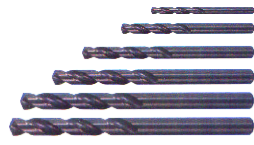


Straight shank drill



Material HSS General

Dimension			Price	
Edge Size	Edge Long	Overall length	LIST 500	SUS
0.2	3	19	52	-
0.3	3.5	20	29	-
0.4	5.5	24	24	-
0.5	7.5	27	16.5	18.8
0.6	8.5	30	17.5	15.5
0.7	10	32	11.5	12.5
0.8	11	34	11	9.5
0.9	13	36	11	9.5
1.0	18	40	11	8.8
1.1	20	42	11	8
1.2	20	42	11	8
1.3	22	45	11	8
1.4	23	48	11	8
1.5	23	48	11	8
1.6	25	50	11	8
1.7	25	50	11	8
1.8	28	52	11	8
1.9	28	52	11	8
2.0	29	55	10.5	8
2.1	29	55	10.5	8
2.2	33	58	10.5	8
2.3	33	58	10.5	8
2.4	35	61	10.5	8
2.5	35	61	10.5	8
2.6	37	64	10.5	8
2.7	37	64	10.5	8
2.8	39	67	10.5	8
2.9	42	71	10.5	8
3.0	42	71	10	8
3.1	42	71	11.5	8.5
3.2	42	71	11.5	8.5
3.3	45	73	11.5	8.5
3.4	45	73	11.5	8.5
3.5	45	73	11.5	8.5
3.6	48	76	13	9.5
3.7	48	76	13	9.5
3.8	48	76	13	9.5
3.9	51	79	13	9.5
4.0	54	83	13	9.5
4.1	54	83	15.5	11.3
4.2	54	83	15.5	11.3
4.3	54	83	15.5	11.3
4.4	56	86	15.5	11.3
4.5	56	86	15.5	11.3
4.6	56	86	18	13
4.7	59	89	18	13
4.8	59	89	18	13
4.9	62	92	18	13
5.0	62	92	18	13
5.1	62	92	21	15
5.2	64	95	21	15
5.3	64	95	21	15
5.4	64	95	21	15
5.5	64	95	21	15
5.6	67	98	24	18
5.7	67	98	24	18
5.8	67	98	24	18
5.9	67	98	24	18
6.0	70	102	24	18
6.1	70	102	27.5	20
6.2	70	102	27.5	20
6.3	70	102	27.5	20
6.4	73	105	27.5	20
6.5	73	105	27.5	20
6.6	73	105	31	23.3
6.7	73	105	31	23.3
6.8	73	105	31	23.3
6.9	73	105	31	23.3
7.0	73	105	31	23.3
7.1	75	108	35.5	28.8
7.2	75	108	35.5	28.8
7.3	75	108	35.5	28.8
7.4	78	111	35.5	28.8



Dimension			Price	
Edge Size	Edge Long	Overall length	LIST 500	SUS
7.5	78	111	35.5	27.5
7.6	78	111	39	31.3
7.7	81	114	39	31.3
7.8	81	114	39	31.3
7.9	81	114	39	31.3
8.0	81	114	39	28.8
8.1	84	117	43.5	36.3
8.2	84	117	43.5	36.3
8.3	84	117	43.5	36.3
8.4	87	121	43.5	36.3
8.5	87	121	43.5	35
8.6	87	121	49	40
8.7	87	121	49	40
8.8	89	124	49	40
8.9	89	124	49	40
9.0	89	124	49	37.5
9.1	89	124	56.5	47.5
9.2	92	127	56.5	47.5
9.3	92	127	56.5	47.5
9.4	92	127	56.5	47.5
9.5	92	127	56.5	45
9.6	95	130	62.5	50
9.7	95	130	62.5	50
9.8	95	130	62.5	50
9.9	95	130	62.5	50
10.0	95	130	62	47.5
10.1	98	133	70	60
10.2	98	133	70	60
10.3	98	133	70	60
10.4	98	133	70	60
10.5	100	137	70	57.5
10.6	100	137	77.5	72.5
10.7	100	137	77.5	72.5
10.8	103	140	77.5	72.5
10.9	103	140	77.5	72.5
11.0	103	140	77.5	60
11.1	103	140	84.5	77.5
11.2	106	143	84.5	77.5
11.3	106	143	84.5	77.5
11.4	106	143	84.5	77.5
11.5	106	143	84.5	70
11.6	109	146	93	82.5
11.7	109	146	93	82.5
11.8	109	146	93	82.5
11.9	109	146	93	82.5
12.0	111	149	93	75
12.1	111	149	99.5	90
12.2	111	149	99.5	90
12.3	111	149	99.5	90
12.4	114	152	99.5	90
12.5	114	152	99.5	85
12.6	114	152	107.5	95
12.7	114	152	107.5	95
12.8	114	152	107.5	95
12.9	114	152	107.5	95
13.0	114	152	107.5	85
13.5	122	168	162	
14.0	122	168	169	
14.5	122	168	196	
15.0	132	181	200.5	
15.5	132	181	210.5	
16.0	132	181	219.5	
16.5	132	181	234	
17.0	143	194	250	
17.5	143	194	261	

Straight shank drill lengthening



Material HSS General

Dimension			Price	
Edge Size	Edge Long	Overall length	LIST 500	SUS
1.0	35	75	43	47.5
	40	100	51	60
1.1	35	75	44	47.5
	40	100	53	60
1.2	35	75	41	47.5
	40	100	49	60
1.3	35	75	39	47.5
	40	100	49	60
1.4	35	75	38	47.5
	40	100	48	60
1.5	35	75	34	45
	40	100	43	60
1.6	35	75	35	45
	40	100	45	60
1.7	35	75	35	45
	40	100	45	60
1.8	35	75	35	45
	40	100	45	60
1.9	35	75	35	45
	40	100	45	60
2.0	40	100	40	37.5
	60	150	47	45
2.1	40	100	42	40
	60	150	51	45
2.2	40	100	42	40
	60	150	51	45
2.3	40	100	42	40
	60	150	51	45
2.4	40	100	42	40
	60	150	51	45
2.5	50	100	40	37.5
	60	150	47	47.5
	100	200	68	
2.6	50	100	45	42.5
	75	150	55	52.5
	100	200	68	
2.7	50	100	45	42.5
	75	150	55	52.5
	100	200	68	
2.8	50	100	45	42.5
	75	150	55	52.5
	100	200	68	
2.9	50	100	45	42.5
	75	150	55	52.5
	100	200	68	
3.0	50	100	42	40
	75	150	52	50
	100	200	65	62.5
3.1	75	150	57	55
	100	200	71	67.5
3.2	75	150	57	55
	100	200	71	67.5
3.3	75	150	57	55
	100	200	71	67.5
3.4	75	150	57	55
	100	200	71	67.5
3.5	75	150	54	55
	100	200	67	62.5
3.6	75	150	64	60
	100	200	78	72.5
	120	250	90	60
	120	300	106	72.5
3.7	75	150	64	60
	100	200	78	72.5
	120	250	90	
	120	300	106	
3.8	75	150	64	60
	100	200	78	72.5
	120	250	90	
	120	300	106	
3.9	75	150	64	60
	100	200	78	72.5
	120	250	90	
	120	300	106	

Dimension			Price	
Edge Size	Edge Long	Overall length	LIST 500	SUS
4.0	75	150	61	60
	100	200	73	72.5
	120	250	85	
	120	300	100	
4.1	75	150	72	67.5
	100	200	84	77.5
	120	250	101	
	120	300	118	
4.2	75	150	72	67.5
	100	200	84	77.5
	120	250	101	
	120	300	118	
4.3	75	150	72	67.5
	100	200	84	77.5
	120	250	101	
	120	300	118	
4.4	75	150	72	67.5
	100	200	84	77.5
	120	250	101	
	120	300	118	
4.5	75	150	68	62.5
	100	200	80	75
	120	250	95	
	120	300	111	
4.6	75	150	79	72.5
	100	200	92	85
	120	250	113	
	130	300	133	
	150	400	260	
4.7	75	150	79	72.5
	100	200	92	85
	120	250	113	
	130	300	133	
	150	400	260	
4.8	75	150	79	72.5
	100	200	92	85
	120	250	113	
	130	300	133	
	150	400	260	
4.9	75	150	79	72.5
	100	200	92	85
	120	250	113	
	130	300	133	
	150	400	260	
5.0	75	150	73	67.5
	100	200	82	80
	120	250	104	95
	130	300	123	
	150	400	239	
5.1	75	150	84	77.5
	100	200	103	93.8
	120	250	124	
	130	300	145	
	150	400	290	
5.2	75	150	84	77.5
	100	200	103	93.8
	120	250	124	
	130	300	145	
	150	400	290	
5.3	75	150	84	77.5
	100	200	103	93.8
	120	250	124	

High-speed Steel Drilling

Straight shank drill lengthening



Material: HSS							General				
Dimension			Price		LIST 500		SUS				
Edge Size	Edge Long	Overall length	LIST 500	SUS	Edge Size	Edge Long	Overall length	LIST 500	SUS		
5.6	100	150	90	83.8	7.2	100	200	146	132.5		
	100	200	113	105		120	250	169	157.5		
	120	250	136			150	300	193	175		
	150	300	159			7.3	100	200	146	132.5	
180	400	308		120	250		169	157.5			
180	500	394		150	300		193	175			
5.7	100	150	90	83.8	7.4	100	200	146	132.5		
	100	200	113	105		120	250	169	157.5		
	120	250	136			150	300	193	175		
	150	300	159		7.5	100	200	137	125		
180	400	308		120		250	157	145			
180	500	394		150		300	181	165			
5.8	100	150	90	83.8		200	400	354			
	100	200	113	105	200	500	481				
	120	250	136		200	600	642				
	150	300	159		7.6	100	200	161	145		
	180	400	308			120	250	182	170		
	180	500	394		150	300	211	187.5			
5.9	100	150	90	83.8	7.7	100	400	161	145		
	100	200	113	105		120	500	182	170		
	120	250	136			150	600	211	187.5		
	150	300	159		7.8	100	200	161	145		
	180	400	308			120	250	182	170		
	180	500	394			150	300	211	187.5		
6.0	100	150	84	77.5	7.9	100	200	161	145		
	100	200	104	97.5		120	250	182	170		
	120	250	126	117.5		150	300	211	187.5		
	150	300	148	186	8.0	100	200	149	132.5		
	180	400	304			120	250	170	160		
	180	500	409			150	300	198	180		
6.1	100	150	97	87.5	200	400	354				
	100	200	120	110	200	500	511				
	120	250	145		200	600	661				
	150	300	167		8.1	100	200	180	162.5		
	6.2	100	150	97		87.5	120	250	199	185	
		100	200	120	110	150	300	230	210		
120		250	145		8.2	100	200	180	162.5		
150	300	167		120		250	199	185			
120	250	145		150		300	230	210			
6.3	100	150	97	87.5	8.3	100	200	180	162.5		
	100	200	120	110		120	250	199	185		
	120	250	145			150	300	230	210		
6.4	100	150	97	87.5	8.4	100	200	180	162.5		
	100	200	120	110		120	250	199	185		
	120	250	145			150	300	230	210		
	150	300	167			8.5	100	200	168	155	
6.5	100	150	97	87.5	120		250	186	172.5		
	100	200	120	110	150		300	214	197.5		
	120	250	145		200		400	383			
	150	300	167		200	500	544				
6.6	100	200	113	87.5	200	600	676				
	120	250	135	105	8.6	100	200	195	175		
	150	300	155	122.5		120	250	223	210		
	200	400	331			150	300	250	225		
6.7	100	200	135	112.5	8.7	100	200	195	175		
	120	250	155	122.5		120	250	223	210		
	150	300	179			150	300	250	225		
	6.8	100	200	135		112.5	8.8	100	200	195	175
120		250	155	122.5	120	250		223	210		
150		300	179		150	300		250	225		
6.9		100	200	135	112.5	8.9	100	200	195	175	
	120	250	155	122.5	120		250	223	210		
	150	300	179		150		300	250	225		
	7.0	100	200	125	107.5		9.0	100	200	182	162.5
120		250	145	115	120	250		208	187.5		
150		300	167	132.5	150	300		234	210		
200		400	333	150	200	400	387				
200		500	462		200	500	596				
200		600	624		200	600	815				
7.1	100	200	146	132.5	9.1	100	200	210	190		
	120	250	169	157.5		120	250	235	210		
	150	300	193	175		150	300	270	245		
9.3	100	200	210	190	9.2	100	200	210	190		
	120	250	235	210		120	250	235	210		
	150	300	270	245		150	300	270	245		
9.4	100	200	210	190	9.3	100	200	225	202.5		
	120	250	235	210		120	250	254	237.5		
	150	300	270	245		150	300	294	265		
9.5	100	200	195	175		200	400	424			
	120	250	219	197.5		200	500	608			
	150	300	252	230		200	600	882			
9.6	100	200	225	202.5	9.4	100	200	225	202.5		
	120	250	254	237.5		120	250	254	237.5		
	150	300	294	265		150	300	294	265		
9.7	100	200	225	202.5	9.5	100	200	225	202.5		
	120	250	254	237.5		120	250	254	237.5		
	150	300	294	265		150	300	294	265		
9.8	100	200	225	202.5	9.6	100	200	225	202.5		
	120	250	254	237.5		120	250	254	237.5		
	150	300	294	265		150	300	294	265		
9.9	100	200	225	202.5	9.7	100	200	225	202.5		
	120	250	254	237.5		120	250	254	237.5		
	150	300	294	265		150	300	294	265		
10.0	100	200	210	190	9.8	100	200	210	190		
	120	250	238	225		120	250	235	210		
	150	300	275	250		150	300	270	245		
10.1	100	200	247	225	9.9	100	200	225	202.5		
	120	250	289	265		120	250	254	237.5		
	150	300	327	295		150	300	294	265		
10.2	100	200	247	225	10.0	100	200	210	190		
	120	250	289	265		120	250	238	225		
	150	300	327	295		150	300	275	250		
10.3	100	200	247	225	200	400	436				
	120	250	289	265	250	500	631				
	150	300	327	295	300	600	889				
10.4	100	200	247	225	10.1	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
10.5	100	200	247	225	10.2	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
10.6	100	200	247	225	10.3	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
10.7	100	200	247	225	10.4	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
10.8	100	200	247	225	10.5	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
10.9	100	200	247	225	10.6	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
11.0	100	200	247	225	10.7	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
11.1	100	200	247	225	10.8	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
11.2	100	200	247	225	10.9	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
11.3	100	200	247	225	11.0	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
11.4	100	200	247	225	11.1	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
11.5	100	200	247	225	11.2	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
11.6	100	200	247	225	11.3	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
11.7	100	200	247	225	11.4	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
11.8	100	200	247	225	11.5	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
11.9	100	200	247	225	11.6	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
12.0	100	200	247	225	11.7	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
12.1	100	200	247	225	11.8	100	200	247	225		
	120	250	289	265		120	250	289	265		
	150	300	327	295		150	300	327	295		
12.2	100	200	247	225	11.9	100	200	247	225		
	120	250									

taper-shank drill



Material: HSS General

Dimension				Price		Dimension				Price		Dimension				Price							
Edge Size	Edge Long	Overall length	MT.NO	LIST 602	SUS	Edge Size	Edge Long	Overall length	MT.NO	LIST 602	SUS	Edge Size	Edge Long	Overall length	MT.NO	LIST 602	SUS	Edge Size	Edge Long	Overall length	MT.NO	LIST 602	SUS
7.0	75	155	1	142	112.5	14.3	122	222	2	304	285	21.6	160	260	2	579	645	28.9	180	300	3	1056	
7.1	78	158	1	153		14.4	122	222	2	304	285	21.7	160	260	2	579	645	29.0	180	300	3	994	737.5
7.2	78	158	1	153		14.5	122	222	2	294	222.5	21.8	160	260	2	579	645	29.1	185	305	3	1084	
7.3	78	158	1	153		14.6	125	225	2	310	285	21.9	160	260	2	579	645	29.2	185	305	3	1084	
7.4	78	158	1	153		14.7	125	225	2	310	285	22.0	160	260	2	561	402.5	29.3	185	305	3	1084	
7.5	78	158	1	144		14.8	125	225	2	310	285	22.1	165	265	2	607	675	29.4	185	305	3	1084	
7.6	82	162	1	157		14.9	125	225	2	310	285	22.2	165	265	2	607	675	29.5	185	305	3	1019	842.5
7.7	82	162	1	157		15.0	125	225	2	301	222.5	22.3	165	265	2	607	675	29.6	185	305	3	1140	
7.8	82	162	1	157		15.1	128	228	2	327	325	22.4	165	265	2	607	675	29.7	185	305	3	1140	
7.9	82	162	1	157		15.2	128	228	2	327	325	22.5	165	265	2	586	427.5	29.8	185	305	3	1140	
8.0	82	162	1	147	112.5	15.3	128	228	2	327	325	22.6	165	265	2	625	715	29.9	185	305	3	1140	
8.1	85	168	1	166		15.4	128	228	2	327	325	22.7	165	265	2	625	715	30.0	185	305	3	1070	842.5
8.2	85	168	1	166		15.5	128	228	2	315	237.5	22.8	165	265	2	625	715	30.1	190	310	3	1193	
8.3	85	168	1	166		15.6	130	230	2	341	340	22.9	165	265	2	625	715	30.2	190	310	3	1193	
8.4	85	168	1	166		15.7	130	230	2	341	340	23.0	165	265	2	607	427.5	30.3	190	310	3	1193	
8.5	85	168	1	157	127.5	15.8	130	230	2	341	340	23.1	165	285	3	707	745	30.4	190	310	3	1193	
8.6	88	172	1	176		15.9	130	230	2	341	340	23.2	165	285	3	707	745	30.5	190	310	3	1121	915
8.7	88	172	1	176		16.0	130	230	2	331	237.5	23.3	165	285	3	707	745	30.6	190	310	3	1251	
8.8	88	172	1	176		16.1	132	232	2	371	355	23.4	165	285	3	707	745	30.7	190	310	3	1251	
8.9	88	172	1	176		16.2	132	232	2	371	355	23.5	165	285	3	663	487.5	30.8	190	310	3	1251	
9.0	88	172	1	166	127.5	16.3	132	232	2	371	355	23.6	165	285	3	732	772.5	30.9	190	310	3	1251	
9.1	92	175	1	186		16.4	132	232	2	371	355	23.7	165	285	3	732	772.5	31.0	190	310	3	1172	915
9.2	92	175	1	186		16.5	132	232	2	371	272.5	23.8	165	285	3	732	772.5	31.1	195	315	3	1288	
9.3	92	175	1	186		16.6	135	235	2	392	375	23.9	165	285	3	732	772.5	31.2	195	315	3	1288	
9.4	92	175	1	186		16.7	135	235	2	392	375	24.0	165	285	3	688	487.5	31.3	195	315	3	1288	
9.5	92	175	1	175	142.5	16.8	135	235	2	392	375	24.1	165	285	3	765	800	31.4	195	315	3	1288	
9.6	95	178	1	194		16.9	135	235	2	392	375	24.2	165	285	3	765	800	31.5	195	315	3	1214	997.5
9.7	95	178	1	194		17.0	135	235	2	380	272.5	24.3	165	285	3	765	800	31.6	195	315	3	1376	
9.8	95	178	1	194		17.1	140	240	2	410	405	24.4	165	285	3	765	800	31.7	195	315	3	1376	
9.9	95	178	1	194		17.2	140	240	2	410	405	24.5	165	285	3	718	540	31.8	195	315	3	1376	
10.0	95	178	1	183	142.5	17.3	140	240	2	410	405	24.6	165	285	3	788	840	31.9	195	315	3	1376	
10.1	98	182	1	200	190	17.4	140	240	2	410	405	24.7	165	285	3	788	840	32.0	195	315	3	1288	997.5
10.2	98	182	1	200	190	17.5	140	240	2	397	307.5	24.8	165	285	3	788	840	32.5	200	345	4	1467	1105
10.3	98	182	1	200	190	17.6	140	240	2	433	432.5	24.9	165	285	3	788	840	33.0	200	345	4	1441	1105
10.4	98	182	1	200	190	17.7	140	240	2	433	432.5	25.0	165	285	3	739	540	33.5	205	350	4	1554	1175
10.5	98	182	1	194	157.5	17.8	140	240	2	433	432.5	25.1	165	285	3	816		34.0	205	350	4	1517	1175
10.6	102	185	1	210	205	17.9	140	240	2	433	432.5	25.2	165	285	3	816		34.5	205	350	4	1645	1247.5
10.7	102	185	1	210	205	18.0	140	240	2	419	307.5	25.3	165	285	3	816		35.0	205	350	4	1605	1247.5
10.8	102	185	1	210	205	18.1	145	245	2	445	462.5	25.4	165	285	3	816		35.5	210	355	4	1721	1282.5
10.9	102	185	1	210	205	18.2	145	245	2	445	462.5	25.5	165	285	3	765	582.5	36.0	210	355	4	1682	1282.5
11.0	102	185	1	204	157.5	18.3	145	245	2	445	462.5	25.6	165	285	3	841		36.5	210	355	4	1823	1390
11.1	105	188	1	215	217.5	18.4	145	245	2	445	462.5	25.7	165	285	3	841		37.0	210	355	4	1784	1390
11.2	105	188	1	215	217.5	18.5	145	245	2	431	320	25.8	165	285	3	841		37.5	215	360	4	1911	1562.5
11.3	105	188	1	215	217.5	18.6	145	245	2	466	487.5	25.9	165	285	3	841		38.0	215	360	4	1874	1562.5
11.4	105	188	1	215	217.5	18.7	145	245	2	466	487.5	26.0	165	285	3	790	582.5	38.5	215	360	4	2002	1587.5
11.5	105	188	1	209	170	18.8	145	245	2	466	487.5	26.1	170	290	3	874		39.0	215	360	4	1951	1587.5
11.6	108	192	1	232	230	18.9	145	245	2	466	487.5	26.2	170	290	3	874		39.5	220	365	4	2129	1637.5
11.7	108	192	1	232	230	19.0	145	245	2	452	320	26.3	170	290	3	874		40.0	220	365	4	2078	1637.5
11.8	108	192	1	232	230	19.1	150	250	2	491	512.5	26.4	170	290	3	874		40.5	220	365	4	2268	
11.9	108	192	1	232	230	19.2	150	250	2	491	512.5	26.5	170	290	3	820	617.5	41.0	220	365	4	2205	1925
12.0	108	192	1	224	180	19.3	150	250	2	491	512.5	26.6	170	290	3	897		41.5	225	370	4	2340	
12.1	112	195	1	244	245	19.4	150	250	2	491	512.5	26.7	170	290	3	897		42.0	225	370	4	2294	2000
12.2	112	195	1	244	245	19.5	150	250	2	480	355	26.8	170	290	3	897		42.5	225	370	4	2548	
12.3	112	195	1	244	245	19.6	150	250	2	512	537.5	26.9	170	290	3	897		43.0	225	370	4	2479	2250
12.4	112	195	1	244	245	19.7	150	250	2	512	537.5	27.0	170	290	3	841	617.5	43.5	230	375	4	2641	
12.5	112	195	1	234	180	19.8	150	250	2	512	537.5	27.1	175	295	3	929		44.0	230	375	4	2572	2400
12.6	115	198	1	248	245	19.9	150	250	2	512	537.5	27.2	175	295	3	929		44.5	230	375	4	2780	
12.7	115	198	1	248	245	20.0	150	250	2	496	355	27.3	175	295	3	929		45.0	230	375	4	2710	2475
12.8	115	198	1	248	245	20.1	155	255	2	521	562.5	27.4	175	295	3	929		45.5	235	380	4	2919	
12.9	115	198	1	248	245	20.2	155	255	2	521	562.5	27.5	175	295	3	871	665	46.0	235	380	4	2850	2625
13.0	115	198	1	244	180	20.3	155	255	2	521	562.5	27.6	175	295	3	961		46.5	235	380	4	3081	
13.1	118	202	1	262	270	20.4	155	255	2	521	562.5	27.7	175	295	3	961		47.0	235	380	4	3011	2750
13.2	118</																						

High-speed Steel Drilling

taper-shank drill

taper-shank drill lengthening



Material HSS General					
Dimension				Price	
Edge Size	Edge Long	Overall length	MT.NO	LIST 602	SUS
56.0	260	440	5	5189	
57.0	260	440	5	5467	
58.0	265	445	5	5698	
59.0	265	445	5	5976	
60.0	270	450	5	6208	
61.0	270	450	5	6486	
62.0	270	450	5	6811	
63.0	275	455	5	6811	
64.0	275	455	5	7088	
65.0	280	460	5	7389	
66.0	280	460	5	7667	
67.0	285	465	5	7992	
68.0	285	465	5	8316	
69.0	290	470	5	8640	
70.0	290	470	5	8965	
71.0	295	475	5	9289	
72.0	295	475	5	9660	
73.0	300	480	5	10053	
74.0	300	480	5	10447	
75.0	305	485	5	10841	
76.0	305	485	5	11235	
77.0	310	490	5	11995	
78.0	315	500	5	12995	
79.0	315	500	6	16447	
80.0	315	500	6	17141	
81.0	315	500	6	17605	
82.0	315	500	6	18092	
83.0	315	500	6	18601	
84.0	325	510	6	19111	
85.0	325	510	6	19620	
86.0	325	510	6	20130	
87.0	325	510	6	20640	
88.0	325	510	6	21288	
89.0	335	520	6	21898	
90.0	335	520	6	22592	
91.0	335	520	6	23333	
92.0	335	520	6	24144	
93.0	345	530	6	25024	
94.0	345	530	6	25936	
95.0	345	530	6	26936	
96.0	345	530	6	28064	
97.0	345	530	6	29336	
98.0	345	530	6	30768	
99.0	345	530	6	32384	
100.0	345	530	6	34256	
	355	600	6	28678	
	355	600	6	29813	
	355	600	6	30716	
	355	600	6	31851	
	355	600	6	32754	

taper-shank drill lengthening

Material HSS General					
Dimension				Price	
Edge Size	Edge Long	Overall length	MT.NO	LIST 650	SUS
7.0	250	150	1	530	
	300	200	1	669	
	350	225	1	910	
7.5	250	150	1	519	
	300	200	1	665	
	350	225	1	899	
8.0	250	150	1	512	
	300	200	1	653	
	350	225	1	878	
8.5	250	150	1	508	
	300	200	1	639	
	350	225	1	857	
9.0	250	150	1	494	
	300	200	1	635	
	350	225	1	850	
9.5	250	150	1	494	
	300	200	1	635	
	350	225	1	843	
10.0	250	150	1	494	
	300	200	1	635	
	350	225	1	839	

Material HSS General						Material HSS General					
Dimension				Price		Dimension				Price	
Edge Size	Edge Long	Overall length	MT.NO	LIST 650	SUS	Edge Size	Edge Long	Overall length	MT.NO	LIST 650	SUS
10.5	250	150	1	480		20.5	325	200	2	1082	
	300	200	1	619			375	250	2	1339	
	350	225	1	818			425	275	2	1580	
11.0	250	150	1	480			475	325	2	1758	
	300	200	1	619		21.0	325	200	2	1091	
	350	225	1	818			375	250	2	1364	
11.5	250	150	1	494			425	275	2	1605	
	300	200	1	621			475	325	2	1798	
	350	225	1	829		21.5	325	200	2	1138	
12.0	250	150	1	498			375	250	2	1427	
	300	200	1	635			425	275	2	1670	
	350	225	1	834			475	325	2	1874	
12.5	250	150	1	508		22.0	325	200	2	1154	
	300	200	1	646			375	250	2	1427	
	350	225	1	843			425	275	2	1696	
13.0	250	150	1	516			475	325	2	1900	
	300	200	1	531		22.5	325	200	2	1209	
	350	225	1	855			375	250	2	1504	
13.5	250	150	1	516			425	275	2	1784	
	300	200	1	658			475	325	2	1976	
	350	225	1	863		23.0	325	200	2	1235	
14.0	250	150	1	516			375	250	2	1529	
	300	200	1	674			425	275	2	1810	
	350	225	1	874			475	325	2	2013	
14.5	325	200	2	755		23.5	350	200	3	1504	
	375	250	2	961			400	250	3	1747	
	425	275	2	1149			450	300	3	2052	
	475	325	2	1274			500	350	3	2511	
15.0	325	200	2	774			600	400	3	3083	
	375	250	2	975		24.0	350	200	3	1554	
	425	275	2	1151			400	250	3	1758	
	475	325	2	1274			450	300	3	2078	
15.5	325	200	2	808			500	350	3	2548	
	375	250	2	1014			600	400	3	3134	
	425	275	2	1202		24.5	350	200	3	1594	
	475	325	2	1325			400	250	3	1823	
16.0	325	200	2	808			450	300	3	2129	
	375	250	2	1014			500	350	3	2588	
	425	275	2	1202			600	400	3	3185	
	475	325	2	1325		25.0	350	200	3	1631	
16.5	325	200	2	825			400	250	3	1860	
	375	250	2	1114			450	300	3	2166	
	425	275	2	1314			500	350	3	2624	
	475	325	2	1467			600	400	3	3236	
17.0	325	200	2	857		25.5	350	200	3	1670	
	375	250	2	1114			400	250	3	1900	
	425	275	2	1314			450	300	3	2191	
	475	325	2	1467			500	350	3	2690	
17.5	325	200	2	887			600	400	3	3313	
	375	250	2	1114		26.0	350	200	3	1696	
	425	275	2	1314			400	250	3	1937	
	475	325	2	1467			450	300	3	2268	
18.0	325	200	2	936			500	350	3	2752	
	375	250	2	1186			600	400	3	3377	
	425	275	2	1402		26.5	350	200	3	1747	
	475	325	2	1554			400	250	3	1987	
18.5	325	200	2	987			450	300	3	2319	
	375	250	2	1235			500	350	3	2817	
	425	275	2	1467			600	400	3	3454	
	475	325	2	1619		27.0	350	200	3	1758	
19.0	325	200	2	989			400	250	3	2052	
	375	250	2	1239			450	300	3	2435	
	425	275	2	1467			500	350	3	2879	
	475	325	2	1631			600	400	3	3516	
19.5	325	200	2	1034		27.5	350	200	3	1835	
	375	250	2	1288			400	250	3	2103	
	425	275	2	1517			450	300	3	2435	
	475	325	2	1696			500	350	3	2945	
20.0	325	200	2	1036			600	400	3	3604	
	375	250	2	1288		28.0	350	200	3	1874	
	425	275	2	1529			400	250	3	2155	
	475	325	2	1696			450	300	3	2497	
							500	350	3	3007	
							600	400	3	3669	

Nocens Straight shank drill



Material HSS General D=1/2"					
Dimension				Price	
Edge Size	Edge Long	Overall length	MT.NO	LIST 650	SUS
13.5	74	134	424	117.5	
14	74	134	457	120	
14.5	74	134	487	135	
15	74	134	517	140	
15.5	74	134	544	150	
16	74	134	580	155	
16.5	74	134	607	167.5	
17	74	134	634	177.5	
17.5	74	134	670	190	
18	74	134	694	195	
18.5	74	134	727	205	
19	74	134	764	212.5	
19.5	74	134	801	222.5	
20	74	134	821	242.5	
20.5	74	134	851	275	
21	74	134	877	275	
21.5	74	134	904	300	
22	74	134	944	300	
22.5	74	134	981	325	
23	74	134	1007	325	
23.5	74	134	1074	350	
24	74	134	1111	350	
24.5	74	134	1151	412.5	
25	74	134	1187	412.5	
25.5	74	134	1237	440	
26	74	134	1264	440	
26.5	74	134	1418	467.5	
27	74	134	1541	522.5	
28	74	134	1681	577.5	
29	74	134	1814	605	
30	74	134			
32	74	134			

SG-ESS Drilling

NACHI



carbide drill



Material SG Drill with short length, suitable for workpiece material from carbon steel and stainless steel to aluminum

Dimension				Price
Edge Size	Edge Long	Overall length	Shank Dia	LIST 7572P
1.0	6	38	3	62
1.1	6	38	3	57
1.1	7	39	3	57
1.2	7	39	3	57
1.2	8	40	3	57
1.3	8	40	3	57
1.3	8	40	3	57
1.4	9	41	3	57
1.4	9	41	3	57
1.5	9	41	3	57
1.5	9	41	3	57
1.6	10	42	3	51
1.6	10	42	3	51
1.7	10	42	3	51
1.7	10	42	3	51
1.8	11	43	3	51
1.8	11	43	3	51
1.9	11	43	3	51
1.9	11	43	3	51
2.0	12	44	3	51
2.0	12	44	3	61
2.1	12	44	3	61
2.1	12	44	3	61
2.2	13	45	3	61
2.2	13	45	3	61
2.3	13	45	3	61
2.3	13	45	3	61
2.4	13	45	3	61
2.4	14	46	3	61
2.5	14	46	3	61
2.5	14	46	3	61
2.6	14	46	3	61
2.6	14	46	3	61
2.7	14	46	3	61
2.7	16	48	3	61
2.8	16	48	3	61
2.8	16	48	3	61
2.9	16	48	3	61
2.9	16	48	3	61
3.0	16	48	3	61
3.0	16	48	3	61
3.1	18	50	4	72
3.1	18	50	4	72
3.2	18	50	4	72
3.2	18	50	4	72
3.3	18	50	4	72
3.3	18	50	4	72
3.4	18	50	4	72
3.4	20	52	4	72
3.5	20	52	4	72
3.5	20	52	4	72
3.6	20	52	4	79
3.6	20	52	4	79
3.7	20	52	4	79
3.7	20	52	4	79
3.8	20	52	4	79
3.8	22	54	4	79
3.9	22	54	4	79
3.9	22	54	4	79
4.0	22	54	4	79
4.0	22	54	4	79
4.1	22	66	6	89
4.1	22	66	6	89
4.2	22	66	6	89
4.2	22	66	6	89
4.3	22	66	6	89
4.3	24	68	6	89
4.4	24	68	6	89
4.4	24	68	6	89
4.5	24	68	6	89
4.5	24	68	6	89
4.6	24	68	6	101
4.6	24	68	6	101

Dimension				Price
Edge Size	Edge Long	Overall length	Shank Dia	LIST 7572P
4.7	24	68	6	101
4.7	24	68	6	101
4.8	24	68	6	101
4.8	26	70	6	101
4.9	26	70	6	101
4.9	26	70	6	101
5.0	26	70	6	101
5.0	26	70	6	101
5.1	26	70	6	120
5.1	26	70	6	120
5.2	26	70	6	120
5.2	26	70	6	120
5.3	26	70	6	120
5.3	26	70	6	120
5.4	28	72	6	120
5.4	28	72	6	120
5.5	28	72	6	120
5.5	28	72	6	120
5.6	28	72	6	128
5.6	28	72	6	128
5.7	28	72	6	128
5.7	28	72	6	128
5.8	28	72	6	128
5.8	28	72	6	128
5.9	28	72	6	128
5.9	28	72	6	128
6.0	28	72	6	128
6.0	28	72	6	128
6.1	31	75	8	135
6.2	31	75	8	135
6.3	31	75	8	135
6.4	31	75	8	135
6.5	31	75	8	135
6.6	31	75	8	140
6.7	31	75	8	140
6.8	34	78	8	140
6.9	34	78	8	140
7.0	34	78	8	140
7.1	34	78	8	147
7.2	34	78	8	147
7.3	34	78	8	147
7.4	34	78	8	147
7.5	34	78	8	147
7.6	37	81	8	155
7.7	37	81	8	155
7.8	37	81	8	155
7.9	37	81	8	155
8.0	37	81	8	155
8.1	37	81	10	167
8.2	37	81	10	167
8.3	37	81	10	167
8.4	37	81	10	167
8.5	37	81	10	167
8.6	40	90	10	180
8.7	40	90	10	180
8.8	40	90	10	180
8.9	40	90	10	180
9.0	40	90	10	180
9.1	40	90	10	192
9.2	40	90	10	192
9.3	40	90	10	192
9.4	40	90	10	192
9.5	40	90	10	192
9.6	43	93	10	204
9.7	43	93	10	204
9.8	43	93	10	204
9.9	43	93	10	204
10.0	43	100	10	204
10.1	43	100	12	222
10.2	43	100	12	222
10.3	43	100	12	222
10.4	43	100	12	222
10.5	43	100	12	222

Dimension				Price
Edge Size	Edge Long	Overall length	Shank Dia	LIST 7572P
10.6	43	100	12	244
10.7	47	104	12	244
10.8	47	104	12	244
10.9	47	104	12	244
11.0	47	104	12	244
11.1	47	104	12	275
11.2	47	104	12	275
11.3	47	104	12	275
11.4	47	104	12	275
11.5	47	104	12	275
11.6	47	104	12	299
11.7	47	104	12	299
11.8	47	104	12	299
11.9	51	108	12	299
12.0	51	108	12	299
12.1	51	108	12	324
12.2	51	108	12	324
12.3	51	108	12	324
12.4	51	108	12	324
12.5	51	108	12	324
12.6	51	108	12	352
12.7	51	108	12	352
12.8	51	108	12	352
12.9	51	108	12	352
13.0	51	108	12	352
13.5	72	132	16	491
14.0	72	132	16	491
14.5	76	136	20	540
15.0	76	142	20	650
15.5	80	146	20	695
16.0	80	146	20	695
16.5	84	150	20	721
17.0	84	150	20	721
17.5	87	153	20	778
18.0	87	153	20	778
18.5	90	156	20	829
19.0	90	164	25	829
19.5	94	168	25	1025
20.0	94	168	25	1025

*** Other specifications! inquiry**

Center drill



Material HSS
Edge Size×Shank Dia×Overall length

Dimension	Price
0.4×3.0×31	110
0.5×3.0×31	86
0.6×3.5×36	77
0.8×4.0×36	59
1.0×4.0×36	49
1.2×5.0×42	45
1.5×5.0×42	37
2.0×5.0×42	37
2.5×6.0×47	43
3.0×7.7×57	52
3.2×7.7×57	52
4.0×10×69	103
5.0×11×69	111
6.0×16×90	271
8.0×18×100	425
10×18×100	425

Type	Price	Type	Price
1.0~2.0	17	7.6~8.1	150
2.1~2.5	22	8.2~8.5	185
2.6~3.0	27	8.6~9.0	195
3.6~4.0	40	9.1~9.5	234
4.1~4.5	74	9.6~10.0	280
4.6~5.0	80	10.1~10.5	300
5.1~5.5	88	10.6~11.0	320
5.6~6.0	94	11.1~11.5	360
6.1~6.5	100	11.6~12.0	400
6.6~7.0	120	12.1~12.5	456
7.1~7.5	140	12.6~13.0	480

Tungsten steel drill, drill point center



Material F490 Tungsten steel drill

Dimension				Price
Edge Size	Edge Long	Shank Dia	Overall length	Price
Φ1.0	2.4	4	38	64
Φ1.5	2.4	4	38	64
Φ2.0	2.9	4	50	64
Φ2.0	2.9	6	50	110
Φ2.5	3.1	6	50	110
Φ3.0	3.9	6	50	110
Φ3.0	3.9	8	50	160
Φ4.0	5.0	10	65	250
Φ5.0	6.3	12	60	310

drill point center				
Edge Long	Tip angle	Shank Dia	Overall length	Price
3	90/135°	Φ3	50	34
4	90/135°	Φ4	55	44
5	90/135°	Φ5	60	60
6	90/135°	Φ6	65	84
8	90/135°	Φ8	80	154
10	90/135°	Φ10	90	234
12	90/135°	Φ12	100	350

Carbide Center drill



Material Carbide General

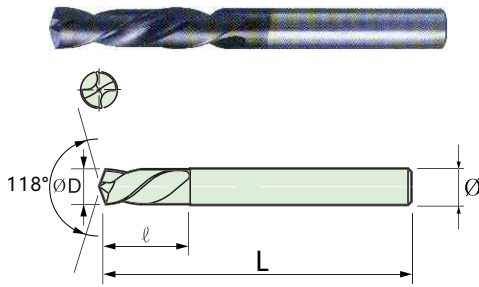
Ti specifications

Dimension		Price
CDA0010		313
CDA0015		367
CDA0020		413
CDA0025		533
CDA0030		533
CDA0040		720
CDA0050		987

No ti specifications

Type	Edge Size	Edge Long	Overall length	Shank Dia	Price
CDA-010	1.0	1.3	40	4.0	260
CDA-015	1.5	1.9	40	5.0	300
CDA-020	2.0	2.6	45	6.0	340
CDA-025	2.5	3.2	60	8.0	440
CDA-030	3.0	3.9	60	8.0	440
CDA-040	4.0	5.8	70	10.0	600
CDA-050	5.0	7.1	75	12.0	820

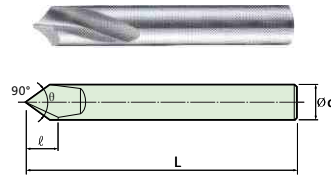
Carbide drill



d	Overall length L	Edge Long l	Price
1.0	34	12	12
1.1	36	12	12
1.2-1.3	38	16	
1.4-1.5	40	18	
1.6-1.7	43	20	
1.8-1.9	46	22	
2.0	49	24	
2.1	49	24	
2.2-2.3	53	27	
2.4-2.5	57	30	
2.6	57	30	
2.7-3.0	61	33	
3.1-3.3	65	36	
3.4-3.5	70	39	
3.6-3.7	70	39	
3.8-4.0	75	43	
4.1-4.2	75	43	
4.3-4.5	80	47	
4.6-4.7	80	47	
4.8-5.0	86	52	
5.1-5.3	86	52	
5.4-5.5	93	57	
5.6-6.0	93	57	
6.1-6.5	101	63	
6.6-6.7	101	63	
6.8-7.0	109	69	
7.1-7.5	109	69	
7.6-8.0	117	75	
8.1-8.5	117	75	
8.6-9.0	125	81	
9.1-9.5	125	81	
9.6-10.0	133	87	
10.1-10.5	133	87	
10.6	133	87	
10.7-11.0	142	94	
11.1-11.6	142	94	
11.6-11.8	142	94	
11.9-12.0	151	101	
12.1-12.5	151	101	
12.6-13.0	151	101	

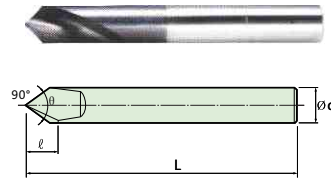
■ For NC processing, can process cast steel, cast iron, chilled cast steel, malleable iron, wear-resistant plastic and other difficult to cut materials. For high-speed feed, high-speed cutting, the use of long life, fast shorten the processing time and enhance efficiency.

90° tungsten steel drill bit fixed-point NC



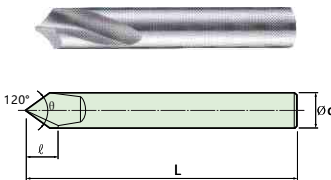
Order Number	Cat.No	Dimension			Price
		d	Overall length L	Edge Long l	
541100	WP-17C-3	3	45	10	WP-17
541102	WP-17C-4	4	50	12	
541104	WP-17C-5	5	50	15	
541106	WP-17C-6	6	60	20	
541108	8	8	60	25	
541110	10	10	75	25	
541112	12	12	75	30	
541114	16	16	16	35	

90° W-Ti-coated steel drill bit fixed-point NC



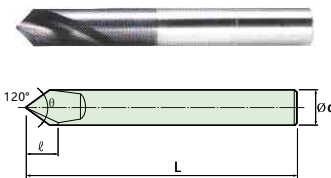
Order Number	Cat.No	Dimension			Price
		d	Overall length L	Edge Long l	
541200	WP-17C-3	3	45	10	WP-17
541202	WP-17C-4	4	50	12	
541204	WP-17C-5	5	50	15	
541206	WP-17C-6	6	60	20	
541208	8	8	60	25	
541210	10	10	75	25	
541212	12	12	75	30	
541214	16	16	16	35	

120° tungsten steel drill bit fixed-point NC



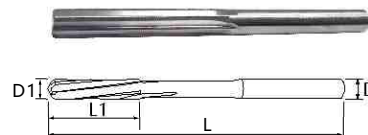
Order Number	Cat.No	Dimension			Price
		d	Overall length L	Edge Long l	
541300	WP-17C-3	3	45	10	WP-17
541302	WP-17C-4	4	50	12	
541304	WP-17C-5	5	50	15	
541306	WP-17C-6	6	60	20	
541308	8	8	60	25	
541310	10	10	75	25	
541312	12	12	75	30	
541314	16	16	16	35	

120° W-Ti-coated steel drill bit fixed-point NC



Order Number	Cat.No	Dimension			Price
		d	Overall length L	Edge Long l	
541400	WP-17C-3	3	45	10	
541402	WP-17C-4	4	50	12	
541404	WP-17C-5	5	50	15	
541406	WP-17C-6	6	60	20	
541408	8	8	60	25	
541410	10	10	75	25	
541412	12	12	75	30	
541414	16	16	16	35	

Tungsten steel mechanical reamer

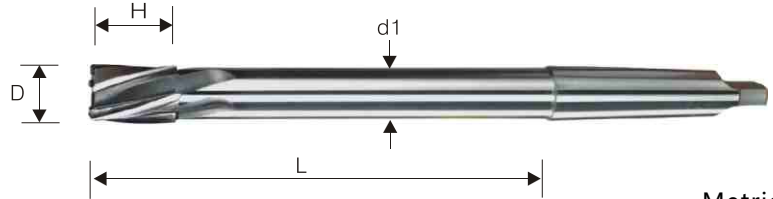


D1 Diameter	L1 Flute Length	L Overall Length	D Shank Diameter	Flute Number	Price
1.0~1.5	9	50	1	3	
1.51~2.0	11	50	1.5	4	
2.01~2.5	14	60	2	4	
2.51~3.0	15	60	2.5	4	
3.01~3.5	15	65	3	4	
3.51~4.0	19	75	3.5	4	
4.01~4.5	21	80	4	6	
4.51~5.0	23	86	4.5	6	
5.01~5.5	26	93	5	6	
5.51~6.0	26	93	5	6	
6.01~6.5	26	93	6	6	
6.51~7.0	31	110	6	6	
7.01~7.5	31	110	6	6	
7.51~8.0	33	110	6	6	
8.01~8.5	33	117	8	6	
8.51~9.0	33	125	8	6	
9.01~9.5	38	135	8	6	
9.51~10.0	38	135	8	6	
10.01~10.5	41	145	10	6	
10.51~11.00	41	145	10	6	
11.01~11.5	45	145	12	6	
11.51~12.00	45	145	12	6	
13~16	52	170	16	8	
17~20	60	200	20	8	

■ For less than HRC55 steel, stainless steel, titanium, cast iron and other hard Twisted hole cut materials.

SWRMT

Spiral welding blade type ultrafine tungsten steel- Mechanical - Morse taper shank reamer



Metric

Order Number	Type	Dimension Size(mm)						Price
		D(H7)	Edge Long H	L	d ₁	MT	T	
551100	SWRMT-12	12	20	150	11	2#	4	390
551102	SWRMT-14	14	20	150	13	2#	4	410
551104	SWRMT-15	15	25	150	14	3#	4	465
551106	SWRMT-16	16	25	150	15	3#	4	465
551108	SWRMT-17	17	25	150	16	3#	4	510
551110	SWRMT-18	18	35	200	17	3#	5	715
551112	SWRMT-19	19	35	200	18	3#	5	730
551114	SWRMT-20	20	35	200	19	3#	5	735
551116	SWRMT-22	22	35	200	20	3#	5	830
551118	SWRMT-23	23	35	200	21	3#	5	835
551120	SWRMT-24	24	35	200	22	3#	5	865
551122	SWRMT-25	25	35	200	22	3#	5	840
551124	SWRMT-28	28	35	230	25	4#	6	1160
551126	SWRMT-30	30	35	230	26	4#	6	1195
551128	SWRMT-32	32	35	230	28	4#	6	1245
551130	SWRMT-35	35	35	230	31	4#	6	1360
551132	SWRMT-40	40	40	260	34	4#	6	1650
551134	SWRMT-42	42	40	260	36	4#	6	1810
551136	SWRMT-45	45	40	260	38	4#5#	6	2020
551138	SWRMT-50	50	50	300	44	4#5#	6	2520
551140	SWRMT-55	55	50	300	46	4#5#	8	3070
551142	SWRMT-60	60	50	300	50	4#5#	8	3300

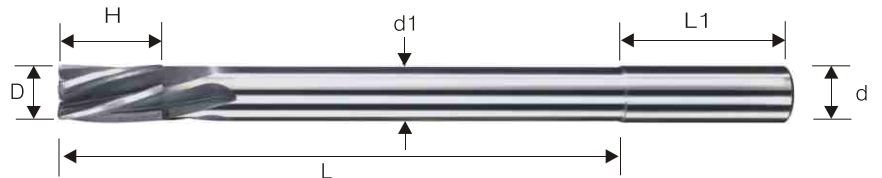
SWRIMT

Spiral welding blade type ultrafine tungsten steel - Mechanical - Morse taper shank reamer

Inch

Order Number	Type	Dimension Size(mm)						Price
		D(H7)	Edge Long H	L	d ₁	MT	T	
551200	SWRIMT-1/2"	1/2"	20	150	12	2#	4	410
551202	SWRIMT-5/8"	5/8"	25	150	15	3#	4	465
551204	SWRIMT-3/4"	3/4"	35	200	18	3#	5	735
551206	SWRIMT-7/8"	7/8"	35	200	20	3#	5	865
551208	SWRIMT-1"	1"	35	200	22	3#	5	1160
551210	SWRIMT-1"1/8	1"1/8	35	230	25	4#	6	1195
551212	SWRIMT-1"1/4	1"1/4	35	230	28	4#	6	1245
551214	SWRIMT-1"3/8	1"3/8	35	230	31	4#	6	1360
551216	SWRIMT-1"1/2	1"1/2	35	260	34	4#	6	1650
551218	SWRIMT-1"5/8	1"5/8	40	260	36	4#	6	1810
551220	SWRIMT-1"3/4	1"3/4	40	260	38	4#	6	2020
551222	SWRIMT-1"7/8	1"7/8	40	260	40	4#	6	2520
551224	SWRIMT-2"	2"	50	300	44	4#	6	3070

SWRM



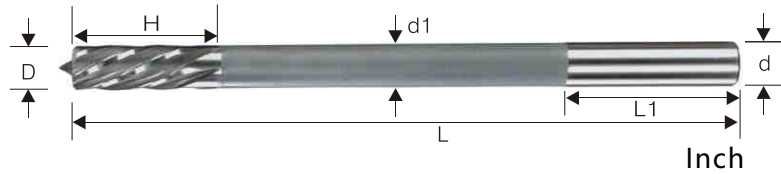
Spiral welding blade type ultrafine tungsten steel - Mechanical - straight shank reamer

Order Number	Type	Dimension Size(mm)							Price
		D(H7)	Edge Long H	L	d ₁	d(h7)	L ₁	T	
551300	SWRM-12	12	20	120	11	12	50	4	270
551302	SWRM-14	14	20	150	13	16	60	4	305
551304	SWRM-15	15	20	150	14	16	60	4	315
551306	SWRM-16	16	25	150	15	16	60	4	340
551308	SWRM-20	20	35	200	19	20	60	5	550
551310	SWRM-25	25	35	200	20	20	60	5	630

Welding Type Reamer

SWRI

Butt type ultrafine tungsten steel head
- Mechanical - straight shank reamer



Order Number	Type	Dimension Size(mm)							Price
		D(H7)	Edge Long H	d ₁	L ₁	d(h7)	Overall length L	T	
551400	SWRI-1/8"	1/8"	20	3	35	3	75	4	
551402	SWRI-3/16"	3/16"	20	4.4	35	4	75	4	
551404	SWRI-1/4"	1/4"	30	6	40	6	130	4	
551406	SWRI-5/16"	5/16"	30	7.5	40	8	130	5	
551408	SWRI-3/8"	3/8"	30	9.3	40	10	130	5	
551410	SWRI-7/16"	7/16"	30	10.8	40	12	130	6	
551412	SWRI-1/2"	1/2"	30	12	40	12	130	6	

SWM

Welding blade type ultrafine tungsten steel equal
- Mechanical - straight shank reamer



Order Number	Type	Dimension Size(mm)						Price
		D(H7)	Edge Long H	L ₁	d(h7)	Overall length L	T	
551500	SWM-6	6	26	32	6	93	6T	
551502	SWM-7	7	31	36	7	109	6T	
551504	SWM-8	8	33	42	8	117	6T	
551506	SWM-9	9	36	42	9	125	6T	
551508	SWM-10	10	38	45	10	133	6T	
551510	SWM-11	11	41	48	10	142	6T	
551512	SWM-12	12	44	50	10	151	6T	
551514	SWM-13	13	44	50	10	151	6T	
551516	SWM-14	14	47	53	12.5	160	6T	
551518	SWM-15	15	50	55	12.5	162	6T	
551520	SWM-16	16	52	58	12.5	170	6T	
551522	SWM-17	17	54	62	14	175	6T	
551524	SWM-18	18	56	64	14	182	6T	
551526	SWM-19	19	58	66	16	189	6T	
551528	SWM-20	20	60	68	16	195	6T	

SWMT

Welding blade type ultrafine tungsten steel with non-uniform mechanical
- Morse taper shank reamer



Order Number	Type	Dimension Size(mm)					Price
		D(H7)	Edge Long H	Overall length L	MT	T	
551600	SWMT-10	10	38	168	1#	6	
551602	SWMT-11	11	41	175	1#	6	
551604	SWMT-12	12	44	182	1#	6	
551606	SWMT-13	13	44	182	1#	6	
551608	SWMT-14	14	47	189	1#	6	
551610	SWMT-15	15	50	204	2#	6	
551612	SWMT-16	16	52	210	2#	6	
551614	SWMT-17	17	54	214	2#	6	
551616	SWMT-18	18	56	219	2#	6	
551618	SWMT-19	19	58	223	2#	6	
551620	SWMT-20	20	60	228	2#	6	
551622	SWMT-22	22	64	237	2#	6	
551624	SWMT-24	24	68	268	2#	8	
551626	SWMT-25	25	68	268	2#	8	
551628	SWMT-26	26	70	273	3#	8	
551630	SWMT-27	27	71	277	3#	8	
551632	SWMT-28	28	71	277	3#	8	
551634	SWMT-30	30	73	281	3#	8	
551636	SWMT-32	32	77	317	4#	8	
551638	SWMT-35	35	78	321	4#	8	
551640	SWMT-36	36	79	325	4#	8	
551642	SWMT-38	38	81	329	4#	8	
551644	SWMT-40	40	81	329	4#	8	