA-4323	3.23	15	30	70	4
KHRA-4324	3.24	15	30	70	4
KHRA-4325	3.25	15	30	70	4
KHRA-4326	3.26	15	30	70	4
KHRA-4327	3.27	15	30	70	4
KHRA-4328	3.28	15	30	70	4
KHRA-4329	3.29	15	30	70	4
KHRA-4330	3.3	15	30	70	4
KHRA-4331	3.31	15	30	70	4
KHRA-4332	3.32	15	30	70	4
KHRA-4333	3.33	15	30	70	4
KHRA-4334	3.34	15	30	70	4
KHRA-4335	3.35	15	30	70	4
KHRA-4336	3.36	15	30	70	4
KHRA-4337	3.37	15	30	70	4
KHRA-4338	3.38	15	30	70	4
KHRA-4339	3.39	15	30	70	4
KHRA-4340	3.4	15	30	70	4
KHRA-4341	3.41	15	30	70	4
KHRA-4342	3.42	15	30	70	4
KHRA-4343	3.43	15	30	70	4
KHRA-4344	3.44	15	30	70	4
KHRA-4345	3.45	15	30	70	4
KHRA-4346	3.46	15	30	70	4
KHRA-4347	3.47	15	30	70	4
KHRA-4348	3.48	15	30	70	4
KHRA-4349	3.49	15	30	70	4

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
KHRA-4350	3.5	15	30	70	4
KHRA-4351	3.51	15	30	70	4
KHRA-4352	3.52	15	30	70	4
KHRA-4353	3.53	15	30	70	4
KHRA-4354	3.54	15	30	70	4
KHRA-4355	3.55	15	30	70	4
KHRA-4356	3.56	15	30	70	4
KHRA-4357	3.57	15	30	70	4
KHRA-4358	3.58	15	30	70	4
KHRA-4359	3.59	15	30	70	4
KHRA-4360	3.6	15	30	70	4
KHRA-4361	3.61	15	30	70	4
KHRA-4362	3.62	15	30	70	4
KHRA-4363	3.63	15	30	70	4
KHRA-4364	3.64	15	30	70	4
KHRA-4365	3.65	15	30	70	4
KHRA-4366	3.66	15	30	70	4
KHRA-4367	3.67	15	30	70	4
KHRA-4368	3.68	15	30	70	4
KHRA-4369	3.69	15	30	70	4
KHRA-4370	3.7	15	30	70	4
KHRA-4371	3.71	15	30	70	4
KHRA-4372	3.72	15	30	70	4
KHRA-4373	3.73	15	30	70	4
KHRA-4374	3.74	15	30	70	4
KHRA-4375	3.75	15	30	70	4
KHRA-4376	3.76	15	30	70	4
KHRA-4377	3.77	15	30	70	4
KHRA-4378	3.78	15	30	70	4
KHRA-4379	3.79	15	30	70	4
KHRA-4380	3.8	15	30	70	4
KHRA-4381	3.81	15	30	70	4
KHRA-4382	3.82	15	30	70	4
KHRA-4383	3.83	15	30	70	4
KHRA-4384	3.84	15	30	70	4
KHRA-4385	3.85	15	30	70	4
KHRA-4386	3.86	15	30	70	4
KHRA-4387	3.87	15	30	70	4
KHRA-4388	3.88	15	30	70	4
KHRA-4389	3.89	15	30	70	4
KHRA-4390	3.9	15	30	70	4
KHRA-4391	3.91	20	35	70	4
KHRA-4392	3.92	20	35	70	4
KHRA-4393	3.93	20	35	70	4
KHRA-4394	3.94	20	35	70	4
KHRA-4395	3.95	20	35	70	4
KHRA-4396	3.96	20	35	70	4
KHRA-4397	3.97	20	35	70	4

KHRA-4

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
KHRA-4398	3.98	20	35	70	4
KHRA-4399	3.99	20	35	70	4
KHRA-4400	4	20	35	70	4
KHRA-4401	4.01	20	35	70	4
KHRA-4402	4.02	20	35	70	4
KHRA-4403	4.03	20	35	70	4
KHRA-4404	4.04	20	35	70	4
KHRA-4405	4.05	20	35	70	4
KHRA-4406	4.06	20	35	70	4
KHRA-4407	4.07	20	35	70	4
KHRA-4408	4.08	20	35	70	4
KHRA-4409	4.09	20	35	70	4
KHRA-4410	4.1	20	35	80	6
KHRA-4411	4.11	20	35	80	6
KHRA-4412	4.12	20	35	80	6
KHRA-4413	4.13	20	35	80	6
KHRA-4414	4.14	20	35	80	6
KHRA-4415	4.15	20	35	80	6
KHRA-4416	4.16	20	35	80	6
KHRA-4417	4.17	20	35	80	6
KHRA-4418	4.18	20	35	80	6
KHRA-4419	4.19	20	35	80	6
KHRA-4420	4.2	20	35	80	6
KHRA-4421	4.21	20	35	80	6
KHRA-4422	4.22	20	35	80	6
KHRA-4423	4.23	20	35	80	6
KHRA-4424	4.24	20	35	80	6
KHRA-4425	4.25	20	35	80	6
KHRA-4426	4.26	20	35	80	6
KHRA-4427	4.27	20	35	80	6
KHRA-4428	4.28	20	35	80	6
KHRA-4429	4.29	20	35	80	6
KHRA-4430	4.3	20	35	80	6
KHRA-4431	4.31	20	35	80	6
KHRA-4432	4.32	20	35	80	6
KHRA-4433	4.33	20	35	80	6
KHRA-4434	4.34	20	35	80	6
KHRA-4435	4.35	20	35	80	6
KHRA-4436	4.36	20	35	80	6
KHRA-4437	4.37	20	35	80	6
KHRA-4438	4.38	20	35	80	6
KHRA-4439	4.39	20	35	80	6
KHRA-4440	4.4	20	35	80	6
KHRA-4441	4.41	20	35	80	6
KHRA-4442	4.42	20	35	80	6
KHRA-4443	4.43	20	35	80	6
KHRA-4444	4.44	20	35	80	6
KHRA-4445	4.45	20	35	80	6

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
KHRA-4446	4.46	20	35	80	6
KHRA-4447	4.47	20	35	80	6
KHRA-4448	4.48	20	35	80	6
KHRA-4449	4.49	20	35	80	6
KHRA-4450	4.5	20	35	80	6
KHRA-4451	4.51	20	35	80	6
KHRA-4452	4.52	20	35	80	6
KHRA-4453	4.53	20	35	80	6
KHRA-4454	4.54	20	35	80	6
KHRA-4455	4.55	20	35	80	6
KHRA-4456	4.56	20	35	80	6
KHRA-4457	4.57	20	35	80	6
KHRA-4458	4.58	20	35	80	6
KHRA-4459	4.59	20	35	80	6
KHRA-4460	4.6	20	35	80	6
KHRA-4461	4.61	20	35	80	6
KHRA-4462	4.62	20	35	80	6
KHRA-4463	4.63	20	35	80	6
KHRA-4464	4.64	20	35	80	6
KHRA-4465	4.65	20	35	80	6
KHRA-4466	4.66	20	35	80	6
KHRA-4467	4.67	20	35	80	6
KHRA-4468	4.68	20	35	80	6
KHRA-4469	4.69	20	35	80	6
KHRA-4470	4.7	20	35	80	6
KHRA-4471	4.71	20	35	80	6
KHRA-4472	4.72	20	35	80	6
KHRA-4473	4.73	20	35	80	6
KHRA-4474	4.74	20	35	80	6
KHRA-4475	4.75	20	35	80	6
KHRA-4476	4.76	20	35	80	6
KHRA-4477	4.77	20	35	80	6
KHRA-4478	4.78	20	35	80	6
KHRA-4479	4.79	20	35	80	6
KHRA-4480	4.8	20	35	80	6
KHRA-4481	4.81	20	35	80	6
KHRA-4482	4.82	20	35	80	6
KHRA-4483	4.83	20	35	80	6
KHRA-4484	4.84	20	35	80	6
KHRA-4485	4.85	20	35	80	6
KHRA-4486	4.86	20	35	80	6
KHRA-4487	4.87	20	35	80	6
KHRA-4488	4.88	20	35	80	6
KHRA-4489	4.89	20	35	80	6
KHRA-4490	4.9	20	35	80	6
KHRA-4491	4.91	24	40	80	6
KHRA-4492	4.92	24	40	80	6
KHRA-4493	4.93	24	40	80	6

KHRA-4

品番 Code No.	刃径 D Flute Diameter	刃長 ℓ Flute Length	有効長 ℓ ₁ Effective Length	全長 L Total Length	柄径 d Shank Diameter
KHRA-4494	4.94	24	40	80	6
KHRA-4495	4.95	24	40	80	6
KHRA-4496	4.96	24	40	80	6
KHRA-4497	4.97	24	40	80	6
KHRA-4498	4.98	24	40	80	6
KHRA-4499	4.99	24	40	80	6
KHRA-4500	5	24	40	80	6
KHRA-4501	5.01	24	40	80	6
KHRA-4502	5.02	24	40	80	6
KHRA-4503	5.03	24	40	80	6
KHRA-4504	5.04	24	40	80	6
KHRA-4505	5.05	24	40	80	6
KHRA-4506	5.06	24	40	80	6
KHRA-4507	5.07	24	40	80	6
KHRA-4508	5.08	24	40	80	6
KHRA-4509	5.09	24	40	80	6
KHRA-4510	5.1	24	40	80	6
KHRA-4511	5.11	24	40	80	6
KHRA-4512	5.12	24	40	80	6
KHRA-4513	5.13	24	40	80	6
KHRA-4514	5.14	24	40	80	6
KHRA-4515	5.15	24	40	80	6
KHRA-4516	5.16	24	40	80	6
KHRA-4517	5.17	24	40	80	6
KHRA-4518	5.18	24	40	80	6
KHRA-4519	5.19	24	40	80	6
KHRA-4520	5.2	24	40	80	6
KHRA-4521	5.21	24	40	80	6
KHRA-4522	5.22	24	40	80	6
KHRA-4523	5.23	24	40	80	6
KHRA-4524	5.24	24	40	80	6
KHRA-4525	5.25	24	40	80	6
KHRA-4526	5.26	24	40	80	6
KHRA-4527	5.27	24	40	80	6
KHRA-4528	5.28	24	40	80	6
KHRA-4529	5.29	24	40	80	6
KHRA-4530	5.3	24	40	80	6
KHRA-4531	5.31	24	40	80	6
KHRA-4532	5.32	24	40	80	6
KHRA-4533	5.33	24	40	80	6
KHRA-4534	5.34	24	40	80	6
KHRA-4535	5.35	24	40	80	6
KHRA-4536	5.36	24	40	80	6
KHRA-4537	5.37	24	40	80	6
KHRA-4538	5.38	24	40	80	6
KHRA-4539	5.39	24	40	80	6
KHRA-4540	5.4	24	40	80	6
KHRA-4541	5.41	24	40	80	6

品番 Code No.	刃径 D Flute Diameter	刃長 ℓ Flute Length	有効長 ℓ ₁ Effective Length	全長 L Total Length	柄径 d Shank Diameter
KHRA-4542	5.42	24	40	80	6
KHRA-4543	5.43	24	40	80	6
KHRA-4544	5.44	24	40	80	6
KHRA-4545	5.45	24	40	80	6
KHRA-4546	5.46	24	40	80	6
KHRA-4547	5.47	24	40	80	6
KHRA-4548	5.48	24	40	80	6
KHRA-4549	5.49	24	40	80	6
KHRA-4550	5.5	24	40	80	6
KHRA-4551	5.51	24	40	80	6
KHRA-4552	5.52	24	40	80	6
KHRA-4553	5.53	24	40	80	6
KHRA-4554	5.54	24	40	80	6
KHRA-4555	5.55	24	40	80	6
KHRA-4556	5.56	24	40	80	6
KHRA-4557	5.57	24	40	80	6
KHRA-4558	5.58	24	40	80	6
KHRA-4559	5.59	24	40	80	6
KHRA-4560	5.6	24	40	80	6
KHRA-4561	5.61	24	40	80	6
KHRA-4562	5.62	24	40	80	6
KHRA-4563	5.63	24	40	80	6
KHRA-4564	5.64	24	40	80	6
KHRA-4565	5.65	24	40	80	6
KHRA-4566	5.66	24	40	80	6
KHRA-4567	5.67	24	40	80	6
KHRA-4568	5.68	24	40	80	6
KHRA-4569	5.69	24	40	80	6
KHRA-4570	5.7	24	40	80	6
KHRA-4571	5.71	24	40	80	6
KHRA-4572	5.72	24	40	80	6
KHRA-4573	5.73	24	40	80	6
KHRA-4574	5.74	24	40	80	6
KHRA-4575	5.75	24	40	80	6
KHRA-4576	5.76	24	40	80	6
KHRA-4577	5.77	24	40	80	6
KHRA-4578	5.78	24	40	80	6
KHRA-4579	5.79	24	40	80	6
KHRA-4580	5.8	24	40	80	6
KHRA-4581	5.81	24	40	80	6
KHRA-4582	5.82	24	40	80	6
KHRA-4583	5.83	24	40	80	6
KHRA-4584	5.84	24	40	80	6
KHRA-4585	5.85	24	40	80	6
KHRA-4586	5.86	24	40	80	6
KHRA-4587	5.87	24	40	80	6
KHRA-4588	5.88	24	40	80	6
KHRA-4589	5.89	24	40	80	6

KHRA-4

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
KHRA-4590	5.9	24	40	80	6
KHRA-4591	5.91	24	40	80	6
KHRA-4592	5.92	24	40	80	6
KHRA-4593	5.93	24	40	80	6
KHRA-4594	5.94	24	40	80	6
KHRA-4595	5.95	24	40	80	6
KHRA-4596	5.96	24	40	80	6
KHRA-4597	5.97	24	40	80	6
KHRA-4598	5.98	24	40	80	6
KHRA-4599	5.99	24	40	80	6
KHRA-4600	6	24	40	80	6
KHRA-4601	6.01	24	40	80	6
KHRA-4602	6.02	24	40	80	6
KHRA-4603	6.03	24	40	80	6
KHRA-4604	6.04	24	40	80	6
KHRA-4605	6.05	24	40	80	6
KHRA-4610	6.1	25	45	100	8
KHRA-4615	6.15	25	45	100	8
KHRA-4620	6.2	25	45	100	8
KHRA-4625	6.25	25	45	100	8
KHRA-4630	6.3	25	45	100	8
KHRA-4635	6.35	25	45	100	8
KHRA-4640	6.4	25	45	100	8
KHRA-4645	6.45	25	45	100	8
KHRA-4650	6.5	25	45	100	8
KHRA-4655	6.55	25	45	100	8
KHRA-4660	6.6	25	45	100	8
KHRA-4665	6.65	25	45	100	8
KHRA-4670	6.7	25	45	100	8
KHRA-4675	6.75	25	45	100	8
KHRA-4680	6.8	25	45	100	8
KHRA-4685	6.85	25	45	100	8
KHRA-4690	6.9	25	45	100	8
KHRA-4695	6.95	25	45	100	8
KHRA-4696	6.96	25	45	100	8
KHRA-4697	6.97	25	45	100	8
KHRA-4698	6.98	25	45	100	8
KHRA-4699	6.99	25	45	100	8
KHRA-4700	7	25	45	100	8
KHRA-4701	7.01	25	45	100	8
KHRA-4702	7.02	25	45	100	8
KHRA-4703	7.03	25	45	100	8
KHRA-4704	7.04	25	45	100	8
KHRA-4705	7.05	25	45	100	8
KHRA-4710	7.1	25	45	100	8
KHRA-4715	7.15	25	45	100	8
KHRA-4720	7.2	25	45	100	8
KHRA-4725	7.25	25	45	100	8

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
KHRA-4730	7.3	25	45	100	8
KHRA-4735	7.35	25	45	100	8
KHRA-4740	7.4	25	45	100	8
KHRA-4745	7.45	25	45	100	8
KHRA-4750	7.5	25	45	100	8
KHRA-4755	7.55	25	45	100	8
KHRA-4760	7.6	25	45	100	8
KHRA-4765	7.65	25	45	100	8
KHRA-4770	7.7	25	45	100	8
KHRA-4775	7.75	25	45	100	8
KHRA-4780	7.8	25	45	100	8
KHRA-4785	7.85	25	45	100	8
KHRA-4790	7.9	25	45	100	8
KHRA-4795	7.95	25	45	100	8
KHRA-4796	7.96	25	45	100	8
KHRA-4797	7.97	25	45	100	8
KHRA-4798	7.98	25	45	100	8
KHRA-4799	7.99	25	45	100	8
KHRA-4800	8	25	45	100	8
KHRA-4801	8.01	25	45	100	8
KHRA-4802	8.02	25	45	100	8
KHRA-4803	8.03	25	45	100	8
KHRA-4804	8.04	25	45	100	8
KHRA-4805	8.05	25	45	100	8
KHRA-4810	8.1	25	50	100	10
KHRA-4815	8.15	25	50	100	10
KHRA-4820	8.2	25	50	100	10
KHRA-4825	8.25	25	50	100	10
KHRA-4830	8.3	25	50	100	10
KHRA-4835	8.35	25	50	100	10
KHRA-4840	8.4	25	50	100	10
KHRA-4845	8.45	25	50	100	10
KHRA-4850	8.5	25	50	100	10
KHRA-4855	8.55	25	50	100	10
KHRA-4860	8.6	25	50	100	10
KHRA-4865	8.65	25	50	100	10
KHRA-4870	8.7	25	50	100	10
KHRA-4875	8.75	25	50	100	10
KHRA-4880	8.8	25	50	100	10
KHRA-4885	8.85	25	50	100	10
KHRA-4890	8.9	25	50	100	10
KHRA-4895	8.95	25	50	100	10
KHRA-4896	8.96	25	50	100	10
KHRA-4897	8.97	25	50	100	10
KHRA-4898	8.98	25	50	100	10
KHRA-4899	8.99	25	50	100	10
KHRA-4900	9	25	50	100	10
KHRA-4901	9.01	25	50	100	10

KHRA-4

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
KHRA-4902	9.02	25	50	100	10
KHRA-4903	9.03	25	50	100	10
KHRA-4904	9.04	25	50	100	10
KHRA-4905	9.05	25	50	100	10
KHRA-4910	9.1	25	50	100	10
KHRA-4915	9.15	25	50	100	10
KHRA-4920	9.2	25	50	100	10
KHRA-4925	9.25	25	50	100	10
KHRA-4930	9.3	25	50	100	10
KHRA-4935	9.35	25	50	100	10
KHRA-4940	9.4	25	50	100	10
KHRA-4945	9.45	25	50	100	10
KHRA-4950	9.5	25	50	100	10
KHRA-4955	9.55	25	50	100	10
KHRA-4960	9.6	25	50	100	10
KHRA-4965	9.65	25	50	100	10
KHRA-4970	9.7	25	50	100	10
KHRA-4975	9.75	25	50	100	10
KHRA-4980	9.8	25	50	100	10
KHRA-4985	9.85	25	50	100	10
KHRA-4990	9.9	25	50	100	10
KHRA-4995	9.95	25	50	100	10
KHRA-4996	9.96	25	50	100	10
KHRA-4997	9.97	25	50	100	10
KHRA-4998	9.98	25	50	100	10
KHRA-4999	9.99	25	50	100	10
KHRA-41000	10	25	50	100	10
KHRA-41001	10.01	25	50	100	10
KHRA-41002	10.02	25	50	100	10
KHRA-41003	10.03	25	50	100	10
KHRA-41004	10.04	25	50	100	10
KHRA-41005	10.05	25	50	100	10
KHRA-41010	10.1	30	60	120	12
KHRA-41015	10.15	30	60	120	12
KHRA-41020	10.2	30	60	120	12
KHRA-41025	10.25	30	60	120	12
KHRA-41030	10.3	30	60	120	12
KHRA-41035	10.35	30	60	120	12
KHRA-41040	10.4	30	60	120	12
KHRA-41045	10.45	30	60	120	12
KHRA-41050	10.5	30	60	120	12
KHRA-41055	10.55	30	60	120	12
KHRA-41060	10.6	30	60	120	12
KHRA-41065	10.65	30	60	120	12
KHRA-41070	10.7	30	60	120	12
KHRA-41075	10.75	30	60	120	12
KHRA-41080	10.8	30	60	120	12
KHRA-41085	10.85	30	60	120	12

[illegible]

KHR-4、KHRA-4、KLHR-OH

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	リーマ代 Reamer Stock Removal mm	推奨切削油 Recommendable Cutting Oil
炭素工具鋼 Carbon Tool Steel	10~15	0.1 ~0.15	0.1	不水溶性 Non-Water Soluable
鋳鉄 Cast Iron	15~25	0.1 ~0.15	0.1 ~0.2	不水溶性 Non-Water Soluable
合金鋼 Alloy Steel	10~20	0.1 ~0.15	0.1	不水溶性 Non-Water Soluable
プリハードン鋼 Pre-Harden Steel	6~10	0.05以下	0.05~0.1	不水溶性 Non-Water Soluable
ステンレス Stainless Steel	10~15	0.05~0.1	0.05~0.1	不水溶性 Non-Water Soluable
銅・銅合金 Copper and Copper Alloy	25~30	0.05~0.1	0.1	不水溶性 Non-Water Soluable
チタン合金 Titanium Alloy	5~10	0.05以下	0.05~0.1	水溶性 Water Soluable
アルミ合金 Aluminum Alloy	20~40	0.05	0.1 ~0.2	不水溶性 Non-Water Soluable
樹脂 Resin	15~20	0.1 ~0.15	0.1 ~0.2	不水溶性 Non-Water Soluable
備考 Remarks	・使用する機械により切削速度、送り、仕上代を調整して下さい。 ・ Adjust Cutting Speed, Feed and Finishing Stock Removal according to Using Machine			

KHR-DLC

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	リーマ代 Reamer Stock Removal mm	推奨切削油 Recommendable Cutting Oil
銅・銅合金 Copper and Copper Alloy	32~39	0.07~0.13	0.1	不水溶性 Non-Water Soluable
アルミ合金 Aluminum Alloy	26~52	0.07	0.1~0.2	不水溶性 Non-Water Soluable
樹脂 Resin	19~26	0.13~0.2	0.1~0.2	不水溶性 Non-Water Soluable
備考 Remarks	・使用する機械により切削速度、送り、仕上代を調整して下さい。 ・ Adjust Cutting Speed, Feed and Finishing Stock Removal according to Using Machine			