

 PAGE 246	OSAWA NORM	5XD 355SU 355SUH	8XD 358SUH	12XD 3512SUH

(m7)					
Ø mm	1~3	3.1~6	6.1~10	10.1~18	18.1~20
tol. D µ	+12 / +2	+16 / +4	+21 / +6	+25 / +7	+29 / +8



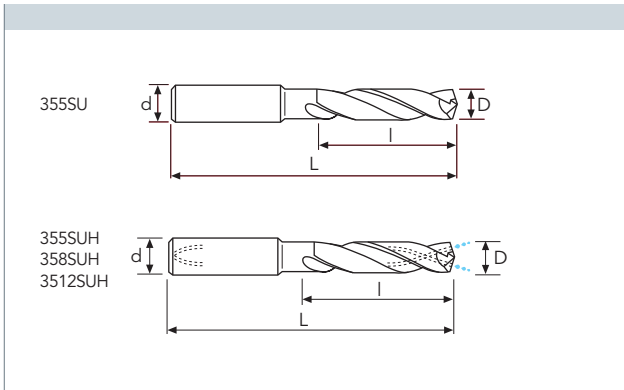
	 SU	 SUH	 SUH	 SUH
	 MG	 MG	 MG	 MG
	 PV300	 PV300	 PV300	 PV300
	 140°	 140°	 140°	 140°
	 30°	 30°	 30°	 30°

D(m7)	d(h6)	l	L	Stock	Stock	Stock	Stock
mm 1.00	3	6.5	50	○	○	●	●
1.00	3	9.5	50				
1.00	3	13.5	55				
1.05	3	6.5	50	○	○	○	
1.05	3	10	50				
1.10	3	7.2	50	○	○	○	
1.10	3	10.5	50			●	
1.10	3	14.9	55				○
1.15	3	7.5	50	○	○		
1.15	3	10.9	50			○	
1.20	3	7.8	50	○	○		
1.20	3	11.4	50			●	
1.20	3	16.2	55				●
1.25	3	8.1	50	○	○		
1.25	3	11.9	50			○	
1.28	3	12.4	50			●	
1.30	3	8.5	50	○	○		
1.30	3	12.4	50			●	
1.30	3	17.6	55				●
1.35	3	8.8	50	○	○		
1.35	3	12.8	50			○	
1.40	3	9.1	50	○	○		
1.40	3	13.3	50			●	
1.40	3	18.9	55				○
1.45	3	9.4	50	○	○		
1.45	3	13.8	50			●	
1.50	3	9.8	50	○	○		
1.50	3	14.3	50			●	
1.50	3	20.3	55				●
1.55	3	10.1	50	○	○		
1.55	3	14.7	50			○	
1.60	3	10.4	50	○	○		
1.60	3	15.2	50			●	
1.60	3	21.6	65				●
1.65	3	10.7	55	○	○		
1.65	3	15.7	60			○	

● stock standard ○ non-standard stock ■ stock exhaustion

	OSAWA NORM	5XD 355SU 355SUH	8XD 358SUH	12XD 3512SUH
PAGE 246				

(m7)					
Ø mm	1~3	3.1~6	6.1~10	10.1~18	18.1~20
tol. D µ	+12 / +2	+16 / +4	+21 / +6	+25 / +7	+29 / +8



PV300	PV300	PV300	PV300

D(m7)	d(h6)	l	L	Stock	Stock	Stock	Stock
mm 1.70	3	11.1	55	○	○	●	○
1.70	3	16.2	60				
1.70	3	23	65				
1.75	3	11.4	55	○	○	○	○
1.75	3	16.6	60				
1.80	3	11.7	55	○	○	●	
1.80	3	17.1	60				●
1.80	3	24.3	65				
1.85	3	12	55	○	○		
1.85	3	17.6	60			●	
1.90	3	12.4	55	○	○		
1.90	3	18.1	60			●	
1.90	3	25.7	65			○	
1.95	3	12.7	55	○	○		
1.95	3	18.5	60				○
2.00	3	13	55	○	○	●	
2.00	3	19	60				●
2.00	3	27	65				●
2.05	3	13.3	55	○	○		
2.05	3	19.5	60			○	
2.10	3	13.7	55	○	○		
2.10	3	20	60			●	
2.10	3	28.4	65				●
2.15	3	14	55	○	○		
2.15	3	20.4	60			○	
2.20	3	14.3	55	○	○	●	
2.20	3	20.9	60				●
2.20	3	29.7	65				●
2.25	3	14.6	55	○	○		
2.25	3	21.4	60			○	
2.30	3	15	55	○	○		
2.30	3	21.9	60			●	
2.30	3	31.1	65				○
2.35	3	15.3	55	○	○		
2.35	3	22.3	60			○	
2.40	3	15.6	55	○	○		

● stock standard ○ non-standard stock ■ stock exhaustion

- TYPHOON
- C-SD-TA
- LFTA
- SUTA
- HSS-HSS/CO DRILLS
- UH RED
- MEX ORANGE
- HF EVO
- MEF ENDLESS
- ALU
- MDC
- G2
- MDTA
- ULTRA MILLS
- HSS/CO
- CARBIDE BURRS
- PARAMETERS

	OSAWA NORM	5XD 355SU 355SUH	8XD 358SUH	12XD 3512SUH

(m7)

Ø mm	1~3	3.1~6	6.1~10	10.1~18	18.1~20
tol. D µ	+12 / +2	+16 / +4	+21 / +6	+25 / +7	+29 / +8



	PV300	PV300	PV300	PV300

D(m7)	d(h6)	l	L	Stock	Stock	Stock	Stock
mm 2.40	3	22.8	60			●	○
2.40	3	32.4	75				
2.45	3	15.9	55	○	○		
2.45	3	23.3	60			○	
2.50	3	16.3	55	○	○		
2.50	3	23.8	60			●	
2.50	3	33.8	75				●
2.55	3	16.6	55	○	○		
2.55	3	24.2	60			○	
2.60	3	16.9	55	○	○		
2.60	3	24.7	60			●	
2.60	3	35.1	75				●
2.65	3	17.2	55	○	○		
2.65	3	25.2	60			○	
2.70	3	17.4	55	○	○		
2.70	3	25.7	60			●	
2.70	3	36.5	75				○
2.75	3	17.9	55	○	○		
2.75	3	26.1	60			○	
2.80	3	18.2	55	○	○		
2.80	3	26.6	60			●	
2.80	3	37.8	75				●
2.85	3	18.5	55	○	○		
2.85	3	27.1	60			○	
2.90	3	18.9	55	○	○		
2.90	3	27.6	60			●	
2.90	3	39.2	75				○
2.95	3	19.2	55	○	○		
2.95	3	28	60			○	

● stock standard ○ non-standard stock ■ stock exhaustion

NEW

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DIN 6537L

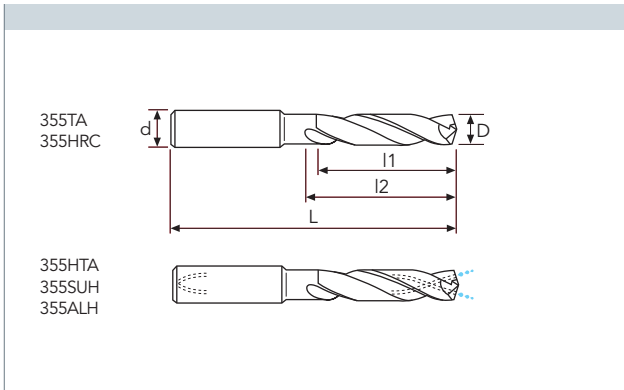
5XD

355TA - 355HTA - 355SUH - 355ALH - 355HRC (m7)

Ø mm	1~3	3.1~6	6.1~10	10.1~18	18.1~20
tol. D µ	+12 / +2	+16 / +4	+21 / +6	+25 / +7	+29 / +8

385UH (h7)

Ø mm	1~3	3.1~6	6.1~10	10.1~18	18.1~20
tol. D µ	0 / -10	0 / -12	0 / -15	0 / -18	0 / -21



MG PV200	MG PV200	MG PV300	MG LAPPED	MG PV1000

D	d(h6)	l1	l2	L	Stock	Stock	Stock	Stock	Stock
mm 2.60	6	23	28	66					○
3.00	6	23	28	66	●	●	●	●	○
3.10	6	23	28	66	●	●	●	○	
3.20	6	23	28	66	●	●	●	●	
3.25 NEW	6	23	28	66		●			
3.30	6	23	28	66	●	●	●	●	○
3.40	6	23	28	66	●	●	●	●	○
3.50	6	23	28	66	●	●	●	●	○
3.60	6	23	28	66	●	●	●	○	
3.70	6	23	28	66	●	●	●	●	○
3.80	6	29	36	74	●	●	●	●	○
3.90	6	29	36	74	●	●	●	●	
4.00	6	29	36	74	●	●	●	●	○
4.10	6	29	36	74	●	●	●	○	○
4.20	6	29	36	74	●	●	●	●	○
4.30	6	29	36	74	●	●	●	●	○
4.40	6	29	36	74	●	●	●	○	
4.50	6	29	36	74	●	●	●	●	○
4.60	6	29	36	74	●	●	●	○	○
4.65 NEW	6	29	36	74		●			
4.70	6	29	36	74	●	●	●	○	
4.80	6	35	44	82	●	●	●	●	○
4.90	6	35	44	82	●	●	●	○	
5.00	6	35	44	82	●	●	●	●	○
5.10	6	35	44	82	●	●	●	●	○
5.20	6	35	44	82	●	●	●	●	○
5.30	6	35	44	82	●	●	●	○	○
5.40	6	35	44	82	●	●	●	○	
5.50	6	35	44	82	●	●	●	●	○
5.55 NEW	6	35	44	82		●			
5.60	6	35	44	82	●	●	●	○	○
5.70	6	35	44	82	●	●	●	○	
5.80	6	35	44	82	●	●	●	●	○
5.90	6	35	44	82	●	●	●	○	
6.00	6	35	44	82	●	●	●	●	○
6.10	8	43	53	91	●	●	●	○	○

● stock standard ○ non-standard stock ■ stock exhaustion

- TYPHOON
- C-SD-TA
- LFTA
- SUTA
- HSS-HSS/CO DRILLS
- UH RED
- MEX ORANGE
- HF EVO
- MEF ENDLESS
- ALU
- MDC
- G2
- MDTA
- ULTRA MILLS
- HSS/CO
- CARBIDE BURRS
- PARAMETERS

NEW

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DIN 6537L

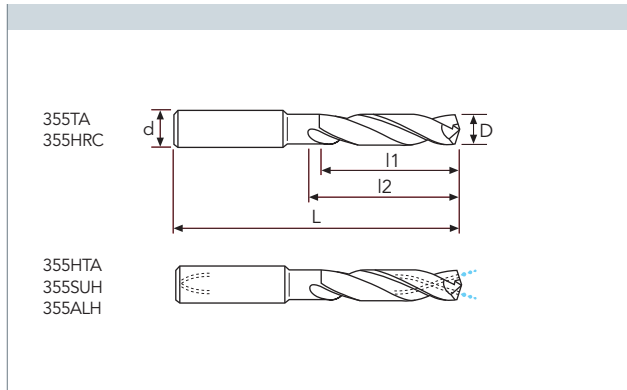
5XD

355TA - 355HTA - 355SUH - 355ALH - 355HRC (m7)

Ø mm	1~3	3.1~6	6.1~10	10.1~18	18.1~20
tol. D µ	+12 / +2	+16 / +4	+21 / +6	+25 / +7	+29 / +8

385UH (h7)

Ø mm	1~3	3.1~6	6.1~10	10.1~18	18.1~20
tol. D µ	0 / -10	0 / -12	0 / -15	0 / -18	0 / -21



MG PV200	MG PV200	MG PV300	MG LAPPED	MG PV1000

D	d(h6)	l1	l2	L	Stock	Stock	Stock	Stock	Stock
mm 6.20	8	43	53	91	●	●	●	●	○
6.30	8	43	53	91	●	●	●	○	
6.40	8	43	53	91	●	●	●	○	
6.50	8	43	53	91	●	●	●	●	○
6.60	8	43	53	91	●	●	●	○	
6.70	8	43	53	91	●	●	●	○	
6.80	8	43	53	91	●	●	●	●	○
6.90	8	43	53	91	●	●	●	○	○
7.00	8	43	53	91	●	●	●	●	○
7.10	8	43	53	91	●	●	●	○	
7.20	8	43	53	91	●	●	●	○	
7.30	8	43	53	91	●	●	●	○	
7.40	8	43	53	91	●	●	●	○	○
7.45 NEW	8	43	53	91		●			
7.50	8	43	53	91	●	●	●	●	○
7.60	8	43	53	91	●	●	●	○	
7.70	8	43	53	91	●	●	●	○	
7.80	8	43	53	91	●	●	●	●	○
7.90	8	43	53	91	●	●	●	○	
8.00	8	43	53	91	●	●	●	●	○
8.10	10	49	61	103	●	●	●	○	○
8.20	10	49	61	103	●	●	●	●	○
8.30	10	49	61	103	●	●	●	○	
8.40	10	49	61	103	●	●	●	○	
8.50	10	49	61	103	●	●	●	●	○
8.60	10	49	61	103	●	●	●	○	○
8.70	10	49	61	103	●	●	●	○	○
8.80	10	49	61	103	●	●	●	●	○
8.90	10	49	61	103	●	●	●	○	
9.00	10	49	61	103	●	●	●	●	○
9.10	10	49	61	103	●	●	●	○	
9.20	10	49	61	103	●	●	●	○	
9.25 NEW	10	49	61	103		●			
9.30	10	49	61	103	●	●	●	○	○
9.35 NEW	10	49	61	103		○			
9.40	10	49	61	103	●	●	●	○	

● stock standard ○ non-standard stock ■ stock exhaustion

NEW

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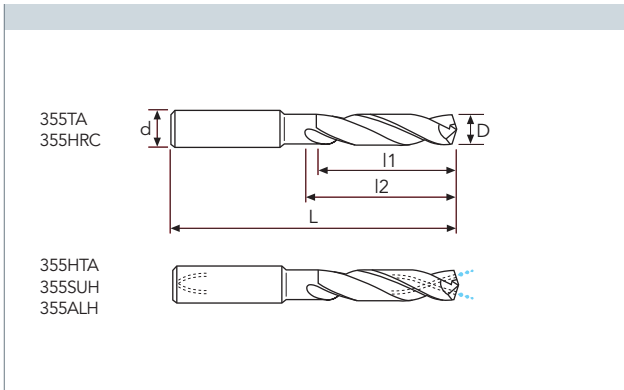
5XD

355TA - 355HTA - 355SUH - 355ALH - 355HRC (m7)

Ø mm	1~3	3.1~6	6.1~10	10.1~18	18.1~20
tol. D µ	+12 / +2	+16 / +4	+21 / +6	+25 / +7	+29 / +8

385UH (h7)

Ø mm	1~3	3.1~6	6.1~10	10.1~18	18.1~20
tol. D µ	0 / -10	0 / -12	0 / -15	0 / -18	0 / -21



TA	HTA	SUH	ALH	HRC
MG	MG	MG	MG	MG
PV200	PV200	PV300	LAPPED	PV1000
140°	140°	140°	140°	150°
30°	30°	30°	30°	15°

D	d(h6)	l1	l2	L	Stock	Stock	Stock	Stock	Stock
mm 9.45	NEW 10	49	61	103		●			
9.50	10	61	61	103	●	●	●	●	○
9.60	10	61	61	103	●	●	●	○	
9.70	10	61	61	103	●	●	●	○	
9.80	10	61	61	103	●	●	●	○	○
9.90	10	61	61	103	●	●	●	○	
10.00	10	61	61	103	●	●	●	●	○
10.10	12	71	71	118	●	●			
10.20	12	71	71	118	●	●	●	●	○
10.30	12	71	71	118	●	●	●		○
10.40	12	71	71	118	○	●			○
10.50	12	71	71	118	●	●	●	●	○
10.60	12	71	71	118	●	●	●		
10.70	12	71	71	118	●	●			
10.80	12	71	71	118	●	●	●	○	○
10.90	12	71	71	118	○	○			
11.00	12	71	71	118	●	●	●	●	○
11.10	12	71	71	118	○	●			
11.20	12	71	71	118	●	●	●	○	○
11.25	NEW 12	71	71	118	●	●	●	○	
11.30	12	71	71	118		●			
11.40	12	71	71	118	○	●			
11.50	12	71	71	118	●	●	●	●	○
11.60	12	71	71	118	○	●			
11.70	12	71	71	118	○	●			
11.80	12	71	71	118	●	●	●	○	○
11.90	12	71	71	118	○	○			
12.00	12	71	71	118	●	●	●	●	○
12.20	14	77	77	124	○	●	●	○	○
12.50	14	77	77	124	●	●	●	○	
12.60	14	77	77	124		●	●		
12.80	14	77	77	124	○	●	●	○	
13.00	14	77	77	124	●	●	●	○	
13.30	14	77	77	124	○	●	●	○	
13.50	14	77	77	124	●	●	●	○	
13.80	14	77	77	124	○	●	●	○	

● stock standard ○ non-standard stock ■ stock exhaustion

- TYPHOON
- C-SD-TA
- LFTA
- SUTA
- HSS-HSS/CO DRILLS
- UH RED
- MEX ORANGE
- HF EVO
- MEF ENDLESS
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- ULTRA MILLS
- HSS/CO
- CARBIDE BURRS
- PARAMETERS

NEW

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DIN 6537L

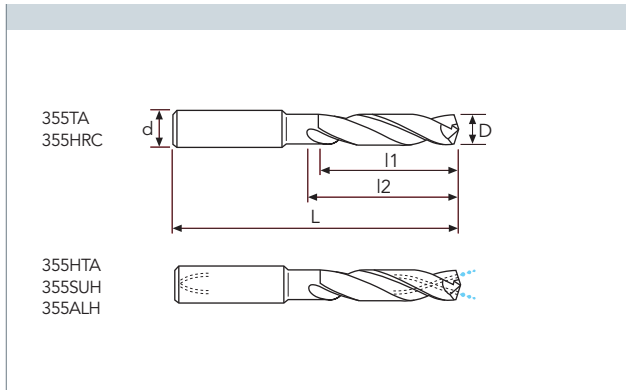
5XD

355TA - 355HTA - 355SUH - 355ALH - 355HRC (m7)

Ø mm	1~3	3.1~6	6.1~10	10.1~18	18.1~20
tol. D µ	+12 / +2	+16 / +4	+21 / +6	+25 / +7	+29 / +8

385UH (h7)

Ø mm	1~3	3.1~6	6.1~10	10.1~18	18.1~20
tol. D µ	0 / -10	0 / -12	0 / -15	0 / -18	0 / -21



MG	MG	MG	MG	MG
PV200	PV200	PV300	LAPPED	PV1000

D	d(h6)	l1	l2	L	Stock	Stock	Stock	Stock	Stock
mm 14.00	14	77	77	124	●	●	●	○	
14.20	16	83	83	133		●	●		○
14.50	16	83	83	133	●	●	●	○	
14.60	16	83	83	133		●			
15.00	16	83	83	133	●	●	●	○	
15.30	16	83	83	133	○	●	●	○	
15.50	16	83	83	133	●	●	●	○	
15.80	16	83	83	133	○	●	●	○	
16.00	16	83	83	133	●	●	●	○	
16.50	18	93	93	143	○	●	●	○	
17.00	18	93	93	143	○	●	●	○	
17.50	18	93	93	143	○	●	●	○	
18.00	18	93	93	143	○	●	●	○	
18.50	20	101	101	153	○	●	●	○	
19.00	20	101	101	153	○	●	●	○	
19.50	20	101	101	153	○	○	●	○	
20.00	20	101	101	153	○	●	●	○	

● stock standard ○ non-standard stock ■ stock exhaustion

TYPHOON DRILLS - CUTTING SPEED TABLE																
MATERIAL GROUPS	ISO	N/mm ²	3XD					5XD					8XD	8XD MINI	12XD MINI	
			343TA*	353TA	353HTA	353SUH	353ALH	353HRC	355TA	355HTA	355SUH**	355ALH	355HRC	3584HTA	358SUH	3512SUH
			Vc (m/min)													
1 2 3 4	P	~700	80~100	90~110	80~120	90~130		70~100	80~110	80~120			70~90	70~90	50~70	
3 4 5		700~1000		75~95	85~105	75~115		75~95	75~105	75~105			65~105	65~105	45~65	
6		1000~1300		70~90	80~100	70~110		70~90	70~100	70~100			60~80	60~80	40~60	
7		40~45HRC		15~25	15~25	15~25		10~20	10~20	10~20			10~15	10~20	10~15	
8	H	45~50HRC					15~25					10~20				
8		50~55HRC					10~16					8~13				
8		55~62HRC					8~14					7~12				
9 10	M			25~50		30~60		20~40		25~55			20~40	20~40	15~35	
11				20~45		25~55		15~35		20~50			20~40	20~40	15~35	
12				20~45		25~55		15~35		20~50			20~40	20~40	15~35	
13	K			70~110	80~120	90~130		60~100	70~110	80~120			40~90	40~90	30~70	
14				60~100	70~110	80~120		50~90	60~100	70~110			30~80	30~80	20~60	
15	N	200~270					220~290	180~250			200~250		150~220	150~220	120~180	
16		180~250					200~270	160~230			180~230		130~200	130~200	100~160	
22	S	<35HRC		20~40	25~45	30~50		20~35	20~40	25~45			15~30	15~30	10~25	
23		>35HRC		10~30	15~35	20~40		10~25	10~30	15~35			10~25	10~25	10~20	
26				20~40	25~45	30~50		20~35	20~40	25~45			15~30	15~30	15~25	

*318N: Vc -30%

**355SU: Vc -10%

TYPHOON DRILLS - FEED TABLE									
MINI 355SUH* - 358SUH - 3512SUH									
MATERIAL GROUPS	ISO	N/mm ²	Ø	1-1.5	1.6-2	2.1-2.5	2.6-2.9		
				fn (mm/rev)					
1 2 3 4	P	~700	355SUH*	0.062~0.070	0.072~0.079	0.080~0.088	0.090~0.094		
			358SUH	0.036~0.043	0.045~0.050	0.052~0.058	0.059~0.064		
			3512SUH	0.027~0.032	0.034~0.038	0.039~0.044	0.044~0.048		
3 4 5	P	700~1000	355SUH*	0.048~0.058	0.060~0.067	0.069~0.077	0.079~0.084		
			358SUH	0.036~0.043	0.045~0.050	0.052~0.058	0.059~0.064		
			3512SUH	0.027~0.032	0.034~0.038	0.039~0.044	0.044~0.048		
6	P	1000~1300	355SUH*	0.037~0.044	0.045~0.051	0.052~0.058	0.059~0.064		
			358SUH	0.030~0.035	0.036~0.039	0.040~0.044	0.045~0.047		
			3512SUH	0.023~0.026	0.027~0.029	0.030~0.033	0.034~0.035		
7	P	40~45HRC	355SUH*	0.013~0.015	0.015~0.017	0.017~0.019	0.019~0.020		
			358SUH	0.012~0.014	0.014~0.016	0.016~0.017	0.017~0.019		
			3512SUH	0.009~0.011	0.011~0.012	0.012~0.013	0.013~0.014		
9 10	M		355SUH*	0.043~0.048	0.050~0.054	0.055~0.061	0.062~0.065		
			358SUH	0.038~0.043	0.045~0.049	0.050~0.054	0.055~0.058		
			3512SUH	0.029~0.032	0.034~0.037	0.037~0.041	0.041~0.044		
11	M		355SUH*	0.043~0.048	0.050~0.054	0.055~0.061	0.062~0.065		
			358SUH	0.038~0.043	0.045~0.049	0.050~0.054	0.055~0.058		
			3512SUH	0.029~0.032	0.034~0.037	0.037~0.041	0.041~0.044		
12	M		355SUH*	0.029~0.035	0.036~0.039	0.041~0.045	0.046~0.049		
			358SUH	0.026~0.031	0.032~0.035	0.037~0.040	0.041~0.044		
			3512SUH	0.020~0.023	0.024~0.026	0.028~0.030	0.031~0.033		
13	K		355SUH*	0.048~0.059	0.062~0.070	0.071~0.080	0.082~0.088		
			358SUH	0.030~0.038	0.039~0.046	0.047~0.054	0.054~0.059		
			3512SUH	0.023~0.028	0.029~0.034	0.035~0.040	0.041~0.044		
14	K		355SUH*	0.046~0.056	0.058~0.066	0.068~0.076	0.078~0.084		
			358SUH	0.029~0.036	0.038~0.043	0.045~0.050	0.052~0.056		
			3512SUH	0.022~0.027	0.028~0.032	0.034~0.038	0.039~0.042		
15	N		355SUH*	0.074~0.087	0.089~0.099	0.101~0.111	0.113~0.121		
			358SUH	0.062~0.073	0.074~0.082	0.085~0.093	0.095~0.102		
			3512SUH	0.047~0.055	0.056~0.062	0.064~0.070	0.071~0.076		
16	N		355SUH*	0.071~0.084	0.087~0.098	0.100~0.111	0.115~0.122		
			358SUH	0.057~0.069	0.071~0.081	0.083~0.094	0.096~0.103		
			3512SUH	0.043~0.052	0.053~0.061	0.062~0.070	0.072~0.077		
22	S	<35HRC	355SUH*	0.025~0.029	0.029~0.033	0.034~0.037	0.038~0.040		
			358SUH	0.017~0.021	0.021~0.024	0.025~0.027	0.028~0.030		
			3512SUH	0.013~0.016	0.016~0.018	0.019~0.020	0.021~0.022		
23	S	>35HRC	355SUH*	0.019~0.023	0.024~0.028	0.029~0.032	0.032~0.035		
			358SUH	0.014~0.017	0.018~0.020	0.021~0.023	0.024~0.026		
			3512SUH	0.010~0.013	0.013~0.015	0.016~0.017	0.018~0.020		
26	S	>35HRC	355SUH*	0.031~0.036	0.037~0.041	0.042~0.046	0.047~0.050		
			358SUH	0.026~0.030	0.031~0.034	0.035~0.039	0.040~0.042		
			3512SUH	0.020~0.023	0.023~0.026	0.026~0.029	0.030~0.032		

*355SU: fn -10% ~ -20%

3XD			TYPHOON DRILLS - FEED TABLE 343TA - 353TA - 353HTA - 353SUH - 353ALH - 353HRC								
MATERIAL GROUPS	ISO	N/mm ²	Ø	3-4	4-6	6-8	8-10	10-12	12-14	14-17	17-20
				fn (mm/rev)							
1 2 3 4	P	~700	343TA	0.082~0.101	0.101~0.138	0.138~0.176	0.176~0.213	0.213~0.250	0.250~0.288	0.288~0.344	0.344~0.400
			353TA	0.086~0.106	0.106~0.145	0.145~0.185	0.185~0.224	0.224~0.263	0.263~0.302	0.302~0.361	0.361~0.420
			353HTA	0.108~0.128	0.128~0.167	0.167~0.206	0.206~0.246	0.246~0.285	0.285~0.323	0.323~0.382	0.382~0.441
			353SUH	0.113~0.134	0.134~0.175	0.175~0.216	0.216~0.257	0.257~0.298	0.298~0.339	0.339~0.400	0.400~0.462
3 4 5	P	700~1000	353TA	0.082~0.101	0.101~0.138	0.145~0.185	0.185~0.224	0.224~0.263	0.263~0.302	0.302~0.361	0.361~0.420
			353HTA	0.096~0.117	0.117~0.159	0.167~0.206	0.206~0.246	0.246~0.285	0.285~0.323	0.323~0.382	0.382~0.441
6	P	1000~1300	353SUH	0.101~0.123	0.123~0.167	0.175~0.216	0.216~0.257	0.257~0.298	0.298~0.339	0.339~0.400	0.400~0.462
			353TA	0.069~0.083	0.083~0.110	0.110~0.137	0.137~0.164	0.164~0.191	0.191~0.219	0.219~0.259	0.259~0.300
7	P	40~45HRC	353HTA	0.073~0.087	0.087~0.116	0.116~0.144	0.144~0.173	0.173~0.201	0.201~0.230	0.230~0.272	0.272~0.315
			353SUH	0.077~0.091	0.091~0.122	0.122~0.151	0.151~0.182	0.182~0.211	0.211~0.242	0.242~0.286	0.286~0.331
			353TA	0.024~0.029	0.029~0.038	0.038~0.047	0.047~0.055	0.055~0.064	0.064~0.073	0.073~0.087	0.087~0.100
8	H	45~50HRC	353HTA	0.026~0.032	0.032~0.042	0.042~0.052	0.052~0.061	0.061~0.070	0.070~0.080	0.080~0.096	0.096~0.110
		50~55HRC	353SUH	0.024~0.029	0.029~0.038	0.038~0.047	0.047~0.055	0.055~0.064	0.064~0.073	0.073~0.087	0.087~0.100
		55~62HRC	353HRC	0.024~0.050	0.030~0.080	0.050~0.100	0.060~0.120	0.080~0.140	0.100~0.150	0.120~0.160	0.140~0.180
9 10	M		353HRC	0.022~0.025	0.025~0.032	0.032~0.039	0.039~0.046	0.046~0.053	0.053~0.059	0.059~0.070	0.070~0.080
			353HTA	0.018~0.021	0.021~0.027	0.027~0.033	0.033~0.039	0.039~0.045	0.045~0.052	0.052~0.061	0.061~0.070
11	M		353TA	0.074~0.088	0.088~0.114	0.114~0.141	0.141~0.167	0.167~0.194	0.194~0.220	0.220~0.260	0.260~0.300
			353SUH	0.078~0.092	0.092~0.120	0.120~0.148	0.148~0.175	0.175~0.204	0.204~0.231	0.231~0.273	0.273~0.315
12	M		353TA	0.074~0.088	0.088~0.114	0.114~0.141	0.141~0.167	0.167~0.194	0.194~0.220	0.220~0.260	0.260~0.300
			353SUH	0.078~0.092	0.092~0.120	0.120~0.148	0.148~0.175	0.175~0.204	0.204~0.231	0.231~0.273	0.273~0.315
13	K		353TA	0.056~0.067	0.067~0.090	0.090~0.113	0.113~0.136	0.136~0.159	0.159~0.181	0.181~0.216	0.216~0.250
			353SUH	0.059~0.070	0.070~0.095	0.095~0.119	0.119~0.143	0.143~0.167	0.167~0.190	0.190~0.227	0.227~0.263
14	K		353TA	0.076~0.095	0.095~0.133	0.133~0.171	0.171~0.209	0.209~0.248	0.248~0.286	0.286~0.343	0.343~0.400
			353HTA	0.101~0.125	0.125~0.172	0.172~0.219	0.219~0.266	0.266~0.312	0.312~0.359	0.359~0.430	0.430~0.500
15	N		353SUH	0.106~0.131	0.131~0.181	0.181~0.230	0.230~0.279	0.279~0.328	0.328~0.377	0.377~0.452	0.452~0.525
			353TA	0.072~0.090	0.090~0.127	0.127~0.163	0.163~0.199	0.199~0.235	0.235~0.271	0.271~0.326	0.326~0.380
16	N		353HTA	0.096~0.119	0.119~0.163	0.163~0.208	0.208~0.252	0.252~0.297	0.297~0.341	0.341~0.408	0.408~0.475
			353SUH	0.101~0.125	0.125~0.171	0.171~0.218	0.218~0.265	0.265~0.312	0.312~0.358	0.358~0.428	0.428~0.499
22	S	<35HRC	343TA	0.129~0.155	0.155~0.207	0.207~0.259	0.259~0.311	0.311~0.363	0.363~0.414	0.414~0.492	0.492~0.570
			353ALH	0.152~0.182	0.182~0.242	0.242~0.301	0.301~0.361	0.361~0.422	0.422~0.482	0.482~0.571	0.571~0.662
23	S	>35HRC	343TA	0.132~0.162	0.162~0.223	0.223~0.284	0.284~0.345	0.345~0.406	0.406~0.467	0.467~0.559	0.559~0.650
			353ALH	0.155~0.189	0.189~0.257	0.257~0.326	0.326~0.394	0.394~0.462	0.462~0.530	0.530~0.633	0.633~0.735
26	S	>35HRC	353TA	0.038~0.046	0.046~0.063	0.063~0.080	0.080~0.097	0.097~0.113	0.113~0.130	0.130~0.155	0.155~0.180
			353HTA	0.046~0.055	0.055~0.073	0.073~0.091	0.091~0.110	0.110~0.128	0.128~0.146	0.146~0.173	0.173~0.200
			353SUH	0.048~0.058	0.058~0.077	0.077~0.096	0.096~0.116	0.116~0.134	0.134~0.153	0.153~0.182	0.182~0.210
26	S	>35HRC	353TA	0.034~0.042	0.042~0.060	0.060~0.077	0.077~0.094	0.094~0.111	0.111~0.128	0.128~0.154	0.154~0.180
			353HTA	0.040~0.050	0.050~0.068	0.068~0.087	0.087~0.106	0.106~0.125	0.125~0.144	0.144~0.172	0.172~0.200
			353SUH	0.042~0.053	0.053~0.071	0.071~0.091	0.091~0.111	0.111~0.131	0.131~0.151	0.151~0.181	0.181~0.210
26	S	>35HRC	353TA	0.054~0.064	0.064~0.085	0.085~0.106	0.106~0.126	0.126~0.147	0.147~0.168	0.168~0.199	0.199~0.230
			353HTA	0.057~0.069	0.069~0.091	0.091~0.114	0.114~0.137	0.137~0.159	0.159~0.182	0.182~0.216	0.216~0.250
			353SUH	0.060~0.072	0.072~0.096	0.096~0.120	0.120~0.144	0.144~0.167	0.167~0.191	0.191~0.227	0.227~0.263

MATERIAL GROUPS	Ø	3-4	4-6	6-8	8-10	10-12	12-14	14-17	17-20
		fn (mm/rev)							
5XD	355TA	fn (mm/rev) = fn 353TA (3XD) x 0,85							
	355HTA	fn (mm/rev) = fn 353HTA (3XD) x 0,85							
	355SUH	fn (mm/rev) = fn 353SUH (3XD) x 0,85							
	355HRC	fn (mm/rev) = fn 353HRC (3XD) x 0,85							
8XD	3584HTA	fn (mm/rev) = fn 353HTA (3XD) x 0,8							

TYPHOON

C-SD-TA

LFTA

SUTA

HSS-
HSS/CO
DRILLS

UH
RED

MEX
ORANGE

HF
EVO

MEF
ENDLESS

ALU

MDC

G2

MDTA

ULTRA
MILLS

HSS/CO

CARBIDE
BURRS

PARAMETERS