SUHETECH
CHONGQING TITAN SUHE TECH CO. LTD
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HSS STRAIGHT SHANK TWIST DRILL BITS

■ Production Process

Roll Forging	
Roll Forging & Polished (Edge Ground)	
Fully Ground	

■ Surface Finishing (Color)

Black	
Bright	
Amber (Cobalt)	
Titanium Coating	
Black & Amber	

■ HSS Material Grade

HSS	Grade	Chemical Composition (%)					Hardness
		W	Mo	Cr	V	Co	
HSS	4241	1.5-2.5	0.6-1.2	3.8-4.4	0.5-0.7	-	60-61.5HRC
	4341	3.5-4.5	2.5-3.5	3.8-4.4	1.2-1.8	-	61-63HRC
	6542(M2)	5.5-6.75	4.5-5.5	3.8-4.4	1.75-2.2	-	63-66HRC
HSS-E Co5	M35	6-6.7	4.7-5.2	3.8-4.5	1.7-2	4.5-5.5	66-68HRC
HSS-E Co8	M42	1.15-1.85	9-10	3.5-4.25	0.95-1.35	7.75-8.75	66-68HRC

■ Point Degree

118 Degree Point



135 Degree Split Point



■ Shank Type

Straight Shank	
Reduced Shank Reduced to 10/13mm or 3/8”, 1/2”	
1/2” Shank Sliver & Deming	
1/4” Quick Change Hex Shank	
Three Flat Shank	

■ Drill Bits Set

13PCS Set	19PCS Set	21PCS Set
		
25PCS Set	**99PCS Set**	**170PCS Set**
		

*Other customized drill bits sets are available.
*Other box colors are avaiable.
*Other customized boxes are available.
*Other standard drill bits sets are available.

■ Metric Sizes Set

Metric Sizes Set Combination (pcs)								
Sizes	10pcs set	13pcs set	13pcs set	19pcs set	25pcs set	99pcs set	120pcs set	170pcs set
1.0mm	1			1	1		20	10
1.5mm		1		1	1	16	20	10
2.0mm	1	1	1	1	1	16	15	10
2.5mm		1	1	1	1	15	15	10
3.0mm	1	1	1	1	1	10	10	10
3.2mm		1				10		
3.5mm		1	1	1	1	8	6	10
4.0mm	1	1	1	1	1	8	6	10
4.5mm		1	1	1	1	3	5	10
4.8mm		1						
5.0mm	1	1	1	1	1	3	5	10
5.5mm		1	1	1	1	2	5	10
6.0mm	1	1	1	1	1	2	5	10
6.5mm		1	1	1	1	2	4	10
7.0mm	1		1	1	1			10
7.5mm			1	1	1			10
8.0mm	1		1	1	1	2	3	10
8.5mm				1	1			5
9.0mm	1			1	1			5
9.5mm				1	1			5
10.0mm	1			1	1	2	1	5
10.5mm					1			
11.0mm					1			
11.5mm					1			
12.0mm					1			
12.5mm					1			
13.0mm					1			

■ Inch Sizes Set

Inch Sizes Set Combination (pcs)							
Sizes	13pcs set	21pcs set	29pcs set	Sizes	13pcs set	21pcs set	29pcs set
1/16	1	1	1	19/64		1	1
5/64	1	1	1	5/16		1	1
3/32	1	1	1	21/64		1	1
7/64	1	1	1	11/32		1	1
1/8	1	1	1	23/64		1	1
9/64	1	1	1	3/8		1	1
5/32	1	1	1	25/64			1
11/64	1	1	1	13/32			1
3/16	1	1	1	27/64			1
13/64	1	1	1	7/16			1
7/32	1	1	1	29/64			1
15/64	1	1	1	15/32			1
1/4	1	1	1	31/64			1
17/64		1	1	1/2			1
9/32		1	1				

■ DIN 338 Standard

Diameter (mm)	Flute Length (mm)	Overall Length (mm)	Diameter (mm)	Flute Length (mm)	Overall Length (mm)
0.50	6	22	**4.50**	47	80
0.60	7	24	**4.60**	47	80
0.70	9	28	**4.70**	47	80
0.80	10	30	**4.80**	52	86
0.90	11	32	**4.90**	52	86
1.00	12	34	**5.00**	52	86
1.10	14	38	**5.10**	52	86
1.20	16	38	**5.20**	52	86
1.30	18	40	**5.30**	52	86
1.40	18	40	**5.40**	57	93
1.50	20	43	**5.50**	57	93
1.60	20	43	**5.60**	57	93
1.70	22	46	**5.70**	57	93
1.80	22	46	**5.80**	57	93
1.90	24	46	**5.90**	57	93
2.00	24	49	**6.00**	57	93
2.10	24	49	**6.10**	63	101
2.20	27	53	**6.20**	63	101
2.30	27	53	**6.30**	63	101
2.40	30	57	**6.40**	63	101
2.50	30	57	**6.50**	63	101
2.60	30	57	**6.60**	63	101
2.70	33	61	**6.70**	63	101
2.80	33	61	**6.80**	69	109
2.90	33	61	**6.90**	69	109
3.00	33	61	**7.00**	69	109
3.10	36	65	**7.10**	69	109
3.20	36	65	**7.20**	69	109
3.30	36	65	**7.30**	69	109
3.40	39	70	**7.40**	69	109
3.50	39	70	**7.50**	69	109
3.60	39	70	**7.60**	75	117
3.70	39	70	**7.70**	75	117
3.80	43	75	**7.80**	75	117
3.90	43	75	**7.90**	75	117
4.00	43	75	**8.00**	75	117
4.10	43	75	**8.10**	75	117
4.20	43	75	**8.20**	75	117
4.30	47	80	**8.30**	75	117
4.40	47	80	**8.40**	75	117

■ DIN 338 Standard

Diameter (mm)	Flute Length (mm)	Overall Length (mm)	Diameter (mm)	Flute Length (mm)	Overall Length (mm)
8.50	75	117	**12.40**	101	151
8.60	81	125	**12.50**	101	151
8.70	81	125	**12.80**	101	151
8.80	81	125	**12.90**	101	151
8.90	81	125	**13.00**	101	151
9.00	81	125	**13.10**	101	151
9.10	81	125	**13.20**	101	151
9.20	81	125	**13.30**	108	160
9.30	81	125	**13.40**	108	160
9.40	81	125	**13.50**	108	160
9.50	81	125	**13.60**	108	160
9.60	81	125	**13.70**	108	160
9.70	87	133	**13.80**	108	160
9.80	87	133	**13.90**	108	160
9.90	87	133	**14.00**	108	160
10.00	87	133	**14.25**	114	169
10.10	87	133	**14.50**	114	169
10.20	87	133	**14.75**	114	169
10.30	87	133	**15.00**	114	169
10.40	87	133	**15.25**	120	178
10.50	87	133	**15.50**	120	178
10.60	87	133	**15.75**	120	178
10.70	94	142	**16.00**	120	178
10.80	94	142	**16.25**	125	184
10.90	94	142	**16.50**	125	184
11.00	94	142	**16.75**	125	184
11.10	94	142	**17.00**	125	184
11.20	94	142	**17.25**	130	191
11.30	94	142	**17.50**	130	191
11.40	94	142	**17.75**	130	191
11.50	94	142	**18.00**	130	191
11.60	94	142	**18.25**	135	198
11.70	94	142	**18.50**	135	198
11.80	94	142	**18.75**	135	198
11.90	101	151	**19.00**	135	198
12.00	101	151	**19.25**	140	205
12.10	101	151	**19.50**	140	205
12.20	101	151	**19.75**	140	205
12.30	101	151	**20.00**	140	205

■ DIN 338 Standard Inch

Diameter (Inch)	Flute Length (mm)	Overall Length (mm)	Diameter (Inch)	Flute Length (mm)	Overall Length (mm)
1/64	5	20	**21/64**	75	117
1/32	10	30	**11/32**	81	125
3/64	16	38	**23/64**	81	125
1/16	20	43	**3/8**	81	125
5/64	24	49	**13/32**	87	133
3/32	30	57	**27/64**	94	142
7/64	33	61	**7/16**	94	142
1/8	36	65	**29/64**	94	142
9/64	39	70	**15/32**	101	151
5/32	43	75	**31/64**	101	151
11/16	47	80	**1/2**	101	151
3/16	52	86	**33/64**	101	151
13/64	52	86	**17/32**	108	160
7/32	57	93	**35/64**	108	160
15/64	57	93	**9/16**	114	169
1/4	63	101	**37/64**	114	169
17/64	69	109	**19/32**	120	178
9/32	69	109	**39/64**	120	178
19/64	75	117	**5/8**	120	178
5/16	75	117			



■ DIN 340 Standard

Diameter (mm)	Flute Length (mm)	Overall Length (mm)	Diameter (mm)	Flute Length (mm)	Overall Length (mm)
1	33	56	**4.9**	87	132
1.1	37	60	**5**	87	132
1.2	41	65	**5.1**	87	132
1.3	41	65	**5.2**	87	132
1.4	45	70	**5.3**	87	132
1.5	45	70	**5.4**	91	139
1.6	50	76	**5.5**	91	139
1.7	50	76	**5.6**	91	139
1.8	53	80	**5.7**	91	139
1.9	53	80	**5.8**	91	139
2	56	85	**5.9**	91	139
2.1	56	85	**6**	97	148
2.2	56	90	**6.1**	97	148
2.3	62	90	**6.2**	97	148
2.4	62	95	**6.3**	97	148
2.5	62	95	**6.4**	97	148
2.6	62	95	**6.5**	97	148
2.7	66	100	**6.6**	97	148
2.8	66	100	**6.7**	97	148
2.9	66	100	**6.8**	102	156
3	66	100	**6.9**	102	156
3.1	69	106	**7**	102	156
3.2	69	106	**7.1**	102	156
3.3	69	106	**7.2**	102	156
3.4	73	110	**7.3**	102	156
3.5	73	110	**7.4**	102	156
3.6	73	110	**7.5**	102	156
3.7	73	110	**7.6**	109	165
3.8	78	119	**7.7**	109	165
3.9	78	119	**7.8**	109	165
4	78	119	**7.9**	109	165
4.1	78	119	**8**	109	165
4.2	78	119	**8.1**	109	165
4.3	82	126	**8.2**	109	165
4.4	82	126	**8.3**	109	165
4.5	82	126	**8.4**	109	165
4.6	82	126	**8.5**	109	165
4.7	82	126	**8.6**	115	175
4.8	87	132	**8.7**	115	175

■ DIN 340 Standard

Diameter (mm)	Flute Length (mm)	Overall Length (mm)	Diameter (mm)	Flute Length (mm)	Overall Length (mm)
8.8	115	175	**12.7**	134	205
8.9	115	175	**12.8**	134	205
9	115	175	**12.9**	134	205
9.1	115	175	**13**	134	205
9.2	115	175	**13.1**	134	205
9.3	115	175	**13.2**	134	205
9.4	115	175	**13.3**	140	214
9.5	115	175	**13.4**	140	214
9.6	121	184	**13.5**	140	214
9.7	121	184	**13.6**	140	214
9.8	121	184	**13.7**	140	214
9.9	121	184	**13.8**	140	214
10	121	184	**13.9**	140	214
10.1	121	184	**14**	140	214
10.2	121	184	**14.25**	144	220
10.3	121	184	**14.5**	144	220
10.4	121	184	**14.75**	144	220
10.5	121	184	**15**	144	220
10.6	121	184	**15.25**	149	227
10.7	128	195	**15.5**	149	227
10.8	128	195	**15.75**	149	227
10.9	128	195	**16**	149	227
11	128	195	**16.25**	154	235
11.1	128	195	**16.5**	154	235
11.2	128	195	**16.75**	154	235
11.3	128	195	**17**	154	235
11.4	128	195	**17.25**	158	241
11.5	128	195	**17.5**	158	241
11.6	128	195	**17.75**	158	241
11.7	128	195	**18**	158	241
11.8	128	195	**18.25**	162	247
11.9	134	205	**18.5**	162	247
12	134	205	**18.75**	162	247
12.1	134	205	**19**	162	247
12.2	134	205	**19.25**	166	254
12.3	134	205	**19.5**	166	254
12.4	134	205	**19.75**	166	254
12.5	134	205	**20**	166	254
12.6	134	205			

■ Jobber Length

Diameter (Inch)	Flute Length (Inch)	Overall Length (Inch)	Diameter (Inch)	Flute Length (Inch)	Overall Length (Inch)
1/64	3/16	3/4	**21/64**	3-5/16	4-5/8
1/32	1/2	1-3/8	**13/32**	3-7/16	4-3/4
3/64	3/4	1-3/4	**27/64**	3-1/2	4-7/8
1/16	7/8	1-7/8	**3/8**	3-5/8	5
5/64	1	2	**25/64**	3-3/4	5-1/8
3/32	1-1/4	2-1/4	**13/32**	3-7/8	5-1/4
7/64	1-1/2	2-5/8	**27/64**	3-15/16	5-3/8
1/8	1-5/8	2-3/4	**7/16**	4-1/16	5-1/2
9/64	1-3/4	2-7/8	**29/64**	4-3/16	5-5/8
5/32	2	3-1/8	**15/32**	4-5/16	5-3/4
11/64	2-1/8	3-1/4	**31/64**	4-3/8	5-7/8
3/16	2-5/16	3-1/2	**1/2**	4-1/2	6
13/64	2-7/16	3-5/8	**33/64**	4-13/16	6-5/8
7/32	2-1/2	3-3/4	**17/32**	4-13/16	6-5/8
15/64	2-5/8	3-7/8	**35/64**	4-13/16	6-5/8
1/4	2-3/4	4	**9/16**	4-13/16	6-5/8
17/64	2-7/8	4-1/8	**37/64**	4-13/16	6-5/8
9/32	2-15/16	4-1/4	**19/32**	5-3/16	7-1/8
19/64	3-1/16	4-3/8	**39/64**	5-3/16	7-1/8
5/16	3-3/16	4-1/2	**5/8**	5-3/16	7-1/8

■ Jobber Length Letter

Letter	Flute Length (Inch)	Overall Length (Inch)	Letter	Flute Length (Inch)	Overall Length (Inch)
A	2-5/8	3-7/8	**N**	3-1/16	4-3/8
B	2-3/4	4	**O**	3-1/16	4-1/2
C	2-3/4	4	**P**	3-5/16	4-5/8
D	2-3/4	4	**Q**	3-7/16	4-3/4
E	2-3/4	4	**R**	3-7/16	4-3/4
F	2-7/8	4-1/8	**S**	3-1/2	4-7/8
G	2-7/8	4-1/8	**T**	3-1/2	4-7/8
H	2-7/8	4-1/8	**U**	3-5/8	5
I	2-7/8	4-1/8	**V**	3-5/8	5
J	2-7/8	4-1/8	**W**	3-3/4	5-1/8
K	2-15/16	4-1/4	**X**	3-3/4	5-1/8
L	2-15/16	4-1/4	**Y**	3-7/8	5-1/4
M	3-1/16	4-3/8	**Z**	3-7/8	5-1/4

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■ Jobber Length Number

Number	Flute Length (Inch)	Overall Length (Inch)	Number	Flute Length (Inch)	Overall Length (Inch)
1#	2-5/8	3-7/8	**41#**	1-3/8	2-3/8
2#	2-5/8	3-7/8	**42#**	1-1/4	2-1/4
3#	2-1/2	3-3/4	**43#**	1-1/4	2-1/4
4#	2-1/2	3-3/4	**44#**	1-1/8	2-1/8
5#	2-1/2	3-3/4	**45#**	1-1/8	2-1/8
6#	2-1/2	3-3/4	**46#**	1-1/8	2-1/8
7#	2-7/16	3-5/8	**47#**	1	2
8#	2-7/16	3-5/8	**48#**	1	2
9#	2-7/16	3-5/8	**49#**	1	2
10#	2-7/16	3-5/8	**50#**	1	2
11#	2-5/16	3-1/2	**51#**	1	2
12#	2-5/16	3-1/2	**52#**	7/8	1-7/8
13#	2-5/16	3-1/2	**53#**	7/8	1-7/8
14#	2-3/16	3-3/8	**54#**	7/8	1-7/8
15#	2-3/16	3-3/8	**55#**	7/8	1-7/8
16#	2-3/16	3-3/8	**56#**	3/4	1-3/4
17#	2-3/16	3-3/8	**57#**	3/4	1-3/4
18#	2-1/8	3-1/4	**58#**	11/16	1-5/8
19#	2-1/8	3-1/4	**59#**	11/16	1-5/8
20#	2-1/8	3-1/4	**60#**	11/16	1-5/8
21#	2-1/8	3-1/4	**61#**	11/16	1-5/8
22#	2	3-1/8	**62#**	5/8	1-1/2
23#	2	3-1/8	**63#**	5/8	1-1/2
24#	2	3-1/8	**64#**	5/8	1-1/2
25#	1-7/8	3	**65#**	5/8	1-1/2
26#	1-7/8	3	**66#**	1/2	1-3/8
27#	1-7/8	3	**67#**	1/2	1-3/8
28#	1-3/4	2-7/8	**68#**	1/2	1-3/8
29#	1-3/4	2-7/8	**69#**	1/2	1-3/8
30#	1-5/8	2-3/4	**70#**	3/8	1-1/4
31#	1-5/8	2-3/4	**71#**	3/8	1-1/4
32#	1-5/8	2-3/4	**72#**	5/16	1-1/8
33#	1-1/2	2-5/8	**73#**	5/16	1-1/8
34#	1-1/2	2-5/8	**74#**	1/4	1
35#	1-1/2	2-5/8	**75#**	1/4	1
36#	1-7/16	2-1/2	**76#**	3/16	7/8
37#	1-7/16	2-1/2	**77#**	3/16	7/8
38#	1-7/16	2-1/2	**78#**	3/16	7/8
39#	1-3/8	2-3/8	**79#**	1/8	3/4
40#	1-3/8	2-3/8	**80#**	1/8	3/4

■ Jobber Length Metric

Diameter (mm)	Flute Length (mm)	Overall Length (mm)	Diameter (mm)	Flute Length (mm)	Overall Length (mm)
1	17	41	**6.5**	73	105
1.2	22	48	**6.9**	73	105
1.5	22	48	**7**	73	105
2	25	51	**7.2**	75	108
2.5	35	60	**7.5**	78	11
3	41	70	**8**	81	114
3.3	44	73	**8.3**	84	117
3.5	44	73	**8.5**	87	121
4	54	83	**9**	89	124
4.2	54	83	**10**	95	130
4.5	56	86	**10.5**	98	133
5	62	92	**11**	103	140
5.1	62	92	**11.5**	106	143
5.3	64	95	**12**	111	149
5.5	64	95	**12.5**	114	152
6	70	102	**13**	114	152



■ DIN 1897

Diameter (mm)	Flute Length (mm)	Overall Length (mm)	Diameter (mm)	Flute Length (mm)	Overall Length (mm)
1	6	26	**4.9**	26	62
1.1	7	28	**5**	26	62
1.2	8	30	**5.1**	26	62
1.3	8	30	**5.2**	26	62
1.4	9	32	**5.3**	28	66
1.5	9	32	**5.4**	28	66
1.6	10	34	**5.5**	28	66
1.7	10	34	**5.6**	28	66
1.8	11	36	**5.7**	28	66
1.9	11	36	**5.8**	28	66
2	12	38	**5.9**	28	66
2.1	12	38	**6**	28	66
2.2	13	40	**6.1**	31	70
2.3	13	40	**6.2**	31	70
2.4	14	43	**6.3**	31	70
2.5	14	43	**6.4**	31	70
2.6	14	43	**6.5**	31	70
2.7	16	46	**6.6**	31	70
2.8	16	46	**6.7**	31	70
2.9	16	46	**6.8**	34	74
3	16	46	**6.9**	34	74
3.1	18	49	**7**	34	74
3.2	18	49	**7.1**	34	74
3.3	18	49	**7.2**	34	74
3.4	20	52	**7.3**	34	74
3.5	20	52	**7.4**	34	74
3.6	20	52	**7.5**	34	74
3.7	20	52	**7.6**	37	79
3.8	22	55	**7.7**	37	79
3.9	22	55	**7.8**	37	79
4	22	55	**7.9**	37	79
4.1	22	55	**8**	37	79
4.2	22	55	**8.1**	37	79
4.3	24	58	**8.2**	37	79
4.4	24	58	**8.3**	37	79
4.5	24	58	**8.4**	37	79
4.6	24	58	**8.5**	37	79
4.7	24	58	**8.6**	40	84
4.8	26	62	**8.7**	40	84

■ DIN 1897

Diameter (mm)	Flute Length (mm)	Overall Length (mm)	Diameter (mm)	Flute Length (mm)	Overall Length (mm)
8.8	40	84	**12.7**	51	102
8.9	40	84	**12.8**	51	102
9	40	84	**12.9**	51	102
9.1	40	84	**13**	51	102
9.2	40	84	**13.1**	51	102
9.3	40	84	**13.2**	51	102
9.4	40	84	**13.3**	54	107
9.5	40	84	**13.4**	54	107
9.6	43	89	**13.5**	54	107
9.7	43	89	**13.6**	54	107
9.8	43	89	**13.7**	54	107
9.9	43	89	**13.8**	54	107
10	43	89	**13.9**	54	107
10.1	43	89	**14**	54	107
10.2	43	89	**14.25**	56	111
10.3	43	89	**14.5**	56	111
10.4	43	89	**14.75**	56	111
10.5	43	89	**15**	56	111
10.6	43	89	**15.25**	58	115
10.7	47	95	**15.5**	58	115
10.8	47	95	**15.75**	58	115
10.9	47	95	**16**	58	115
11	47	95	**16.25**	58	119
11.1	47	95	**16.5**	58	119
11.2	47	95	**16.75**	58	119
11.3	47	95	**17**	58	119
11.4	47	95	**17.25**	62	123
11.5	47	95	**17.5**	62	123
11.6	47	95	**17.75**	62	123
11.7	47	95	**18**	62	123
11.8	47	95	**18.25**	62	127
11.9	51	102	**18.5**	62	127
12	51	102	**18.75**	62	127
12.1	51	102	**19**	62	127
12.2	51	102	**19.25**	66	131
12.3	51	102	**19.5**	66	131
12.4	51	102	**19.75**	66	131
12.5	51	102	**20**	66	131
12.6	51	102			