DORMER

DIN ANSI Shark Line

SHARK LINE

Material specific application taps

New products 2017

SHARK LINE

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SHARK

INTRODUCTION

Dormer brand material specific application-based ranges of DIN ANSI Shark Taps offer high **performance** and **process security**. Shark Line taps are easily recognizable by their color ring coding, denoting recommendation for use on specific materials.

FEATURES AND BENEFITS

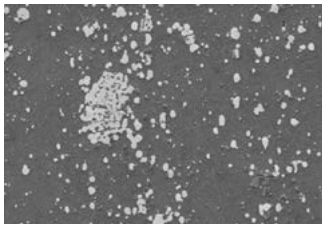
- **COLOR RING CODING**
  The color ring on the tool shank identifies suitability for specific materials and enables quick and easy tool selection.
- **ADVANCED GEOMETRY**
  Significant reduction in axial forces and torque compared to conventional taps. This ensures problem-free threading of blind and through holes in the selected material.
- **DIN/ANSI STANDARD**
  Standard ANSI shank and square with DIN overall length, for extra reach and compatability with Inch Standard Tap Holding.
- **EDGE TREATMENT (Red, Yellow, Blue Shark)**
  Spiral flute taps incorporate a special edge treatment to increase strength and reduce the chance of micro-chipping on the cutting edges. This considerably improves performance and tool life.

SHARK LINE

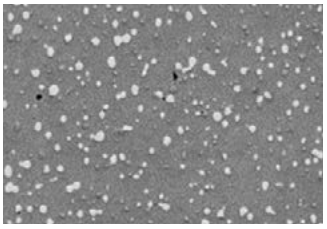
MATERIAL

Shark taps are manufactured from a unique powder metallurgy tool steel different from any other HSS-E-PM. This provides an unbeatable combination of toughness and edge strength, allowing the taps to perform at higher cutting temperatures while offering excellent performance and longer tool life.

- **HIGHER IMPACT TOUGHNESS**
- **INCREASED HOT HARDNESS**
- **CONSISTENT HARDNESS**



Traditional HSS-E (M35) material



Unique HSS-E-PM material used for Shark Taps (note the evenly dispersed grain structure)

GEOMETRY AND CHAMFER

Thread geometry with optimized form generates:

- Low torque
- Excellent threads at both high and low speeds
- Superior surface finish

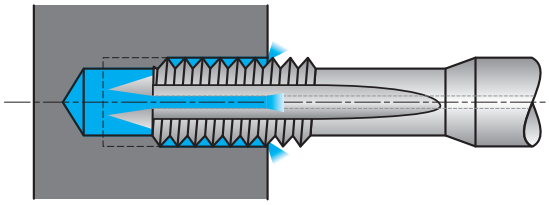
Innovative chamfer geometries for better “lead-in” and uniform wear distribution available with:

- Chamfer form E (full-bottoming = 1.5 – 2 threads) for blind holes
- Chamfer form C (semi-bottoming = 2 – 3 threads) for blind and through holes
- Chamfer form B (plug = 3.5 – 5 threads) for through holes

COOLING AND LUBRICATION

Internal coolant with axial coolant outlet (White Shark Form E taps only):

- Improved tool life
- Optimum chip evacuation when threading short chipping materials
- Extremely benefitial in horizontal blind hole machining



SURFACE TREATMENT

- **TiAlN-Top** (Yellow, Red and White Shark)

  TiAlN-Top is a multi-layer ceramic coating which has been through a post-coating smoothing process.
  It exhibits high toughness and oxidation stability making it ideal for higher speeds while also improving tool life.

- **Super-B** (Blue Shark)

  Super-B is a low friction TiAlN+WC/C self lubricating hard coating which prevents built-up edge and provides very high wear resistance. This is particularly advantageous when threading tough, long-chipping, heat resistant materials such as stainless steel.

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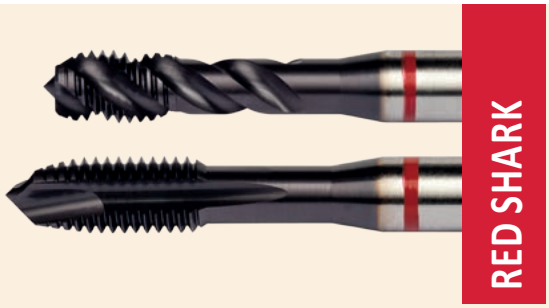
SHARK TAPS

FOR STRUCTURAL, PLAIN CARBON & LOW ALLOY STEELS

- **SURFACE TREATMENT**

  TiAlN-Top coating with an additional edge treatment.
- **FLUTE GEOMETRY**

  Available in spiral point for through holes and spiral flute (40° angle) for blind holes. Special flute geometry on Yellow Shark spiral flute taps prevents nest formation of chips, reducing the risk of re-cutting chips on reversal.



FOR ALLOY STEELS

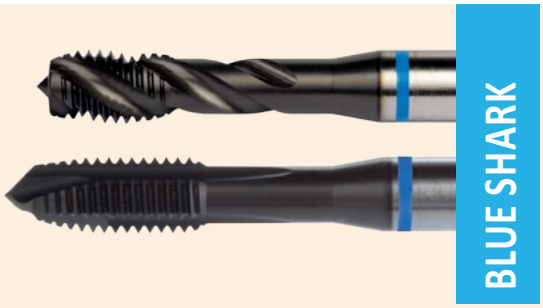
- **SURFACE TREATMENT**

  TiAlN-Top coating with an additional edge treatment.
- **FLUTE GEOMETRY**

  Available in spiral point for through holes and spiral flute (45° angle) for blind holes. Special flute geometry on Red Shark spiral flute taps prevents nest formation of chips, reducing the risk of re-cutting chips on reversal.
- **BACK TAPERED**

  The back taper on spiral flute Red Shark further facilitates chip evacuation, reducing chipping on the last threads of the taps and also reducing torque when the tap reverses.
- **TOOL HOLDING Recommendation**

  When using spiral flute Red Shark taps, it is recommended to use a tool holder with minimal float or soft start.



FOR STAINLESS STEELS

- **SURFACE TREATMENT**

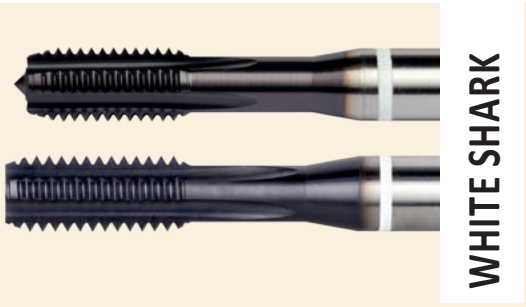
  Super-B (TiAlN + WC/C) coating with an additional edge treatment.

- **FLUTE GEOMETRY**

  Available in spiral point for through holes and spiral flute (40° angle) for blind holes.

- **BACK TAPERED**

  The back taper on the E812, E912, E628 and E768 spiral flute Blue Shark facilitates chip evacuation, reducing chipping on the last threads of the taps and also reducing torque when the tap reverses.



FOR CAST IRONS

- **SURFACE TREATMENT**

  TiAlN-Top coating.

- **FLUTE GEOMETRY**

  Straight flute design gives excellent performance when threading both through and blind holes in short chipping materials.

- **INTERNAL COOLANT WITH AXIAL OUTLET**

  Reduces interruptions of the production process by providing optimum chip evacuation in both horizontal and vertical blind hole machining.

	UNC	UNC	UNF	UNF	M	M	MF	MF	UNC	UNF	UNC	UNF	UNC	UNF	M	MF	M	
	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	
	2BX	2BX	2BX	2BX	6HX	6HX	6HX	6HX	2B	2B	2B 3B	2B 3B	2B	2B	6H	6H	6H	
	2XD	2.5XD	2XD	2.5XD	2XD	2.5XD	2XD	2.5XD	2.5XD	2.5XD	2.5XD	2.5XD	2.5XD	2.5XD	2.5XD	2.5XD	2.5XD	
	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	
	C 2-3	E 1.5-2	C 2-3	E 1.5-2	C 2-3	E 1.5-2	C 2-3	E 1.5-2	B 3.5-5	B 3.5-5	B 3.5-5	B 3.5-5	B 3.5-5	B 3.5-5	B 3.5-5	B 3.5-5	B 3.5-5	
	TiAlN Top	TiAlN Top	TiAlN Top	TiAlN Top	TiAlN Top	TiAlN Top	TiAlN Top	TiAlN Top	TiAlN Top	TiAlN Top	Super B	Super B	TiAlN Top	TiAlN Top	TiAlN Top	TiAlN Top	Super B	
																		
	E814	E815	E914	E915	E630	E631	E770	E771	E809	E909	E813	E913	E811	E911	E625	E765	E629	
	1/4 - 1"	1/4 - 1"	No.10 - 7/8	1/4 - 1"	M5 - M24	M6 - M24	M8 - M14	M10 - M14	No.4 - 1"	No.10 - 1"	No.4 - 1"	No.10 - 1"	No.4 - 1"	no.10 - 1"	M4 - M24	M8 - M18	M4 - M24	
🕮	8	8	8	8	10	10	10	10	12	12	14	14	16	16	17	17	18	
AMG																		**ISO**
1.1									■ 82	■ 82					■ 82	■ 82		**P 1**
1.2									■ 73	■ 73					■ 73	■ 73		**P 1**
1.3									■ 59	■ 59	● 105	● 105			■ 59	■ 59	● 105	**P 2**
1.4									● 52	● 52	● 88	● 88	■ 98	■ 98	● 52	● 52	● 88	**P 3**
1.5									● 33	● 33	● 56	● 56	■ 66	■ 66	● 33	● 33	● 56	**P 4**
1.6											● 36	● 36	● 36	● 36			● 36	**H 1**
1.7																		**H 3**
1.8																		**H 4**
2.1											■ 46	■ 46					■ 46	**M 1**
2.2											■ 33	■ 33					■ 33	**M 3**
2.3											■ 20	■ 20					■ 20	**M 2**
2.4																		**S 2**
3.1	■ 98	■ 98	■ 98	■ 98	■ 98	■ 98	■ 98	■ 98										**K 1**
3.2	■ 82	■ 82	■ 82	■ 82	■ 82	■ 82	■ 82	■ 82										**K 2**
3.3	■ 115	■ 115	■ 115	■ 115	■ 115	■ 115	■ 115	■ 115										**K 3**
3.4	● 82	● 82	● 82	● 82	● 82	● 82	● 82	● 82										**K 4**
4.1																		**S 1**
4.2													● 33	● 33				**S 2**
4.3																		**S 3**
5.1																		**S 1**
5.2													● 33	● 33				**S 2**
5.3																		**S 3**
6.1									■ 39	■ 39					■ 39	■ 39		**N 3**
6.2	● 98	● 98	● 98	● 98	● 98	● 98	● 98	● 98	● 98	● 98					● 98	● 98		**N 3**
6.3									■ 66	■ 66					■ 66	■ 66		**N 3**
6.4	● 16	● 16	● 16	● 16	● 16	● 16	● 16	● 16										**N 4**
7.1																		**N 1**
7.2																		**N 1**
7.3																		**N 1**
7.4	● 66	● 66	● 66	● 66	● 66	● 66	● 66	● 66										**N 2**
8.1																		**O**
8.2	■ 49	■ 49	■ 49	■ 49	■ 49	■ 49	■ 49	■ 49										**O**
8.3																		**O**
9.1																		**H**
10.1																		**O**

	MF	M	MF	UNC	UNF	UNC	UNF	UNC	UNF	M	MF	M	MF	M	MF	
	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	DIN ANSI	
	6H	6H	6H	2B	2B	2B 3B	2B 3B	2B	2B	6H	6H	6H	6H	6H	6H	
	2.5XD	2.5XD	2.5XD	2XD	2XD	2.5XD	2.5XD	2.5XD	2.5XD	2XD	2XD	2.5XD	2.5XD	2.5XD	2.5XD	
	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	
	B 3.5-5	B 3.5-5	B 3.5-5	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	
				λ40°	λ40°	λ40°	λ40°	λ45°	λ45°	λ40°	λ40°	λ40°	λ40°	λ45°	λ45°	
	Super B	TiAlN Top	TiAlN Top	TiAlN Top	TiAlN Top	Super B	Super B	TiAlN Top	TiAlN Top	TiAlN Top	TiAlN Top	Super B	Super B	TiAlN Top	TiAlN Top	
																
	E769	E627	E767	E808	E908	E812	E912	E810	E910	E624	E764	E628	E768	E626	E766	
	M8 - M18	M3 - M24	M8 - M14	No.4 - 1"	No.10 - 1"	No.4 - 1"	No.10 - 1"	No.4 - 1"	No.10 - 1"	M4 - M24	M8 - M18	M4 - M24	M8 - M18	M3 - M24	M8 - M14	
🕮	18	19	19	20	20	22	22	24	24	25	25	26	26	27	27	
AMG																ISO
1.1				■ 82	■ 82					■ 82	■ 82					P 1
1.2				■ 73	■ 73					■ 73	■ 73					P 1
1.3	● 105			■ 59	■ 59	● 105	● 105			■ 59	■ 59	● 105	● 105			P 2
1.4	● 88	■ 98	■ 98	● 52	● 52	● 88	● 88	■ 98	■ 98	● 52	● 52	● 88	● 88	■ 98	■ 98	P 3
1.5	● 56	■ 66	■ 66	● 33	● 33	● 43	● 43	■ 66	■ 66	● 33	● 33	● 43	● 43	■ 66	■ 66	P 4
1.6	● 36	● 36	● 36			● 36	● 36	● 36	● 36			● 36	● 36	● 36	● 36	H 1
1.7																H 3
1.8																H 4
2.1	■ 46					■ 46	■ 46					■ 46	■ 46			M 1
2.2	■ 33					■ 33	■ 33					■ 33	■ 33			M 3
2.3	■ 20					■ 20	■ 20					■ 20	■ 20			M 2
2.4																S 2
3.1																K 1
3.2																K 2
3.3																K 3
3.4																K 4
4.1																S 1
4.2		● 33	● 33					● 33	● 33					● 33	● 33	S 2
4.3																S 3
5.1																S 1
5.2		● 33	● 33					● 33	● 33					● 33	● 33	S 2
5.3																S 3
6.1				■ 39	■ 39					■ 39	■ 39					N 3
6.2				● 98	● 98					● 98	● 98					N 3
6.3				■ 66	■ 66					■ 66	■ 66					N 3
6.4																N 4
7.1																N 1
7.2																N 1
7.3																N 1
7.4																N 2
8.1																O
8.2																O
8.3																O
9.1																H
10.1																O

DORMER

DIN ANSI Machine Tap, White Shark for Cast Iron, Semi Bottoming

Pack Qty = 1 pc

E814
E914

Designed for semi-bottoming or through hole tapping in Cast Iron applications. Premium HSCo Powder Metal substrate with TiAlN-Top Coating combine to offer superior abrasion resistance, higher operating speeds, improved thread quality, reduced cycle times and longer tool life.

DIN ANSI Machine Tap, White Shark for Cast Iron, Full Bottoming

Pack Qty = 1 pc

E815
E915

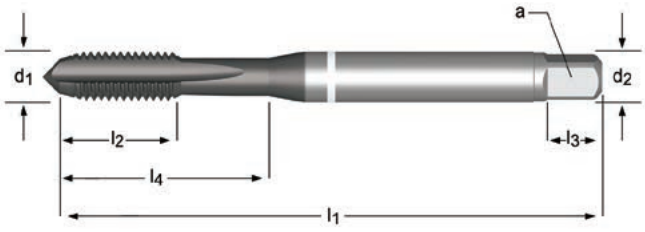
Coolant through design allows for higher tapping speeds and better tool life. This design eliminates the problems associated with inadequate coolant supply in some applications.

E814; E815; E914; E915

■ 3.1 3.2 3.3 8.2
● 3.4 6.2 6.4 7.4

E814	UNC	DIN ANSI	2BX		2XD	HSS-E PM	C 2-3			TiAlN Top	
E815	UNC	DIN ANSI	2BX		2.5XD	HSS-E PM	E 1.5-2			TiAlN Top	
E914	UNF	DIN ANSI	2BX		2XD	HSS-E PM	C 2-3			TiAlN Top	
E915	UNF	DIN ANSI	2BX		2.5XD	HSS-E PM	E 1.5-2			TiAlN Top	

SHARK LINE



UNC	UNF	TPI	l_1 Inch	l_2 Inch	l_4 Inch	d_2 Ø Inch	☐ a Inch	l_3 Inch	No. of flutes	↔	↔	Limits	E814	E815	E914	E915
	10	32	2.756	0.551	1.102	0.194	0.150	0.250	4	4.10	N21	H4			7350222	
	1/4	28	3.150	0.591	0.984	0.255	0.189	0.310	4	5.50	N3	H5			7350223	
	1/4	28	3.150	0.591	0.984	0.255	0.189	0.310	4	5.50	N3	H4				7350240
1/4		20	3.150	0.591	0.984	0.255	0.189	0.310	4	5.10	N7	H5	7350203	7350231		
	5/16	24	3.543	0.709	1.339	0.318	0.236	0.380	4	6.90	I	H5			7350224	
	5/16	24	3.543	0.787	1.339	0.318	0.236	0.380	4	6.90	I	H5				7350241
5/16		18	3.543	0.709	1.339	0.318	0.236	0.380	4	6.60	F	H5	7350204			
5/16		18	3.543	0.787	1.339	0.318	0.236	0.380	4	6.60	F	H5		7350232		
	3/8	24	3.543	0.787	1.476	0.381	0.284	0.440	4	8.50	Q	H5			7350225	7350242
3/8		16	3.937	0.787	1.535	0.381	0.284	0.440	4	8.00	5/16	H5	7350205	7350233		
	7/16	20	3.937	0.787	–	0.323	0.240	0.410	4	9.90	25/64	H5			7350226	7350243
7/16		14	3.937	0.787	–	0.323	0.240	0.410	4	9.40	U	H5	7350206	7350234		
	1/2	20	3.937	0.827	–	0.367	0.273	0.440	4	11.50	29/64	H5			7350227	7350244

UNC	UNF	TPI	l_1 Inch	l_2 Inch	l_4 Inch	d_2 Ø Inch	◪ a Inch	l_3 Inch	No. of flutes			Limits	E814	E815	E914	E915
1/2		13	4.331	0.906	–	0.367	0.273	0.440	4	10.80	27/64	H5	7350207	7350235		
	5/8	18	3.937	0.827	–	0.480	0.358	0.560	4	14.50	37/64	H5			7350228	7350245
5/8		11	4.331	0.906	–	0.480	0.358	0.560	4	13.50	17/32	H5	7350208	7350236		
	3/4	16	4.331	0.906	–	0.590	0.439	0.690	4	17.50	11/16	H6			7350229	
	3/4	16	4.331	0.906	–	0.590	0.439	0.690	4	17.50	11/16	H5				7350246
3/4		10	4.921	1.181	–	0.590	0.439	0.690	4	16.50	21/32	H5	7350209	7350237		
	7/8	14	4.921	0.906	–	0.697	0.520	0.750	4	20.40	13/16	H6			7350230	7350247
7/8		9	5.512	1.339	–	0.697	0.520	0.750	4	19.50	49/64	H6	7350220	7350238		
	1“	12	5.512	1.063	–	0.800	0.597	0.810	4	23.25	59/64	H6				7350248
1“		8	6.299	1.417	–	0.800	0.597	0.810	4	22.25	7/8	H6	7350221	7350239		

DORMER

DIN ANSI Machine Tap, White Shark for Cast Iron, Semi Bottoming

Pack Qty = 1 pc

E630
E770

Designed for semi-bottoming or through hole tapping in Cast Iron applications. Premium HSCo Powder Metal substrate with TiAlN-Top Coating combine to offer superior abrasion resistance, higher operating speeds, improved thread quality, reduced cycle times and longer tool life

DIN ANSI Machine Tap, White Shark for Cast Iron, Full Bottoming

Pack Qty = 1 pc

E631
E771

Coolant through design allows for higher tapping speeds and better tool life. This design eliminates the problems associated with inadequate coolant supply in some applications.

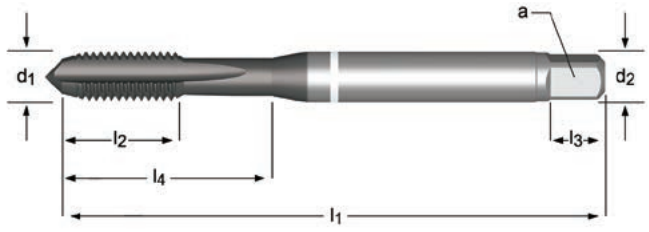
E630; E631; E770; E771

■ 3.1 3.2 3.3 8.2

● 3.4 6.2 6.4 7.4

E630	M	DIN ANSI	6HX		2XD	HSS-E PM	C 2-3			TiAlN Top	
E631	M	DIN ANSI	6HX		2.5XD	HSS-E PM	E 1.5-2			TiAlN Top	
E770	MF	DIN ANSI	6HX		2XD	HSS-E PM	C 2-3			TiAlN Top	
E771	MF	DIN ANSI	6HX		2.5XD	HSS-E PM	E 1.5-2			TiAlN Top	

SHARK LINE



M	MF	P mm	l_1 mm	l_2 mm	l_4 mm	d_2 Ø Inch	⍁ a Inch	l_3 mm	No. of flutes	↔	↔	Limits	E630	E631	E770	E771
5		0.80	70	13	25	0.194	0.150	6	4	4.20	N19	D4	7350249			
6		1.00	80	15	25	0.255	0.189	8	4	5.00	N9	D5		7350265		
6		1.00	80	15	30	0.255	0.189	8	4	5.00	N9	D5	7350250			
	8	1.00	90	18	35	0.318	0.236	10	4	7.00	J	D5			7350259	
8		1.25	90	18	35	0.318	0.236	10	4	6.80	H	D5	7350251			
8		1.25	90	20	34	0.318	0.236	10	4	6.80	H	D5		7350266		
	10	1.00	90	20	35	0.381	0.284	11	4	9.00	T	D6			7350260	
	10	1.25	100	20	39	0.381	0.284	11	4	8.80	11/32	D6			7350261	7350274
10		1.50	100	20	39	0.381	0.284	11	4	8.50	Q	D6	7350252	7350267		
	12	1.25	100	21	–	0.367	0.273	11	4	10.80	27/64	D6			7350262	7350275
	12	1.50	100	21	–	0.367	0.273	11	4	10.50	Z	D6			7350263	7350276
12		1.75	110	23	–	0.367	0.273	11	4	10.30	Y	D6	7350253	7350268		
	14	1.50	100	21	–	0.429	0.320	13	4	12.50	31/64	D7			7350264	7350277

M	MF	P mm	l_1 mm	l_2 mm	l_4 mm	d_2 Ø Inch	▨ a Inch	l_3 mm	No. of flutes			Limits	E630	E631	E770	E771
14		2.00	110	23	–	0.429	0.320	13	4	12.00	15/32	D7	7350254	7350269		
16		2.00	110	23	–	0.480	0.358	14	4	14.00	35/64	D7	7350255	7350270		
18		2.50	125	30	–	0.542	0.404	16	4	15.50	39/64	D7	7350256	7350271		
20		2.50	140	30	–	0.652	0.487	18	4	17.50	11/16	D7	7350257	7350272		
24		3.00	160	38	–	0.760	0.567	19	4	21.00	53/64	D8	7350258	7350273		

DORMER

DIN ANSI Machine Tap, Yellow Shark for Low Alloy Steels, Plug Style

Pack Qty = 1 pc

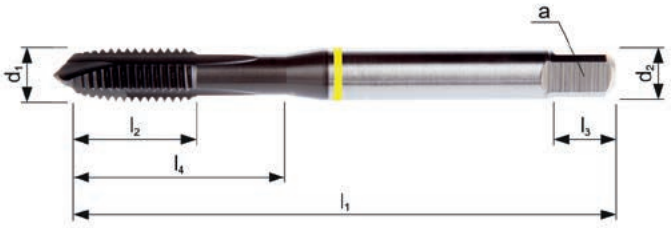
E809
E909

Designed for through hole tapping in low Alloy Steel applications. Premium HSCo Powder Metal substrate with TiAlN-Top Coating combine to offer superior abrasion resistance, higher operating speeds, improved thread quality, reduced cycle times and longer tool life.

E809; E809
- ■ 1.1 1.2 1.3 6.1 6.3
- • 1.4 1.5 6.2

E809	UNC	DIN ANSI	2B		2.5XD	HSS-E PM	B 3.5-5		TiAlN Top	
E909	UNF	DIN ANSI	2B		2.5XD	HSS-E PM	B 3.5-5		TiAlN Top	

SHARK LINE




E809


E909

No.4 – 1"

No.10 – 1"

UNC	UNF	TPI	l_1 Inch	l_2 Inch	l_4 Inch	d_2 Ø Inch	☐ a Inch	l_3 Inch	No. of flutes	↔	↔	Limits	E809	E909
4		40	2.205	0.354	0.709	0.141	0.108	0.190	3	2.35	N43	H2	7350469	
6		32	2.205	0.433	0.787	0.141	0.108	0.190	3	2.85	N36	H2	7350470	
8		32	2.480	0.512	0.827	0.168	0.129	0.250	3	3.50	N29	H3	7350471	
	10	32	2.756	0.551	1.102	0.194	0.150	0.250	3	4.10	N21	H3		7350482
10		24	2.756	0.551	1.102	0.194	0.150	0.250	3	3.90	N25	H3	7350472	
	1/4	28	3.150	0.591	0.984	0.255	0.189	0.310	3	5.50	N3	H4		7350483
1/4		20	3.150	0.591	0.984	0.255	0.189	0.310	3	5.10	N7	H5	7350473	
	5/16	24	3.543	0.709	1.339	0.318	0.236	0.380	3	6.90	I	H4		7350484
5/16		18	3.543	0.709	1.339	0.318	0.236	0.380	3	6.60	F	H5	7350474	
	3/8	24	3.543	0.787	1.476	0.381	0.284	0.440	3	8.50	Q	H4		7350485
3/8		16	3.937	0.787	1.535	0.381	0.284	0.440	3	8.00	5/16	H4	7350475	
	7/16	20	3.937	0.787	–	0.323	0.240	0.410	3	9.90	25/64	H5		7350486
7/16		14	3.937	0.787	–	0.323	0.240	0.410	3	9.40	U	H5	7350476	
	1/2	20	3.937	0.827	–	0.367	0.273	0.440	3	11.50	29/64	H5		7350487
1/2		13	4.331	0.906	–	0.367	0.273	0.440	3	10.80	27/64	H5	7350477	
	5/8	18	3.937	0.827	–	0.480	0.358	0.560	3	14.50	37/64	H5		7350488
5/8		11	4.331	0.906	–	0.480	0.358	0.560	3	13.50	17/32	H5	7350478	
	3/4	16	4.331	0.906	–	0.590	0.439	0.690	3	17.50	11/16	H5		7350489
3/4		10	4.921	1.181	–	0.590	0.439	0.690	3	16.50	21(32	H5	7350479	
	7/8	14	4.921	0.906	–	0.697	0.520	0.750	4	20.40	13/16	H6		7350490
7/8		9	5.512	1.339	–	0.697	0.520	0.750	4	19.50	49/64	H6	7350480	
	1"	12	5.512	1.063	–	0.800	0.597	0.810	4	23.25	59/64	H6		7350491
1"		8	6.299	1.417	–	0.800	0.597	0.810	4	22.25	7/8	H6	7350481	

SHARK LINE

DORMER

DIN ANSI Machine Tap, Blue Shark for Stainless Steel, Plug Style

Pack Qty = 1 pc

E813
E913

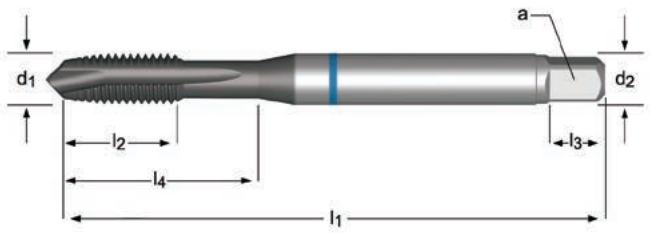
Designed for superior performance through hole tapping in a wide range of Stainless Steel types. Premium HSCo Powder Metal substrate with Super-B (TiAlN+WC/C) Coating combined with an additional edge treatment to offer improved thread quality and longer tool life. Available in both 2B and 3B Class of Fit to cover a wide range of applications.

E813; E913

- ■ 2.1 2.2 2.3
- • 1.3 1.4 1.5 1.6

E813	UNC	DIN ANSI	2B 3B		2.5XD	HSS-E PM	B 3.5-5			Super B	
E913	UNF	DIN ANSI	2B 3B		2.5XD	HSS-E PM	B 3.5-5			Super B	

SHARK LINE



E813

No.4 – 1"

E913

No.10 – 1"

UNC	UNF	TPI	l_1 Inch	l_2 Inch	l_4 Inch	d_2 Ø Inch	◹ a Inch	l_3 Inch	No. of flutes	↔	↔	Limits	E813	E913
4		40	2.205	0.354	0.709	0.141	0.108	0.190	3	2.35	N43	H2	7350278	
3/8		16	3.937	0.787	1.535	0.381	0.284	0.440	3	8.00	5/16	H3	7350287	
6		32	2.205	0.433	0.787	0.141	0.108	0.190	3	2.85	N36	H3	7350279	
8		32	2.480	0.512	0.827	0.168	0.129	0.250	3	3.50	N29	H3	7350280	
	10	32	2.756	0.551	1.102	0.194	0.150	0.250	3	4.10	N21	H3		7350299
10		24	2.756	0.551	1.102	0.194	0.150	0.250	3	3.90	N25	H3	7350281	
	1/4	28	3.150	0.591	0.984	0.255	0.189	0.310	3	5.50	N3	H5		7350300
	1/4	28	3.150	0.591	0.984	0.255	0.189	0.310	3	5.50	N3	H3		7350301
1/4		20	3.150	0.591	0.984	0.255	0.189	0.310	3	5.10	N7	H5	7350282	
1/4		20	3.150	0.591	0.984	0.255	0.189	0.310	3	5.10	N7	H3	7350283	
	5/16	24	3.543	0.709	1.339	0.318	0.236	0.380	3	6.90	I	H4		7350302
	5/16	24	3.543	0.709	1.339	0.318	0.236	0.380	3	6.90	I	H3		7350303
5/16		18	3.543	0.709	1.339	0.318	0.236	0.380	3	6.60	F	H5	7350284	
5/16		18	3.543	0.709	1.339	0.318	0.236	0.380	3	6.60	F	H3	7350285	
	3/8	24	3.543	0.787	1.476	0.381	0.284	0.440	3	8.50	Q	H4		7350304
	3/8	24	3.543	0.787	1.476	0.381	0.284	0.440	3	8.50	Q	H3		7350305
3/8		16	3.937	0.787	1.535	0.381	0.284	0.440	3	8.00	5/16	H5	7350286	
5/8		11	4.331	0.906	–	0.480	0.358	0.560	4	13.50	17/32	H5	7350291	
5/8		11	4.331	0.906	–	0.480	0.358	0.560	4	13.50	17/32	H3	7350292	
	7/16	20	3.937	0.787	–	0.323	0.240	0.410	4	9.90	25/64	H5		7350306
7/16		14	3.937	0.787	–	0.323	0.240	0.410	4	9.40	U	H5	7350288	
	1/2	20	3.937	0.827	–	0.367	0.273	0.440	4	11.50	29/64	H5		7350307
	1/2	20	3.937	0.827	–	0.367	0.273	0.440	4	11.50	29/64	H3		7350308
1/2		13	4.331	0.906	–	0.367	0.273	0.440	4	10.80	27/64	H5	7350289	
1/2		13	4.331	0.906	–	0.367	0.273	0.440	4	10.80	27/64	H3	7350290	
	5/8	18	3.937	0.827	–	0.480	0.358	0.560	4	14.50	37/64	H5		7350309
	5/8	18	3.937	0.827	–	0.480	0.358	0.560	4	14.50	37/64	H3		7350310
	3/4	16	4.331	0.906	–	0.590	0.439	0.690	4	17.50	11/16	H5		7350311
	3/4	16	4.331	0.906	–	0.590	0.439	0.690	4	17.50	11/16	H3		7350312

UNC	UNF	TPI	l_1 Inch	l_2 Inch	l_4 Inch	d_2 Ø Inch	⊿ a Inch	l_3 Inch	No. of flutes			Limits	E813	E913
3/4		10	4.921	1.181	–	0.590	0.439	0.690	4	16.50	21/32	H5	7350293	
3/4		10	4.921	1.181	–	0.590	0.439	0.690	4	16.50	21/32	H3	7350294	
	7/8	14	4.921	0.906	–	0.697	0.520	0.750	4	20.40	13/16	H6		7350313
	7/8	14	4.921	0.906	–	0.697	0.520	0.750	4	20.40	13/16	H4		7350314
7/8		9	5.512	1.339	–	0.697	0.520	0.750	4	19.50	49/64	H6	7350295	
7/8		9	5.512	1.339	–	0.697	0.520	0.750	4	19.50	49/64	H4	7350296	
	1“	12	5.512	1.063	–	0.800	0.597	0.810	4	23.25	59/64	H6		7350315
	1“	12	5.512	1.063	–	0.800	0.597	0.810	4	23.25	59/64	H4		7350316
1“		8	6.299	1.417	–	0.800	0.597	0.810	4	22.25	7/8	H6	7350297	
1“		8	6.299	1.417	–	0.800	0.597	0.810	4	22.25	7/8	H4	7350298	

DORMER

DIN ANSI Machine Tap, Red Shark for Alloy Steels, Plug Style

Pack Qty = 1 pc

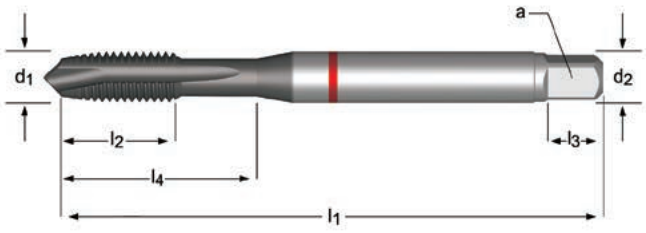
E811
E911

Designed for high performance through hole tapping in most medium Alloy Steels. The TiAlN-Top Coating combined with an additional edge treatment provides excellent performance and consistency in high production applications.

E811; E911
- ■ 1.4 1.5
- ● 1.6 4.2 5.2

E811	UNC	DIN ANSI	2B		2.5XD	HSS-E PM	B 3.5-5		TiAlN Top	
E911	UNF	DIN ANSI	2B		2.5XD	HSS-E PM	B 3.5-5		TiAlN Top	

SHARK LINE



E811

No.4 – 1"

E911

no.10 – 1"

UNC	UNF	TPI	l_1 Inch	l_2 Inch	l_4 Inch	d_2 Ø Inch	☐ a Inch	l_3 Inch	No. of flutes	↔	↔	Limits	E811	E911
4		40	2.205	0.354	0.709	0.141	0.108	0.190	3	2.35	N43	H2	7350391	
6		32	2.205	0.433	0.787	0.141	0.108	0.190	3	2.85	N36	H2	7350392	
8		32	2.480	0.512	0.827	0.168	0.129	0.250	3	3.50	N29	H3	7350393	
	10	32	2.756	0.551	1.102	0.194	0.150	0.250	3	4.10	N21	H3		7350404
10		24	2.756	0.551	1.102	0.194	0.150	0.250	3	3.90	N25	H3	7350394	
	1/4	28	3.150	0.591	0.984	0.255	0.189	0.310	3	5.50	N3	H4		7350405
1/4		20	3.150	0.591	0.984	0.255	0.189	0.310	3	5.10	N7	H5	7350395	
	5/16	24	3.543	0.709	1.339	0.318	0.236	0.380	3	6.90	I	H4		7350406
5/16		18	3.543	0.709	1.339	0.318	0.236	0.380	3	6.60	F	H5	7350396	
	3/8	24	3.543	0.787	1.476	0.318	0.284	0.440	3	8.50	Q	H4		7350407
3/8		16	3.543	0.787	1.535	0.381	0.284	0.440	3	8.00	5/16	H4	7350397	
	7/16	20	3.937	0.787	–	0.323	0.240	0.410	3	9.90	25/64	H5		7350408
7/16		14	3.937	0.787	–	0.323	0.240	0.410	3	9.40	U	H5	7350398	
	1/2	20	3.937	0.827	–	0.367	0.273	0.440	3	11.50	29/64	H5		7350409
1/2		13	4.331	0.906	–	0.367	0.273	0.440	3	10.80	27/64	H5	7350399	
	5/8	18	3.937	0.827	–	0.480	0.358	0.560	3	14.50	37/64	H5		7350410
5/8		11	4.331	0.906	–	0.480	0.358	0.560	3	13.50	17/32	H5	7350400	
	3/4	16	4.331	0.906	–	0.590	0.439	0.690	4	17.50	11/16	H5		7350411
3/4		10	4.921	1.181	–	0.590	0.439	0.690	4	16.50	21/32	H5	7350401	
	7/8	14	4.921	0.906	–	0.697	0.520	0.750	4	20.40	13/16	H6		7350412
7/8		9	5.512	1.339	–	0.697	0.520	0.750	4	19.50	49/64	H6	7350402	
	1"	12	5.512	1.063	–	0.800	0.597	0.810	4	23.25	59/64	H6		7350413
1"		8	6.299	1.417	–	0.800	0.597	0.810	4	22.25	7/8	H6	7350403	

DIN ANSI Machine Tap, Yellow Shark for Low Alloy Steels, Plug Style

Pack Qty = 1 pc

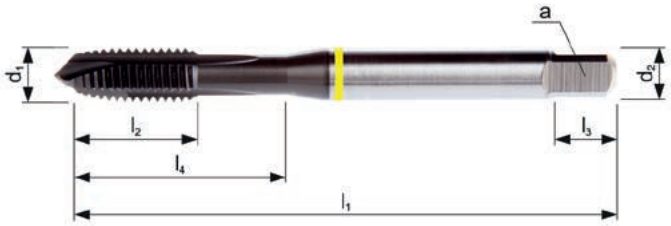
E625
E765

Designed for through hole tapping in low Alloy Steel applications. Premium HSCo Powder Metal substrate with TiAlN-Top Coating combine to offer superior abrasion resistance, higher operating speeds, improved thread quality, reduced cycle times and longer tool life.

E625; E765
▪ 1.1 1.2 1.3 6.1 6.3
• 1.4 1.5 6.2

E625	M	DIN ANSI	6H		2.5XD	HSS-E PM	B 3.5-5			TiAlN Top	
E765	MF	DIN ANSI	6H		2.5XD	HSS-E PM	B 3.5-5			TiAlN Top	

SHARK LINE




E625 M4 – M24


E765 M8 – M18

M	MF	P mm	l_1 mm	l_2 mm	l_4 mm	d_2 Ø Inch	⍁ a Inch	l_3 mm	No. of flutes	↔	↔	Limits	E625	E765
4		0.70	63	12	21	0.168	0.129	6	3	3.30	N30	D4	7350492	
5		0.80	70	13	25	0.194	0.150	6	3	4.20	N19	D4	7350493	
6		1.00	80	15	30	0.255	0.189	8	3	5.00	N9	D5	7350494	
	8	1.00	90	18	35	0.318	0.236	10	3	7.00	J	D5		7350503
8		1.25	90	18	35	0.318	0.236	10	3	6.80	H	D5	7350495	
	10	1.25	100	20	39	0.381	0.284	11	3	8.80	11/32	D6		7350504
10		1.50	100	20	39	0.381	0.284	11	3	8.50	Q	D6	7350496	
	12	1.50	100	21	–	0.367	0.273	11	3	10.80	27/64	D6		7350505
	12	1.50	100	21	–	0.367	0.273	11	3	10.50	Z	D6		7350506
12		1.75	110	23	–	0.367	0.273	11	3	10.30	Y	D6	7350497	
	14	1.50	100	21	–	0.429	0.320	13	3	12.50	31/64	D7		7350507
14		2.00	110	23	–	0.429	0.320	13	3	12.00	15/32	D7	7350498	
	16	1.50	100	21	–	0.480	0.358	14	3	14.50	9/16	D7		7350508
16		2.00	110	23	–	0.480	0.358	14	3	14.00	35/64	D7	7350499	
	18	1.50	110	24	–	0.542	0.404	16	3	16.50	41/64	D7		7350509
18		2.50	125	30	–	0.542	0.404	16	3	15.50	39/64	D7	7350500	
20		2.50	140	30	–	0.652	0.487	18	3	17.50	11/16	D7	7350501	
24		3.00	160	38	–	0.760	0.567	19	4	21.00	53/64	D8	7350502	

DORMER

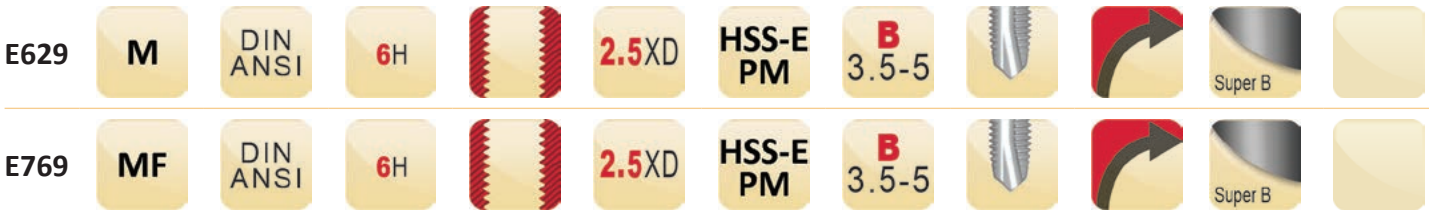
DIN ANSI Machine Tap, Blue Shark for Stainless Steel, Plug Style

Pack Qty = 1 pc

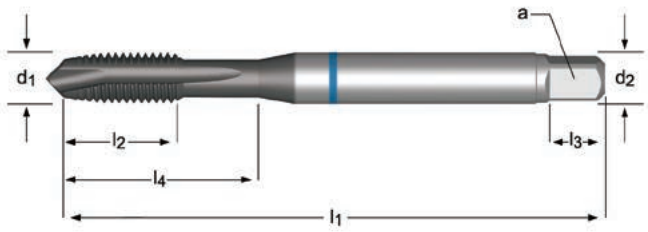
E629
E769

Designed for superior performance through hole tapping in a wide range of Stainless Steel types. Premium HSCo Powder Metal substrate with Super-B (TiAlN+WC/C) Coating combined with an additional edge treatment to offer improved thread quality and longer tool life. Available in both 2B and 3B Class of Fit to cover a wide range of applications.

E629; E769
- ■ 2.1 2.2 2.3
- ● 1.3 1.4 1.5 1.6



SHARK LINE



E629	E769
	
M4 – M24	M8 – M18

M	MF	P mm	l_1 mm	l_2 mm	l_4 mm	d_2 Ø Inch	⊿ a Inch	l_3 mm	No. of flutes			Limits	E629	E769
4		0.70	63	12	21	0.168	0.129	6	3	3.30	N30	D4	7350317	
5		0.80	70	13	25	0.194	0.150	6	3	4.20	N19	D4	7350318	
6		1.00	80	15	30	0.255	0.189	8	3	5.00	N9	D5	7350319	
	8	1.00	90	18	35	0.318	0.236	10	3	7.00	J	D5		7350328
8		1.25	90	18	35	0.318	0.236	10	3	6.80	H	D5	7350320	
	10	1.25	100	20	39	0.381	0.284	11	3	8.80	11/32	D6		7350329
10		1.50	100	20	39	0.381	0.284	11	3	8.50	Q	D6	7350321	
	12	1.25	100	21	–	0.367	0.273	11	4	10.80	27/64	D6		7350330
	12	1.50	100	21	–	0.367	0.273	11	4	10.50	Z	D6		7350331
12		1.75	110	23	–	0.367	0.273	11	4	10.30	Y	D6	7350322	
	14	1.50	100	21	–	0.429	0.320	13	4	12.50	31/64	D7		7350332
14		2.00	110	23	–	0.429	0.320	13	4	12.00	15/32	D7	7350323	
	16	1.50	100	21	–	0.480	0.358	14	4	14.50	9/16	D7		7350333
16		2.00	110	23	–	0.480	0.358	14	4	14.00	35/64	D7	7350324	
	18	1.50	110	24	–	0.542	0.404	16	4	16.50	41/64	D7		7350334
18		2.50	125	30	–	0.542	0.404	16	4	15.50	39/64	D7	7350325	
20		2.50	140	30	–	0.652	0.487	18	4	17.50	11/16	D7	7350326	
24		3.00	160	38	–	0.760	0.567	19	4	21.00	53/64	D8	7350327	

DIN ANSI Machine Tap, Red Shark for Alloy Steels, Plug Style

Pack Qty = 1 pc

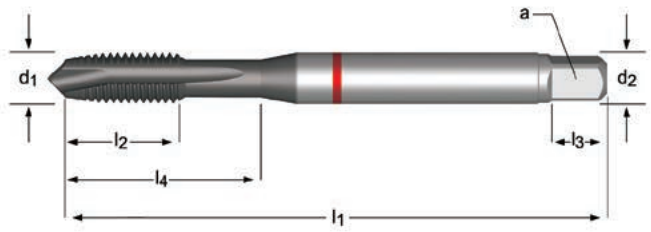
E627
E767

Designed for high performance through hole tapping in most medium Alloy Steels. The TiAlN-Top Coating combined with an additional edge treatment provides excellent performance and consistency in high production applications.

E627; E767
- ■ 1.4 1.5
- • 1.6 4.2 5.2

E627	M	DIN ANSI	6H		2.5XD	HSS-E PM	B 3.5-5			TiAlN Top	
E767	MF	DIN ANSI	6H		2.5XD	HSS-E PM	B 3.5-5			TiAlN Top	

SHARK LINE




E627 M3 – M24


E767 M8 – M14

M	MF	P mm	l_1 mm	l_2 mm	l_4 mm	d_2 Ø Inch	⊿ a Inch	l_3 mm	No. of flutes			Limits	E627	E767
3		0.50	56	9	18	0.141	0.108	5	3	2.50	N40	D3	7350414	
4		0.70	63	12	21	0.168	0.129	6	3	3.30	N30	D4	7350415	
5		0.80	70	13	25	0.194	0.150	6	3	4.20	N19	D4	7350416	
6		1.00	80	15	30	0.255	0.189	8	3	5.00	N9	D5	7350417	
	8	1.00	90	18	35	0.318	0.236	10	3	7.00	J	D5		7350426
8		1.25	90	18	35	0.318	0.236	10	3	6.80	H	D5	7350418	
	10	1.25	100	20	39	0.381	0.284	11	3	8.80	11/32	D6		7350427
10		1.50	100	20	39	0.381	0.284	11	3	8.50	Q	D6	7350419	
	12	1.50	100	21	–	0.367	0.273	11	3	10.50	Z	D6		7350428
12		1.75	110	23	–	0.367	0.273	11	3	10.30	Y	D6	7350420	
	14	1.50	100	21	–	0.429	0.320	13	3	12.50	31/64	D7		7350429
14		2.00	110	23	–	0.429	0.320	13	3	12.00	15/32	D7	7350421	
16		2.00	110	23	–	0.480	0.358	14	3	14.00	35/64	D7	7350422	
18		2.50	125	30	–	0.542	0.404	16	4	15.50	39/64	D7	7350423	
20		2.50	140	30	–	0.652	0.487	18	4	17.50	11/16	D7	7350424	
24		3.00	160	38	–	0.760	0.567	19	4	21.00	53/64	D8	7350425	

DORMER

DIN ANSI Machine Tap, Yellow Shark for Low Alloy Steels, Spiral Flute

Pack Qty = 1 pc

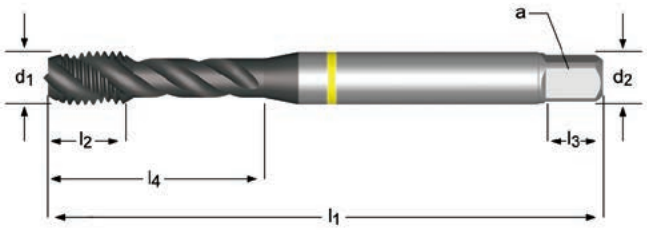
E808
E908

Designed for blind hole tapping in low Alloy Steel applications. Premium HSCo Powder Metal substrate with TiAlN-Top Coating combined with a special 40° Spiral Flute geometry prevents nesting and reduces the risk of re-cutting chips on reversal allowing taps to operate at higher speeds while providing improved thread quality.

E808; E908
- ■ 1.1 1.2 1.3 6.1 6.3
- • 1.4 1.5 6.2

E808	UNC	DIN ANSI	2B		2XD	HSS-E PM	C 2-3	λ40°		TiAlN Top	
E908	UNF	DIN ANSI	2B		2XD	HSS-E PM	C 2-3	λ40°		TiAlN Top	

SHARK LINE




E808


E908

No.4 – 1"

No.10 – 1"

UNC	UNF	TPI	l_1 Inch	l_2 Inch	l_4 Inch	d_2 Ø Inch	☐ a Inch	l_3 Inch	No. of flutes	↔	↔	Limits	E808	E908
4		40	2.205	0.256	0.709	0.141	0.108	0.236	3	2.35	N43	H2	7350510	
6		32	2.205	0.256	0.787	0.141	0.108	0.190	3	2.85	N36	H2	7350511	
8		32	2.480	0.276	0.827	0.168	0.129	0.250	3	3.50	N29	H3	7350512	
	10	32	2.756	0.315	1.102	0.194	0.150	0.250	3	4.10	N21	H3		7350523
10		24	2.756	0.315	1.102	0.194	0.150	0.250	3	3.90	N25	H3	7350513	
	1/4	28	3.150	0.394	0.984	0.255	0.189	0.310	3	5.50	N3	H4		7350524
1/4		20	3.150	0.394	0.984	0.255	0.189	0.310	3	5.10	N7	H5	7350514	
	5/16	24	3.543	0.472	1.339	0.318	0.236	0.380	3	6.90	I	H4		7350525
5/16		18	3.543	0.472	1.339	0.318	0.236	0.380	3	6.60	F	H5	7350515	
	3/8	24	3.543	0.591	1.476	0.381	0.284	0.440	3	8.50	Q	H4		7350526
3/8		16	3.937	0.591	1.535	0.381	0.284	0.440	3	8.00	5/16	H4	7350516	
	7/16	20	3.937	0.591	–	0.323	0.240	0.410	3	9.90	25/64	H5		7350527
7/16		14	3.937	0.591	–	0.323	0.240	0.410	3	9.40	U	H5	7350517	
	1/2	20	3.937	0.709	–	0.367	0.273	0.440	3	11.50	29/64	H5		7350528
1/2		13	4.331	0.709	–	0.367	0.273	0.440	3	10.80	27/64	H5	7350518	
	5/8	18	3.937	0.591	–	0.480	0.358	0.560	4	14.50	37/64	H5		7350529
5/8		11	4.331	0.787	–	0.480	0.358	0.560	4	13.50	17/32	H5	7350519	
	3/4	16	4.331	0.984	–	0.590	0.439	0.690	4	17.50	11/16	H5		7350530
3/4		10	4.921	0.984	–	0.590	0.439	0.690	4	16.50	21/32	H5	7350520	
	7/8	14	4.921	0.984	–	0.697	0.520	0.750	4	20.40	13/16	H6		7350531
7/8		9	5.512	0.984	–	0.697	0.520	0.750	4	19.50	49/64	H6	7350521	
	1"	12	5.512	1.063	–	0.800	0.597	0.810	4	23.25	59/64	H6		7350532
1"		8	6.299	1.181	–	0.800	0.597	0.810	4	22.25	7/8	H6	7350522	


SHARK LINE

DORMER

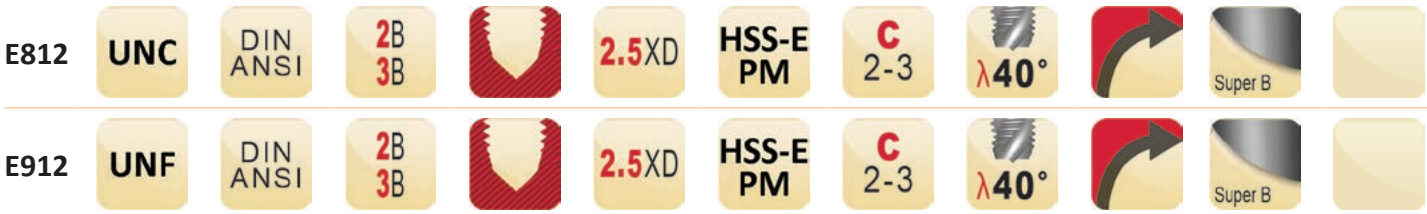
DIN ANSI Machine Tap, Blue Shark for Stainless Steel, Spiral Flute

Pack Qty = 1 pc

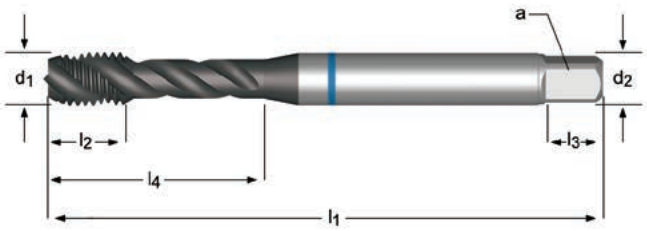
E812
E912

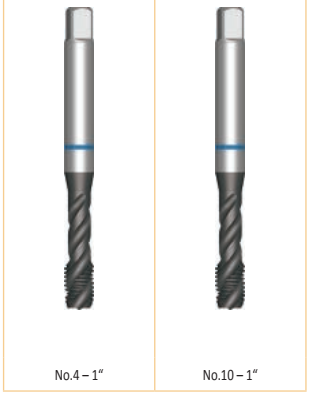
Designed for superior performance blind hole tapping in a wide range of Stainless Steel types. Premium HSCo Powder Metal substrate with Super-B (TiAlN+WC/C) Coating combined with an additional edge treatment and a 40° Flute angle facilitates better chip evacuation offering improved thread quality and longer tool life. Available in both 2B and 3B Class of Fit to cover a wide range of applications.

E812; E912 ■ 2.1 2.2 2.3
• 1.3 1.4 1.5 1.6



SHARK LINE





UNC	UNF	TPI	l_1 Inch	l_2 Inch	l_4 Inch	d_2 Ø Inch	☐ a Inch	l_3 Inch	No. of flutes	↔	↔	Limits	E812	E912
4		40	2.205	0.256	0.709	0.141	0.108	0.236	3	2.35	N43	H2	7350335	
6		32	2.205	0.256	0.787	0.141	0.108	0.190	3	2.80	N36	H3	7350336	
8		32	2.480	0.276	0.827	0.168	0.129	0.250	3	3.50	N29	H3	7350337	
	10	32	2.756	0.315	1.102	0.194	0.150	0.250	3	4.10	N21	H3		7350356
10		24	2.756	0.315	1.102	0.194	0.150	0.250	3	3.90	N25	H3	7350338	
	1/4	28	3.150	0.394	0.984	0.255	0.189	0.310	3	5.50	N3	H5		7350357
	1/4	28	3.150	0.394	0.984	0.255	0.189	0.310	3	5.50	N3	H3		7350358
1/4		20	3.150	0.394	0.984	0.255	0.189	0.310	3	5.10	N7	H5	7350339	
1/4		20	3.150	0.394	0.984	0.255	0.189	0.310	3	5.10	N7	H3	7350340	
	5/16	24	3.543	0.472	1.339	0.318	0.236	0.380	3	6.90	I	H4		7350359
	5/16	24	3.543	0.472	1.339	0.318	0.236	0.380	3	6.90	I	H3		7350360
5/16		18	3.543	0.472	1.339	0.318	0.236	0.380	3	6.60	F	H5	7350341	
5/16		18	3.543	0.472	1.339	0.318	0.236	0.380	3	6.60	F	H3	7350342	
	3/8	24	3.543	0.591	1.476	0.318	0.284	0.440	3	8.50	Q	H4		7350361
	3/8	24	3.543	0.591	1.476	0.318	0.284	0.440	3	8.50	Q	H3		7350362
3/8		16	3.937	0.591	1.535	0.381	0.284	0.440	3	8.00	5/16	H5	7350343	
3/8		16	3.937	0.591	1.535	0.381	0.284	0.440	3	8.00	5/16	H3	7350344	
	7/16	20	3.937	0.591	–	0.323	0.240	0.410	4	9.90	25/64	H5		7350363
7/16		14	3.937	0.591	–	0.323	0.240	0.410	4	9.40	U	H5	7350345	
	1/2	20	3.937	0.709	–	0.367	0.273	0.440	4	11.50	29/64	H5		7350364
	1/2	20	3.937	0.709	–	0.367	0.273	0.440	4	11.50	29/64	H3		7350365
1/2		13	4.331	0.709	–	0.367	0.273	0.440	4	10.70	27/64	H5	7350346	
1/2		13	4.331	0.709	–	0.367	0.273	0.440	4	10.70	27/64	H3	7350347	
	5/8	18	3.937	0.591	–	0.480	0.358	0.560	4	14.50	37/64	H5		7350366
	5/8	18	3.937	0.591	–	0.480	0.358	0.560	4	14.50	37/64	H3		7350367
5/8		11	4.331	0.787	–	0.480	0.358	0.560	4	13.50	17/32	H5	7350348	
5/8		11	4.331	0.787	–	0.480	0.358	0.560	4	13.50	17/32	H3	7350349	
	3/4	16	4.331	0.984	–	0.590	0.439	0.690	4	17.50	11/16	H5		7350368
	3/4	16	4.331	0.984	–	0.590	0.439	0.690	4	17.50	11/16	H3		7350369

UNC	UNF	TPI	l_1 Inch	l_2 Inch	l_4 Inch	d_2 Ø Inch	⍁ a Inch	l_3 Inch	No. of flutes			Limits	E812	E912
3/4		10	4.921	0.984	–	0.590	0.439	0.690	4	16.50	21/32	H5	7350350	
3/4		10	4.921	0.984	–	0.590	0.439	0.690	4	16.50	21/32	H3	7350351	
	7/8	14	4.921	0.984	–	0.697	0.520	0.750	4	20.40	13/16	H6		7350370
	7/8	14	4.921	0.984	–	0.697	0.520	0.750	4	20.40	13/16	H4		7350371
7/8		9	5.512	0.984	–	0.697	0.520	0.750	4	19.50	49/64	H6	7350352	
7/8		9	5.512	0.984	–	0.697	0.520	0.750	4	19.50	49/64	H4	7350353	
	1“	12	5.512	1.063	–	0.800	0.597	0.810	4	23.25	59/64	H6		7350372
	1“	12	5.512	1.063	–	0.800	0.597	0.810	4	23.25	59/64	H4		7350373
1“		8	6.299	1.181	–	0.800	0.597	0.810	4	22.25	7/8	H6	7350354	
1“		8	6.299	1.181	–	0.800	0.597	0.810	4	22.25	7/8	H4	7350355	

DORMER

DIN ANSI Machine Tap, Red Shark for Alloy Steels, Spiral Flute

Pack Qty = 1 pc

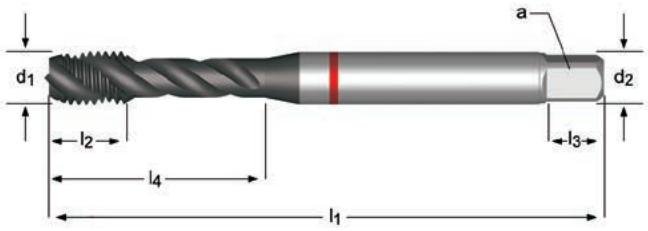
E810
E910

Designed for high performance blind hole tapping in most medium Alloy Steels. The TiAlN-Top Coating combined with a special 45° Flute Geometry and an additional edge treatment provides excellent performance and consistency in high production applications. The back taper built into this design further facilitates chip evacuation and reduces torque when the tap reverses. It is recommended to use a toolholder with minimal float or soft start.

E810; E910
- ■ 1.4 1.5
- • 1.6 4.2 5.2

E810	UNC	DIN ANSI	2B		2.5XD	HSS-E PM	C 2-3	λ45°		TiAlN Top	
E910	UNF	DIN ANSI	2B		2.5XD	HSS-E PM	C 2-3	λ45°		TiAlN Top	

SHARK LINE




E810


E910

No.4 – 1"

No.10 – 1"

UNC	UNF	TPI	l_1 Inch	l_2 Inch	l_4 Inch	d_2 Ø Inch	☐ a Inch	l_3 Inch	No. of flutes	↔	↔	Limits	E810	E910
4		40	2.205	0.256	0.709	0.141	0.108	0.236	3	2.35	N43	H2	7350430	
6		32	2.205	0.256	0.787	0.141	0.108	0.190	3	2.85	N36	H2	7350431	
8		32	2.480	0.276	0.827	0.168	0.129	0.250	3	3.50	N29	H3	7350432	
	10	32	2.756	0.315	1.102	0.194	0.150	0.250	3	4.10	N21	H3		7350443
10		24	2.756	0.315	1.102	0.194	0.150	0.250	3	3.90	N25	H3	7350433	
	1/4	28	3.150	0.394	0.984	0.255	0.189	0.310	3	5.50	N3	H4		7350444
1/4		20	3.150	0.394	0.984	0.255	0.189	0.310	3	5.10	N7	H5	7350434	
	5/16	24	3.543	0.472	1.339	0.318	0.236	0.380	3	6.9	I	H4		7350445
5/16		18	3.543	0.472	1.339	0.318	0.236	0.380	3	6.60	F	H5	7350435	
	3/8	24	3.543	0.591	1.476	0.381	0.284	0.440	3	8.50	Q	H4		7350446
3/8		16	3.937	0.591	1.535	0.381	0.284	0.440	3	8.00	5/16	H4	7350436	
	7/16	20	3.937	0.591	–	0.323	0.240	0.410	3	9.90	25/64	H5		7350447
7/16		14	3.937	0.591	–	0.323	0.240	0.410	3	9.40	U	H5	7350437	
	1/2	20	3.937	0.709	–	0.367	0.273	0.440	3	11.50	29/64	H5		7350448
1/2		13	4.331	0.709	–	0.367	0.273	0.440	3	10.80	27/64	H5	7350438	
	5/8	18	3.937	0.591	–	0.480	0.358	0.560	4	14.50	37/64	H5		7350449
5/8		11	4.331	0.787	–	0.480	0.358	0.560	4	13.50	17/32	H5	7350439	
	3/4	16	4.331	0.984	–	0.590	0.439	0.690	4	17.50	11/16	H5		7350450
3/4		10	4.921	0.984	–	0.590	0.439	0.690	4	16.50	21/32	H5	7350440	
	7/8	14	4.921	0.984	–	0.697	0.520	0.750	4	20.40	13/16	H6		7350451
7/8		9	5.512	0.984	–	0.697	0.520	0.750	4	19.50	49/64	H6	7350441	
	1"	12	5.512	1.063	–	0.800	0.597	0.810	4	23.25	59/64	H6		7350452
1"		8	6.299	1.181	–	0.800	0.597	0.810	4	22.25	7/8	H6	7350442	

DIN ANSI Machine Tap, Yellow Shark for Low Alloy Steels, Spiral Flute

Pack Qty = 1 pc

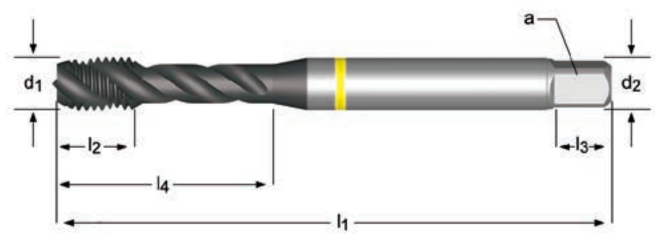
E624
E764

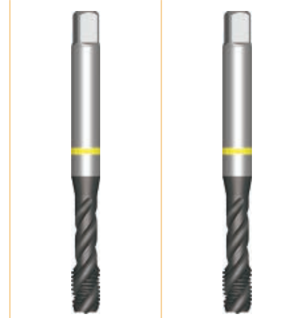
Designed for blind hole tapping in low Alloy Steel applications. Premium HSCo Powder Metal substrate with TiAlN-Top Coating combined with a special 40° Spiral Flute geometry prevents nesting and reduces the risk of re-cutting chips on reversal allowing taps to operate at higher speeds while providing improved thread quality.

E624; E764		
	■	1.1 1.2 1.3 6.1 6.3
	•	1.4 1.5 6.2

E624	M	DIN ANSI	6H		2XD	HSS-E PM	C 2-3	λ40°		TiAlN Top	
E764	MF	DIN ANSI	6H		2XD	HSS-E PM	C 2-3	λ40°		TiAlN Top	

SHARK LINE





M	MF	P mm	l_1 mm	l_2 mm	l_4 mm	d_2 Ø Inch	a Inch	l_3 mm	No. of flutes	↔ (drill)	↔ (drill)	Limits	E624	E764
4		0.70	63	7	21	0.168	0.129	6	3	3.30	N30	D4	7350533	
5		0.80	70	8	25	0.194	0.150	6	3	4.20	N19	D4	7350534	
6		1.00	80	10	30	0.255	0.189	8	3	5.00	N9	D5	7350535	
	8	1.00	90	13	35	0.318	0.236	10	3	7.00	J	D5		7350544
8		1.25	90	13	35	0.318	0.236	10	3	6.80	H	D5	7350536	
	10	1.25	100	15	39	0.381	0.284	11	3	8.80	11/32	D6		7350545
10		1.50	100	15	39	0.381	0.284	11	3	8.50	Q	D6	7350537	
	12	1.25	100	15	–	0.367	0.273	11	3	10.80	27/64	D6		7350546
	12	1.50	100	15	–	0.367	0.273	11	3	10.50	Z	D6		7350547
12		1.75	110	18	–	0.367	0.273	11	3	10.30	Y	D6	7350538	
	14	1.50	100	15	–	0.429	0.320	13	3	12.50	31/64	D7		7350548
14		2.00	110	20	–	0.429	0.320	13	3	12.00	15/32	D7	7350539	
	16	1.50	100	15	–	0.480	0.358	14	4	14.50	9/16	D7		7350549
16		2.00	110	20	–	0.480	0.358	14	4	14.00	35/64	D7	7350540	
	18	1.50	110	17	–	0.542	0.404	16	4	16.50	41/64	D7		7350550
18		2.50	125	25	–	0.542	0.404	16	4	15.50	39/64	D7	7350541	
20		2.50	140	25	–	0.652	0.487	18	4	17.50	11/16	D7	7350542	
24		3.00	160	30	–	0.760	0.567	19	4	21.00	53/64	D8	7350543	

DORMER

DIN ANSI Machine Tap, Blue Shark for Stainless Steel, Spiral Flute

Pack Qty = 1 pc

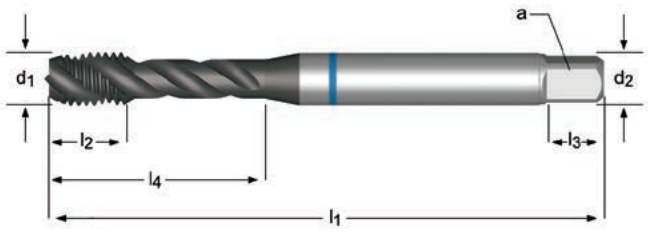
E628
E768

Designed for superior performance blind hole tapping in a wide range of Stainless Steel types. Premium HSCo Powder Metal substrate with Super-B (TiAlN+WC/C) Coating combined with an additional edge treatment and a 40° Flute angle facilitates better chip evacuation offering improved thread quality and longer tool life. Available in both 2B and 3B Class of Fit to cover a wide range of applications.

E628; E768
- ■ 2.1 2.2 2.3
- • 1.3 1.4 1.5 1.6

E628	M	DIN ANSI	6H		2.5XD	HSS-E PM	C 2-3	λ40°		Super B	
E768	MF	DIN ANSI	6H		2.5XD	HSS-E PM	C 2-3	λ40°		Super B	

SHARK LINE




E628

M4 – M24


E768

M8 – M18

M	MF	P mm	l_1 mm	l_2 mm	l_4 mm	d_2 Ø Inch	☐ a Inch	l_3 mm	No. of flutes	↔	↔	Limits	E628	E768
4		0.70	63	7	21	0.168	0.129	6	3	3.30	N30	D4	7350374	
5		0.80	70	8	25	0.194	0.150	6	3	4.20	N19	D4	7350375	
6		1.00	80	10	30	0.255	0.189	8	3	5.00	N9	D5	7350376	
	8	1.00	90	13	35	0.318	0.236	10	3	7.00	J	D5		7350385
8		1.25	90	13	35	0.318	0.236	10	3	6.80	H	D5	7350377	
	10	1.25	100	15	39	0.381	0.284	11	3	8.80	11/32	D6		7350386
10		1.50	100	15	39	0.381	0.284	11	3	8.50	Q	D6	7350378	
	12	1.50	100	15	–	0.367	0.273	11	4	10.50	Z	D6		7350387
12		1.75	110	18	–	0.367	0.273	11	4	10.30	Y	D6	7350379	
	14	1.50	100	15	–	0.429	0.320	13	4	12.50	31/64	D7		7350388
14		2.00	110	20	–	0.429	0.320	13	4	12.00	15/32	D7	7350380	
	16	1.50	100	15	–	0.480	0.358	14	4	14.50	9/16	D7		7350389
16		2.00	110	20	–	0.480	0.358	14	4	14.00	35/64	D7	7350381	
	18	1.50	110	17	–	0.542	0.404	16	4	16.50	41/64	D7		7350390
18		2.50	125	25	–	0.542	0.404	16	4	15.50	39/64	D7	7350382	
20		2.50	140	25	–	0.652	0.487	18	4	17.50	11/16	D7	7350383	
24		3.00	160	30	–	0.760	0.567	19	4	21.00	53/64	D8	7350384	

DIN ANSI Machine Tap, Red Shark for Alloy Steels, Spiral Flute

Pack Qty = 1 pc

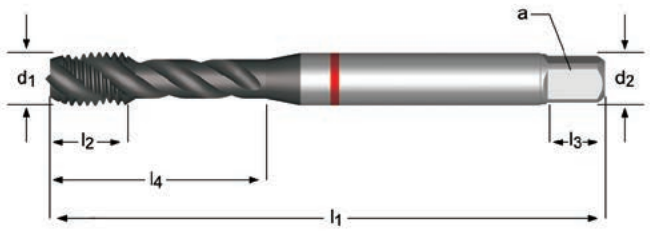
E626
E766

Designed for high performance blind hole tapping in most medium Alloy Steels. The TiAlN-Top Coating combined with a special 45° Flute Geometry and an additional edge treatment provides excellent performance and consistency in high production applications. The back taper built into this design further facilitates chip evacuation and reduces torque when the tap reverses. It is recommended to use a toolholder with minimal float or soft start.

E626; E766
▪ 1.4 1.5
• 1.6 4.2 5.2

E626	M	DIN ANSI	6H		2.5XD	HSS-E PM	C 2-3	λ45°		TiAlN Top	
E766	MF	DIN ANSI	6H		2.5XD	HSS-E PM	C 2-3	λ45°		TiAlN Top	

SHARK LINE




E626
M3 – M24


E766
M8 – M14

M	MF	P mm	l_1 mm	l_2 mm	l_4 mm	d_2 Ø Inch	⍁ a Inch	l_3 mm	No. of flutes	↔	↔	Limits	E626	E766
3		0.50	56	6	18	0.141	0.108	5	3	2.50	N40	D3	7350453	
4		0.70	63	7	21	0.168	0.129	6	3	3.30	N30	D4	7350454	
5		0.80	70	8	25	0.194	0.150	6	3	4.20	N19	D4	7350455	
6		1.00	80	10	30	0.255	0.189	8	3	5.00	N9	D5	7350456	
	8	1.00	90	13	35	0.318	0.236	10	3	7.00	J	D5		7350465
8		1.25	90	13	35	0.318	0.236	10	3	6.80	H	D5	7350457	
	10	1.25	100	15	39	0.381	0.284	11	3	8.80	11/32	D6		7350466
10		1.50	100	15	39	0.381	0.284	11	3	8.50	Q	D6	7350458	
	12	1.25	100	15	–	0.367	0.273	11	3	10.80	27/64	D6		7350467
12		1.75	110	18	–	0.367	0.273	11	3	10.30	Y	D6	7350459	
	14	1.50	100	15	–	0.429	0.320	13	3	12.50	31/64	D7		7350468
14		2.00	110	20	–	0.429	0.320	13	3	12.00	15/32	D7	7350460	
16		2.00	110	20	–	0.480	0.358	14	4	14.00	35/64	D7	7350461	
18		2.50	125	25	–	0.542	0.404	16	4	15.50	39/64	D7	7350462	
20		2.50	140	25	–	0.652	0.487	18	4	17.50	11/16	D7	7350463	
24		3.00	160	30	–	0.760	0.567	19	4	21.00	53/64	D8	7350464	

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Icon descriptions

Thread form	 Unified Coarse	 Unified Fine	 Metric coarse	 Metric fine	
Standard					
Tolerance					
Hole Type	 Through hole	 Blind hole	 Through or blind hole		
Depth					
Material	 High Speed Cobalt Powder Metallurgy Steel				
Chamfer	 Plug chamfer	 Semi - bottoming	 Full - bottoming		
Flute Geometry	 Straight Flute	 Spiral Point	 40º	 45º	
Direction	 Right				
Coating	 Titanium Aluminium Nitride - Top	 Titanium Aluminium Nitride + Tungsten Carbide Carbon			
Coolant	 Internal Coolant (Axial)				
Rating	■ Excellent	● Good			

SIMPLY RELIABLE

As a professional you can judge the quality of work by just looking at the chip. Our chip is a clean and uncomplicated shape that in itself tells a story. It is a clear and consistent signal and that's why we use it as a symbol for being **simply reliable**.

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