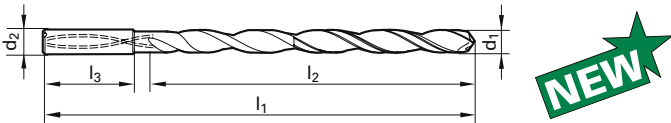


**HARTNER****TS 100 T - Spiral-Flute Deep Hole Drills 15 x D**

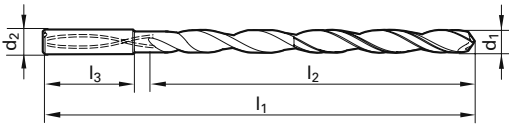
						86509
						Solid carbide
						165
						
						HA
						
d1h7	d1h7	d2h6	l1	l2	l3	Availability
inch	mm	mm	mm	mm	mm	
13/64	3,000	6,000	95,00	55,00	36,00	●
1/8	3,170	6,000	106,00	67,00	36,00	●
	3,500	6,000	116,00	76,00	36,00	●
9/64	3,570	6,000	116,00	76,00	36,00	●
5/32	3,970	6,000	116,00	76,00	36,00	●
	4,000	6,000	116,00	76,00	36,00	●
11/64	4,370	6,000	133,00	93,00	36,00	●
	4,500	6,000	133,00	93,00	36,00	●
3/16	4,760	6,000	133,00	93,00	36,00	●
	5,000	6,000	133,00	93,00	36,00	●
	5,100	6,000	150,00	110,00	36,00	●
13/64	5,160	6,000	150,00	110,00	36,00	●
	5,410	6,000	150,00	110,00	36,00	●
	5,500	6,000	150,00	110,00	36,00	●
7/32	5,560	6,000	150,00	110,00	36,00	●
15/64	5,950	6,000	150,00	110,00	36,00	●
	6,000	6,000	150,00	110,00	36,00	●
1/4	6,350	8,000	167,00	127,00	36,00	●
	6,500	8,000	167,00	127,00	36,00	●
17/64	6,750	8,000	167,00	127,00	36,00	●
	7,000	8,000	167,00	127,00	36,00	●
9/32	7,140	8,000	183,00	143,00	36,00	●
	7,500	8,000	183,00	143,00	36,00	●
	7,540	8,000	183,00	143,00	36,00	●
19/64	7,940	8,000	183,00	143,00	36,00	●
	8,000	8,000	183,00	143,00	36,00	●
21/64	8,330	10,000	204,00	160,00	40,00	●
	8,500	10,000	204,00	160,00	40,00	●
11/32	8,730	10,000	204,00	160,00	40,00	●
	9,000	10,000	204,00	160,00	40,00	●
23/64	9,130	10,000	221,00	177,00	40,00	●
3/8	9,520	10,000	221,00	177,00	40,00	●
25/64	9,920	10,000	221,00	177,00	40,00	●
	10,000	10,000	221,00	177,00	40,00	●
13/32	10,320	12,000	247,00	198,00	45,00	●
27/64	10,720	12,000	247,00	198,00	45,00	●
	11,000	12,000	247,00	198,00	45,00	●
7/16	11,110	12,000	263,00	214,00	45,00	●
29/64	11,510	12,000	263,00	214,00	45,00	●
15/32	11,910	12,000	263,00	214,00	45,00	●
	12,000	12,000	263,00	214,00	45,00	●
31/64	12,300	14,000	297,00	248,00	45,00	●
1/2	12,700	14,000	297,00	248,00	45,00	●
33/64	13,100	14,000	297,00	248,00	45,00	●
17/32	13,490	14,000	297,00	248,00	45,00	●
35/64	13,890	14,000	297,00	248,00	45,00	●
	14,000	14,000	297,00	248,00	45,00	●

 TiAlN-tip-coated with internal cooling available from 1. quarter 2011



HARTNER

TS 100 T - Spiral-Flute Deep Hole Drills 20 x D

						86511
						Solid carbide
						165
						■
						HA
						Ⓐ
d1h7	d1h7	d2h6	l1	l2	l3	Availability
inch	mm	mm	mm	mm	mm	
1/8	3,00	6,00	110,00	70,00	36,00	●
	3,17	6,00	123,00	83,00	36,00	●
	3,50	6,00	136,00	96,00	36,00	●
9/64	3,57	6,00	136,00	96,00	36,00	● NEW
5/32	3,97	6,00	136,00	96,00	36,00	●
	4,00	6,00	136,00	96,00	36,00	●
11/64	4,37	6,00	158,00	118,00	36,00	● NEW
	4,50	6,00	158,00	118,00	36,00	●
3/16	4,76	6,00	158,00	118,00	36,00	●
	5,00	6,00	158,00	118,00	36,00	●
	5,10	6,00	180,00	140,00	36,00	● NEW
13/64	5,16	6,00	180,00	140,00	36,00	● NEW
	5,41	6,00	180,00	140,00	36,00	● NEW
	5,50	6,00	180,00	140,00	36,00	●
7/32	5,56	6,00	180,00	140,00	36,00	●
15/64	5,95	6,00	180,00	140,00	36,00	● NEW
	6,00	6,00	180,00	140,00	36,00	●
1/4	6,35	8,00	202,00	162,00	36,00	●
	6,50	8,00	202,00	162,00	36,00	●
17/64	6,75	8,00	202,00	162,00	36,00	● NEW
	7,00	8,00	202,00	162,00	36,00	●
9/32	7,14	8,00	223,00	183,00	36,00	●
	7,50	8,00	223,00	183,00	36,00	●
	7,54	8,00	223,00	183,00	36,00	● NEW
19/64	7,94	8,00	223,00	183,00	36,00	● NEW
	8,00	8,00	223,00	183,00	36,00	●
21/64	8,33	10,00	249,00	205,00	40,00	● NEW
	8,50	10,00	249,00	205,00	40,00	●
11/32	8,73	10,00	249,00	205,00	40,00	● NEW
	9,00	10,00	249,00	205,00	40,00	●
23/64	9,13	10,00	271,00	227,00	40,00	● NEW
3/8	9,52	10,00	271,00	227,00	40,00	● NEW
25/64	9,92	10,00	271,00	227,00	40,00	● NEW
	10,00	10,00	271,00	227,00	40,00	●
13/32	10,32	12,00	302,00	253,00	45,00	● NEW
27/64	10,72	12,00	302,00	253,00	45,00	● NEW
	11,00	12,00	302,00	253,00	45,00	●
7/16	11,11	12,00	323,00	274,00	45,00	● NEW
29/64	11,51	12,00	323,00	274,00	45,00	● NEW
15/32	11,91	12,00	323,00	274,00	45,00	● NEW
	12,00	12,00	323,00	274,00	45,00	●
31/64	12,30	14,00	367,00	318,00	45,00	● NEW
1/2	12,70	14,00	367,00	318,00	45,00	● NEW
33/64	13,10	14,00	367,00	318,00	45,00	● NEW
17/32	13,49	14,00	367,00	318,00	45,00	● NEW
35/64	13,89	14,00	367,00	318,00	45,00	● NEW
	14,00	14,00	367,00	318,00	45,00	●

Ⓐ TiAlN-tip-coated

■ with internal cooling

NEW available from 1. quarter 2011

TS 100 T - Spiral-Flute Deep Hole Drills 25 x D

[illegible]

TS 100 T - Spiral-Flute Deep Hole Drills 30 x D

[illegible]



A schematic diagram of a drill pipe. The pipe has an outer diameter d_1 and an inner diameter d_2 . The total length is l_1 . The length of the double-flute section is l_2 , and the length of the single-flute section is l_3 . The diagram shows the transition from a single-flute section to a double-flute section.



A TiAlN-tip-coated

■ with internal cooling

NEW available from 1. quarter 2011