



HÜRMEN[®]
METAL

Next-Gen Tools

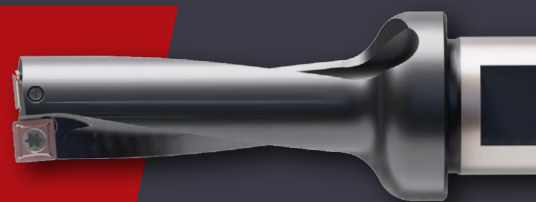


HB-SERIES INDEXABLE DRILL

2026

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HB-SERIES INDEXABLE DRILL 2026



03

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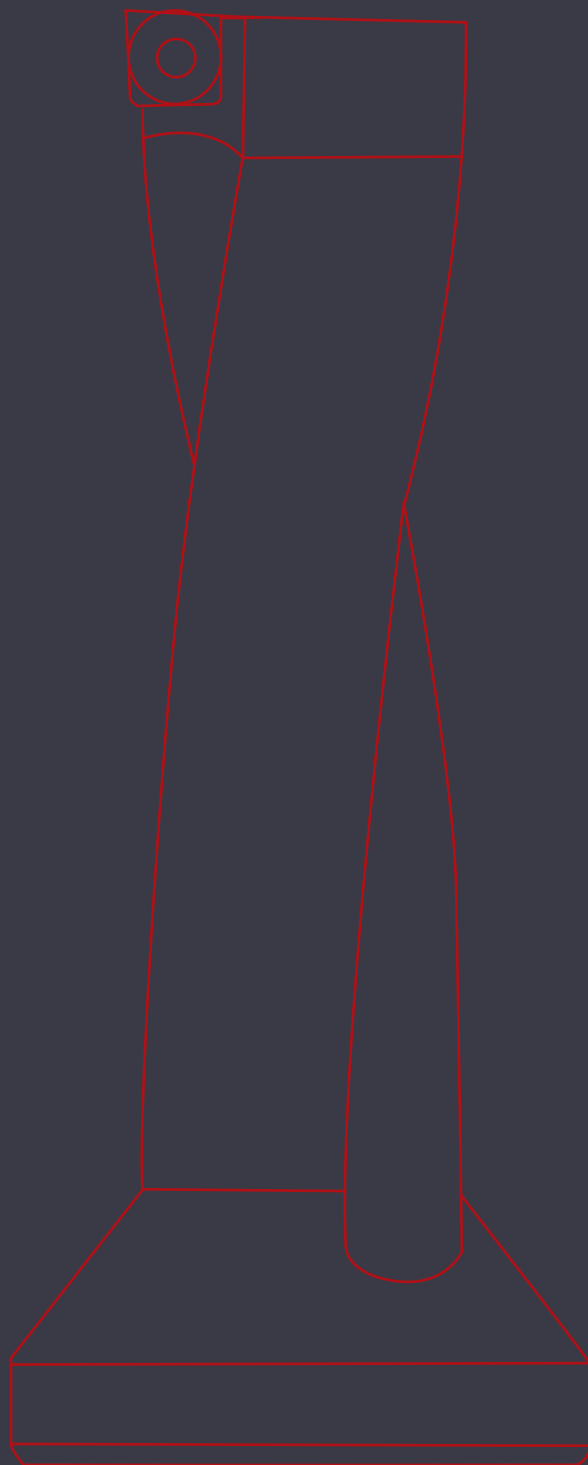
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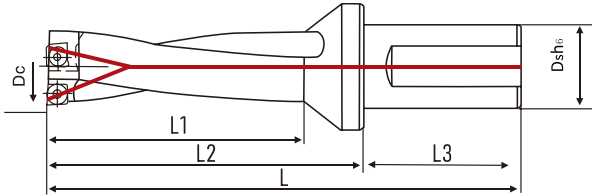
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HBI-LINE



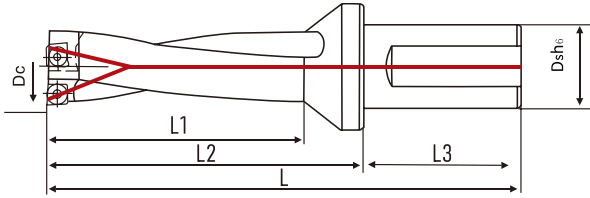
HBS
INDEXABLE DRILL

Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBS202 8.500	8.5	20	83.5	18	33.5	44	SPMG03
HBS202 9.000	9	20	84.5	19	34.5	44	SPMG03
HBS202 9.500	9.5	20	85.5	20	35.5	44	SPMG03
HBS202 10.000	10	20	85.5	22	35.5	44	SPMG04
HBS202 10.500	10.5	20	86.5	22	36.5	44	SPMG04
HBS202 11.000	11	20	87.5	23	37.5	44	SPMG04
HBS202 11.500	11.5	20	88	24	38	44	SPMG04
HBS202 12.000	12	20	90	25	40	44	SPMG04
HBS202 12.500	12.5	20	93	27	43	44	SPMG04
HBS202 13.000	13	20	88	29	44	44	SPMG05
HBS202 13.500	13.5	20	89	30	45	44	SPMG05
HBS202 14.000	14	20	90	31	46	44	SPMG05
HBS202 14.500	14.5	20	91	32	47	44	SPMG05
HBS202 15.000	15	20	92	33	48	44	SPMG05
HBS202 15.500	15.5	20	93	34	49	44	SPMG05
HBS202 16.000	16	20	94	35	50	44	SPMG06
HBS202 16.500	16.5	20	95	36	51	44	SPMG06
HBS202 17.000	17	20	96	37	52	44	SPMG06
HBS252 17.500	17.5	25	109	38	53	56	SPMG06
HBS252 18.000	18	25	110	39	54	56	SPMG06
HBS252 18.500	18.5	25	111	40	55	56	SPMG06
HBS252 19.000	19	25	112	41	56	56	SPMG06
HBS252 19.500	19.5	25	113	42	57	56	SPMG06
HBS252 20.000	20	25	114	43	58	56	SPMG06
HBS252 20.500	20.5	25	115	44	59	56	SPMG06
HBS252 21.000	21	25	116	45	60	56	SPMG06

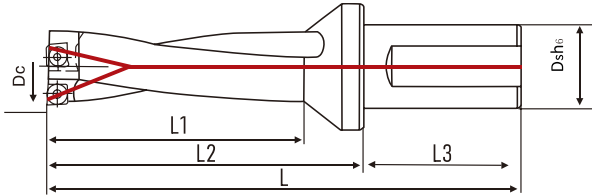
Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HB5252 21.500	21.5	25	117	46	61	56	SPMG06
HB5252 22.000	22	25	118	47	62	56	SPMG07
HB5252 22.500	22.5	25	119	48	63	56	SPMG07
HB5252 23.000	23	25	123	49	67	56	SPMG07
HB5252 23.500	23.5	25	124	50	68	56	SPMG07
HB5252 24.000	24	25	125	51	69	56	SPMG07
HB5252 24.500	24.5	25	126	52	70	56	SPMG07
HB5252 25.000	25	25	127	53	71	56	SPMG07
HB5322 25.500	25.5	32	134	54	74	60	SPMG07
HB5322 26.000	26	32	135	55	75	60	SPMG07
HB5322 26.500	26.5	32	136	56	76	60	SPMG07
HB5322 27.000	27	32	137	57	77	60	SPMG07
HB5322 27.500	27.5	32	138	58	78	60	SPMG07
HB5322 28.000	28	32	139	59	79	60	SPMG09
HB5322 28.500	28.5	32	140	60	80	60	SPMG09
HB5322 29.000	29	32	143	62	83	60	SPMG09
HB5322 29.500	29.5	32	144	63	84	60	SPMG09
HB5322 30.000	30	32	148	64	88	60	SPMG09
HB5322 30.500	30.5	32	149	65	89	60	SPMG09
HB5322 31.000	31	32	150	66	90	60	SPMG09
HB5322 31.500	31.5	32	151	67	91	60	SPMG09
HB5322 32.000	32	32	152	68	92	60	SPMG09
HB5322 32.500	32.5	32	153	69	93	60	SPMG09
HB5322 33.000	33	32	154	70	94	60	SPMG09
HB5322 33.500	33.5	32	155	71	95	60	SPMG09
HB5322 34.000	34	32	156	72	96	60	SPMG11

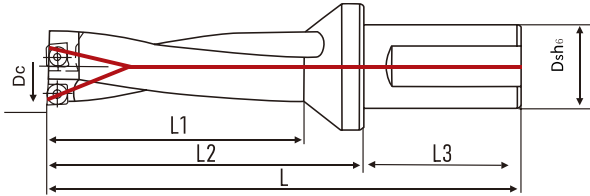
2XD (Ø8.5-40) with SP inserts

Indexable Drill



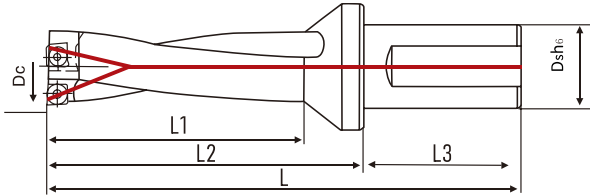
Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBS322 34.500	34.5	32	157	73	97	60	SPMG11
HBS322 35.000	35	32	158	74	98	60	SPMG11
HBS322 35.500	35.5	32	159	75	99	60	SPMG11
HBS322 36.000	36	32	160	76	100	60	SPMG11
HBS322 36.500	36.5	32	161	77	101	60	SPMG11
HBS322 37.000	37	32	169	79	109	60	SPMG11
HBS322 37.500	37.5	32	170	80	110	60	SPMG11
HBS322 38.000	38	32	171	81	111	60	SPMG11
HBS322 38.500	38.5	32	172	82	112	60	SPMG11
HBS322 39.000	39	32	173	83	113	60	SPMG11
HBS322 39.500	39.5	32	174	84	114	60	SPMG11
HBS402 40.000	40	40	185	85	115	70	SPMG11

Indexable Drill



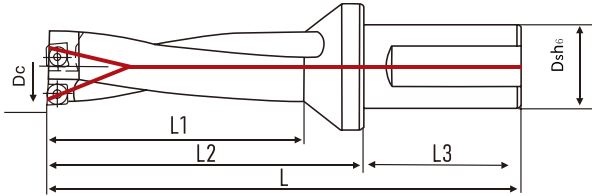
Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBS203 8.500	8.5	20	92.5	27	42.5	44	SPMG03
HBS203 9.000	9	20	93.5	28	43.5	44	SPMG03
HBS203 9.500	9.5	20	94.5	29	44.5	44	SPMG03
HBS203 10.000	10	20	97	31	47	44	SPMG04
HBS203 10.500	10.5	20	97.5	33	47.5	44	SPMG04
HBS203 11.000	11	20	98.5	34	48.5	44	SPMG04
HBS203 11.500	11.5	20	100	37	50	44	SPMG04
HBS203 12.000	12	20	102	38	52	44	SPMG04
HBS203 12.500	12.5	20	105	41	55	44	SPMG04
HBS203 13.000	13	20	101	42	57	44	SPMG05
HBS203 13.500	13.5	20	103	44	59	44	SPMG05
HBS203 14.000	14	20	104	45	60	44	SPMG05
HBS203 14.500	14.5	20	106	47	62	44	SPMG05
HBS203 15.000	15	20	107	48	63	44	SPMG05
HBS203 15.500	15.5	20	109	50	65	44	SPMG05
HBS203 16.000	16	20	110	51	66	44	SPMG06
HBS203 16.500	16.5	20	112	53	68	44	SPMG06
HBS203 17.000	17	20	113	54	69	44	SPMG06
HBS253 17.500	17.5	25	127	56	71	56	SPMG06
HBS253 18.000	18	25	128	57	72	56	SPMG06
HBS253 18.500	18.5	25	130	59	74	56	SPMG06
HBS253 19.000	19	25	131	60	75	56	SPMG06
HBS253 19.500	19.5	25	133	62	77	56	SPMG06
HBS253 20.000	20	25	134	63	78	56	SPMG06
HBS253 20.500	20.5	25	136	65	80	56	SPMG06
HBS253 21.000	21	25	137	66	81	56	SPMG06

Indexable Drill



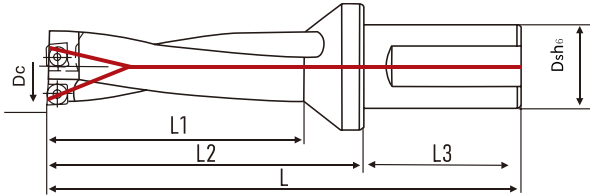
Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HB5253 21.500	21.5	25	139	68	83	56	SPMG06
HB5253 22.000	22	25	140	69	84	56	SPMG07
HB5253 22.500	22.5	25	142	71	86	56	SPMG07
HB5253 23.000	23	25	146	72	90	56	SPMG07
HB5253 23.500	23.5	25	148	74	92	56	SPMG07
HB5253 24.000	24	25	149	75	93	56	SPMG07
HB5253 24.500	24.5	25	151	77	95	56	SPMG07
HB5253 25.000	25	25	152	78	96	56	SPMG07
HB5323 25.500	25.5	32	160	80	100	60	SPMG07
HB5323 26.000	26	32	161	81	101	60	SPMG07
HB5323 26.500	26.5	32	163	83	103	60	SPMG07
HB5323 27.000	27	32	164	84	104	60	SPMG07
HB5323 27.500	27.5	32	166	86	106	60	SPMG07
HB5323 28.000	28	32	167	87	107	60	SPMG09
HB5323 28.500	28.5	32	169	89	109	60	SPMG09
HB5323 29.000	29	32	172	91	112	60	SPMG09
HB5323 29.500	29.5	32	174	93	114	60	SPMG09
HB5323 30.000	30	32	178	94	118	60	SPMG09
HB5323 30.500	30.5	32	180	96	120	60	SPMG09
HB5323 31.000	31	32	181	97	121	60	SPMG09
HB5323 31.500	31.5	32	183	99	123	60	SPMG09
HB5323 32.000	32	32	184	100	124	60	SPMG09
HB5323 32.500	32.5	32	186	102	126	60	SPMG09
HB5323 33.000	33	32	187	103	127	60	SPMG09
HB5323 33.500	33.5	32	189	105	129	60	SPMG09
HB5323 34.000	34	32	190	106	130	60	SPMG11

Indexable Drill



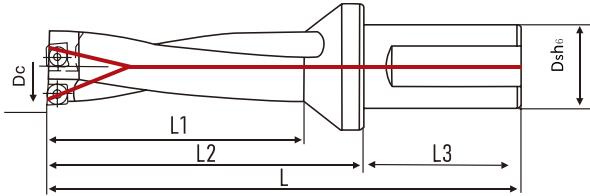
Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBS323 34.500	34.5	32	192	108	132	60	SPMG11
HBS323 35.000	35	32	193	109	133	60	SPMG11
HBS323 35.500	35.5	32	195	111	135	60	SPMG11
HBS323 36.000	36	32	196	112	136	60	SPMG11
HBS323 36.500	36.5	32	198	114	138	60	SPMG11
HBS323 37.000	37	32	206	116	146	60	SPMG11
HBS323 37.500	37.5	32	208	118	148	60	SPMG11
HBS323 38.000	38	32	209	119	149	60	SPMG11
HBS323 38.500	38.5	32	211	121	151	60	SPMG11
HBS323 39.000	39	32	212	122	152	60	SPMG11
HBS323 39.500	39.5	32	214	124	154	60	SPMG11
HBS403 40.000	40	40	225	125	155	70	SPMG11

Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HB S204 11.500	11.5	20	111	47	61	44	SPMG04
HB S204 12.000	12	20	115	50	65	44	SPMG04
HB S204 12.500	12.5	20	117	52	67	44	SPMG04
HB S204 13.000	13	20	114	55	70	44	SPMG05
HB S204 13.500	13.5	20	116	57	72	44	SPMG05
HB S204 14.000	14	20	118	59	74	44	SPMG05
HB S204 14.500	14.5	20	120	61	76	44	SPMG05
HB S204 15.000	15	20	122	63	78	44	SPMG05
HB S204 15.500	15.5	20	124	65	80	44	SPMG05
HB S204 16.000	16	20	126	67	82	44	SPMG06
HB S204 16.500	16.5	20	128	69	84	44	SPMG06
HB S204 17.000	17	20	130	71	86	44	SPMG06
HB S254 17.500	17.5	25	144	73	88	56	SPMG06
HB S254 18.000	18	25	146	75	90	56	SPMG06
HB S254 18.500	18.5	25	148	77	92	56	SPMG06
HB S254 19.000	19	25	150	79	94	56	SPMG06
HB S254 19.500	19.5	25	152	81	96	56	SPMG06
HB S254 20.000	20	25	154	83	98	56	SPMG06
HB S254 20.500	20.5	25	156	85	100	56	SPMG06
HB S254 21.000	21	25	158	87	102	56	SPMG06
HB S254 21.500	21.5	25	160	89	104	56	SPMG06
HB S254 22.000	22	25	162	91	106	56	SPMG07
HB S254 22.500	22.5	25	164	93	108	56	SPMG07
HB S254 23.000	23	25	169	95	113	56	SPMG07
HB S254 23.500	23.5	25	171	97	115	56	SPMG07
HB S254 24.000	24	25	173	99	117	56	SPMG07

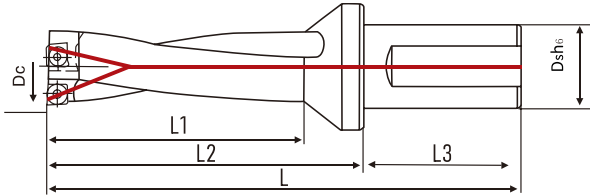
Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HB5254 24.500	24.5	25	175	101	119	56	SPMG07
HB5254 25.000	25	25	177	103	121	56	SPMG07
HB5324 25.500	25.5	32	185	105	125	60	SPMG07
HB5324 26.000	26	32	187	107	127	60	SPMG07
HB5324 26.500	26.5	32	189	109	129	60	SPMG07
HB5324 27.000	27	32	191	111	131	60	SPMG07
HB5324 27.500	27.5	32	193	113	133	60	SPMG07
HB5324 28.000	28	32	195	115	135	60	SPMG09
HB5324 28.500	28.5	32	197	117	137	60	SPMG09
HB5324 29.000	29	32	201	120	141	60	SPMG09
HB5324 29.500	29.5	32	203	122	143	60	SPMG09
HB5324 30.000	30	32	208	124	148	60	SPMG09
HB5324 30.500	30.5	32	210	126	150	60	SPMG09
HB5324 31.000	31	32	212	128	152	60	SPMG09
HB5324 31.500	31.5	32	214	130	154	60	SPMG09
HB5324 32.000	32	32	216	132	156	60	SPMG09
HB5324 32.500	32.5	32	218	134	158	60	SPMG09
HB5324 33.000	33	32	220	136	160	60	SPMG09
HB5324 33.500	33.5	32	222	138	162	60	SPMG09
HB5324 34.000	34	32	224	140	164	60	SPMG11
HB5324 34.500	34.5	32	226	142	166	60	SPMG11
HB5324 35.000	35	32	228	144	168	60	SPMG11
HB5324 35.500	35.5	32	230	146	170	60	SPMG11
HB5324 36.000	36	32	232	148	172	60	SPMG11
HB5324 36.500	36.5	32	236	150	174	60	SPMG11
HB5324 37.000	37	32	243	153	183	60	SPMG11

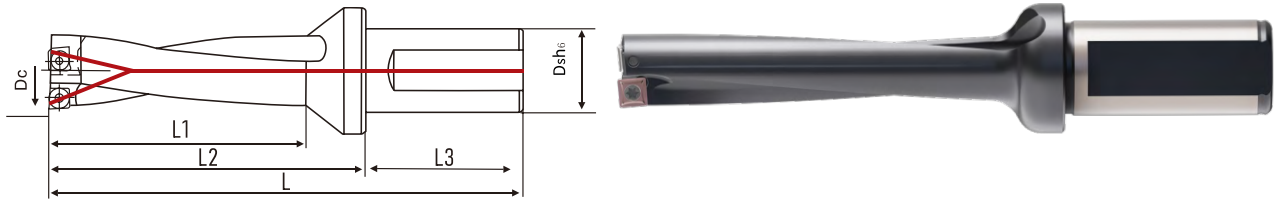
4XD (Ø11.5-40) with SP inserts

Indexable Drill



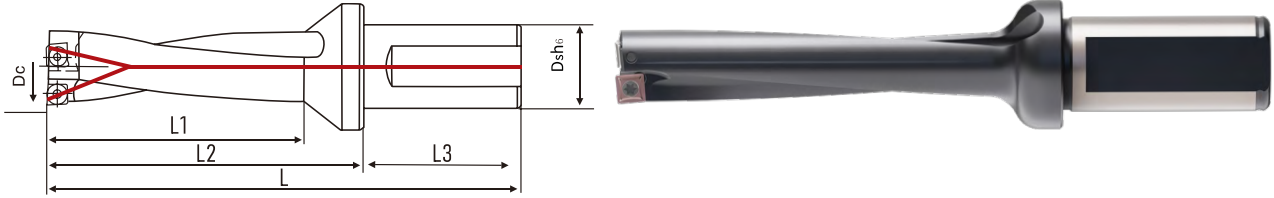
Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBS324 37.500	37.5	32	245	155	185	60	SPMG11
HBS324 38.000	38	32	247	157	187	60	SPMG11
HBS324 38.500	38.5	32	249	159	189	60	SPMG11
HBS324 39.000	39	32	251	161	191	60	SPMG11
HBS324 39.500	39.5	32	253	163	193	60	SPMG11
HBS404 40.000	40	40	265	165	195	70	SPMG11

Indexable Drill

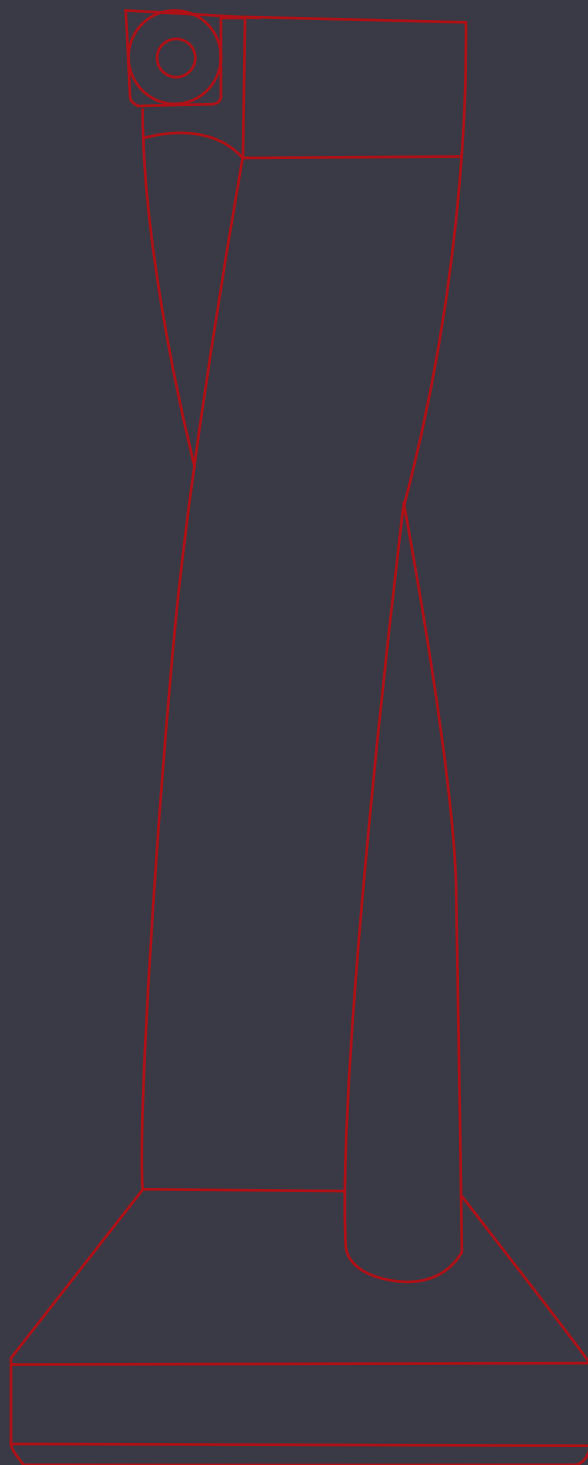


Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HB S205 15.500	15.5	20	140	80	95	44	SPMG05
HB S205 16.000	16	20	142	83	98	44	SPMG06
HB S205 16.500	16.5	20	145	86	101	44	SPMG06
HB S205 17.000	17	20	147	88	103	44	SPMG06
HB S255 17.500	17.5	25	162	91	106	56	SPMG06
HB S255 18.000	18	25	164	93	108	56	SPMG06
HB S255 18.500	18.5	25	167	96	111	56	SPMG06
HB S255 19.000	19	25	169	98	113	56	SPMG06
HB S255 19.500	19.5	25	172	101	116	56	SPMG06
HB S255 20.000	20	25	174	103	118	56	SPMG06
HB S255 20.500	20.5	25	177	106	121	56	SPMG06
HB S255 21.000	21	25	179	108	123	56	SPMG06
HB S255 21.500	21.5	25	182	111	126	56	SPMG06
HB S255 22.000	22	25	184	113	128	56	SPMG07
HB S255 22.500	22.5	25	187	116	131	56	SPMG07
HB S255 23.000	23	25	192	118	136	56	SPMG07
HB S255 23.500	23.5	25	195	121	139	56	SPMG07
HB S255 24.000	24	25	197	123	141	56	SPMG07
HB S255 24.500	24.5	25	200	126	144	56	SPMG07
HB S255 25.000	25	25	202	128	146	56	SPMG07
HB S325 25.500	25.5	32	213	131	153	60	SPMG07
HB S325 26.000	26	32	216	133	156	60	SPMG07
HB S325 26.500	26.5	32	217	136	157	60	SPMG07
HB S325 27.000	27	32	218	138	158	60	SPMG07
HB S325 27.500	27.5	32	221	141	161	60	SPMG07
HB S325 28.000	28	32	223	143	163	60	SPMG09

Indexable Drill

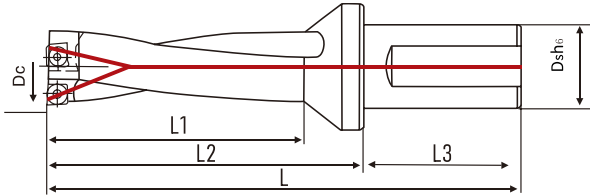


Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HB5325 28.500	28.5	32	226	146	166	60	SPMG09
HB5325 29.000	29	32	230	149	170	60	SPMG09
HB5325 29.500	29.5	32	233	151	173	60	SPMG09
HB5325 30.000	30	32	238	154	178	60	SPMG09
HB5325 30.500	30.5	32	241	157	181	60	SPMG09
HB5325 31.000	31	32	243	159	183	60	SPMG09
HB5325 31.500	31.5	32	245	162	185	60	SPMG09
HB5325 32.000	32	32	248	164	188	60	SPMG09
HB5325 32.500	32.5	32	251	167	191	60	SPMG09
HB5325 33.000	33	32	253	169	193	60	SPMG09
HB5325 33.500	33.5	32	255	172	195	60	SPMG09
HB5325 34.000	34	32	258	174	198	60	SPMG11
HB5325 34.500	34.5	32	261	177	201	60	SPMG11
HB5325 35.000	35	32	263	179	203	60	SPMG11
HB5325 35.500	35.5	32	265	182	205	60	SPMG11
HB5325 36.000	36	32	268	184	208	60	SPMG11
HB5325 36.500	36.5	32	271	187	211	60	SPMG11
HB5325 37.000	37	32	280	190	220	60	SPMG11
HB5325 37.500	37.5	32	283	193	223	60	SPMG11
HB5325 38.000	38	32	285	195	225	60	SPMG11
HB5325 38.500	38.5	32	288	198	228	60	SPMG11
HB5325 39.000	39	32	290	200	230	60	SPMG11
HB5325 39.500	39.5	32	293	203	233	60	SPMG11
HB5405 40.000	40	40	305	205	235	70	SPMG11



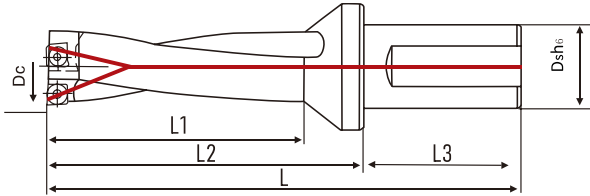
HBO
INDEXABLE DRILL

Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBO202 13.000	13	20	88	29	44	44	SOMT05
HBO202 13.500	13.5	20	89	30	45	44	SOMT05
HBO202 14.000	14	20	90	31	46	44	SOMT05
HBO202 14.500	14.5	20	91	32	47	44	SOMT05
HBO202 15.000	15	20	92	33	48	44	SOMT05
HBO252 15.500	15.5	25	93	34	49	44	SOMT05
HBO252 16.000	16	25	94	35	50	44	SOMT05
HBO252 16.500	16.5	25	95	36	51	44	SOMT06
HBO252 17.000	17	25	96	37	52	44	SOMT06
HBO252 17.500	17.5	25	109	38	53	56	SOMT06
HBO252 18.000	18	25	110	39	54	56	SOMT06
HBO252 18.500	18.5	25	111	40	55	56	SOMT06
HBO252 19.000	19	25	112	41	56	56	SOMT06
HBO252 19.500	19.5	25	113	42	57	56	SOMT07
HBO252 20.000	20	25	114	43	58	56	SOMT07
HBO252 20.500	20.5	25	115	44	59	56	SOMT07
HBO252 21.000	21	25	116	45	60	56	SOMT07
HBO252 21.500	21.5	25	117	46	61	56	SOMT07
HBO252 22.000	22	25	118	47	62	56	SOMT07
HBO252 22.500	22.5	25	119	48	63	56	SOMT08
HBO252 23.000	23	25	123	49	67	56	SOMT08
HBO252 23.500	23.5	25	124	50	68	56	SOMT08
HBO252 24.000	24	25	125	51	69	56	SOMT08
HBO252 24.500	24.5	25	126	52	70	56	SOMT08
HBO252 25.000	25	25	127	53	71	56	SOMT08
HBO322 25.500	25.5	32	134	54	74	60	SOMT08

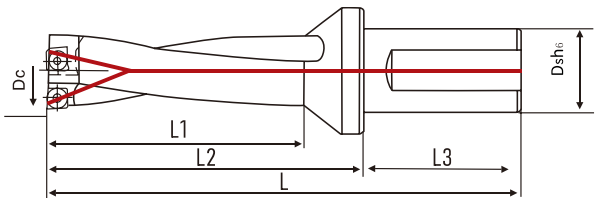
Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBO322 26.000	26	32	135	55	75	60	SOMT08
HBO322 26.500	26.5	32	136	56	76	60	SOMT09
HBO322 27.000	27	32	137	57	77	60	SOMT09
HBO322 27.500	27.5	32	138	58	78	60	SOMT09
HBO322 28.000	28	32	139	59	79	60	SOMT09
HBO322 28.500	28.5	32	140	60	80	60	SOMT09
HBO322 29.000	29	32	143	62	83	60	SOMT09
HBO322 29.500	29.5	32	144	63	84	60	SOMT09
HBO322 30.000	30	32	148	64	88	60	SOMT09
HBO322 30.500	30.5	32	149	65	89	60	SOMT09
HBO322 31.000	31	32	150	66	90	60	SOMT09
HBO322 31.500	31.5	32	151	67	91	60	SOMT09
HBO322 32.000	32	32	152	68	92	60	SOMT11
HBO322 32.500	32.5	32	153	69	93	60	SOMT11
HBO322 33.000	33	32	154	70	94	60	SOMT11
HBO322 33.500	33.5	32	155	71	95	60	SOMT11
HBO322 34.000	34	32	156	72	96	60	SOMT11
HBO322 34.500	34.5	32	157	73	97	60	SOMT11
HBO322 35.000	35	32	158	74	98	60	SOMT11
HBO322 35.500	35.5	32	159	75	99	60	SOMT11
HBO322 36.000	36	32	160	76	100	60	SOMT11
HBO322 36.500	36.5	32	161	77	101	60	SOMT11
HBO322 37.000	37	32	169	79	109	60	SOMT13
HBO322 37.500	37.5	32	170	80	110	60	SOMT13
HBO322 38.000	38	32	171	81	111	60	SOMT13
HBO322 38.500	38.5	32	172	82	112	60	SOMT13

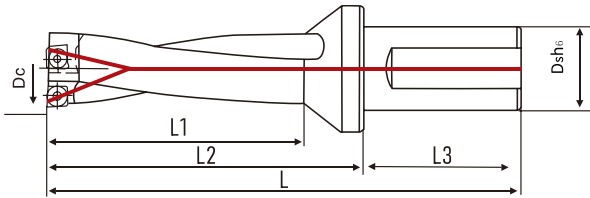
2XD (Ø13-40) with SO inserts

Indexable Drill



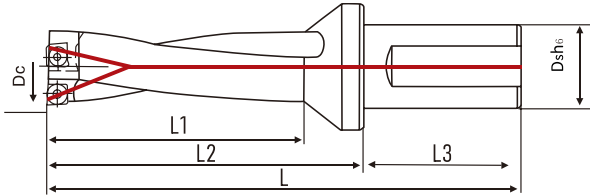
Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBO322 39.000	39	32	173	83	113	60	SOMT13
HBO322 39.500	39.5	32	174	84	114	60	SOMT13
HBO402 40.000	40	40	185	85	115	70	SOMT13

Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBO203 13.000	13	20	101	42	57	44	SOMT05
HBO203 13.500	13.5	20	103	44	59	44	SOMT05
HBO203 14.000	14	20	104	45	60	44	SOMT05
HBO203 14.500	14.5	20	106	47	62	44	SOMT05
HBO203 15.000	15	20	107	48	63	44	SOMT05
HBO253 15.500	15.5	25	109	50	65	44	SOMT05
HBO253 16.000	16	25	110	51	66	44	SOMT05
HBO253 16.500	16.5	25	112	53	68	44	SOMT06
HBO253 17.000	17	25	113	54	69	44	SOMT06
HBO253 17.500	17.5	25	127	56	71	56	SOMT06
HBO253 18.000	18	25	128	57	72	56	SOMT06
HBO253 18.500	18.5	25	130	59	74	56	SOMT06
HBO253 19.000	19	25	131	60	75	56	SOMT06
HBO253 19.500	19.5	25	133	62	77	56	SOMT07
HBO253 20.000	20	25	134	63	78	56	SOMT07
HBO253 20.500	20.5	25	136	65	80	56	SOMT07
HBO253 21.000	21	25	137	66	81	56	SOMT07
HBO253 21.500	21.5	25	139	68	83	56	SOMT07
HBO253 22.000	22	25	140	69	84	56	SOMT07
HBO253 22.500	22.5	25	142	71	86	56	SOMT08
HBO253 23.000	23	25	146	72	90	56	SOMT08
HBO253 23.500	23.5	25	148	74	92	56	SOMT08
HBO253 24.000	24	25	149	75	93	56	SOMT08
HBO253 24.500	24.5	25	151	77	95	56	SOMT08
HBO253 25.000	25	25	152	78	96	56	SOMT08
HBO323 25.500	25.5	32	160	80	100	60	SOMT08

Indexable Drill

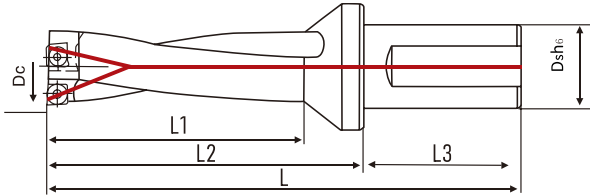


Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBO323 26.000	26	32	161	81	101	60	SOMT08
HBO323 26.500	26.5	32	163	83	103	60	SOMT09
HBO323 27.000	27	32	164	84	104	60	SOMT09
HBO323 27.500	27.5	32	166	86	106	60	SOMT09
HBO323 28.000	28	32	167	87	107	60	SOMT09
HBO323 28.500	28.5	32	169	89	109	60	SOMT09
HBO323 29.000	29	32	172	91	112	60	SOMT09
HBO323 29.500	29.5	32	174	93	114	60	SOMT09
HBO323 30.000	30	32	178	94	118	60	SOMT09
HBO323 30.500	30.5	32	180	96	120	60	SOMT09
HBO323 31.000	31	32	181	97	121	60	SOMT09
HBO323 31.500	31.5	32	183	99	123	60	SOMT09
HBO323 32.000	32	32	184	100	124	60	SOMT11
HBO323 32.500	32.5	32	186	102	126	60	SOMT11
HBO323 33.000	33	32	187	103	127	60	SOMT11
HBO323 33.500	33.5	32	189	105	129	60	SOMT11
HBO323 34.000	34	32	190	106	130	60	SOMT11
HBO323 34.500	34.5	32	192	108	132	60	SOMT11
HBO323 35.000	35	32	193	109	133	60	SOMT11
HBO323 35.500	35.5	32	195	111	135	60	SOMT11
HBO323 36.000	36	32	196	112	136	60	SOMT11
HBO323 36.500	36.5	32	198	114	138	60	SOMT11
HBO323 37.000	37	32	206	116	146	60	SOMT13
HBO323 37.500	37.5	32	208	118	148	60	SOMT13
HBO323 38.000	38	32	209	119	149	60	SOMT13
HBO323 38.500	38.5	32	211	121	151	60	SOMT13

3XD (Ø13-40) with SO inserts

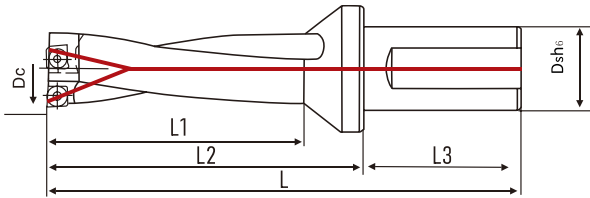
Indexable Drill

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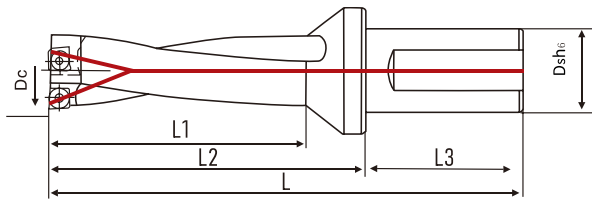
Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBO323 39.000	39	32	212	122	152	60	SOMT13
HBO323 39.500	39.5	32	214	124	154	60	SOMT13
HBO403 40.000	40	40	225	125	155	70	SOMT13

Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBO204 13.000	13	20	114	55	70	44	SOMT05
HBO204 13.500	13.5	20	116	57	72	44	SOMT05
HBO204 14.000	14	20	118	59	74	44	SOMT05
HBO204 14.500	14.5	20	120	61	76	44	SOMT05
HBO204 15.000	15	20	122	63	78	44	SOMT05
HBO254 15.500	15.5	25	124	65	80	44	SOMT05
HBO254 16.000	16	25	126	67	82	44	SOMT05
HBO254 16.500	16.5	25	128	69	84	44	SOMT06
HBO254 17.000	17	25	130	71	86	44	SOMT06
HBO254 17.500	17.5	25	144	73	88	56	SOMT06
HBO254 18.000	18	25	146	75	90	56	SOMT06
HBO254 18.500	18.5	25	148	77	92	56	SOMT06
HBO254 19.000	19	25	150	79	94	56	SOMT06
HBO254 19.500	19.5	25	152	81	96	56	SOMT07
HBO254 20.000	20	25	154	83	98	56	SOMT07
HBO254 20.500	20.5	25	156	85	100	56	SOMT07
HBO254 21.000	21	25	158	87	102	56	SOMT07
HBO254 21.500	21.5	25	160	89	104	56	SOMT07
HBO254 22.000	22	25	162	91	106	56	SOMT07
HBO254 22.500	22.5	25	164	93	108	56	SOMT08
HBO254 23.000	23	25	169	95	113	56	SOMT08
HBO254 23.500	23.5	25	171	97	115	56	SOMT08
HBO254 24.000	24	25	173	99	117	56	SOMT08
HBO254 24.500	24.5	25	175	101	119	56	SOMT08
HBO254 25.000	25	25	177	103	121	56	SOMT08
HBO324 25.500	25.5	32	185	105	125	60	SOMT08

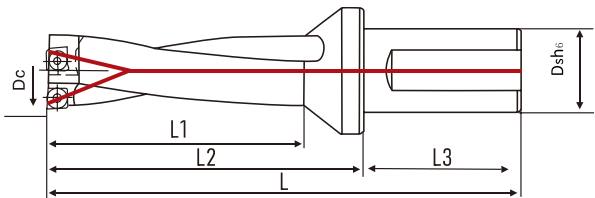
Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBO324 26.000	26	32	187	107	127	60	SOMT08
HBO324 26.500	26.5	32	189	109	129	60	SOMT09
HBO324 27.000	27	32	191	111	131	60	SOMT09
HBO324 27.500	27.5	32	193	113	133	60	SOMT09
HBO324 28.000	28	32	195	115	135	60	SOMT09
HBO324 28.500	28.5	32	197	117	137	60	SOMT09
HBO324 29.000	29	32	201	120	141	60	SOMT09
HBO324 29.500	29.5	32	203	122	143	60	SOMT09
HBO324 30.000	30	32	208	124	148	60	SOMT09
HBO324 30.500	30.5	32	210	126	150	60	SOMT09
HBO324 31.000	31	32	212	128	152	60	SOMT09
HBO324 31.500	31.5	32	214	130	154	60	SOMT09
HBO324 32.000	32	32	216	132	156	60	SOMT11
HBO324 32.500	32.5	32	218	134	158	60	SOMT11
HBO324 33.000	33	32	220	136	160	60	SOMT11
HBO324 33.500	33.5	32	222	138	162	60	SOMT11
HBO324 34.000	34	32	224	140	164	60	SOMT11
HBO324 34.500	34.5	32	226	142	166	60	SOMT11
HBO324 35.000	35	32	228	144	168	60	SOMT11
HBO324 35.500	35.5	32	230	146	170	60	SOMT11
HBO324 36.000	36	32	232	148	172	60	SOMT11
HBO324 36.500	36.5	32	236	150	174	60	SOMT11
HBO324 37.000	37	32	243	153	183	60	SOMT13
HBO324 37.500	37.5	32	245	155	185	60	SOMT13
HBO324 38.000	38	32	247	157	187	60	SOMT13
HBO324 38.500	38.5	32	249	159	189	60	SOMT13

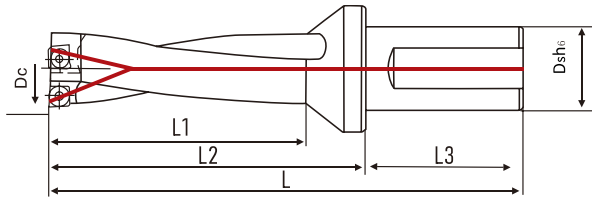
4XD (Ø13-40) with SO inserts

Indexable Drill



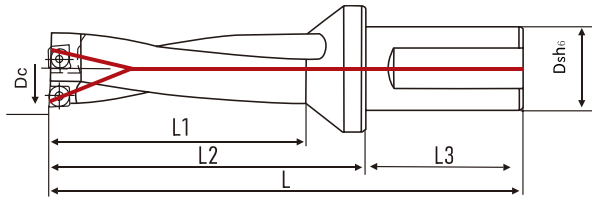
Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBO324 39.000	39	32	251	161	191	60	SOMT13
HBO324 39.500	39.5	32	253	163	193	60	SOMT13
HBO404 40.000	40	40	265	165	195	70	SOMT13

Indexable Drill

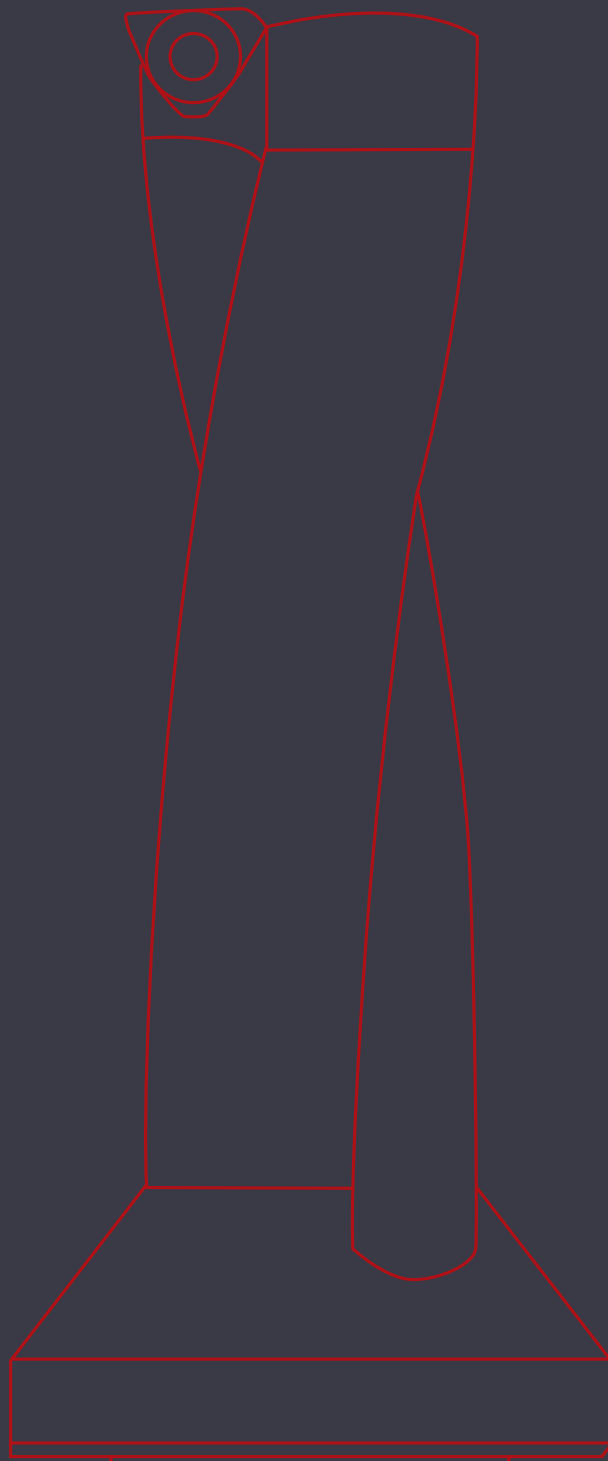


Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBO255 16.000	16	25	142	83	98	44	SOMT05
HBO255 16.500	16.5	25	145	86	101	44	SOMT06
HBO255 17.000	17	25	147	88	103	44	SOMT06
HBO255 17.500	17.5	25	162	91	106	56	SOMT06
HBO255 18.000	18	25	164	93	108	56	SOMT06
HBO255 18.500	18.5	25	167	96	111	56	SOMT06
HBO255 19.000	19	25	169	98	113	56	SOMT06
HBO255 19.500	19.5	25	172	101	116	56	SOMT07
HBO255 20.000	20	25	174	103	118	56	SOMT07
HBO255 20.500	20.5	25	177	106	121	56	SOMT07
HBO255 21.000	21	25	179	108	123	56	SOMT07
HBO255 21.500	21.5	25	182	111	126	56	SOMT07
HBO255 22.000	22	25	184	113	128	56	SOMT07
HBO255 22.500	22.5	25	187	116	131	56	SOMT08
HBO255 23.000	23	25	192	118	136	56	SOMT08
HBO255 23.500	23.5	25	195	121	139	56	SOMT08
HBO255 24.000	24	25	197	123	141	56	SOMT08
HBO255 24.500	24.5	25	200	126	144	56	SOMT08
HBO255 25.000	25	25	202	128	146	56	SOMT08
HBO325 25.500	25.5	32	213	131	153	60	SOMT08
HBO325 26.000	26	32	216	133	156	60	SOMT08
HBO325 26.500	26.5	32	217	136	159	60	SOMT09
HBO325 27.000	27	32	218	138	160	60	SOMT09
HBO325 27.500	27.5	32	221	141	161	60	SOMT09
HBO325 28.000	28	32	223	143	163	60	SOMT09
HBO325 28.500	28.5	32	226	146	166	60	SOMT09

Indexable Drill

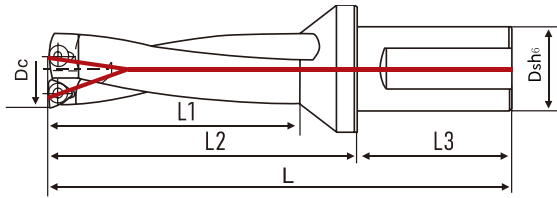


Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBO325 29.000	29	32	230	149	170	60	SOMT09
HBO325 29.500	29.5	32	233	151	173	60	SOMT09
HBO325 30.000	30	32	238	154	178	60	SOMT09
HBO325 30.500	30.5	32	241	157	181	60	SOMT09
HBO325 31.000	31	32	243	159	183	60	SOMT09
HBO325 31.500	31.5	32	245	162	185	60	SOMT09
HBO325 32.000	32	32	248	164	188	60	SOMT11
HBO325 32.500	32.5	32	251	167	191	60	SOMT11
HBO325 33.000	33	32	253	169	193	60	SOMT11
HBO325 33.500	33.5	32	255	172	195	60	SOMT11
HBO325 34.000	34	32	258	174	198	60	SOMT11
HBO325 34.500	34.5	32	261	177	201	60	SOMT11
HBO325 35.000	35	32	263	179	203	60	SOMT11
HBO325 35.500	35.5	32	265	182	205	60	SOMT11
HBO325 36.000	36	32	268	184	208	60	SOMT11
HBO325 36.500	36.5	32	271	187	211	60	SOMT11
HBO325 37.000	37	32	280	190	220	60	SOMT13
HBO325 37.500	37.5	32	283	193	223	60	SOMT13
HBO325 38.000	38	32	285	195	225	60	SOMT13
HBO325 38.500	38.5	32	288	198	228	60	SOMT13
HBO325 39.000	39	32	290	200	230	60	SOMT13
HBO325 39.500	39.5	32	293	203	233	60	SOMT13
HBO405 40.000	40	40	305	205	235	70	SOMT13



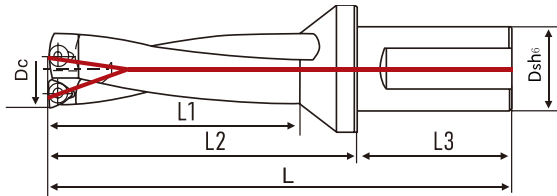
HBW
INDEXABLE DRILL

Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBW202 13.000	13	20	88	29	44	44	WCMT02
HBW202 13.500	13.5	20	89	30	45	44	WCMT02
HBW202 14.000	14	20	90	31	46	44	WCMT03
HBW202 14.500	14.5	20	91	32	47	44	WCMT03
HBW202 15.000	15	20	92	33	48	44	WCMT03
HBW252 15.500	15.5	25	93	34	49	44	WCMT03
HBW252 16.000	16	25	94	35	50	44	WCMT03
HBW252 16.500	16.5	25	95	36	51	44	WCMT03
HBW252 17.000	17	25	96	37	52	44	WCMT03
HBW252 17.500	17.5	25	109	38	53	56	WCMT03
HBW252 18.000	18	25	110	39	54	56	WCMT03
HBW252 18.500	18.5	25	111	40	55	56	WCMT03
HBW252 19.000	19	25	112	41	56	56	WCMT03
HBW252 19.500	19.5	25	113	42	57	56	WCMT03
HBW252 20.000	20	25	114	43	58	56	WCMT03
HBW252 20.500	20.5	25	115	44	59	56	WCMT03
HBW252 21.000	21	25	116	45	60	56	WCMT04
HBW252 21.500	21.5	25	117	46	61	56	WCMT04
HBW252 22.000	22	25	118	47	62	56	WCMT04
HBW252 22.500	22.5	25	119	48	63	56	WCMT04
HBW252 23.000	23	25	123	49	67	56	WCMT04
HBW252 23.500	23.5	25	124	50	68	56	WCMT04
HBW252 24.000	24	25	125	51	69	56	WCMT04
HBW252 24.500	24.5	25	126	52	70	56	WCMT04
HBW252 25.000	25	25	127	53	71	56	WCMT05
HBW322 25.500	25.5	32	134	54	74	60	WCMT05

Indexable Drill

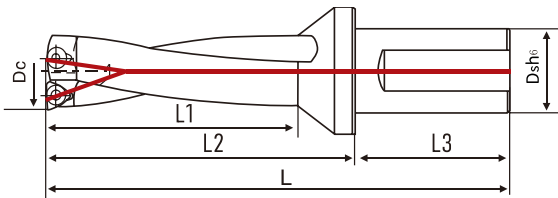


Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBW322 26.000	26	32	135	55	75	60	WCMT05
HBW322 26.500	26.5	32	136	56	76	60	WCMT05
HBW322 27.000	27	32	137	57	77	60	WCMT05
HBW322 27.500	27.5	32	138	58	78	60	WCMT05
HBW322 28.000	28	32	139	59	79	60	WCMT05
HBW322 28.500	28.5	32	140	60	80	60	WCMT05
HBW322 29.000	29	32	143	62	83	60	WCMT05
HBW322 29.500	29.5	32	144	63	84	60	WCMT05
HBW322 30.000	30	32	148	64	88	60	WCMT05
HBW322 30.500	30.5	32	149	65	89	60	WCMT05
HBW322 31.000	31	32	150	66	90	60	WCMT06
HBW322 31.500	31.5	32	151	67	91	60	WCMT06
HBW322 32.000	32	32	152	68	92	60	WCMT06
HBW322 32.500	32.5	32	153	69	93	60	WCMT06
HBW322 33.000	33	32	154	70	94	60	WCMT06
HBW322 33.500	33.5	32	155	71	95	60	WCMT06
HBW322 34.000	34	32	156	72	96	60	WCMT06
HBW322 34.500	34.5	32	157	73	97	60	WCMT06
HBW322 35.000	35	32	158	74	98	60	WCMT06
HBW322 35.500	35.5	32	159	75	99	60	WCMT06
HBW322 36.000	36	32	160	76	100	60	WCMT06
HBW322 36.500	36.5	32	161	77	101	60	WCMT06
HBW322 37.000	37	32	169	79	109	60	WCMT06
HBW322 37.500	37.5	32	170	80	110	60	WCMT06
HBW322 38.000	38	32	171	81	111	60	WCMT06
HBW322 38.500	38.5	32	172	82	112	60	WCMT06

2XD (Ø13-40) with WC inserts

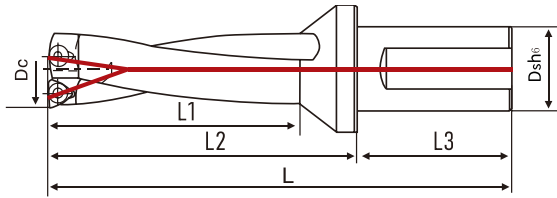
Indexable Drill

30



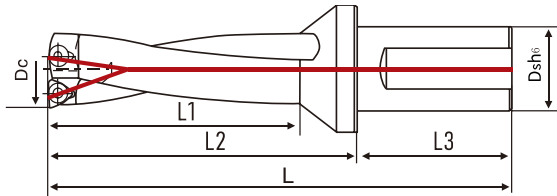
Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBW322 39.000	39	32	173	83	113	60	WCMT06
HBW322 39.500	39.5	32	174	84	114	60	WCMT06
HBW402 40.000	40	40	185	85	115	70	WCMT06

Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBW203 13.000	13	20	101	42	57	44	WCMT02
HBW203 13.500	13.5	20	103	44	59	44	WCMT02
HBW203 14.000	14	20	104	45	60	44	WCMT03
HBW203 14.500	14.5	20	106	47	62	44	WCMT03
HBW203 15.000	15	20	107	48	63	44	WCMT03
HBW253 15.500	15.5	25	109	50	65	44	WCMT03
HBW253 16.000	16	25	110	51	66	44	WCMT03
HBW253 16.500	16.5	25	112	53	68	44	WCMT03
HBW253 17.000	17	25	113	54	69	44	WCMT03
HBW253 17.500	17.5	25	127	56	71	56	WCMT03
HBW253 18.000	18	25	128	57	72	56	WCMT03
HBW253 18.500	18.5	25	130	59	74	56	WCMT03
HBW253 19.000	19	25	131	60	75	56	WCMT03
HBW253 19.500	19.5	25	133	62	77	56	WCMT03
HBW253 20.000	20	25	134	63	78	56	WCMT03
HBW253 20.500	20.5	25	136	65	80	56	WCMT03
HBW253 21.000	21	25	137	66	81	56	WCMT04
HBW253 21.500	21.5	25	139	68	83	56	WCMT04
HBW253 22.000	22	25	140	69	84	56	WCMT04
HBW253 22.500	22.5	25	142	71	86	56	WCMT04
HBW253 23.000	23	25	146	72	90	56	WCMT04
HBW253 23.500	23.5	25	148	74	92	56	WCMT04
HBW253 24.000	24	25	149	75	93	56	WCMT04
HBW253 24.500	24.5	25	151	77	95	56	WCMT04
HBW253 25.000	25	25	152	78	96	56	WCMT05
HBW323 25.500	25.5	32	160	80	100	60	WCMT05

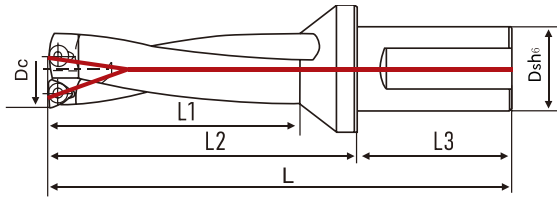
Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBW323 26.000	26	32	161	81	101	60	WCMT05
HBW323 26.500	26.5	32	163	83	103	60	WCMT05
HBW323 27.000	27	32	164	84	104	60	WCMT05
HBW323 27.500	27.5	32	166	86	106	60	WCMT05
HBW323 28.000	28	32	167	87	107	60	WCMT05
HBW323 28.500	28.5	32	169	89	109	60	WCMT05
HBW323 29.000	29	32	172	91	112	60	WCMT05
HBW323 29.500	29.5	32	174	93	114	60	WCMT05
HBW323 30.000	30	32	178	94	118	60	WCMT05
HBW323 30.500	30.5	32	180	96	120	60	WCMT05
HBW323 31.000	31	32	181	97	121	60	WCMT06
HBW323 31.500	31.5	32	183	99	123	60	WCMT06
HBW323 32.000	32	32	184	100	124	60	WCMT06
HBW323 32.500	32.5	32	186	102	126	60	WCMT06
HBW323 33.000	33	32	187	103	127	60	WCMT06
HBW323 33.500	33.5	32	189	105	129	60	WCMT06
HBW323 34.000	34	32	190	106	130	60	WCMT06
HBW323 34.500	34.5	32	192	108	132	60	WCMT06
HBW323 35.000	35	32	193	109	133	60	WCMT06
HBW323 35.500	35.5	32	195	111	135	60	WCMT06
HBW323 36.000	36	32	196	112	136	60	WCMT06
HBW323 36.500	36.5	32	198	114	138	60	WCMT06
HBW323 37.000	37	32	206	116	146	60	WCMT06
HBW323 37.500	37.5	32	208	118	148	60	WCMT06
HBW323 38.000	38	32	209	119	149	60	WCMT06
HBW323 38.500	38.5	32	211	121	151	60	WCMT06

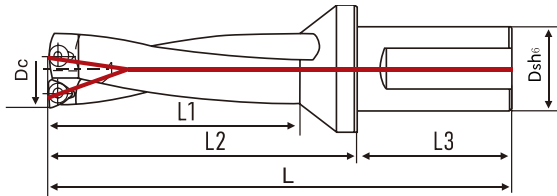
3XD (Ø 13-40) with WC inserts

Indexable Drill



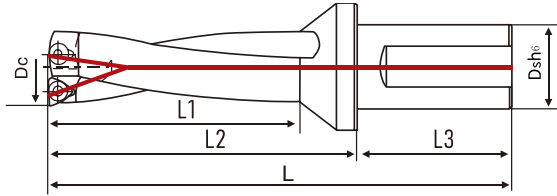
Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBW323 39.000	39	32	212	122	152	60	WCMT06
HBW323 39.500	39.5	32	214	124	154	60	WCMT06
HBW403 40.000	40	40	225	125	155	70	WCMT06

Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBW204 13.000	13	20	114	55	70	44	WCMT02
HBW204 13.500	13.5	20	116	57	72	44	WCMT02
HBW204 14.000	14	20	118	59	74	44	WCMT03
HBW204 14.500	14.5	20	120	61	76	44	WCMT03
HBW204 15.000	15	20	122	63	78	44	WCMT03
HBW254 15.500	15.5	25	124	65	80	44	WCMT03
HBW254 16.000	16	25	126	67	82	44	WCMT03
HBW254 16.500	16.5	25	128	69	84	44	WCMT03
HBW254 17.000	17	25	130	71	86	44	WCMT03
HBW254 17.500	17.5	25	144	73	88	56	WCMT03
HBW254 18.000	18	25	146	75	90	56	WCMT03
HBW254 18.500	18.5	25	148	77	92	56	WCMT03
HBW254 19.000	19	25	150	79	94	56	WCMT03
HBW254 19.500	19.5	25	152	81	96	56	WCMT03
HBW254 20.000	20	25	154	83	98	56	WCMT03
HBW254 20.500	20.5	25	156	85	100	56	WCMT03
HBW254 21.000	21	25	158	87	102	56	WCMT04
HBW254 21.500	21.5	25	160	89	104	56	WCMT04
HBW254 22.000	22	25	162	91	106	56	WCMT04
HBW254 22.500	22.5	25	164	93	108	56	WCMT04
HBW254 23.000	23	25	169	95	113	56	WCMT04
HBW254 23.500	23.5	25	171	97	115	56	WCMT04
HBW254 24.000	24	25	173	99	117	56	WCMT04
HBW254 24.500	24.5	25	175	101	119	56	WCMT04
HBW254 25.000	25	25	177	103	121	56	WCMT05
HBW324 25.500	25.5	32	185	105	125	60	WCMT05

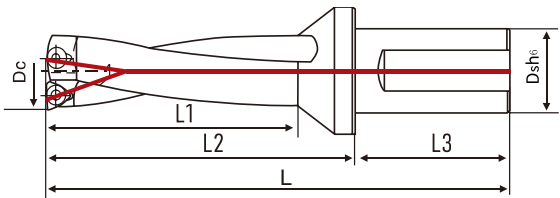
Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBW324 26.000	26	32	187	107	127	60	WCMT05
HBW324 26.500	26.5	32	189	109	129	60	WCMT05
HBW324 27.000	27	32	191	111	131	60	WCMT05
HBW324 27.500	27.5	32	193	113	133	60	WCMT05
HBW324 28.000	28	32	195	115	135	60	WCMT05
HBW324 28.500	28.5	32	197	117	137	60	WCMT05
HBW324 29.000	29	32	201	120	141	60	WCMT05
HBW324 29.500	29.5	32	203	122	143	60	WCMT05
HBW324 30.000	30	32	208	124	148	60	WCMT05
HBW324 30.500	30.5	32	210	126	150	60	WCMT05
HBW324 31.000	31	32	212	128	152	60	WCMT06
HBW324 31.500	31.5	32	214	130	154	60	WCMT06
HBW324 32.000	32	32	216	132	156	60	WCMT06
HBW324 32.500	32.5	32	218	134	158	60	WCMT06
HBW324 33.000	33	32	220	136	160	60	WCMT06
HBW324 33.500	33.5	32	222	138	162	60	WCMT06
HBW324 34.000	34	32	224	140	164	60	WCMT06
HBW324 34.500	34.5	32	226	142	166	60	WCMT06
HBW324 35.000	35	32	228	144	168	60	WCMT06
HBW324 35.500	35.5	32	230	146	170	60	WCMT06
HBW324 36.000	36	32	232	148	172	60	WCMT06
HBW324 36.500	36.5	32	236	150	174	60	WCMT06
HBW324 37.000	37	32	243	153	183	60	WCMT06
HBW324 37.500	37.5	32	245	155	185	60	WCMT06
HBW324 38.000	38	32	247	157	187	60	WCMT06
HBW324 38.500	38.5	32	249	159	189	60	WCMT06

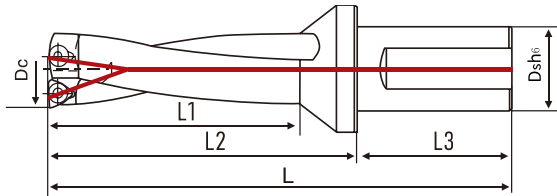
4XD (Ø13-40) with WC inserts

Indexable Drill



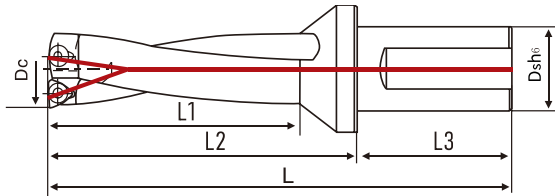
Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBW324 39.000	39	32	251	161	191	60	WCMT06
HBW324 39.500	39.5	32	253	163	193	60	WCMT06
HBW404 40.000	40	40	265	165	195	70	WCMT06

Indexable Drill

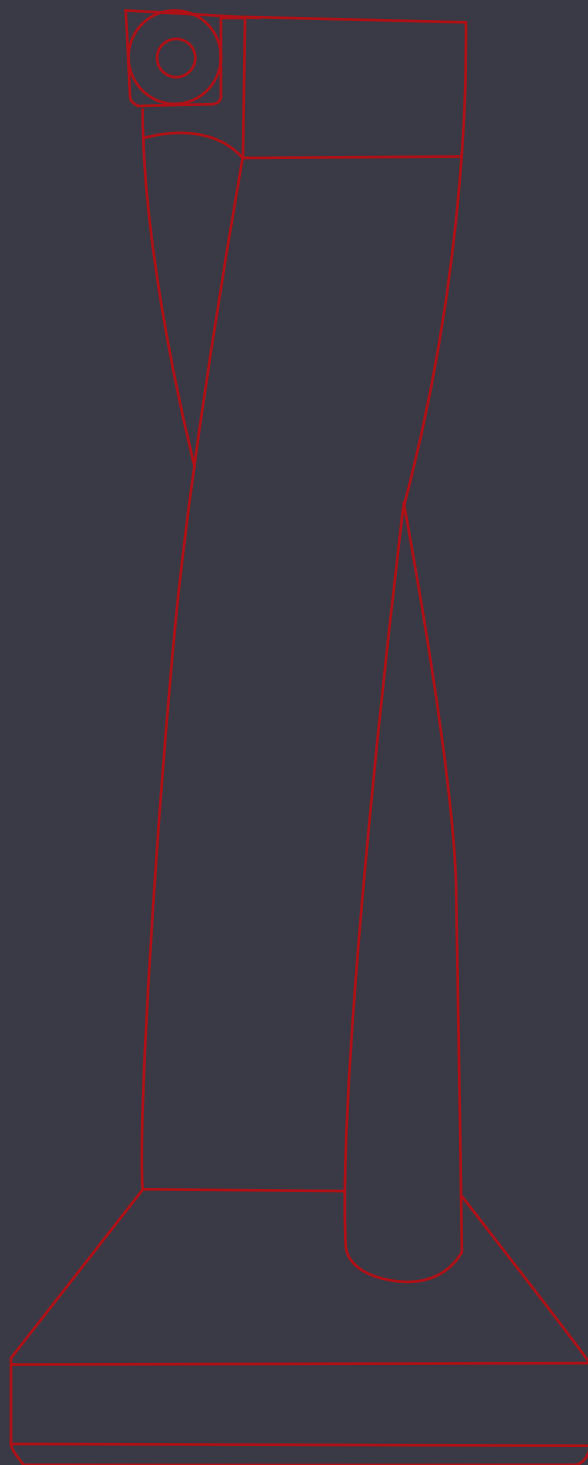


Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBW205 16.000	16	20	142	83	98	44	WCMT03
HBW205 16.500	16.5	20	145	86	101	44	WCMT03
HBW205 17.000	17	20	147	88	103	44	WCMT03
HBW255 17.500	17.5	25	162	91	106	56	WCMT03
HBW255 18.000	18	25	164	93	108	56	WCMT03
HBW255 18.500	18.5	25	167	96	111	56	WCMT03
HBW255 19.000	19	25	169	98	113	56	WCMT03
HBW255 19.500	19.5	25	172	101	116	56	WCMT03
HBW255 20.000	20	25	174	103	118	56	WCMT03
HBW255 20.500	20.5	25	177	106	121	56	WCMT03
HBW255 21.000	21	25	179	108	123	56	WCMT04
HBW255 21.500	21.5	25	182	111	126	56	WCMT04
HBW255 22.000	22	25	184	113	128	56	WCMT04
HBW255 22.500	22.5	25	187	116	131	56	WCMT04
HBW255 23.000	23	25	192	118	136	56	WCMT04
HBW255 23.500	23.5	25	195	121	139	56	WCMT04
HBW255 24.000	24	25	197	123	141	56	WCMT04
HBW255 24.500	24.5	25	200	126	144	56	WCMT04
HBW255 25.000	25	25	202	128	146	56	WCMT05
HBW325 25.500	25.5	32	213	131	153	60	WCMT05
HBW325 26.000	26	32	216	133	156	60	WCMT05
HBW325 26.500	26.5	32	217	136	157	60	WCMT05
HBW325 27.000	27	32	218	138	158	60	WCMT05
HBW325 27.500	27.5	32	221	141	161	60	WCMT05
HBW325 28.000	28	32	223	143	163	60	WCMT05
HBW325 28.500	28.5	32	226	146	166	60	WCMT05

Indexable Drill

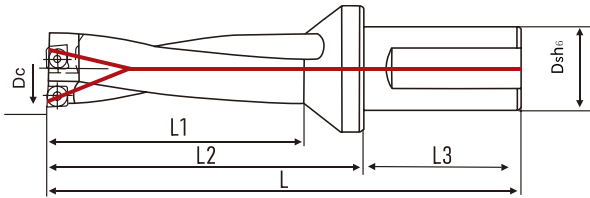


Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBW325 29.000	29	32	230	149	170	60	WCMT05
HBW325 29.500	29.5	32	233	151	173	60	WCMT05
HBW325 30.000	30	32	238	154	178	60	WCMT05
HBW325 30.500	30.5	32	241	157	181	60	WCMT05
HBW325 31.000	31	32	243	159	183	60	WCMT06
HBW325 31.500	31.5	32	245	162	185	60	WCMT06
HBW325 32.000	32	32	248	164	188	60	WCMT06
HBW325 32.500	32.5	32	251	167	191	60	WCMT06
HBW325 33.000	33	32	253	169	193	60	WCMT06
HBW325 33.500	33.5	32	255	172	195	60	WCMT06
HBW325 34.000	34	32	258	174	198	60	WCMT06
HBW325 34.500	34.5	32	261	177	201	60	WCMT06
HBW325 35.000	35	32	263	179	203	60	WCMT06
HBW325 35.500	35.5	32	265	182	205	60	WCMT06
HBW325 36.000	36	32	268	184	208	60	WCMT06
HBW325 36.500	36.5	32	271	187	211	60	WCMT06
HBW325 37.000	37	32	280	190	220	60	WCMT06
HBW325 37.500	37.5	32	283	193	223	60	WCMT06
HBW325 38.000	38	32	285	195	225	60	WCMT06
HBW325 38.500	38.5	32	288	198	228	60	WCMT06
HBW325 39.000	39	32	290	200	230	60	WCMT06
HBW325 39.500	39.5	32	293	203	233	60	WCMT06
HBW405 40.000	40	40	305	205	235	70	WCMT06



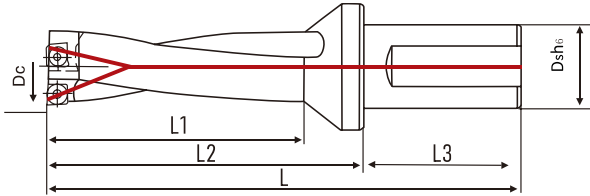
HBX
INDEXABLE DRILL

Indexable Drill



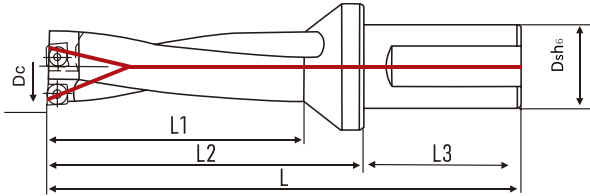
Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBX202 12.000	12	20	90	25	40	50	SPMT04/XOMT04
HBX202 13.000	13	20	88	29	44	50	SPMT04/XOMT04
HBX202 14.000	14	20	90	31	46	50	SPMT05/XOMT05
HBX202 15.000	15	20	92	33	48	50	SPMT05/XOMT05
HBX202 16.000	16	20	94	35	50	50	SPMT05/XOMT05
HBX252 17.000	17	25	96	37	52	56	SPMT06/XOMT06
HBX252 18.000	18	25	110	39	54	56	SPMT06/XOMT06
HBX252 19.000	19	25	112	41	56	56	SPMT06/XOMT06
HBX252 20.000	20	25	114	43	58	56	SPMT07/XOMT07
HBX252 21.000	21	25	116	45	60	56	SPMT07/XOMT07
HBX252 22.000	22	25	118	47	62	56	SPMT07/XOMT07
HBX252 23.000	23	25	123	49	67	56	SPMT07/XOMT07
HBX252 24.000	24	25	125	51	69	60	SPMT09/XOMT09
HBX252 25.000	25	25	127	53	71	60	SPMT09/XOMT09
HBX322 26.000	26	32	135	55	75	60	SPMT09/XOMT09
HBX322 27.000	27	32	137	57	77	60	SPMT09/XOMT09
HBX322 28.000	28	32	139	59	79	60	SPMT09/XOMT09
HBX322 29.000	29	32	143	62	83	60	SPMT09/XOMT09
HBX322 30.000	30	32	148	64	88	60	SPMT11/XOMT11
HBX322 31.000	31	32	150	66	90	60	SPMT11/XOMT11
HBX322 32.000	32	32	152	68	92	60	SPMT11/XOMT11
HBX322 33.000	33	32	154	70	94	60	SPMT11/XOMT11
HBX322 34.000	34	32	156	72	96	60	SPMT11/XOMT11
HBX322 35.000	35	32	158	74	98	60	SPMT11/XOMT11

Indexable Drill



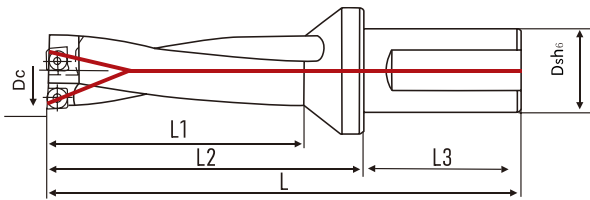
Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBX203 12.000	12	20	102	37	52	50	SPMT04/XOMT04
HBX203 13.000	13	20	101	42	57	50	SPMT04/XOMT04
HBX203 14.000	14	20	104	45	60	50	SPMT05/XOMT05
HBX203 15.000	15	20	107	48	63	50	SPMT05/XOMT05
HBX203 16.000	16	20	110	51	66	50	SPMT05/XOMT05
HBX253 17.000	17	25	113	54	69	56	SPMT06/XOMT06
HBX253 18.000	18	25	128	57	72	56	SPMT06/XOMT06
HBX253 19.000	19	25	131	60	75	56	SPMT06/XOMT06
HBX253 20.000	20	25	134	63	78	56	SPMT07/XOMT07
HBX253 21.000	21	25	137	66	81	56	SPMT07/XOMT07
HBX253 22.000	22	25	140	69	84	56	SPMT07/XOMT07
HBX253 23.000	23	25	146	72	90	56	SPMT07/XOMT07
HBX253 24.000	24	25	149	75	93	60	SPMT09/XOMT09
HBX253 25.000	25	25	152	78	96	60	SPMT09/XOMT09
HBX323 26.000	26	32	161	81	101	60	SPMT09/XOMT09
HBX323 27.000	27	32	164	84	104	60	SPMT09/XOMT09
HBX323 28.000	28	32	167	87	107	60	SPMT09/XOMT09
HBX323 29.000	29	32	172	91	112	60	SPMT09/XOMT09
HBX323 30.000	30	32	178	94	118	60	SPMT11/XOMT11
HBX323 31.000	31	32	181	97	121	60	SPMT11/XOMT11
HBX323 32.000	32	32	184	100	124	60	SPMT11/XOMT11
HBX323 33.000	33	32	187	103	127	60	SPMT11/XOMT11
HBX323 34.000	34	32	169	106	130	60	SPMT11/XOMT11
HBX323 35.000	35	32	193	109	133	60	SPMT11/XOMT11

Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBX204 12.000	12	20	115	50	65	50	SPMT04/XOMT04
HBX204 13.000	13	20	114	55	70	50	SPMT04/XOMT04
HBX204 14.000	14	20	118	59	74	50	SPMT05/XOMT05
HBX204 15.000	15	20	122	63	78	50	SPMT05/XOMT05
HBX204 16.000	16	20	126	67	82	50	SPMT05/XOMT05
HBX254 17.000	17	25	130	71	86	56	SPMT06/XOMT06
HBX254 18.000	18	25	146	75	90	56	SPMT06/XOMT06
HBX254 19.000	19	25	150	79	94	56	SPMT06/XOMT06
HBX254 20.000	20	25	154	83	98	56	SPMT07/XOMT07
HBX254 21.000	21	25	158	87	102	56	SPMT07/XOMT07
HBX254 22.000	22	25	162	91	106	56	SPMT07/XOMT07
HBX254 23.000	23	25	169	95	113	56	SPMT07/XOMT07
HBX254 24.000	24	25	173	99	117	60	SPMT09/XOMT09
HBX254 25.000	25	25	177	103	121	60	SPMT09/XOMT09
HBX324 26.000	26	32	187	107	127	60	SPMT09/XOMT09
HBX324 27.000	27	32	197	111	131	60	SPMT09/XOMT09
HBX324 28.000	28	32	195	115	135	60	SPMT09/XOMT09
HBX324 29.000	29	32	201	120	141	60	SPMT09/XOMT09
HBX324 30.000	30	32	208	124	148	60	SPMT11/XOMT11
HBX324 31.000	31	32	212	128	152	60	SPMT11/XOMT11
HBX324 32.000	32	32	216	132	156	60	SPMT11/XOMT11
HBX324 33.000	33	32	220	136	160	60	SPMT11/XOMT11
HBX324 34.000	34	32	224	140	164	60	SPMT11/XOMT11
HBX324 35.000	35	32	228	146	168	60	SPMT11/XOMT11

Indexable Drill



Specification/Item	Dc	Ds	L	L1	L2	L3	Applicable Insert
HBX205 12.000	12	20	124	63	80	50	SPMT04/XOMT04
HBX205 13.000	13	20	129	68	85	50	SPMT04/XOMT04
HBX205 14.000	14	20	133	73	89	50	SPMT05/XOMT05
HBX205 15.000	15	20	137	78	93	50	SPMT05/XOMT05
HBX205 16.000	16	20	142	83	98	50	SPMT05/XOMT05
HBX255 17.000	17	25	147	88	103	56	SPMT06/XOMT06
HBX255 18.000	18	25	164	93	108	56	SPMT06/XOMT06
HBX255 19.000	19	25	169	98	113	56	SPMT06/XOMT06
HBX255 20.000	20	25	174	103	118	56	SPMT07/XOMT07
HBX255 21.000	21	25	179	108	123	56	SPMT07/XOMT07
HBX255 22.000	22	25	184	113	128	56	SPMT07/XOMT07
HBX255 23.000	23	25	192	118	136	56	SPMT07/XOMT07
HBX255 24.000	24	25	197	123	141	60	SPMT09/XOMT09
HBX255 25.000	25	25	202	128	146	60	SPMT09/XOMT09
HBX325 26.000	26	32	216	133	156	60	SPMT09/XOMT09
HBX325 27.000	27	32	218	138	158	60	SPMT09/XOMT09
HBX325 28.000	28	32	223	143	163	60	SPMT09/XOMT09
HBX325 29.000	29	32	230	149	170	60	SPMT09/XOMT09
HBX325 30.000	30	32	238	154	178	60	SPMT11/XOMT11
HBX325 31.000	31	32	243	159	183	60	SPMT11/XOMT11
HBX325 32.000	32	32	248	164	188	60	SPMT11/XOMT11
HBX325 33.000	33	32	253	169	193	60	SPMT11/XOMT11
HBX325 34.000	34	32	258	174	198	60	SPMT11/XOMT11
HBX325 35.000	35	32	263	179	203	60	SPMT11/XOMT11

ISO	Material		Feed Rate(mm/rev)					
	MATERIAL CLASSIFICATION	Tensile strength (N/mm ²)	Hardness (HB)	Ø 8.5-Ø 13.0	Ø 13.0-Ø 18.0	Ø 18.0-Ø 29.0	Ø 29.5-Ø 36.0	Ø 37.5-Ø 55.0
P	Unalloyed steel	<600	<180	0.07-0.11-0.18	0.07-0.12-0.20	0.07-0.12-0.20	0.07-0.13-0.21	0.08-0.15-0.24
		<950	<280	0.05-0.09-0.16	0.05-0.10-0.17	0.05-0.10-0.17	0.05-0.11-0.18	0.06-0.12-0.20
	Alloyed steel	700-950	200-280	0.05-0.09-0.16	0.05-0.10-0.17	0.05-0.10-0.17	0.07-0.11-0.18	0.06-0.12-0.20
		950-1200	280-355	0.05-0.08-0.16	0.05-0.09-0.16	0.05-0.09-0.16	0.05-0.10-0.17	0.06-0.11-0.18
		1200-1400	355-415	0.04-0.08-0.14	0.04-0.08-0.14	0.04-0.08-0.14	0.05-0.09-0.15	0.05-0.10-0.16
M	Austenitic stainless steel	675	200	0.05-0.09-0.16	0.05-0.10-0.17	0.05-0.10-0.17	0.05-0.11-0.18	0.06-0.12-0.20
	Duplex stainless steel	778	230	0.05-0.09-0.16	0.05-0.10-0.17	0.05-0.10-0.17	0.05-0.11-0.18	0.06-0.12-0.20
	Precipitation-hardening stainless steel	1013	300	0.05-0.09-0.15	0.05-0.09-0.16	0.05-0.09-0.16	0.05-0.10-0.17	0.06-0.11-0.18
K	Grey cast iron	700	220	0.08-0.18-0.28	0.08-0.19-0.30	0.09-0.20-0.33	0.10-0.22-0.37	0.11-0.24-0.41
	Malleable cast iron	800	250	0.08-0.16-0.25	0.08-0.18-0.27	0.09-0.19-0.32	0.10-0.20-0.35	0.11-0.21-0.38
	Nodular cast iron	880	260	0.08-0.16-0.25	0.08-0.18-0.27	0.09-0.19-0.32	0.10-0.20-0.35	0.11-0.21-0.38
N	Aluminum	260	75	0.05-0.10-0.14	0.05-0.10-0.16	0.05-0.10-0.16	0.05-0.11-0.17	0.06-0.12-0.19
	Aluminum alloy	447	130	0.05-0.10-0.14	0.05-0.10-0.16	0.05-0.10-0.16	0.05-0.11-0.17	0.06-0.12-0.19
S	Fe-based alloy	943	280	0.05-0.09-0.15	0.05-0.10-0.17	0.05-0.10-0.17	0.07-0.11-0.18	0.06-0.12-0.20
	Co-based alloy	1076	320	0.05-0.08-0.14	0.05-0.09-0.16	0.05-0.09-0.16	0.05-0.10-0.17	0.06-0.11-0.18
	Ni-based alloy	1177	350	0.04-0.08-0.12	0.04-0.09-0.14	0.04-0.09-0.14	0.05-0.10-0.15	0.05-0.11-0.16
	Ti-alloy	1262	370	0.04-0.07-0.12	0.04-0.08-0.14	0.04-0.08-0.14	0.05-0.09-0.15	0.05-0.10-0.16

ISO	Material		Feed Rate(mm/rev)					
	MATERIAL CLASSIFICATION	Tensile strength (N/mm ²)	Hardness (HB)	Ø 8.5-Ø 13.0	Ø 13.0-Ø 18.0	Ø 18.0-Ø 29.0	Ø 29.5-Ø 36.0	Ø 37.5-Ø 55.0
P	Unalloyed steel	<600	<180	0.08-0.10-0.15	0.08-0.11-0.17	0.07-0.11-0.17	0.07-0.12-0.18	0.08-0.13-0.20
		<950	<280	0.06-0.08-0.13	0.06-0.09-0.14	0.05-0.09-0.14	0.05-0.10-0.15	0.06-0.11-0.17
	Alloyed steel	700-950	200-280	0.05-0.08-0.13	0.05-0.09-0.14	0.05-0.09-0.14	0.05-0.10-0.15	0.06-0.11-0.17
		950-1200	280-355	0.05-0.07-0.11	0.05-0.08-0.12	0.05-0.09-0.13	0.05-0.10-0.14	0.06-0.10-0.15
		1200-1400	355-415	0.04-0.06-0.10	0.04-0.07-0.11	0.04-0.07-0.11	0.04-0.08-0.12	0.04-0.08-0.13
M	Austenitic stainless steel	675	200	0.06-0.08-0.13	0.05-0.09-0.14	0.05-0.09-0.14	0.05-0.10-0.15	0.06-0.11-0.17
	Duplex stainless steel	778	230	0.05-0.08-0.13	0.05-0.09-0.14	0.05-0.09-0.14	0.05-0.10-0.15	0.06-0.11-0.17
	Precipitation-hardening stainless steel	1013	300	0.05-0.07-0.11	0.05-0.08-0.12	0.05-0.09-0.13	0.05-0.09-0.14	0.06-0.10-0.15
K	Grey cast iron	700	220	0.07-0.15-0.22	0.08-0.17-0.25	0.09-0.19-0.28	0.10-0.20-0.30	0.11-0.22-0.34
	Malleable cast iron	800	250	0.07-0.15-0.20	0.08-0.16-0.22	0.08-0.17-0.25	0.09-0.18-0.28	0.10-0.20-0.30
	Nodular cast iron	880	260	0.06-0.14-0.20	0.08-0.16-0.22	0.08-0.17-0.25	0.09-0.18-0.28	0.10-0.20-0.30
N	Aluminum	260	75	0.05-0.10-0.14	0.05-0.10-0.16	0.05-0.10-0.16	0.05-0.11-0.17	0.06-0.12-0.19
	Aluminum alloy	447	130	0.05-0.10-0.14	0.05-0.10-0.16	0.05-0.10-0.16	0.05-0.11-0.17	0.06-0.12-0.19
S	Fe-based alloy	943	280	0.05-0.08-0.13	0.05-0.09-0.14	0.05-0.09-0.14	0.05-0.10-0.15	0.06-0.11-0.17
	Co-based alloy	1076	320	0.05-0.07-0.11	0.05-0.08-0.12	0.05-0.09-0.13	0.05-0.10-0.14	0.06-0.10-0.15
	Ni-based alloy	1177	350	0.04-0.07-0.10	0.04-0.08-0.12	0.04-0.08-0.13	0.05-0.09-0.14	0.05-0.09-0.15
	Ti-alloy	1262	370	0.04-0.06-0.10	0.04-0.07-0.11	0.04-0.07-0.11	0.04-0.08-0.12	0.04-0.08-0.13

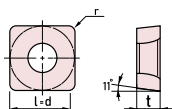
Machining Condition

Indexable Drill

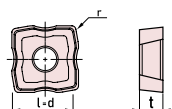
ISO	Material		Tensile strength (N/mm ²)	Hardness (HB)	Feed Rate(mm/rev)				
	MATERIAL CLASSIFICATION				Ø 8.5-Ø 13.0	Ø 13.0-Ø 18.0	Ø 18.0-Ø 29.0	Ø 29.5-Ø 36.0	Ø 37.5-Ø 55.0
P	Unalloyed steel	<600	<180		0.07-0.09-0.12	0.07-0.10-0.14	0.07-0.10-0.14	0.07-0.11-0.16	0.08-0.13-0.18
		<950	<280		0.05-0.07-0.10	0.05-0.09-0.12	0.05-0.09-0.12	0.05-0.09-0.13	0.06-0.10-0.14
	Alloyed steel	700-950	200-280		0.05-0.07-0.10	0.05-0.09-0.12	0.05-0.09-0.12	0.05-0.09-0.13	0.06-0.10-0.14
		950-1200	280-355		0.05-0.07-0.10	0.05-0.08-0.11	0.05-0.08-0.11	0.05-0.09-0.12	0.06-0.09-0.13
		1200-1400	355-415		0.04-0.06-0.08	0.04-0.06-0.09	0.04-0.06-0.09	0.04-0.07-0.09	0.04-0.07-0.10
M	Austenitic stainless steel	675	200		0.05-0.07-0.10	0.05-0.09-0.12	0.05-0.09-0.12	0.05-0.09-0.13	0.06-0.10-0.14
	Duplex stainless steel	778	230		0.05-0.07-0.10	0.05-0.09-0.12	0.05-0.09-0.12	0.05-0.09-0.13	0.06-0.10-0.14
	Precipitation-hardening stainless steel	1013	300		0.05-0.06-0.09	0.05-0.08-0.11	0.05-0.08-0.11	0.05-0.09-0.12	0.06-0.09-0.13
K	Grey cast iron	700	220		0.06-0.15-0.20	0.08-0.16-0.21	0.09-0.18-0.24	0.10-0.20-0.26	0.11-0.20-0.28
	Malleable cast iron	800	250		0.06-0.14-0.18	0.08-0.15-0.20	0.09-0.17-0.22	0.10-0.17-0.24	0.11-0.18-0.25
	Nodular cast iron	880	260		0.06-0.14-0.18	0.08-0.15-0.20	0.09-0.16-0.22	0.10-0.17-0.24	0.11-0.18-0.25
N	Aluminum	260	75		0.04-0.08-0.12	0.04-0.09-0.14	0.04-0.09-0.14	0.05-0.10-0.15	0.05-0.11-0.17
	Aluminum alloy	447	130		0.04-0.08-0.12	0.04-0.09-0.14	0.04-0.09-0.14	0.05-0.10-0.15	0.05-0.11-0.17
S	Fe-based alloy	943	280		0.05-0.07-0.10	0.05-0.09-0.12	0.05-0.09-0.12	0.05-0.09-0.13	0.06-0.10-0.14
	Co-based alloy	1076	320		0.05-0.07-0.10	0.05-0.08-0.11	0.05-0.08-0.11	0.05-0.09-0.12	0.06-0.09-0.13
	Ni-based alloy	1177	350		0.05-0.06-0.09	0.05-0.07-0.10	0.05-0.08-0.11	0.05-0.08-0.11	0.06-0.09-0.13
	Ti-alloy	1262	370		0.04-0.06-0.08	0.04-0.06-0.09	0.04-0.06-0.09	0.04-0.07-0.09	0.04-0.07-0.10

ISO	Material		Tensile strength (N/mm ²)	Hardness (HB)	Feed Rate(mm/rev)				
	MATERIAL CLASSIFICATION				Ø 8.5-Ø 13.0	Ø 13.0-Ø 18.0	Ø 18.0-Ø 29.0	Ø 29.5-Ø 36.0	Ø 37.5-Ø 55.0
P	Unalloyed steel	<600	<180		0.06-0.08-0.12	0.06-0.09-0.13	0.06-0.09-0.13	0.07-0.10-0.14	0.08-0.11-0.16
		<950	<280		0.04-0.07-0.10	0.04-0.08-0.10	0.04-0.08-0.10	0.05-0.08-0.11	0.05-0.09-0.13
	Alloyed steel	700-950	200-280		0.04-0.07-0.10	0.04-0.08-0.10	0.04-0.08-0.10	0.05-0.08-0.11	0.05-0.09-0.12
		950-1200	280-355		0.04-0.07-0.10	0.04-0.08-0.10	0.04-0.08-0.10	0.05-0.08-0.11	0.05-0.09-0.12
		1200-1400	355-415		0.04-0.05-0.08	0.04-0.06-0.08	0.04-0.06-0.08	0.04-0.07-0.08	0.04-0.07-0.08
M	Austenitic stainless steel	675	200		0.04-0.07-0.10	0.04-0.08-0.10	0.04-0.08-0.10	0.05-0.08-0.11	0.05-0.09-0.13
	Duplex stainless steel	778	230		0.04-0.07-0.10	0.04-0.08-0.10	0.04-0.08-0.10	0.05-0.08-0.11	0.05-0.09-0.12
	Precipitation-hardening stainless steel	1013	300		0.04-0.06-0.09	0.04-0.07-0.10	0.04-0.07-0.10	0.05-0.08-0.11	0.05-0.08-0.12
K	Grey cast iron	700	220		0.07-0.14-0.18	0.07-0.14-0.20	0.08-0.16-0.21	0.08-0.17-0.23	0.10-0.19-0.26
	Malleable cast iron	800	250		0.07-0.12-0.16	0.07-0.12-0.18	0.08-0.14-0.20	0.08-0.15-0.21	0.10-0.17-0.23
	Nodular cast iron	880	260		0.07-0.12-0.16	0.07-0.12-0.18	0.08-0.14-0.20	0.08-0.15-0.21	0.10-0.17-0.23
N	Aluminum	260	75		0.04-0.07-0.12	0.04-0.09-0.14	0.04-0.09-0.14	0.05-0.10-0.15	0.05-0.11-0.17
	Aluminum alloy	447	130		0.04-0.07-0.12	0.04-0.09-0.14	0.04-0.09-0.14	0.05-0.10-0.15	0.05-0.11-0.17
S	Fe-based alloy	943	280		0.04-0.07-0.10	0.04-0.08-0.10	0.04-0.08-0.10	0.05-0.08-0.11	0.05-0.09-0.13
	Co-based alloy	1076	320		0.04-0.07-0.10	0.04-0.08-0.10	0.04-0.08-0.10	0.05-0.08-0.11	0.05-0.09-0.12
	Ni-based alloy	1177	350		0.04-0.06-0.08	0.04-0.06-0.08	0.04-0.07-0.10	0.05-0.07-0.11	0.05-0.08-0.12
	Ti-alloy	1262	370		0.04-0.05-0.08	0.04-0.06-0.08	0.04-0.06-0.08	0.04-0.07-0.08	0.04-0.07-0.08

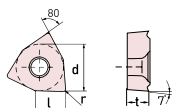
Indexable Drill



Pic	Designation	Grade	Dimensions (mm)				Drill Diameter (HBS Series)	Drill Diameter (HBX Series)
			d	l	t	r		
	SPMG030104-DM3	PM2020	3.5	3.5	1.59	0.4	8.5-9.5	--
	SPMG04T102-DM3	PM2020	4.0	4.0	1.98	0.2	10.0-12.5	12.0-13.0
	SPMG050204-DM3	PM2055	5.0	5.0	2.38	0.4	13.0-15.5	14.0-16.0
	SPMG060204-DM3	PM2055	6.0	6.0	2.38	0.4	16.0-21.5	17.0-19.0
	SPMG07T308-DM3	PM2055	7.94	7.94	3.97	0.8	22.0-27.5	20.0-23.0
	SPMG090408-DM3	PM2055	9.8	9.8	4.76	0.8	28.0-33.5	24.0-29.0
	SPMG110408-DM3	PM2055	11.5	11.5	4.76	0.8	34.0-40.0	30.0-35.0

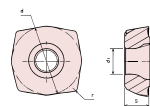


Pic	Designation	Grade	Dimensions (mm)				Drill Diameter (HBO Series)
			d	l	t	r	
	SOMT050204-DM3	PM2020	4.9	4.9	2.38	0.4	13.0-16.0
	SOMT060204-DM3	PM2020	5.7	5.7	2.38	0.4	16.5-19.0
	SOMT070306-DM3	PM2020	6.8	6.8	3.18	0.6	19.5-22.0
	SOMT08T306-DM3	PM2020	7.9	7.9	3.97	0.6	22.5-26.0
	SOMT09T308-DM3	PM2020	9.2	9.2	3.97	0.8	26.5-31.5
	SOMT11T308-DM3	PM2020	11.0	11.0	3.97	0.8	32.0-36.5
	SOMT130408-DM3	PM2020	12.8	12.8	4.76	0.8	37.0-40.0



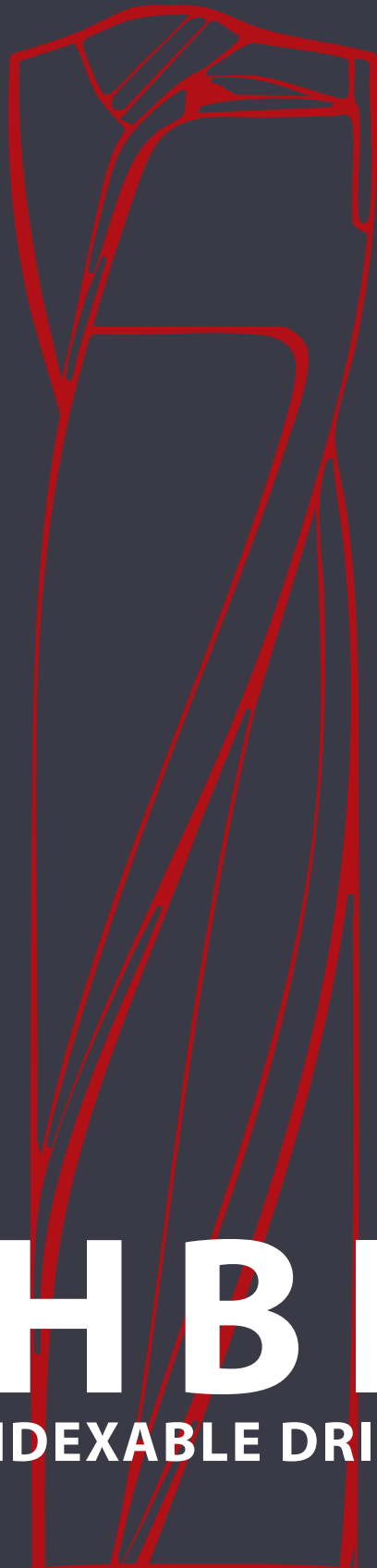
Indexable Inserts

Pic	Designation	Grade	Dimensions (mm)				Drill Diameter (HBO Series)
			d	l	t	r	
	WCMT020104-DM3	PM2020	3.97	2.7	1.59	0.4	13.0-13.5
	WCMT030208-DM3	PM2055	5.56	3.8	2.38	0.8	14.0-20.5
	WCMT040208-DM3	PM2055	6.35	4.3	2.38	0.8	21.0-24.5
	WCMT050308-DM3	PM2055	7.94	5.4	3.18	0.8	25.0-30.5
	WCMT06T308-DM3	PM2055	9.53	6.5	3.97	0.8	31.0-40.0
	SOMT11T308-DM3	PM2020	11.0	11.0	3.97	0.8	32.0-36.5
	SOMT130408-DM3	PM2020	12.8	12.8	4.76	0.8	37.0-40.0



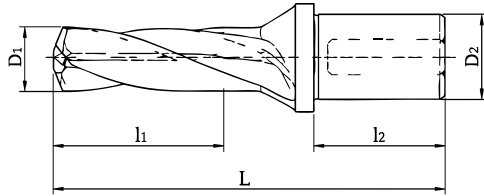
Pic	Designation	Grade	Dimensions (mm)				Drill Diameter (HBX Series)
			d	l	t	r	
	XOMT040204-DM3	PM2020	4.9	4.29	2.38	0.4	12.0-13.0
	XOMT050204-DM3	PM2020	5.4	4.8	2.38	0.4	14.0-16.0
	XOMT060204-DM3	PM2020	6.6	5.6	2.56	0.4	17.0-19.0
	XOMT07T205-DM3	PM2020	7.8	6.9	2.8	0.5	20.0-23.0
	XOMT090305-DM3	PM2020	9.6	8.41	3.3	0.5	24.0-29.0
	XOMT11T306-DM3	PM2020	11.4	10.0	4.0	0.6	30.0-35.0
	SOMT130408-DM3	PM2020	12.8	12.8	4.76	0.8	37.0-40.0

Material				PVD Coating	
ISO	MATERIAL CLASSIFICATION	Tensile strength (N/mm ²)	Hardness (HB)	PM2020	PM2055
P	Unalloyed steel	<600	<180	110-230	130-250
		<950	<280		
	Alloyed steel	700-950	200-280	105-215	115-225
		950-1200	280-355		
		1200-1400	355-415		
M	Austenitic stainless steel	675	200	100-200	100-220
	Duplex stainless steel	778	230	100-180	100-195
	Precipitation-hardening stainless steel	1013	300	80-165	90-185
K	Grey cast iron	700	220		
	Malleable cast iron	880	260		
	Nodular cast iron	800	250		
N	Aluminum	260	75		
	Aluminum alloy	447	130		
S	Fe-based alloy	943	280	25-90	25-80
	Co-based alloy	1076	320	20-85	20-70
	Ni-based alloy	1177	350	15-65	18-60
	Ti-alloy	1262	370	15-60	18-50
H	Hardened steel	-	50-60HRC		
	Chilled cast iron	-	55HRC		



HBI
INDEXABLE DRILL

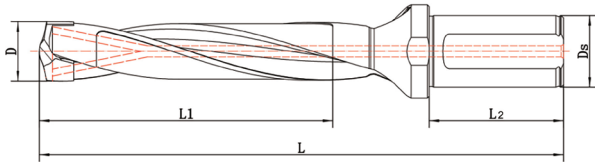
Indexable Drill



Specification/Item	D MIN-MAX	Ds	L	L1	L2	Drill Type	Wrench	Screw
HBI163 13.000	12.5-13	16	109	39	45	C	T5x160	M2.5/M2.5x13
HBI163 13.500	13-13.5	16	109	39	45	C	T5x160	M2.5/M2.5x13
HBI163 14.000	13.51-14	16	111	42	45	B	T6x160	M3/M2.5x14
HBI163 14.500	14-14.5	16	111	42	45	B	T6x160	M3/M2.5x14
HBI163 15.000	14.51-15	16	126	46	50	A	T6x160	M3/M2.5x14
HBI203 15.870	15-15.87	20	126	46	50	A	T6x160	M3/M2.5x14
HBI203 17.000	15.88-17	20	129	49	50	1	T7x185	M3.5/M2.5x16
HBI203 18.000	17-18	20	132	52	50	1	T7x185	M3.5/M2.5x16
HBI253 19.000	18.01-19	25	147	55	56	2	H2x210	M4/M3x19
HBI253 20.000	19-20	25	151	58	56	2	H2x210	M4/M3x19
HBI253 21.000	20-21	25	154	61	56	3	H2x210	M4/M3x19
HBI253 22.000	21-22	25	157	64	56	3	H2x210	M4/M3x19
HBI253 23.000	22.01-23	25	161	68	56	4	H2x210	M4/M3x19
HBI253 24.000	23-24	25	163	70	56	4	H2x210	M4/M3x19
HBI323 25.000	24.01-25	32	176	73	60	5	H2.5x240	M5/M4x23
HBI323 26.000	25-26	32	179	76	60	5	H2.5x240	M5/M4x23
HBI323 27.000	26.01-27	32	182	79	60	6	H2.5x240	M5/M4x23
HBI323 28.000	27-28	32	184	81	60	6	H2.5x240	M5/M4x23
HBI323 29.000	28.01-29	32	189	86	60	7	H3x265	M6/M5x28
HBI323 30.000	29-30	32	192	89	60	7	H3x265	M6/M5x28
HBI323 31.000	30.01-31	32	195	92	60	8	H3x265	M6/M5x28
HBI323 32.000	31-32	32	198	95	60	8	H3x265	M6/M5x28

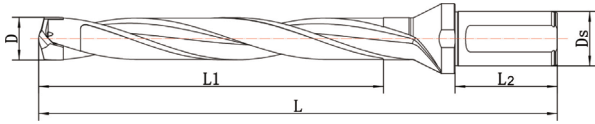
5XD (Ø 13-32) with HBI inserts

Indexable Drill



Specification/Item	D MIN-MAX	Ds	L	L1	L2	Drill Type	Wrench	Screw
HBI165 13.000	12.5-13	16	133	65	45	C	T5x160	M2.5/M2.5x13
HBI165 13.500	13-13.5	16	133	65	45	C	T5x160	M2.5/M2.5x13
HBI165 14.000	13.51-14	16	138	70	45	B	T6x160	M3/M2.5x14
HBI165 14.500	14-14.5	16	138	70	45	B	T6x160	M3/M2.5x14
HBI165 15.000	14.51-15	16	156	76	50	A	T6x160	M3/M2.5x14
HBI205 15.870	15-15.87	20	156	76	50	A	T6x160	M3/M2.5x14
HBI205 17.000	15.88-17	20	161	81	50	1	T7x185	M3.5/M2.5x16
HBI205 18.000	17-18	20	166	86	50	1	T7x185	M3.5/M2.5x16
HBI255 19.000	18.01-19	25	183	91	56	2	H2x210	M4/M3x19
HBI255 20.000	19-20	25	189	96	56	2	H2x210	M4/M3x19
HBI255 21.000	20-21	25	194	101	56	3	H2x210	M4/M3x19
HBI255 22.000	21-22	25	199	106	56	3	H2x210	M4/M3x19
HBI255 23.000	22.01-23	25	205	112	56	4	H2x210	M4/M3x19
HBI255 24.000	23-24	25	209	116	56	4	H2x210	M4/M3x19
HBI325 25.000	24.01-25	32	224	121	60	5	H2.5x240	M5/M4x23
HBI325 26.000	25-26	32	229	126	60	5	H2.5x240	M5/M4x23
HBI325 27.000	26.01-27	32	234	131	60	6	H2.5x240	M5/M4x23
HBI325 28.000	27-28	32	238	135	60	6	H2.5x240	M5/M4x23
HBI325 29.000	28.01-29	32	245	142	60	7	H3x265	M6/M5x28
HBI325 30.000	29-30	32	250	147	60	7	H3x265	M6/M5x28
HBI325 31.000	30.01-31	32	256	153	60	8	H3x265	M6/M5x28
HBI325 32.000	31-32	32	260	157	60	8	H3x265	M6/M5x28

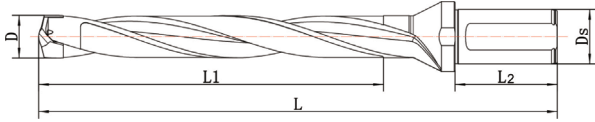
Indexable Drill



Specification/Item	D MIN-MAX	Ds	L	L1	L2	Drill Type	Wrench	Screw
HBI168 13.000	12.5-13	16	172	104	45	C	T5x190	M2.5/M2.5x13
HBI168 13.500	13-13.5	16	172	104	45	C	T5x190	M2.5/M2.5x13
HBI168 14.000	13.51-14	16	180	112	45	B	T6x190	M3/M2.5x14
HBI168 14.500	14-14.5	16	180	112	45	B	T6x190	M3/M2.5x14
HBI168 15.000	14.51-15	16	201	121	50	A	T6x190	M3/M2.5x14
HBI208 15.870	15-15.87	20	201	121	50	A	T6x190	M3/M2.5x14
HBI208 17.000	15.88-17	20	209	129	50	1	T7x225	M3.5/M2.5x16
HBI208 18.000	17-18	20	217	137	50	1	T7x225	M3.5/M2.5x16
HBI258 19.000	18.01-19	25	237	145	56	2	H2x260	M4/M3x19
HBI258 20.000	19-20	25	246	153	56	2	H2x260	M4/M3x19
HBI258 21.000	20-21	25	254	161	56	3	H2x260	M4/M3x19
HBI258 22.000	21-22	25	262	169	56	3	H2x260	M4/M3x19
HBI258 23.000	22.01-23	25	270	177	56	4	H2x260	M4/M3x19
HBI258 24.000	23-24	25	278	185	56	4	H2x260	M4/M3x19
HBI328 25.000	24.01-25	32	296	193	60	5	H2.5x295	M5/M4x23
HBI328 26.000	25-26	32	304	201	60	5	H2.5x295	M5/M4x23
HBI328 27.000	26.01-27	32	312	209	60	6	H2.5x295	M5/M4x23
HBI328 28.000	27-28	32	319	216	60	6	H2.5x295	M5/M4x23
HBI328 29.000	28.01-29	32	329	226	60	7	H3x330	M6/M5x28
HBI328 30.000	29-30	32	337	234	60	7	H3x330	M6/M5x28
HBI328 31.000	30.01-31	32	345	242	60	8	H3x330	M6/M5x28
HBI328 32.000	31-32	32	353	250	60	8	H3x330	M6/M5x28

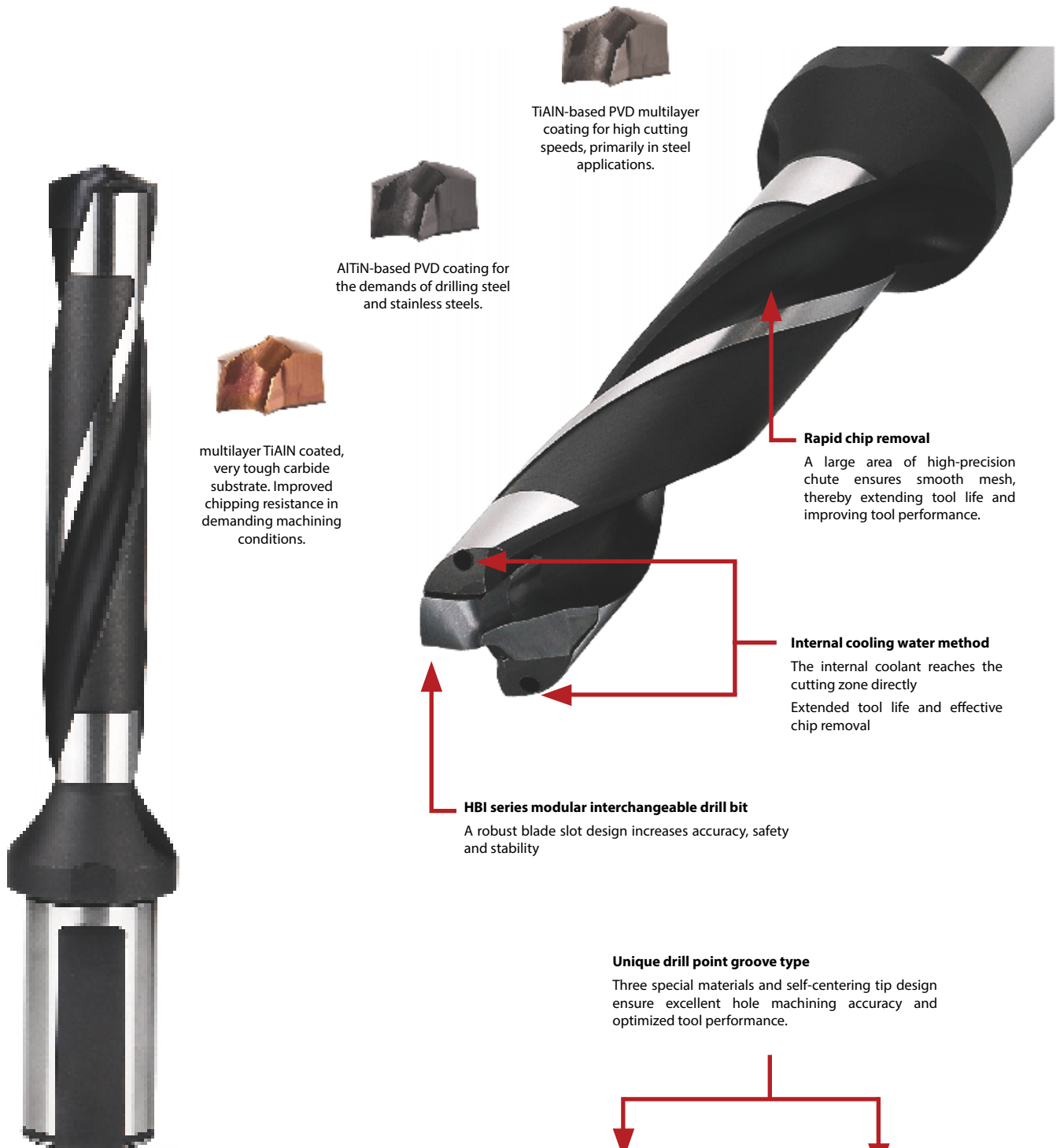
10XD (Ø 13-32) with HBI inserts

Indexable Drill



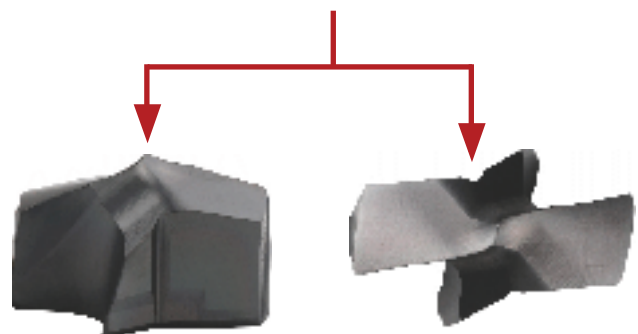
Specification/Item	D MIN-MAX	Ds	L	L1	L2	Drill Type	Wrench	Screw
HBI160 13.000	12.5-13	16	266	130	45	C	T5x290	M2.5/M2.5x13
HBI160 13.500	13-13.5	16	266	130	45	C	T5x290	M2.5/M2.5x13
HBI160 14.000	13.51-14	16	276	140	45	B	T6x290	M3/M2.5x14
HBI160 14.500	14-14.5	16	276	140	45	B	T6x290	M3/M2.5x14
HBI160 15.000	14.51-15	16	312	152	50	A	T6x290	M3/M2.5x14
HBI200 15.870	15-15.87	20	312	152	50	A	T6x290	M3/M2.5x14
HBI200 17.000	15.88-17	20	322	162	50	1	T7x300	M3.5/M2.5x16
HBI200 18.000	17-18	20	332	172	50	1	T7x300	M3.5/M2.5x16
HBI250 19.000	18.01-19	25	366	182	56	2	H2x345	M4/M3x19
HBI250 20.000	19-20	25	378	192	56	2	H2x345	M4/M3x19
HBI250 21.000	20-21	25	388	202	56	3	H2x345	M4/M3x19
HBI250 22.000	21-22	25	398	212	56	3	H2x345	M4/M3x19
HBI250 23.000	22.01-23	25	410	224	56	4	H2x345	M4/M3x19
HBI250 24.000	23-24	25	418	232	56	4	H2x345	M4/M3x19
HBI320 25.000	24.01-25	32	448	242	60	5	H2.5x395	M5/M4x23
HBI320 26.000	25-26	32	458	252	60	5	H2.5x395	M5/M4x23
HBI320 27.000	26.01-27	32	468	262	60	6	H2.5x395	M5/M4x23
HBI320 28.000	27-28	32	476	270	60	6	H2.5x395	M5/M4x23
HBI320 29.000	28.01-29	32	490	284	60	7	H3x440	M6/M5x28
HBI320 30.000	29-30	32	500	294	60	7	H3x440	M6/M5x28
HBI320 31.000	30.01-31	32	512	306	60	8	H3x440	M6/M5x28
HBI320 32.000	31-32	32	520	314	60	8	H3x440	M6/M5x28

Indexable Drill

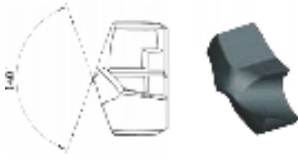


Unique drill point groove type

Three special materials and self-centering tip design ensure excellent hole machining accuracy and optimized tool performance.



- Low thrust prevents workpiece flexing.
- Excellent centring capabilities.
- Application specific selection of geometries for unmatched performance
- Robust pocket design for increased insert and holder life.
- Four-wall pocket provides insert stability.
- Requires only a simple wrench for insert removal.

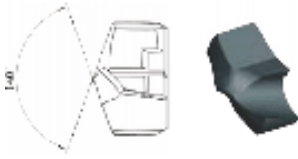


Indexable Drill

Specification/ Item	D	TYPE
HIU 12.500	12.5	C
HIU 12.600	12.6	C
HIU 12.700	12.7	C
HIU 12.800	12.8	C
HIU 12.900	12.9	C
HIU 13.000	13.0	C
HIU 13.100	13.1	C
HIU 13.200	13.2	C
HIU 13.300	13.3	C
HIU 13.400	13.4	C
HIU 13.500	13.5	C
HIU 13.600	13.6	B
HIU 13.700	13.7	B
HIU 13.800	13.8	B
HIU 13.900	13.9	B
HIU 14.000	14.0	B
HIU 14.100	14.1	B
HIU 14.200	14.2	B
HIU 14.300	14.3	B
HIU 14.400	14.4	B
HIU 14.500	14.5	B
HIU 14.600	14.6	A
HIU 14.700	14.7	A
HIU 14.800	14.8	A
HIU 14.900	14.9	A
HIU 15.000	15.0	A
HIU 15.100	15.1	A
HIU 15.200	15.2	A
HIU 15.300	15.3	A
HIU 15.400	15.4	A
HIU 15.500	15.5	A
HIU 15.600	15.6	A
HIU 15.700	15.7	A
HIU 15.800	15.8	A

Specification/ Item	D	TYPE
HIU 15.900	15.9	1
HIU 16.000	16.0	1
HIU 16.100	16.1	1
HIU 16.200	16.2	1
HIU 16.300	16.3	1
HIU 16.400	16.4	1
HIU 16.500	16.5	1
HIU 16.600	16.6	1
HIU 16.700	16.7	1
HIU 16.800	16.8	1
HIU 16.900	16.9	1
HIU 17.000	17.0	1
HIU 17.100	17.1	1
HIU 17.200	17.2	1
HIU 17.300	17.3	1
HIU 17.400	17.4	1
HIU 17.500	17.5	1
HIU 17.600	17.6	1
HIU 17.700	17.7	1
HIU 17.800	17.8	1
HIU 17.900	17.9	1
HIU 18.000	18.0	1
HIU 18.100	18.1	2
HIU 18.200	18.2	2
HIU 18.300	18.3	2
HIU 18.400	18.4	2
HIU 18.500	18.5	2
HIU 18.600	18.6	2
HIU 18.700	18.7	2
HIU 18.800	18.8	2
HIU 18.900	18.9	2
HIU 19.000	19.0	2
HIU 19.100	19.1	2
HIU 19.200	19.2	2

Specification/ Item	D	TYPE
HIU 19.300	19.3	2
HIU 19.400	19.4	2
HIU 19.500	19.5	2
HIU 19.600	19.6	2
HIU 19.700	19.7	2
HIU 19.800	19.8	2
HIU 19.900	19.9	2
HIU 20.000	20.0	3
HIU 20.100	20.1	3
HIU 20.200	20.2	3
HIU 20.300	20.3	3
HIU 20.400	20.4	3
HIU 20.500	20.5	3
HIU 20.600	20.6	3
HIU 20.700	20.7	3
HIU 20.800	20.8	3
HIU 20.900	20.9	3
HIU 21.000	21.0	3
HIU 21.100	21.1	3
HIU 21.200	21.2	3
HIU 21.300	21.3	3
HIU 21.400	21.4	3
HIU 21.500	21.5	3
HIU 21.600	21.6	3
HIU 21.700	21.7	3
HIU 21.800	21.8	3
HIU 21.900	21.9	3
HIU 22.000	22.0	3
HIU 22.100	22.1	4
HIU 22.200	22.2	4
HIU 22.300	22.3	4
HIU 22.400	22.4	4
HIU 22.500	22.5	4
HIU 22.600	22.6	4

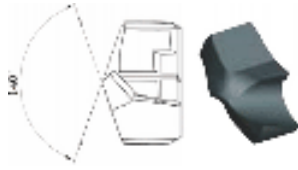


Indexable Drill

Specification/ Item	D	TYPE
HIU 22.700	22.7	4
HIU 22.800	22.8	4
HIU 22.900	22.9	4
HIU 23.000	23.0	4
HIU 23.100	23.1	4
HIU 23.200	23.2	4
HIU 23.300	23.3	4
HIU 23.400	23.4	4
HIU 23.500	23.5	4
HIU 23.600	23.6	4
HIU 23.700	23.7	4
HIU 23.800	23.8	4
HIU 23.900	23.9	4
HIU 24.000	24.0	4
HIU 24.100	24.1	5
HIU 24.200	24.2	5
HIU 24.300	24.3	5
HIU 24.400	24.4	5
HIU 24.500	24.5	5
HIU 24.600	24.6	5
HIU 24.700	24.7	5
HIU 24.800	24.8	5
HIU 24.900	24.9	5
HIU 25.000	25.0	5
HIU 25.100	25.1	5
HIU 25.200	25.2	5
HIU 25.300	25.3	5
HIU 25.400	25.4	5
HIU 25.500	25.5	5
HIU 25.600	25.6	5
HIU 25.700	25.7	5
HIU 25.800	25.8	5
HIU 25.900	25.9	5
HIU 26.000	26.0	5

Specification/ Item	D	TYPE
HIU 26.100	26.1	6
HIU 26.200	26.2	6
HIU 26.300	26.3	6
HIU 26.400	26.4	6
HIU 26.500	26.5	6
HIU 26.600	26.6	6
HIU 26.700	26.7	6
HIU 26.800	26.8	6
HIU 26.900	26.9	6
HIU 27.000	27.0	6
HIU 27.100	27.1	6
HIU 27.200	27.2	6
HIU 27.300	27.3	6
HIU 27.400	27.4	6
HIU 27.500	27.5	6
HIU 27.600	27.6	6
HIU 27.700	27.7	6
HIU 27.800	27.8	6
HIU 27.900	27.9	6
HIU 28.000	28.0	6
HIU 28.100	28.1	7
HIU 28.200	28.2	7
HIU 28.300	28.3	7
HIU 28.400	28.4	7
HIU 28.500	28.5	7
HIU 28.600	28.6	7
HIU 28.700	28.7	7
HIU 28.800	28.8	7
HIU 28.900	28.9	7
HIU 29.000	29.0	7
HIU 29.100	29.1	7
HIU 29.200	29.2	7
HIU 29.300	29.3	7
HIU 29.400	29.4	7

Specification/ Item	D	TYPE
HIU 29.500	29.5	7
HIU 29.600	29.6	7
HIU 29.700	29.7	7
HIU 29.800	29.8	7
HIU 29.900	29.9	7
HIU 30.000	30.0	7
HIU 30.100	30.1	8
HIU 30.200	30.2	8
HIU 30.300	30.3	8
HIU 30.400	30.4	8
HIU 30.500	30.5	8
HIU 30.600	30.6	8
HIU 30.700	30.7	8
HIU 30.800	30.8	8
HIU 30.900	30.9	8
HIU 31.000	31.0	8
HIU 31.100	31.1	8
HIU 31.200	31.2	8
HIU 31.300	31.3	8
HIU 31.400	31.4	8
HIU 31.500	31.5	8
HIU 31.600	31.6	8
HIU 31.700	31.7	8
HIU 31.800	31.8	8
HIU 31.900	31.9	8
HIU 32.000	32.0	8

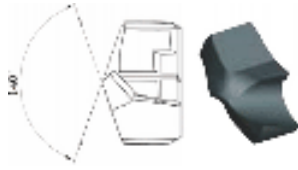


Indexable Drill

Specification/ Item	D	TYPE
HIM 12.500	12.5	C
HIM 12.600	12.6	C
HIM 12.700	12.7	C
HIM 12.800	12.8	C
HIM 12.900	12.9	C
HIM 13.000	13.0	C
HIM 13.100	13.1	C
HIM 13.200	13.2	C
HIM 13.300	13.3	C
HIM 13.400	13.4	C
HIM 13.500	13.5	C
HIM 13.600	13.6	B
HIM 13.700	13.7	B
HIM 13.800	13.8	B
HIM 13.900	13.9	B
HIM 14.000	14.0	B
HIM 14.100	14.1	B
HIM 14.200	14.2	B
HIM 14.300	14.3	B
HIM 14.400	14.4	B
HIM 14.500	14.5	B
HIM 14.600	14.6	A
HIM 14.700	14.7	A
HIM 14.800	14.8	A
HIM 14.900	14.9	A
HIM 15.000	15.0	A
HIM 15.100	15.1	A
HIM 15.200	15.2	A
HIM 15.300	15.3	A
HIM 15.400	15.4	A
HIM 15.500	15.5	A
HIM 15.600	15.6	A
HIM 15.700	15.7	A
HIM 15.800	15.8	A

Specification/ Item	D	TYPE
HIM 15.900	15.9	1
HIM 16.000	16.0	1
HIM 16.100	16.1	1
HIM 16.200	16.2	1
HIM 16.300	16.3	1
HIM 16.400	16.4	1
HIM 16.500	16.5	1
HIM 16.600	16.6	1
HIM 16.700	16.7	1
HIM 16.800	16.8	1
HIM 16.900	16.9	1
HIM 17.000	17.0	1
HIM 17.100	17.1	1
HIM 17.200	17.2	1
HIM 17.300	17.3	1
HIM 17.400	17.4	1
HIM 17.500	17.5	1
HIM 17.600	17.6	1
HIM 17.700	17.7	1
HIM 17.800	17.8	1
HIM 17.900	17.9	1
HIM 18.000	18.0	1
HIM 18.100	18.1	2
HIM 18.200	18.2	2
HIM 18.300	18.3	2
HIM 18.400	18.4	2
HIM 18.500	18.5	2
HIM 18.600	18.6	2
HIM 18.700	18.7	2
HIM 18.800	18.8	2
HIM 18.900	18.9	2
HIM 19.000	19.0	2
HIM 19.100	19.1	2
HIM 19.200	19.2	2

Specification/ Item	D	TYPE
HIM 19.300	19.3	2
HIM 19.400	19.4	2
HIM 19.500	19.5	2
HIM 19.600	19.6	2
HIM 19.700	19.7	2
HIM 19.800	19.8	2
HIM 19.900	19.9	2
HIM 20.000	20.0	3
HIM 20.100	20.1	3
HIM 20.200	20.2	3
HIM 20.300	20.3	3
HIM 20.400	20.4	3
HIM 20.500	20.5	3
HIM 20.600	20.6	3
HIM 20.700	20.7	3
HIM 20.800	20.8	3
HIM 20.900	20.9	3
HIM 21.000	21.0	3
HIM 21.100	21.1	3
HIM 21.200	21.2	3
HIM 21.300	21.3	3
HIM 21.400	21.4	3
HIM 21.500	21.5	3
HIM 21.600	21.6	3
HIM 21.700	21.7	3
HIM 21.800	21.8	3
HIM 21.900	21.9	3
HIM 22.000	22.0	3
HIM 22.100	22.1	4
HIM 22.200	22.2	4
HIM 22.300	22.3	4
HIM 22.400	22.4	4
HIM 22.500	22.5	4
HIM 22.600	22.6	4

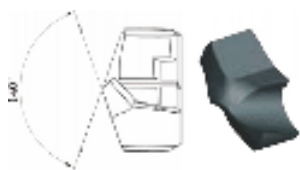


Indexable Drill

Specification/ Item	D	TYPE
HIM 22.700	22.7	4
HIM 22.800	22.8	4
HIM 22.900	22.9	4
HIM 23.000	23.0	4
HIM 23.100	23.1	4
HIM 23.200	23.2	4
HIM 23.300	23.3	4
HIM 23.400	23.4	4
HIM 23.500	23.5	4
HIM 23.600	23.6	4
HIM 23.700	23.7	4
HIM 23.800	23.8	4
HIM 23.900	23.9	4
HIM 24.000	24.0	4
HIM 24.100	24.1	5
HIM 24.200	24.2	5
HIM 24.300	24.3	5
HIM 24.400	24.4	5
HIM 24.500	24.5	5
HIM 24.600	24.6	5
HIM 24.700	24.7	5
HIM 24.800	24.8	5
HIM 24.900	24.9	5
HIM 25.000	25.0	5
HIM 25.100	25.1	5
HIM 25.200	25.2	5
HIM 25.300	25.3	5
HIM 25.400	25.4	5
HIM 25.500	25.5	5
HIM 25.600	25.6	5
HIM 25.700	25.7	5
HIM 25.800	25.8	5
HIM 25.900	25.9	5
HIM 26.000	26.0	5

Specification/ Item	D	TYPE
HIM 26.100	26.1	6
HIM 26.200	26.2	6
HIM 26.300	26.3	6
HIM 26.400	26.4	6
HIM 26.500	26.5	6
HIM 26.600	26.6	6
HIM 26.700	26.7	6
HIM 26.800	26.8	6
HIM 26.900	26.9	6
HIM 27.000	27.0	6
HIM 27.100	27.1	6
HIM 27.200	27.2	6
HIM 27.300	27.3	6
HIM 27.400	27.4	6
HIM 27.500	27.5	6
HIM 27.600	27.6	6
HIM 27.700	27.7	6
HIM 27.800	27.8	6
HIM 27.900	27.9	6
HIM 28.000	28.0	6
HIM 28.100	28.1	7
HIM 28.200	28.2	7
HIM 28.300	28.3	7
HIM 28.400	28.4	7
HIM 28.500	28.5	7
HIM 28.600	28.6	7
HIM 28.700	28.7	7
HIM 28.800	28.8	7
HIM 28.900	28.9	7
HIM 29.000	29.0	7
HIM 29.100	29.1	7
HIM 29.200	29.2	7
HIM 29.300	29.3	7
HIM 29.400	29.4	7

Specification/ Item	D	TYPE
HIM 29.500	29.5	7
HIM 29.600	29.6	7
HIM 29.700	29.7	7
HIM 29.800	29.8	7
HIM 29.900	29.9	7
HIM 30.000	30.0	7
HIM 30.100	30.1	8
HIM 30.200	30.2	8
HIM 30.300	30.3	8
HIM 30.400	30.4	8
HIM 30.500	30.5	8
HIM 30.600	30.6	8
HIM 30.700	30.7	8
HIM 30.800	30.8	8
HIM 30.900	30.9	8
HIM 31.000	31.0	8
HIM 31.100	31.1	8
HIM 31.200	31.2	8
HIM 31.300	31.3	8
HIM 31.400	31.4	8
HIM 31.500	31.5	8
HIM 31.600	31.6	8
HIM 31.700	31.7	8
HIM 31.800	31.8	8
HIM 31.900	31.9	8
HIM 32.000	32.0	8

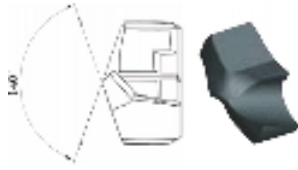


Indexable Drill

Specification/ Item	D	TYPE
HIP 12.500	12.5	C
HIP 12.600	12.6	C
HIP 12.700	12.7	C
HIP 12.800	12.8	C
HIP 12.900	12.9	C
HIP 13.000	13.0	C
HIP 13.100	13.1	C
HIP 13.200	13.2	C
HIP 13.300	13.3	C
HIP 13.400	13.4	C
HIP 13.500	13.5	C
HIP 13.600	13.6	B
HIP 13.700	13.7	B
HIP 13.800	13.8	B
HIP 13.900	13.9	B
HIP 14.000	14.0	B
HIP 14.100	14.1	B
HIP 14.200	14.2	B
HIP 14.300	14.3	B
HIP 14.400	14.4	B
HIP 14.500	14.5	B
HIP 14.600	14.6	A
HIP 14.700	14.7	A
HIP 14.800	14.8	A
HIP 14.900	14.9	A
HIP 15.000	15.0	A
HIP 15.100	15.1	A
HIP 15.200	15.2	A
HIP 15.300	15.3	A
HIP 15.400	15.4	A
HIP 15.500	15.5	A
HIP 15.600	15.6	A
HIP 15.700	15.7	A
HIP 15.800	15.8	A

Specification/ Item	D	TYPE
HIP 15.900	15.9	1
HIP 16.000	16.0	1
HIP 16.100	16.1	1
HIP 16.200	16.2	1
HIP 16.300	16.3	1
HIP 16.400	16.4	1
HIP 16.500	16.5	1
HIP 16.600	16.6	1
HIP 16.700	16.7	1
HIP 16.800	16.8	1
HIP 16.900	16.9	1
HIP 17.000	17.0	1
HIP 17.100	17.1	1
HIP 17.200	17.2	1
HIP 17.300	17.3	1
HIP 17.400	17.4	1
HIP 17.500	17.5	1
HIP 17.600	17.6	1
HIP 17.700	17.7	1
HIP 17.800	17.8	1
HIP 17.900	17.9	1
HIP 18.000	18.0	1
HIP 18.100	18.1	2
HIP 18.200	18.2	2
HIP 18.300	18.3	2
HIP 18.400	18.4	2
HIP 18.500	18.5	2
HIP 18.600	18.6	2
HIP 18.700	18.7	2
HIP 18.800	18.8	2
HIP 18.900	18.9	2
HIP 19.000	19.0	2
HIP 19.100	19.1	2
HIP 19.200	19.2	2

Specification/ Item	D	TYPE
HIP 19.300	19.3	2
HIP 19.400	19.4	2
HIP 19.500	19.5	2
HIP 19.600	19.6	2
HIP 19.700	19.7	2
HIP 19.800	19.8	2
HIP 19.900	19.9	2
HIP 20.000	20.0	3
HIP 20.100	20.1	3
HIP 20.200	20.2	3
HIP 20.300	20.3	3
HIP 20.400	20.4	3
HIP 20.500	20.5	3
HIP 20.600	20.6	3
HIP 20.700	20.7	3
HIP 20.800	20.8	3
HIP 20.900	20.9	3
HIP 21.000	21.0	3
HIP 21.100	21.1	3
HIP 21.200	21.2	3
HIP 21.300	21.3	3
HIP 21.400	21.4	3
HIP 21.500	21.5	3
HIP 21.600	21.6	3
HIP 21.700	21.7	3
HIP 21.800	21.8	3
HIP 21.900	21.9	3
HIP 22.000	22.0	3
HIP 22.100	22.1	4
HIP 22.200	22.2	4
HIP 22.300	22.3	4
HIP 22.400	22.4	4
HIP 22.500	22.5	4
HIP 22.600	22.6	4



Indexable Drill

Specification/ Item	D	TYPE
HIP 22.700	22.7	4
HIP 22.800	22.8	4
HIP 22.900	22.9	4
HIP 23.000	23.0	4
HIP 23.100	23.1	4
HIP 23.200	23.2	4
HIP 23.300	23.3	4
HIP 23.400	23.4	4
HIP 23.500	23.5	4
HIP 23.600	23.6	4
HIP 23.700	23.7	4
HIP 23.800	23.8	4
HIP 23.900	23.9	4
HIP 24.000	24.0	4
HIP 24.100	24.1	5
HIP 24.200	24.2	5
HIP 24.300	24.3	5
HIP 24.400	24.4	5
HIP 24.500	24.5	5
HIP 24.600	24.6	5
HIP 24.700	24.7	5
HIP 24.800	24.8	5
HIP 24.900	24.9	5
HIP 25.000	25.0	5
HIP 25.100	25.1	5
HIP 25.200	25.2	5
HIP 25.300	25.3	5
HIP 25.400	25.4	5
HIP 25.500	25.5	5
HIP 25.600	25.6	5
HIP 25.700	25.7	5
HIP 25.800	25.8	5
HIP 25.900	25.9	5
HIP 26.000	26.0	5

Specification/ Item	D	TYPE
HIP 26.100	26.1	6
HIP 26.200	26.2	6
HIP 26.300	26.3	6
HIP 26.400	26.4	6
HIP 26.500	26.5	6
HIP 26.600	26.6	6
HIP 26.700	26.7	6
HIP 26.800	26.8	6
HIP 26.900	26.9	6
HIP 27.000	27.0	6
HIP 27.100	27.1	6
HIP 27.200	27.2	6
HIP 27.300	27.3	6
HIP 27.400	27.4	6
HIP 27.500	27.5	6
HIP 27.600	27.6	6
HIP 27.700	27.7	6
HIP 27.800	27.8	6
HIP 27.900	27.9	6
HIP 28.000	28.0	6
HIP 28.100	28.1	7
HIP 28.200	28.2	7
HIP 28.300	28.3	7
HIP 28.400	28.4	7
HIP 28.500	28.5	7
HIP 28.600	28.6	7
HIP 28.700	28.7	7
HIP 28.800	28.8	7
HIP 28.900	28.9	7
HIP 29.000	29.0	7
HIP 29.100	29.1	7
HIP 29.200	29.2	7
HIP 29.300	29.3	7
HIP 29.400	29.4	7

Specification/ Item	D	TYPE
HIP 29.500	29.5	7
HIP 29.600	29.6	7
HIP 29.700	29.7	7
HIP 29.800	29.8	7
HIP 29.900	29.9	7
HIP 30.000	30.0	7
HIP 30.100	30.1	8
HIP 30.200	30.2	8
HIP 30.300	30.3	8
HIP 30.400	30.4	8
HIP 30.500	30.5	8
HIP 30.600	30.6	8
HIP 30.700	30.7	8
HIP 30.800	30.8	8
HIP 30.900	30.9	8
HIP 31.000	31.0	8
HIP 31.100	31.1	8
HIP 31.200	31.2	8
HIP 31.300	31.3	8
HIP 31.400	31.4	8
HIP 31.500	31.5	8
HIP 31.600	31.6	8
HIP 31.700	31.7	8
HIP 31.800	31.8	8
HIP 31.900	31.9	8
HIP 32.000	32.0	8

HIU INSERTS



D1 metric		Cutting Speed-vc Range - m/min			Metric					
					Recommended Feed Rate (f) by Diameter					
		min	Starting Value	max		12.5	16.0	20.0	25.4	32.0
P1	Mild steel	100	100	120	mm/r	0.15-0.31	0.17-0.36	0.19-0.41	0.25-0.53	0.29-0.60
P2	Medium carbon steel/high carbon steel	80	95	110	mm/r	0.15-0.31	0.17-0.36	0.19-0.41	0.25-0.53	0.29-0.60
P3	Alloy steel/tool steel	65	70	80	mm/r	0.15-0.31	0.17-0.36	0.19-0.41	0.25-0.53	0.29-0.60
M1	austenitic stainless steel	30	60	90	mm/r	0.09-0.14	0.11-0.17	0.13-0.20	0.16-0.25	0.18-0.28
M2	Austenitic/Cast Stainless Steel	30	50	90	mm/r	0.09-0.14	0.11-0.17	0.13-0.20	0.16-0.25	0.18-0.28
M3	Duplex stainless steel	20	40	60	mm/r	0.09-0.14	0.11-0.17	0.13-0.20	0.16-0.25	0.18-0.28
K1	Grey cast iron	90	135	175	mm/r	0.17-0.35	0.21-0.42	0.25-0.48	0.31-0.59	0.37-0.70
K2	Nodular cast iron/vermicular cast iron	90	110	125	mm/r	0.17-0.35	0.21-0.42	0.25-0.48	0.31-0.59	0.37-0.70
K3	High strength ductile iron	40	95	125	mm/r	0.18-0.36	0.20-0.41	0.21-0.44	0.23-0.48	0.25-0.53

HIM INSERTS



D1 metric		Cutting Speed-vc Range - m/min			Metric					
					Recommended Feed Rate (f) by Diameter					
		min	Starting Value	max		12.5	16.0	20.0	25.4	32.0
M1	austenitic stainless steel	30	60	90	mm/r	0.09-0.14	0.11-0.17	0.13-0.20	0.16-0.25	0.18-0.28
M2	Austenitic/Cast Stainless Steel	30	50	90	mm/r	0.09-0.14	0.11-0.17	0.13-0.20	0.16-0.25	0.18-0.28
M3	Duplex stainless steel	20	40	60	mm/r	0.09-0.14	0.11-0.17	0.13-0.20	0.16-0.25	0.18-0.28

HIP INSERTS



D1 metric		Cutting Speed-vc Range - m/min			Metric					
					Recommended Feed Rate (f) by Diameter					
		min	Starting Value	max		12.5	16.0	20.0	25.4	32.0
P1	Mild steel	100	100	120	mm/r	0.14-0.23	0.17-0.25	0.19-0.29	0.23-0.38	0.26-0.43
P2	Medium carbon steel/high carbon steel	80	95	110	mm/r	0.17-0.23	0.19-0.25	0.22-0.29	0.29-0.38	0.32-0.43
P3	Alloy steel/tool steel	65	70	80	mm/r	0.14-0.20	0.15-0.23	0.17-0.25	0.23-0.34	0.26-0.38
P4	Alloy steel/tool steel	30	60	90	mm/r	0.11-0.20	0.13-0.23	0.14-0.25	0.18-0.34	0.21-0.38
P5	Austenitic/Cast stainless Steel	30	50	90	mm/r	0.08-0.11	0.10-0.13	0.11-0.14	0.14-0.18	0.15-0.20
P6	High strength ferrite Martensitic stainless steel	20	40	60	mm/r	0.11-0.17	0.13-0.18	0.14-0.20	0.18-0.28	0.21-0.31





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