



Shark Line

Material specific application taps

2018



SHARK LINE



INTRODUCTION

Our material specific application-based range of DIN Shark Taps offer high **performance** and **process security**.

This range has been expanded with two new tap designs for blind hole threading up to 3xD in stainless steels and steels.

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 3xD blind holes in stainless steels and steels with tensile strength up to 1200 N/mm².

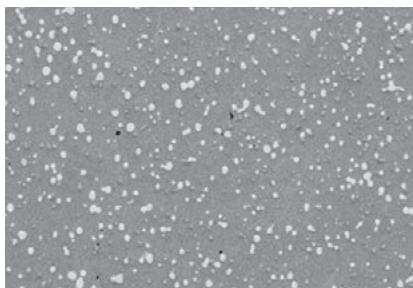
- **EDGE TREATMENT (Red, Yellow, Blue Shark)**

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**.

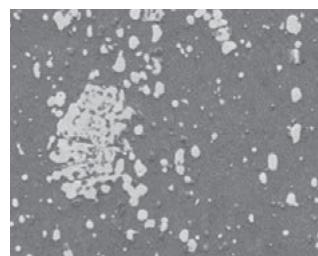


MATERIAL

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.



Unique HSS-E-PM material used for **SHARK TAPS**
(note the evenly dispersed grain structure)



Traditional HSS-E (M35)
material

GEOMETRY AND CHAMFER



The new E412 & E414 taps feature a 48° spiral flute with constant rake angle and are back tapered. This supports:

- Threading up to 3xD
- Low torque

- Excellent threads at both high and low speeds
- Superior surface finish
- Process security



**STRUCTURAL, PLAIN CARBON & LOW ALLOY STEELS****YELLOW SHARK****• SURFACE TREATMENT**

Hard chrome plating (Cr) with an additional edge treatment prevents built up edge when tapping in materials prone to sticking to the cutting edges.

• 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.

• THREAD FORMS

Metric and Metric Fine

• PRODUCT CODES

E297, E298, E299, E300

YELLOW SHARK**3xD NEW****• SURFACE TREATMENT**

TiAlN-Top coating with an additional edge treatment.

• FLUTE GEOMETRY

Spiral flute angle of 48° facilitates smooth and fast chip evacuation, making it suitable for threading deep blind holes (3xD). The increased thread relief also enables higher cutting speeds in high strength steels.

• CUTTING GEOMETRY

The special 3-radii profile with a constant rake angle all along the flute length leads to a better control of cutting properties and prevents nest formation of chips.

• BACK TAPERED

Back taper 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 48° spiral flute Yellow Shark taps, it is recommended to use a tool holder with minimal float or soft start.

• THREAD FORMS

Metric

• PRODUCT CODE

E412



STAINLESS STEELS

BLUE SHARK



- **SURFACE TREATMENT**

Steam-tempered or Super-B (TiAlN + WC/C) coated with an additional edge treatment.

- **FLUTE GEOMETRY**

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

- **BACK TAPERED**

Back taper on spiral flute taps further facilitates chip evacuation, reducing chipping on the last threads of the taps and also reducing torque when the tap reverses.

- **THREAD FORMS**

Metric, Metric Fine and G(BSP)

- **PRODUCT CODES**

E238, E239, E240, E241, E382, E383, E384

BLUE SHARK

3xD NEW



- **SURFACE TREATMENT**

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

- **FLUTE GEOMETRY**

Spiral flute angle of 48° facilitates smooth and fast chip evacuation, making it suitable for threading deep blind holes (3xD). The increased thread relief ensures process security when tapping resilient materials such as stainless steel.

- **CUTTING GEOMETRY**

The special 3-radii profile with a constant rake angle all along the flute length leads to a better control of cutting properties and prevents nest formation of chips.

- **BACK TAPERED**

Back taper 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 48° spiral flute Blue Shark taps, it is recommended to use a tool holder with minimal float or soft start.

- **THREAD FORMS**

Metric

- **PRODUCT CODE**

E414

SHARK LINE

ALLOY STEELS

RED SHARK



• SURFACE TREATMENT

Bright or TiAlN-Top coated 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 the spiral flute taps prevents nest formation of chips.

• BACK TAPERED

Back taper on spiral flute taps further facilitates chip evacuation, reducing chipping on the last threads of the taps and also reducing torque when the tap reverses.

• CUTTING GEOMETRY (Spiral Flute Taps)

The special 3-radii profile with a constant rake angle all along the flute length leads to better control of cutting properties and prevents nest formation of chips.

• TOOL HOLDING Recommendation

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

• THREAD FORMS

Metric

• PRODUCT CODES

E255, E256, E260, E261

SHARK

MATERIAL SPECIFIC APPLICATION TAPS



NON-FERROUS MATERIALS

GREEN SHARK



- SURFACE TREATMENT

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

- FLUTE GEOMETRY

Available in spiral point for through holes and spiral flute (35° angle) for blind holes.

- CUTTING GEOMETRY

The special 3-radial profile with a constant rake angle all along the flute length leads to a better control of cutting properties and prevents nest formation of chips.

- THREAD FORMS

Metric

- PRODUCT CODES

E471, E472, E473, E474

CAST IRONS

WHITE SHARK



- SURFACE TREATMENT

Steam-tempered or TiAlN-Top coated.

- FLUTE GEOMETRY

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

- THREAD FORMS

Metric

- PRODUCT CODES

E201, E252, E390

	M	M	M	M	M	M	M	M	M	M	M	M	M
	DIN 371	DIN 376	DIN 371x10 376x12										
	6HX	6HX	6HX	6H									
	2XD	2XD	2XD	2.5XD	2XD	3XD	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
	C 2-3	C 2-3	C 2-3	B 3.5-5	C 2-3	C 2-3	C 2-3						
	ST	ST	TiAIN	Cr	TiAIN Top	ST	Super B	Super B	Cr	TiAIN Top			
	SHARK LINE	SHARK LINE	SHARK LINE	SHARK LINE	SHARK LINE	SHARK LINE	SHARK LINE	SHARK LINE	SHARK LINE	SHARK LINE	SHARK LINE	SHARK LINE	SHARK LINE
	E201	E252	E390	E297	E255	E256	E240	E241	E471	E472	E298	E412	E260
	M3 - M10	M8 - M24	M3 - M20	M3 - M30	M3 - M20	M3 - M20	M3 - M30	M3 - M20	M3 - M20	M3 - M20	M3 - M30	M3 - M30	M3 - M20
AMG	10	10	10	11	12	12	13	13	14	14	15	16	17
1.1				■25					●25		■25	■50	P 1
1.2				■22					●22	●22	●22	■50	P 1
1.3				■18					●18	●18	●18	■35	P 2
1.4				●16	■16	■30			●16	●16	●16	■30	P 3
1.5				●10	●7	■17	●7		●10	●10	●10	●16	P 4
1.6					●4	●11						●7	H 1
1.7													H 3
1.8													H 4
2.1							■8	■14				●14	M 1
2.2							■7	■10				●10	M 3
2.3							■5	■6				●6	M 2
2.4													S 2
3.1	■15	■15	■30										K 1
3.2	■8	■8	■25										K 2
3.3	■15	■15	■35										K 3
3.4	●8	●8	●25										K 4
4.1													S 1
4.2					●2	●3						●2	S 2
4.3													S 3
5.1													S 1
5.2					●2	●3						●2	S 2
5.3													S 3
6.1				■12					●12		■12		N 3
6.2	●20	●20	●30	●30					■30	■45	●30		N 4
6.3				■20					■20	●35	■20		N 3
6.4	●5	●5	●5										N 4
7.1							■16	●35				●16	N 1
7.2							■35	■45				●16	N 1
7.3							■20	■30				●35	N 1
7.4	●15	●15	●20				●15	■20				●35	N 2
8.1							■25	●30					O
8.2	■10	■10	■15										O
8.3													O
9.1													H
10.1													O

	M	M	M	M	M	M	MF	MF	MF	G	
	DIN 371x10 376x12	DIN 371x10 376x12	DIN 371x10 376x12	DIN 371x10 376x12	DIN 371x10 376x12	DIN 371x10 376x12	DIN 374	DIN 374	DIN 374	DIN 5156	
	6H	6H	6H	6H	6H	6H	6H	6H	6H	Normal	
	2.5xD	2.5xD	2.5xD	3xD	2.5xD	2.5xD	2.5xD	2.5xD	2xD	2xD	2xD
	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	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	B 3.5-5	B 3.5-5	C 2-3	C 2-3	C 2-3
	λ 45°	λ 40°	λ 40°	λ 48°	λ 35°	λ 35°			λ 40°	λ 40°	λ 40°
	TiAIN Top	ST	Super B	Super B	Super B	Cr	ST	Cr	ST	ST	
	SHARK LINE	SHARK LINE	SHARK LINE	SHARK LINE	SHARK LINE	L114					
	E261	E238	E239	E414	E473	E474	E299	E384	E300	E383	E382
	M3 - M20	M3 - M30	M3 - M20	M3 - M20	M3 - M20	M3 - M20	M4 - M30	M6 - M20	M4 - M30	M6 - M20	1/8 - 1"
	NEW										Set
	17	18	18	19	20	20	21	22	23	24	25
	26										
AMG											ISO
1.1				•25		■25		■25			P 1
1.2		•22		•22	•40	■22		■22			P 1
1.3		•18	•32	•18	•32	■18		■18			P 2
1.4	■35	•16	•27			•16		•16			P 3
1.5	■20	•7	•10	•13		•10	•7	•10	•7	•7	P 4
1.6	•11										H 1
1.7											H 3
1.8											H 4
2.1	■8	■14	■16				■8		■8	■8	M 1
2.2	■7	■10	■12				■7		■7	■7	M 3
2.3	■5	■6	■8				■5		■5	■5	M 2
2.4			■6								S 2
3.1											K 1
3.2											K 2
3.3											K 3
3.4											K 4
4.1											S 1
4.2	•3										S 2
4.3											S 3
5.1											S 1
5.2	•3										S 2
5.3											S 3
6.1				•12		■12		■12			N 3
6.2				■30	■45	•30		•30			N 4
6.3				■20	•35	■20		■20			N 3
6.4											N 4
7.1				■16	•35						N 1
7.2				■35	■45						N 1
7.3				■20	■30						N 1
7.4				•15	■20						N 2
8.1				■25	•30						O
8.2											O
8.3											O
9.1											H
10.1											O

E201

E252

- M Machine Tap Straight Flute, White Shark

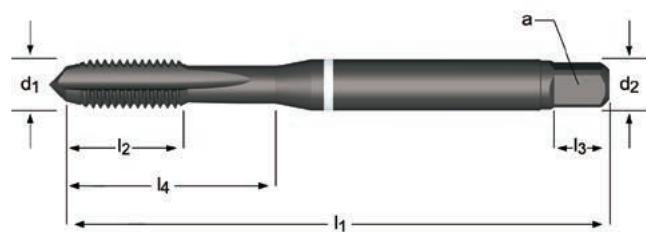
Supplied in HSS-E until new stock available

E390

E201; E252; E390

- 3.1 3.2 3.3 8.2
- 3.4 6.2 6.4 7.4

E201	M	DIN 371	6HX		2XD	HSS-E PM	C 2-3			ST	
E252	M	DIN 376	6HX		2XD	HSS-E PM	C 2-3			ST	
E390	M	DIN 371^{≤10} 376>12	6HX		2XD	HSS-E PM	C 2-3			TiAIN	



M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	E201	E252	E390
3	0.50	56	9	3.5	2.7	6	3		18	E201M3		E390M3
4	0.70	63	12	4.5	3.4	6	4		21	E201M4		E390M4
5	0.80	70	13	6.0	4.9	8	4		25	E201M5		E390M5
6	1.00	80	15	6.0	4.9	8	4		30	E201M6		E390M6
8	1.25	90	18	6.0	4.9	8	4				E252M8	
8	1.25	90	18	8.0	6.2	9	4		35	E201M8		E390M8
10	1.50	100	20	10.0	8.0	11	4		39	E201M10		E390M10
10	1.50	100	20	7.0	5.5	8	4				E252M10	
12	1.75	110	23	9.0	7.0	10	4				E252M12	
14	2.00	110	25	11.0	9.0	12	4				E252M14	
16	2.00	110	25	12.0	9.0	12	4				E252M16	
18	2.50	125	30	14.0	11.0	14	4				E252M18	
20	2.50	140	30	16.0	12.0	15	4				E252M20	
22	2.50	140	34	18.0	14.5	17	4				E252M22	
24	3.00	160	38	18.0	14.5	17	4		21.0			E252M24

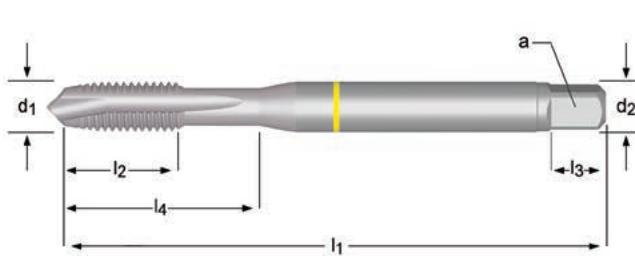
E297

• M Machine Tap Spiral Point, Yellow Shark

E297 • 1.1 1.2 1.3 6.1 6.3

• 1.4 1.5 6.2

E297

MDIN
371 \leq 10
376 \geq 12**6H****2.5XD****HSS-E**
PM**B**
3.5-5**E297**

M3 - M30

M	P mm	l₁ mm	l₂ mm	d₂ Ø mm	a mm	l₃ mm	z		l₄ mm	E297
3	0.50	56	9	3.5	2.7	6	3	2.5	18	E297M3
4	0.70	63	12	4.5	3.4	6	3	3.3	21	E297M4
5	0.80	70	13	6.0	4.9	8	3	4.2	25	E297M5
6	1.00	80	15	6.0	4.9	8	3	5.0	30	E297M6
8	1.25	90	18	8.0	6.2	9	3	6.8	35	E297M8
10	1.50	100	20	10.0	8.0	11	3	8.5	39	E297M10
12	1.75	110	23	9.0	7.0	10	3	10.3	-	E297M12
14	2.00	110	25	11.0	9.0	12	3	12.0	-	E297M14
16	2.00	110	25	12.0	9.0	12	3	14.0	-	E297M16
18	2.50	125	30	14.0	11.0	14	3	15.5	-	E297M18
20	2.50	140	30	16.0	12.0	15	3	17.5	-	E297M20
22	2.50	140	34	18.0	14.5	17	4	19.5	-	E297M22
24	3.00	160	38	18.0	14.5	17	4	21.0	-	E297M24
27	3.00	160	38	20.0	16.0	19	4	24.0	-	E297M27
30	3.50	180	45	22.0	18.0	21	4	26.5	-	E297M30

E255

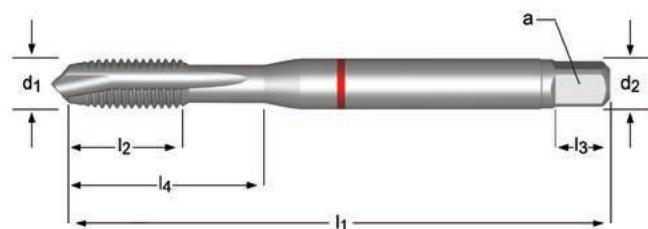
- M Machine Tap Spiral Point, Red Shark

Supplied in HSS-E until new stock available

E256

E255	■	1.4							
	•	1.5	1.6	4.2	5.2				

E256	■	1.4	1.5						
	•	1.6	4.2	5.2					



M	P mm	l_1 mm	l_2 mm	d_2 Ø mm	\square a mm	l_3 mm	z		l_4 mm	E255	E256
3	0.50	56	9	3.5	2.7	6	3	2.5	18	E255M3	E256M3
4	0.70	63	12	4.5	3.4	6	3	3.3	21	E255M4	E256M4
5	0.80	70	13	6.0	4.9	8	3	4.2	25	E255M5	E256M5
6	1.00	80	15	6.0	4.9	8	3	5.0	30	E255M6	E256M6
8	1.25	90	18	8.0	6.2	9	3	6.8	35	E255M8	E256M8
10	1.50	100	20	10.0	8.0	11	3	8.5	39	E255M10	E256M10
12	1.75	110	23	9.0	7.0	10	3	10.3	-	E255M12	E256M12
14	2.00	110	25	11.0	9.0	12	3	12.0	-	E255M14	
16	2.00	110	25	12.0	9.0	12	3	14.0	-	E255M16	E256M16
20	2.50	140	30	16.0	12.0	15	4	17.5	-	E255M20	E256M20

E240

- M Machine Tap Spiral Point, Blue Shark

E241

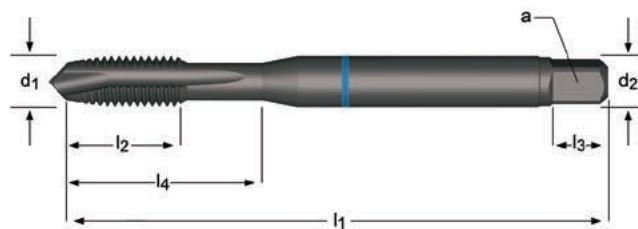
E240 ▪ 2.1 2.2 2.3

• 1.5

E241 ▪ 2.1 2.2 2.3

• 1.2 1.3 1.4 1.5

E240								
E241								



M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	◻ a mm	l ₃ mm	z		l ₄ mm	E240	E241
3	0.50	56	9	3.5	2.7	6	3	2.5	18	E240M3	E241M3
4	0.70	63	12	4.5	3.4	6	3	3.3	21	E240M4	E241M4
5	0.80	70	13	6.0	4.9	8	3	4.2	25	E240M5	E241M5
6	1.00	80	15	6.0	4.9	8	3	5.0	30	E240M6	E241M6
8	1.25	90	18	8.0	6.2	9	3	6.8	35	E240M8	E241M8
10	1.50	100	20	10.0	8.0	11	3	8.5	39	E240M10	E241M10
12	1.75	110	23	9.0	7.0	10	4	10.3	-	E240M12	E241M12
14	2.00	110	25	11.0	9.0	12	4	12.0	-	E240M14	E241M14
16	2.00	110	25	12.0	9.0	12	4	14.0	-	E240M16	E241M16
18	2.50	125	30	14.0	11.0	14	4	15.5	-	E240M18	E241M18
20	2.50	140	30	16.0	12.0	15	4	17.5	-	E240M20	E241M20
22	2.50	140	34	18.0	14.5	17	4	19.5	-	E240M22	
24	3.00	160	38	18.0	14.5	17	4	21.0	-	E240M24	
27	3.00	160	38	20.0	16.0	19	4	24.0	-	E240M27	
30	3.50	180	45	22.0	18.0	21	4	26.5	-	E240M30	

E471

• M Machine Tap Spiral Point, Green Shark

Supplied in HSS-E until new stock available

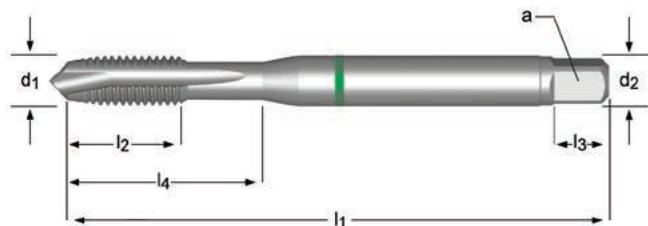
E472

E471	▪	6.2	6.3	7.1	7.2	7.3	8.1
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•	1.1	1.2	1.3	6.1	7.4
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E472	▪	6.2	7.2	7.3	7.4
------	---	-----	-----	-----	-----

•	1.2	1.3	6.3	7.1	8.1
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M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	E471	E472
3	0.50	56	9	3.5	2.7	6	2	2.5	18	E471M3	E472M3
4	0.70	63	12	4.5	3.4	6	2	3.3	21	E471M4	E472M4
5	0.80	70	13	6.0	4.9	8	2	4.2	25	E471M5	E472M5
6	1.00	80	15	6.0	4.9	8	3	5.0	30	E471M6	E472M6
8	1.25	90	18	8.0	6.2	9	3	6.8	35	E471M8	E472M8
10	1.50	100	20	10.0	8.0	11	3	8.5	39	E471M10	E472M10
12	1.75	110	23	9.0	7.0	10	3	10.3	-	E471M12	E472M12
16	2.00	110	25	12.0	9.0	12	4	14.0	-	E471M16	E472M16
20	2.50	140	30	16.0	12.0	15	4	17.5	-	E471M20	E472M20

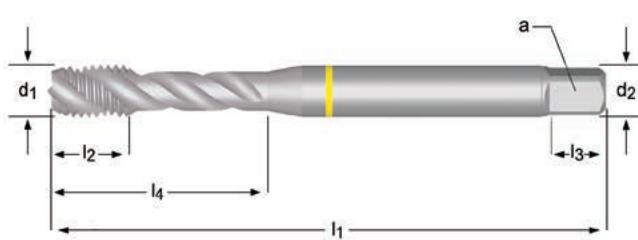
E298

- M Machine Tap Spiral Flute 40°, Yellow Shark

E298 • 1.1 1.2 1.3 6.1 6.3

• 1.4 1.5 6.2

E298

MDIN
371≤10
376≥12**6H****2XD****HSS-E
PM****C
2-3**

E298



SHARK LINE



M3 - M30

M	P mm	l_1 mm	l_2 mm	d_2 \varnothing mm	\square a mm	l_3 mm	z		l_4 mm	E298
3	0.50	56	6	3.5	2.7	6	3	2.5	18	E298M3
4	0.70	63	7	4.5	3.4	6	3	3.3	21	E298M4
5	0.80	70	8	6.0	4.9	8	3	4.2	25	E298M5
6	1.00	80	10	6.0	4.9	8	3	5.0	30	E298M6
8	1.25	90	13	8.0	6.2	9	3	6.8	35	E298M8
10	1.50	100	15	10.0	8.0	11	3	8.5	39	E298M10
12	1.75	110	18	9.0	7.0	10	3	10.3	-	E298M12
14	2.00	110	20	11.0	9.0	12	3	12.0	-	E298M14
16	2.00	110	20	12.0	9.0	12	4	14.0	-	E298M16
18	2.50	125	25	14.0	11.0	14	4	15.5	-	E298M18
20	2.50	140	25	16.0	12.0	15	4	17.5	-	E298M20
22	2.50	140	25	18.0	14.5	17	4	19.5	-	E298M22
24	3.00	160	30	18.0	14.5	17	4	21.0	-	E298M24
27	3.00	160	30	20.0	16.0	19	4	24.0	-	E298M27
30	3.50	160	36	22.0	18.0	21	4	26.5	-	E298M30

E412

• M Machine Tap Spiral Flute 48°, Back Tapered, Yellow Shark

E412 ■ 1.1 1.2 1.3 1.4 1.5

• 2.1 2.2 2.3 7.1 7.2 7.3 7.4

E412

M

DIN
371<10
376>12

6H

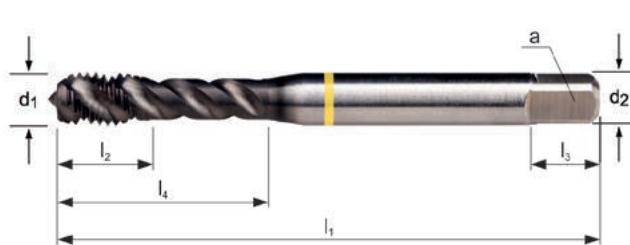


3XD

HSS-E
PM

C
2-3

λ 48°



NEW

E412

SHARK LINE



M3 - M30

M	P mm	l_1 mm	l_2 mm	d_2 \varnothing mm	\square a mm	l_3 mm	z		l_4 mm	E412
3	0.50	56	6	3.5	2.7	6	3	2.5	18	E412M3
4	0.70	63	7	4.5	3.4	6	3	3.3	21	E412M4
5	0.80	70	8	6.0	4.9	8	3	4.2	25	E412M5
6	1.00	80	10	6.0	4.9	8	3	5.0	30	E412M6
8	1.25	90	13	8.0	6.2	9	3	6.8	35	E412M8
10	1.50	100	15	10.0	8.0	11	3	8.5	39	E412M10
12	1.75	110	18	9.0	7.0	10	3	10.3	-	E412M12
14	2.00	110	20	11.0	9.0	12	3	12.0	-	E412M14
16	2.00	110	20	12.0	9.0	12	4	14.0	-	E412M16
20	2.50	140	25	16.0	12.0	15	4	17.5	-	E412M20
22	2.50	140	25	18.0	14.5	17	4	19.5	-	E412M22
24	3.00	160	30	18.0	14.5	17	4	21.0	-	E412M24
27	3.00	160	30	20.0	16.0	19	4	24.0	-	E412M27
30	3.50	180	36	22.0	18.0	21	4	26.5	-	E412M30

E260

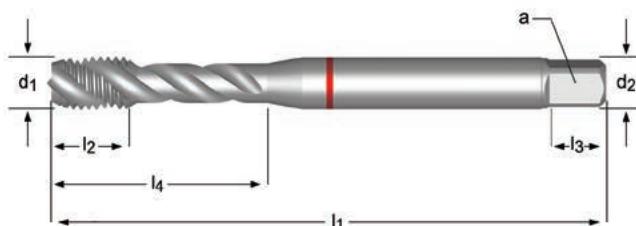
- M Machine Tap Spiral Flute 45°, Back Tapered, Red Shark

E261

Supplied in HSS-E until new stock available

E260	▪	1.4
	•	1.5 1.6 4.2 5.2
E261	▪	1.4 1.5
	•	1.6 4.2 5.2

E260											
E261											



M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	l ₄ mm	E260	E261
3	0.50	56	6	3.5	2.7	6	3	2.5	E260M3	E261M3
4	0.70	63	7	4.5	3.4	6	3	3.3	E260M4	E261M4
5	0.80	70	8	6.0	4.9	8	3	4.2	E260M5	E261M5
6	1.00	80	10	6.0	4.9	8	3	5.0	E260M6	E261M6
8	1.25	90	12	8.0	6.2	9	3	6.8	E260M8	E261M8
10	1.50	100	15	10.0	8.0	11	3	8.5	E260M10	E261M10
12	1.75	110	16	9.0	7.0	10	3	10.3	E260M12	E261M12
14	2.00	110	20	11.0	9.0	12	3	12.0	E260M14	
16	2.00	110	20	12.0	9.0	12	4	14.0	E260M16	E261M16
20	2.50	140	25	16.0	12.0	15	4	17.5	E260M20	E261M20

E238

- M Machine Tap Spiral Flute 40°, Back Tapered, Blue Shark

Supplied in HSS-E until new stock available

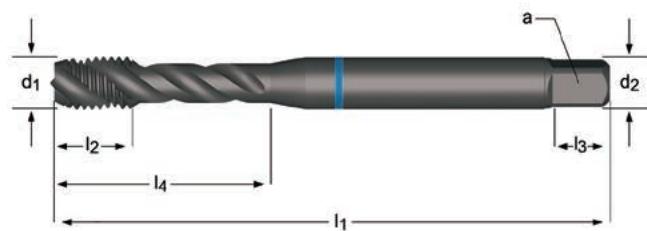
E239

E238 ■ 2.1 2.2 2.3

• 1.5

E239 ■ 2.1 2.2 2.3

• 1.2 1.3 1.4 1.5



M	P mm	l ₁ mm	l ₂ mm	d ₂ ∅ mm	a mm	l ₃ mm	z		l ₄ mm	E238	E239
3	0.50	56	6	3.5	2.7	6	3	2.5	18	E238M3	E239M3
4	0.70	63	7	4.5	3.4	6	3	3.3	21	E238M4	E239M4
5	0.80	70	8	6.0	4.9	8	3	4.2	25	E238M5	E239M5
6	1.00	80	10	6.0	4.9	8	3	5.0	30	E238M6	E239M6
8	1.25	90	13	8.0	6.2	9	3	6.8	33	E238M8	E239M8
10	1.50	100	15	10.0	8.0	11	3	8.5	39	E238M10	E239M10
12	1.75	110	18	9.0	7.0	10	4	10.3	-	E238M12	E239M12
14	2.00	110	20	11.0	9.0	12	4	12.0	-	E238M14	E239M14
16	2.00	110	20	12.0	9.0	12	4	14.0	-	E238M16	E239M16
18	2.50	125	25	14.0	11.0	14	4	15.5	-	E238M18	
20	2.50	140	25	16.0	12.0	15	4	17.5	-	E238M20	E239M20
22	2.50	140	25	18.0	14.5	17	4	19.8	-	E238M22	
24	3.00	160	30	18.0	14.5	17	4	21.0	-	E238M24	
27	3.00	160	30	20.0	16.0	19	4	24.0	-	E238M27	
30	3.50	180	36	22.0	18.0	21	4	26.5	-	E238M30	

E414

• M Machine Tap Spiral Flute 48°, Back Tapered, Blue Shark

E414 • 2.1 2.2 2.3 2.4
• 1.3 1.4 1.5

E414

M

DIN
371 \leq 10
376 \geq 12

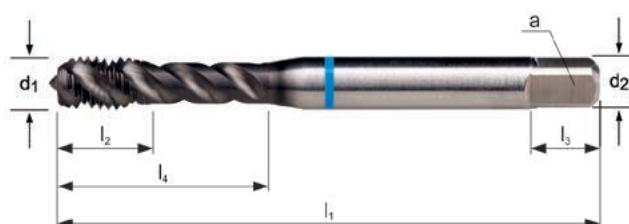
6H



3XD

HSS-E
PM

C
2-3



NEW

E414



SHARK LINE



M3 - M20

M	P mm	l_1 mm	l_2 mm	d_2 \varnothing mm	\square a mm	l_3 mm	z		l_4 mm	E414
3	0.50	56	6	3.5	2.7	6	3	2.5	18	E414M3
4	0.70	63	7	4.5	3.4	6	3	3.3	21	E414M4
5	0.80	70	8	6.0	4.9	8	3	4.2	25	E414M5
6	1.00	80	10	6.0	4.9	8	3	5.0	30	E414M6
8	1.25	90	13	8.0	6.2	9	3	6.8	35	E414M8
10	1.50	100	15	10.0	8.0	11	3	8.5	39	E414M10
12	1.75	110	18	9.0	7.0	10	3	10.3	-	E414M12
14	2.00	110	20	11.0	9.0	12	3	12.0	-	E414M14
16	2.00	110	20	12.0	9.0	12	4	14.0	-	E414M16
20	2.50	140	25	16.0	12.0	15	4	17.5	-	E414M20

E473

- M Machine Tap Spiral Flute 35°, Green Shark

Supplied in HSS-E until new stock available

E474

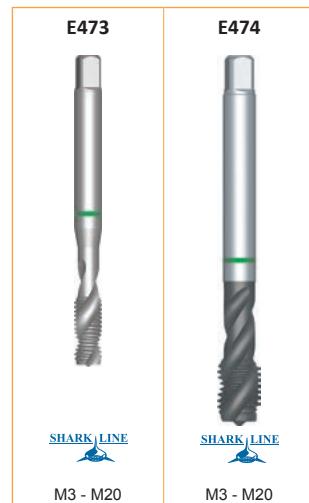
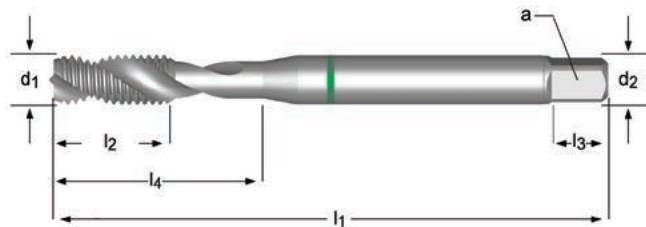
E473 ■ 6.2 6.3 7.1 7.2 7.3 8.1

● 1.1 1.2 1.3 6.1 7.4

E474 ■ 6.2 7.2 7.3 7.4

● 1.2 1.3 6.3 7.1 8.1

E473	M	DIN 371≤10 376≥12	6H		2.5XD	HSS-E PM	C 2-3	λ35°		
E474	M	DIN 371≤10 376≥12	6H		2.5XD	HSS-E PM	C 2-3	λ35°		

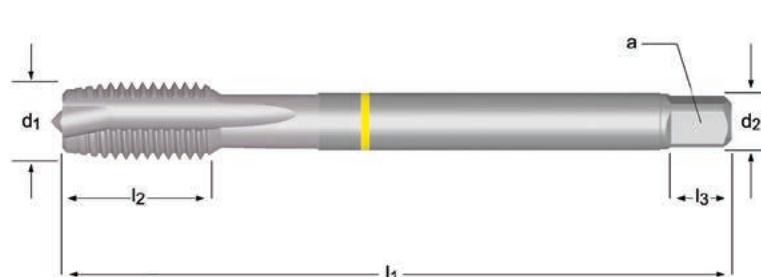


M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	E473	E474
3	0.50	56	9	3.5	2.7	6	2	2.5	18	E473M3	E474M3
4	0.70	63	12	4.5	3.4	6	2	3.3	21	E473M4	E474M4
5	0.80	70	13	6.0	4.9	8	2	4.2	25	E473M5	E474M5
6	1.00	80	15	6.0	4.9	8	2	5.0	30	E473M6	E474M6
8	1.25	90	18	8.0	6.2	9	2	6.8	35	E473M8	E474M8
10	1.50	100	20	10.0	8.0	11	2	8.5	39	E473M10	E474M10
12	1.75	110	23	9.0	7.0	10	3	10.3	-	E473M12	E474M12
16	2.00	110	25	12.0	9.0	12	3	14.0	-	E473M16	E474M16
20	2.50	140	30	16.0	12.0	15	3	17.5	-	E473M20	E474M20

E299

- MF Machine Tap Spiral Point, Yellow Shark

E299 • 1.1 1.2 1.3 6.1 6.3
• 1.4 1.5 6.2

E299**MF****DIN 374****6H****2.5XD****HSS-E PM****B 3.5-5**

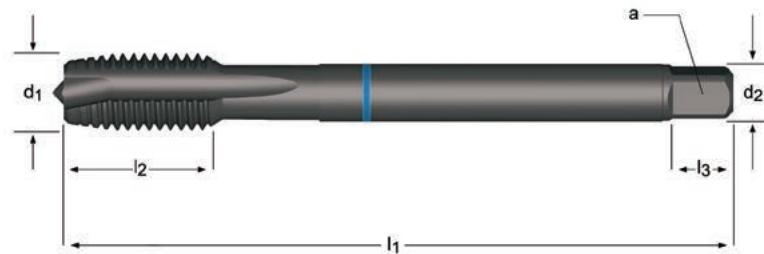
MF	P mm	l_1 mm	l_2 mm	$d_2 \varnothing$ mm	a mm	l_3 mm	z	↔	E299
4	0.50	63	12	2.8	2.1	5	3	3.5	E299M4X.5
5	0.50	70	13	3.5	2.7	6	3	4.5	E299M5X.5
6	0.75	80	15	4.5	3.4	6	3	5.3	E299M6X.75
8	0.75	80	15	6.0	4.9	8	3	7.3	E299M8X.75
8	1.00	90	18	6.0	4.9	8	3	7.0	E299M8X1.0
10	0.75	90	20	7.0	5.5	8	3	9.3	E299M10X.75
10	1.00	90	20	7.0	5.5	8	3	9.0	E299M10X1.0
10	1.25	100	20	7.0	5.5	8	3	8.8	E299M10X1.25
12	1.00	100	21	9.0	7.0	10	4	11.0	E299M12X1.0
12	1.25	100	21	9.0	7.0	10	4	10.8	E299M12X1.25
12	1.50	110	21	9.0	7.0	10	4	10.5	E299M12X1.5
14	1.00	100	21	11.0	9.0	12	4	13.0	E299M14X1.0
14	1.25	100	21	11.0	9.0	12	4	12.8	E299M14X1.25
14	1.50	100	21	11.0	9.0	12	4	12.5	E299M14X1.5
16	1.00	100	21	12.0	9.0	12	4	15.0	E299M14X1.0
16	1.50	100	21	12.0	9.0	12	4	14.5	E299M16X1.5
18	1.00	110	24	14.0	11.0	14	4	17.0	E299M18X1.0
18	1.50	110	24	14.0	11.0	14	4	16.5	E299M18X1.5
20	1.50	125	24	16.0	12.0	15	4	18.5	E299M20X1.5
22	1.50	125	25	18.0	14.5	17	4	20.5	E299M22X1.5
24	1.50	140	28	18.0	14.5	17	4	22.5	E299M24X1.5
24	2.00	140	28	18.0	14.5	17	4	22.0	E299M24X2.0
27	2.00	140	28	20.0	16.0	19	4	25.0	E299M27X2.0
30	2.00	150	28	22.0	18.0	21	4	28.0	E299M30X2.0

E384

• MF Machine Tap Spiral Point, Blue Shark

E384 ■ 2.1 2.2 2.3
• 1.5

E384 MF DIN 374 6H 2.5XD HSS-E PM B 3.5-5 ST



E384



SHARK LINE



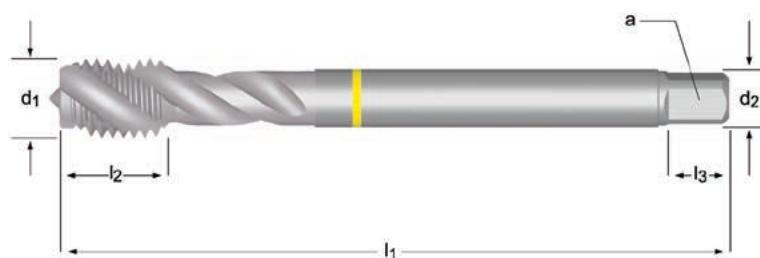
M6 - M20

MF	P mm	l_1 mm	l_2 mm	$d_2 \varnothing$ mm	\square	l_3 mm	z		E384
6	0.75	80	15	4.5	3.4	6	3		E384M6X.75
8	1.00	90	18	6.0	4.9	8	3		E384M8X1.0
10	1.00	90	20	7.0	5.5	8	3		E384M10X1.0
10	1.25	100	20	7.0	5.5	8	3		E384M10X1.25
12	1.00	100	21	9.0	7.0	10	4		E384M12X1.0
12	1.25	100	21	9.0	7.0	10	4		E384M12X1.25
12	1.50	100	21	9.0	7.0	10	4		E384M12X1.5
14	1.50	100	21	11.0	9.0	12	4		E384M14X1.5
16	1.50	100	21	12.0	9.0	12	5		E384M16X1.5
18	1.50	110	24	14.0	11.0	14	5		E384M18X1.5
20	1.50	125	24	16.0	12.0	15	5		E384M20X1.5

E300

- MF Machine Tap Spiral Flute 40°, Yellow Shark

E300 • 1.1 1.2 1.3 6.1 6.3
• 1.4 1.5 6.2



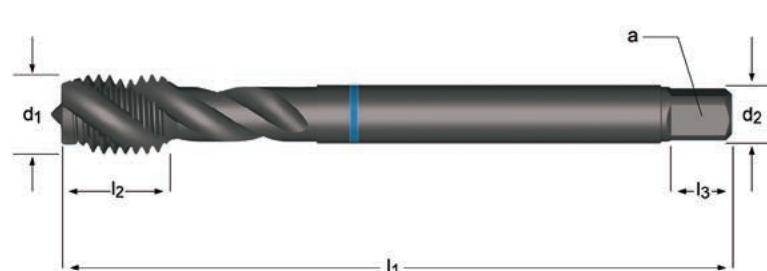
MF	P mm	l_1 mm	l_2 mm	$d_2 \varnothing$ mm	\square	l_3 mm	z		E300
4	0.50	63	6.5	2.8	2.1	5	3	3.5	E300M4X.5
5	0.50	70	7.5	3.5	2.7	6	3	4.5	E300M5X.5
6	0.75	80	10	4.5	3.4	6	3	5.3	E300M6X.75
8	0.75	80	13	6.0	4.9	8	3	7.3	E300M8X.75
8	1.00	90	13	6.0	4.9	8	3	7.0	E300M8X1.0
10	0.75	90	13	7.0	5.5	8	3	9.3	E300M10X.75
10	1.00	90	12	7.0	5.5	8	3	9.0	E300M10X1.0
10	1.25	100	15	7.0	5.5	8	3	8.8	E300M10X1.25
12	1.00	100	15	9.0	7.0	10	4	11.0	E300M12X1.0
12	1.25	100	13	9.0	7.0	10	4	10.8	E300M12X1.25
12	1.50	100	13	9.0	7.0	10	4	10.5	E300M12X1.5
14	1.00	100	15	11.0	9.0	12	4	13.0	E300M14X1.0
14	1.25	100	15	11.0	9.0	12	4	12.8	E300M14X1.25
14	1.50	100	15	11.0	9.0	12	4	12.5	E300M14X1.5
16	1.00	100	15	12.0	9.0	12	5	15.0	E300M16X1.0
16	1.50	100	15	12.0	9.0	12	5	14.5	E300M16X1.5
18	1.00	110	17	14.0	11.0	14	5	17.0	E300M18X1.0
18	1.50	110	17	14.0	11.0	14	5	16.5	E300M18X1.5
20	1.50	125	17	16.0	12.0	15	5	18.5	E300M20X1.5
22	1.50	125	17	18.0	14.5	17	5	20.5	E300M22X1.5
24	1.50	140	20	18.0	14.5	17	5	22.5	E300M24X1.5
24	2.00	140	20	18.0	14.5	17	5	22.0	E300M24X2.0
27	2.00	140	20	20.0	16.0	19	5	25.0	E300M27X2.0
30	2.00	150	20	22.0	18.0	21	5	28.0	E300M30X2.0

E383

- MF Machine Tap Spiral Flute 40°, Blue Shark

E383 ■ 2.1 2.2 2.3
• 1.5

E383 MF DIN 374 6H 2XD HSS-E PM C λ40° ST



E383



M6 - M20

MF	P mm	l_1 mm	l_2 mm	d_2 Ø mm	\square a mm	l_3 mm	z		E383
6	0.75	80	10	4.5	3.4	6	3	5.3	E383M6X.75
8	1.00	90	13	6.0	4.9	8	3	7.0	E383M8X1.0
10	1.00	90	12	7.0	5.5	8	3	9.0	E383M10X1.0
10	1.25	100	15	7.0	5.5	8	3	8.8	E383M10X1.25
12	1.00	100	13	9.0	7.0	10	4	11.0	E383M12X1.0
12	1.25	100	13	9.0	7.0	10	4	10.8	E383M12X1.25
12	1.50	100	13	9.0	7.0	10	4	10.5	E383M12X1.5
14	1.50	100	21	11.0	9.0	12	4	12.5	E383M14X1.5
16	1.50	100	21	12.0	9.0	12	5	14.5	E383M16X1.5
18	1.50	110	24	14.0	11.0	14	5	16.5	E383M18X1.5
20	1.50	125	24	16.0	12.0	15	5	18.5	E383M20X1.5

E382

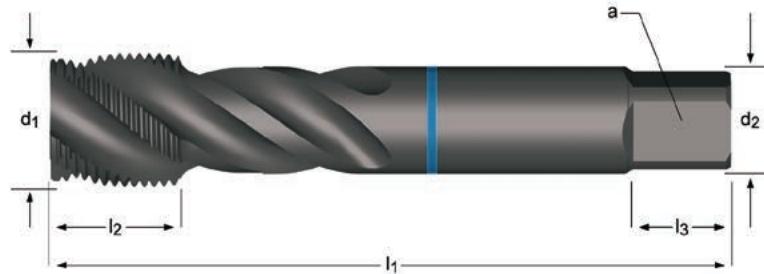
• G(BSP) Machine Tap Spiral Flute 40°, Blue Shark

E382 • 2.1 2.2 2.3
• 1.5

E382

G**DIN 5156**

Normal

**2XD****HSS-E PM****C 2-3****λ40°****ST****E382**

SHARK LINE

1/8 - 1"

G(BSP)	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ ∅ mm	a mm	l ₃ mm	z		E382
1/8	28	9.73	90	12	7.0	5.5	8	3	8.8	E3821/8
1/4	19	13.16	100	15	11.0	9.0	12	4	11.8	E3821/4
3/8	19	16.66	100	15	12.0	9.0	12	4	15.25	E3823/8
1/2	14	20.96	125	24	16.0	12.0	15	4	19.0	E3821/2
3/4	14	26.44	140	20	20.0	16.0	19	4	24.5	E3823/4
1"	11	33.25	160	24	25.0	20.0	23	4	30.75	E3821

L114 • DIN Tap-Drill Set

A= Styles in Set, B= No. in Set, M= Tap diameters in Set, D= Drill diameters in Set



L114



Set

Set	A	B	M	D	L114
Nr.301	EP006H + A002	14	EP00M3, EP00M4, EP00M5, EP00M6, EP00M8, EP00M10, EP00M12	A0022.5, A0023.3, A0024.2, A0025.0, A0026.8, A0028.5, A00210.2	L114301
Nr.302	EX006H + A002	14	EX00M3, EX00M4, EX00M5, EX00M6, EX00M8, EX00M10, EX00M12	A0022.5, A0023.3, A0024.2, A0025.0, A0026.8, A0028.5, A00210.2	L114302
Nr.303	E297 + A002 	14	E297M3, E297M4, E297M5, E297M6, E297M8, E297M10, E297M12	A0022.5, A0023.3, A0024.2, A0025.0, A0026.8, A0028.5, A00210.2	L114303
Nr.304	E298 + A002 	14	E298M3, E298M4, E298M5, E298M6, E298M8, E298M10, E298M12	A0022.5, A0023.3, A0024.2, A0025.0, A0026.8, A0028.5, A00210.2	L114304
Nr.305	E238 + A108 	14	E238M3, E238M4, E238M5, E238M6, E238M8, E238M10, E238M12	A1082.5, A1083.3, A1084.2, A1085.0, A1086.8, A1088.5, A10810.2	L114305
Nr.306	E240 + A108 	14	E240M3, E240M4, E240M5, E240M6, E240M8, E240M10, E240M12	A1082.5, A1083.3, A1084.2, A1085.0, A1086.8, A1088.5, A10810.2	L114306

M200 • Cutting Oil



M200



A		M200
1/4 Ltr. 12x	1 BLUE	M2000.25NR.1BLUE
1/4 Ltr. 12x	2 RED	M2000.25NR.2RED
1/4 Ltr. 12x	3 GREEN	M2000.25NR.3GREEN
1 Ltr.	1 BLUE	M2001.0NR.1BLUE
1 Ltr.	2 RED	M2001.0NR.2RED
1 Ltr.	3 GREEN	M2001.0NR.3GREEN
5 Ltr.	1 BLUE	M2005.0NR.1BLUE
5 Ltr.	2 RED	M2005.0NR.2RED
5 Ltr.	3 GREEN	M2005.0NR.3GREEN
20 Ltr.	1 BLUE	M20020.0NR.1BLUE

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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