

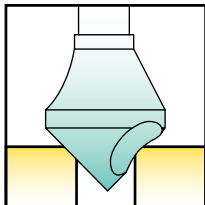
DEBURRING COUNTERSINKING

TYPE

CAPACITY

ADVANTAGES

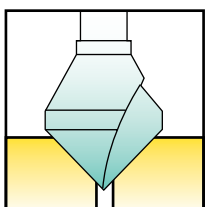
ZERO FLUTE WITH HOLE



Ex. Ø 15 = 6 - 14 mm
Ex. Ø 25 = 10 - 23 mm

- For light metals and plastics.
- For deburring and small chamfers.
- Best surface finish.
- Works without vibrations.

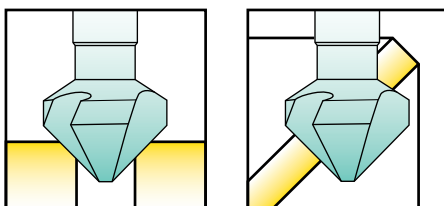
SINGLE FLUTE



Ex. Ø 15 = 2 - 15 mm
Ex. Ø 25 = 3 - 25 mm

- For wood and hard plastics.
- Can drill in sheet materials.
- Easy to sharpen.
- Works without vibrations.

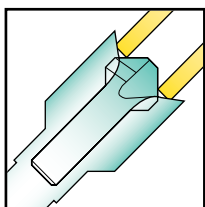
TRIDENT THREE FLUTES



Ex. Ø 15 = 5 - 15 mm
Ex. Ø 25 = 6 - 25 mm

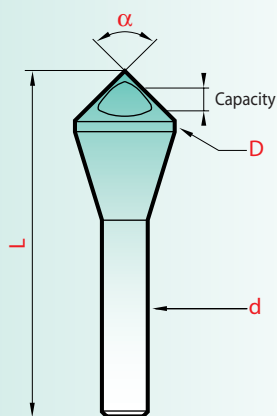
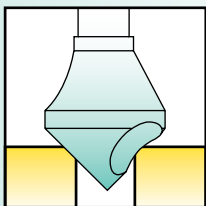
- Self-centering (3 flutes).
- Designed for 90° capscrews countersinking.
- Hand using.
- Longitudinal chamfers and contouring.
- Works without vibrations.

PIPE DEBURRERS



- Simultaneous internal / external deburring.

ZERO FLUTE DEBURRING TOOL With Hole



D	Angle	d	L
+0.3	-1°	h9	±1

Tolerances

The deburring tool "with hole" is more particularly designed for countersinking and chamfering light metals and plastics. The surface obtained is smooth and without burrs. We recommend lubricating.



Angle 90°

TYPE					Right hand		Left hand	
#	Diameter inch mm		Capacity min/max	d	L	Cobalt 411	TIN 4811	Cobalt 416
0	1/4 ⁽¹⁾		5/64 - 3/16	1/4	1-3/4	4110635	48110635	
	.394	10	5/32 - 11/32	.236	1-3/4	4111000	48111000	4161000
1	7/16		7/32 - 13/32	1/4	1-3/4	4111120	48111120	
2	9/16		1/4 - 1/2	1/4	2	4111400	48111400	
	.590	15	1/4 - 9/16	.315	2-1/4	4111500	48111500	4161500
	.787	20	5/16 - 11/16	.394	2-1/2	4112000	48112000	4162000
3	13/16		5/16 - 11/16	1/2	2-5/8	4112040	48112040	
	.984	25	3/8 - 7/8	.472	3	4112500	48112500	4162500
	1.102	28	7/16 - 1	.472	3-3/8	4112800	48112800	4162800
	1.181	30	1/2 - 1-1/8	.472	3-1/2	4113000	48113000	4163000
4	1-3/16		1/2 - 1-1/8	1/2	3-1/2	4113010	48113010	
	1.378	35	9/16 - 1-5/16	.630 ⁽²⁾	4	4113500	48113500	4163500
	1.575	40	5/8 - 1-1/2	.630 ⁽²⁾	4-5/8	4114000	48114000	4164000
	1.969	50	3/4 - 1-7/8	.630 ⁽²⁾	5	4115000	48115000	4165000

⁽¹⁾ Double end cutter⁽²⁾ Shanks with 3 flats for better holding

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Angle	#	Diameter inch mm	Capacity min/max	d	L	Cobalt
60° 412	0	1/4 ⁽¹⁾	7/64 - 3/16	1/4	1-3/4	4120635
		.394 10	3/16 - 11/32	.236 2		4121000
	1	7/16	3/16 - 3/8	1/4	1-3/4	4121120
	2	9/16	9/32 - 1/2	1/4	2	4121400
		.590 15	5/16 - 9/16	.315 2-3/8		4121500
		.787 20	3/8 - 11/16	.394 2-7/8		4122000
	3	13/16	3/8 - 11/16	1/2	2-5/8	4122040
		.984 25	1/2 - 7/8	.472 3-3/8		4122500
		1.181 30	9/16 - 1-1/8	.472 3-5/8		4123000
	4	1-3/16	9/16 - 1-1/8	1/2	3-1/2	4123010
		1.378 35	11/16 - 1-5/16	.630 ⁽²⁾ 4-1/2		4123500
82° 414	0	1/4 ⁽¹⁾	5/64 - 3/16	1/4	1-3/4	4140635
		.394 10	5/32 - 11/32	.236 1-3/4		4141000
	1	7/16	7/32 - 13/32	1/4	1-3/4	4141120
	2	9/16	1/4 - 1/2	1/4	2	4141400
		.590 15	1/4 - 9/16	.315 2-1/4		4141500
		.787 20	5/16 - 11/16	.394 2-1/2		4142000
	3	13/16	5/16 - 11/16	1/2	2-5/8	4142040
		.984 25	3/8 - 7/8	.472 3		4142500
		1.181 30	1/2 - 1-1/8	.472 3-1/2		4143000
	4	1-3/16	1/2 - 1-1/8	1/2	3-1/2	4143010
		1.378 35	9/16 - 1-5/16	.630 ⁽²⁾ 4		4143500
100° 415		.394 10	5/32 - 11/32	.236 1-3/4		4151000
		.590 15	1/4 - 9/16	.315 2-1/8		4151500
		.787 20	9/32 - 11/16	.394 2-1/2		4152000
		.984 25	11/32 - 7/8	.472 3		4152500
		1.181 30	7/16 - 1-1/16	.472 3-3/8		4153000
		1.378 35	1/2 - 1-5/16	.630 ⁽²⁾ 4		4153500
120° 413		.394 10	5/32 - 11/32	.236 1-3/4		4131000
		.590 15	1/4 - 9/16	.315 2		4131500
		.787 20	9/32 - 11/16	.394 2-3/8		4132000
		.984 25	11/32 - 7/8	.472 2-7/8		4132500
		1.181 30	7/16 - 1-1/16	.472 3-1/4		4133000
		1.378 35	1/2 - 1-5/16	.630 ⁽²⁾ 3-3/4		4133500

⁽¹⁾ Double end cutter

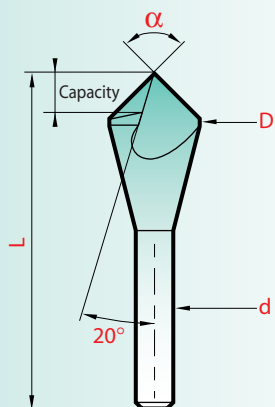
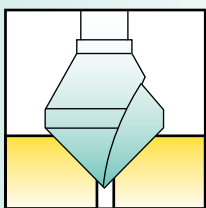
⁽²⁾ 3 flatted shanks



SETS OF 5 CUTTERS

Angle	magafor #	COMPOSITION
60°	412	Ø 10-15-20-25-30 mm
	412/5	# 0-1-2-3-4
82°	414	Ø 10-15-20-25-30 mm
	414/5	# 0-1-2-3-4
90°	411	Ø 10-15-20-25-30 mm
	4811-TIN	Ø 10-15-20-25-30 mm
	411/2	Ø 10-15-20-28-35 mm
	411/5	# 0-1-2-3-4
	4811/5-TIN	# 0-1-2-3-4
100°	415	Ø 10-15-20-25-30 mm
120°	413	Ø 10-15-20-25-30 mm

Single flute CHAMFERING CUTTERS



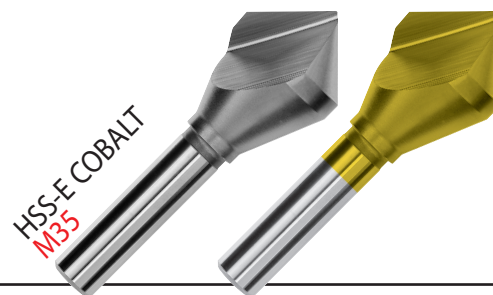
D	Angle	d	L
+0.3	-1°	h9	±1

Tolerances

The characteristics of the single flute chamfering cutters are similar to those of the deburring tools "with hole". They do vary on the following points :

- greater countersinking capacity, from the point to the outside diameter (up to Ø 30 mm),
 - simultaneous drilling and countersinking on thin elements (laminates, aluminium, wood).
- Constant finish-grind profile makes it possible to obtain many easy regrinds : a mere touch of the grinder to the tooth is sufficient. We recommend lubricating.

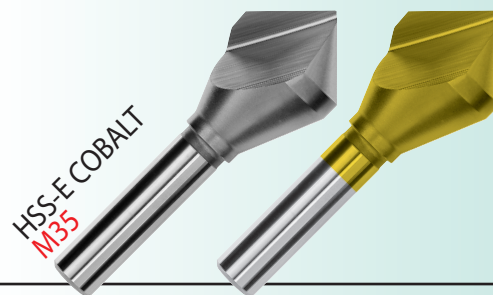
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Angle	Diameter inch mm	Capacity min/max	d	L	Cobalt 422	TIN 4822
60°	1/8	1/32 - 1/8	1/8	1-1/4	4220317	48220317
	3/16	3/64 - 3/16	3/16	1-3/8	4220476	48220476
	.236	6	.236	1-5/8	4220600	48220600
	1/4	3/64 - 1/4	1/4	1-1/2	4220635	48220635
	5/16	3/64 - 5/16	1/4	1-5/8	4220793	48220793
	3/8	3/64 - 3/8	1/4	1-3/4	4220952	48220952
	.394	10	.236	1-7/8	4221000	48221000
	.472	12	.315	2-1/8	4221200	48221200
	1/2	5/64 - 1/2	1/4	2	4221270	48221270
	.590	15	.315	2-3/8	4221500	48221500
	5/8	5/64 - 5/8	3/8	2-1/4	4221587	48221587
	3/4	5/64 - 3/4	1/2	2-5/8	4221905	48221905
	.787	20	.394	2-7/8	4222000	48222000
	7/8	7/64 - 7/8	1/2	2-3/4	4222222	48222222
	.984	25	.472	3-3/8	4222500	48222500
	1	1/8 - 1	1/2	2-3/4	4222540	48222540
	1.181	30	.472	3-5/8	4223000	48223000
	1-1/4	1/8 - 1-1/4	1/2	3	4223175	48223175

Angle	Diameter inch mm	Capacity min/max	d	L	Cobalt 424	TIN 4824
82°	1/8	1/32 - 1/8	1/8	1-1/4	4240317	48240317
	3/16	3/64 - 3/16	3/16	1-3/8	4240476	48240476
	.236	6	.236	1-5/8	4240600	48240600
	1/4	3/64 - 1/4	1/4	1-1/2	4240635	48240635
	5/16	3/64 - 5/16	1/4	1-5/8	4240793	48240793
	3/8	3/64 - 3/8	1/4	1-3/4	4240952	48240952
	.394	10	.236	1-3/4	4241000	48241000
	.472	12	.315	2	4241200	48241200
	1/2	5/64 - 1/2	1/4	2	4241270	48241270
	.590	15	.315	2-1/4	4241500	48241500
	5/8	5/64 - 5/8	3/8	2-1/4	4241587	48241587
	3/4	5/64 - 3/4	1/2	2-5/8	4241905	48241905
	.787	20	.394	2-5/8	4242000	48242000
	7/8	7/64 - 7/8	1/2	2-3/4	4242222	48242222
	.984	25	.472	3	4242500	48242500
	1	1/8 - 1	1/2	2-3/4	4242540	48242540
	1.181	30	.472	3-1/2	4243000	48243000
	1-1/4	1/8 - 1-1/4	1/2	2-3/4	4243175	48243175

NOTE : 30 and 45 degree angles are metric standard. Call for information.



SETS OF 6 PIECES

1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4

Angle	magafor	TIN
60°	422/6	4822/6
82°	424/6	4824/6
90°	421/6	4821/6

SETS OF 5 PIECES

10 - 15 - 20 - 25 - 30

Angle	magafor	TIN
60°	422	4822
82°	424	4824
90°	421	4821
100°	425	4825
120°	423	4823

METRIC

Angle	Diameter		Capacity	d	L	Cobalt	TIN
	inch	mm	min/max			421	4821
90°	1/8		1/32 - 1/8	1/8	1-1/4	4210317	48210317
	.157	4	3/64 - .157	.157	1-1/2	4210400	48210400
	3/16		3/64 - 3/16	3/16	1-3/8	4210476	48210476
	.197	5	3/64 - .197	.197	1-1/2	4210500	48210500
	.236	6	3/64 - .236	.236	1-1/2	4210600	48210600
	1/4		3/64 - 1/4	1/4	1-1/2	4210635	48210635
	5/16		3/64 - 5/16	1/4	1-5/8	4210793	48210793
	.315	8	3/64 - .315	.236	1-1/2	4210800	48210800
	3/8		3/64 - 3/8	1/4	1-3/4	4210952	48210952
	.394	10	3/64 - .394	.236	1-3/4	4211000	48211000
	.472	12	5/64 - .472	.315	2	4211200	48211200
	1/2		5/64 - 1/2	1/4	2	4211270	48211270
	.590	15	5/64 - .590	.315	2-1/8	4211500	48211500
	5/8		5/64 - 5/8	3/8	2-1/4	4211587	48211587
	3/4		5/64 - 3/4	1/2	2-5/8	4211905	48211905
	.787	20	5/64 - .787	.394	2-5/8	4212000	48212000
	7/8		7/64 - 7/8	1/2	2-3/4	4212222	48212222
	.984	25	1/8 - .984	.472	3	4212500	48212500
	1		1/8 - 1	1/2	2-3/4	4212540	48212540
	1.181	30	1/8 - 1.181	.472	3-1/2	4213000	48213000
	1-1/4		1/8 - 1-1/4	1/2	2-3/4	4213175	48213175
	1.378	35	5/32 - 1.378	.630 (1)	4	4213500	48213500
	1.575	40	7/32 - 1.575	.630 (1)	4-5/8	4214000	48214000
	2	50	15/32 - 2	.630 (1)	5	4215000	48215000

Angle	Diameter		Capacity	d	L	Cobalt	TIN
	inch	mm	min/max			425	4825
100°	.394	10	3/64 - .394	.236	1-3/4	4251000	48251000
	.472	12	5/64 - .472	.315	1-7/8	4251200	48251200
	.590	15	5/64 - .590	.315	2-1/8	4251500	48251500
	.787	20	5/64 - .787	.394	2-1/2	4252000	48252000
	.984	25	1/8 - .984	.472	3	4252500	48252500
	1.181	30	1/8 - 1.181	.472	3-3/8	4253000	48253000

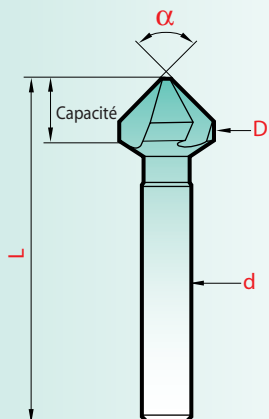
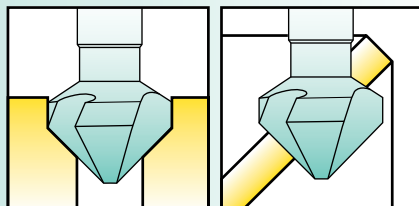
Angle	Diameter		Capacity	d	L	Cobalt	TIN
	inch	mm	min/max			423	4823
120°	.394	10	3/64 - .394	.236	1-3/4	4231000	48231000
	.472	12	5/64 - .472	.315	1-7/8	4231200	48231200
	.590	15	5/64 - .590	.315	2	4231500	48231500
	.787	20	5/64 - .787	.394	2-3/8	4232000	48232000
	.984	25	1/8 - .984	.472	2-7/8	4232500	48232500
	1.181	30	1/8 - 1.181	.472	3-1/4	4233000	48233000

⁽¹⁾ Shank with 3 flats for better holding

TRIDENT

Three flute

COUNTERSINKS



D	Angle	d	L
± 0.05	- 1°	h9	± 1

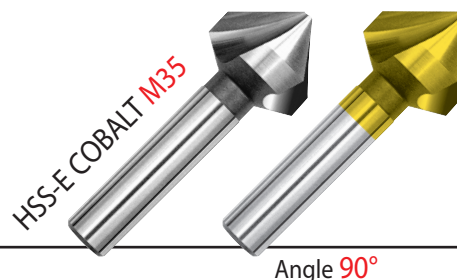
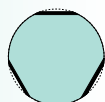
Tolerances

This highly productive countersinking cutter is a much improved version of the traditional multiflute milling cutter

- grooves opened wide to allow for greater chip removal,
- high positive cut,
- constant profile relief (a great many regrinds),
- self centering countersink,
- work without vibration.

Tool dimensions are adapted to countersink the 82° and 90° capscrews. Lubrication is recommended.

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Angle 90°

Diameter inch mm	Capacity min/max	d	L	Cobalt 431	TIN 4831
.158 4,0	.051 - .158	.158	1-5/8	4310400	48310400
.170 4,3	.051 - .170	.158	1-5/8	4310430	48310430
.197 5,0	.051 - .197	.158	1-5/8	4310500	48310500
.209 5,3	.051 - .209	.197	1-3/4	4310530	48310530
.229 5,8	.051 - .229	.197	1-3/4	4310580	48310580
.236 6,0	.051 - .236	.197	1-3/4	4310600	48310600
.248 6,3	.051 - .248	.197	1-3/4	4310630	48310630
.276 7,0	.063 - .276	.236	2	4310700	48310700
.288 7,3	.063 - .288	.236	2	4310730	48310730
.315 8,0	.071 - .315	.236	2	4310800	48310800
.327 8,3	.071 - .327	.236	2	4310830	48310830
.354 9,0	.079 - .354	.236	2	4310900	48310900
.370 9,4	.079 - .370	.236	2	4310940	48310940
.394 10,0	.087 - .394	.236	2	4311000	48311000
.410 10,4	.087 - .410	.236	2	4311040	48311040
.453 11,5	.098 - .453	.315	2-1/4	4311150	48311150
.472 12,0	.098 - .472	.315	2-1/4	4311200	48311200
.488 12,4	.098 - .488	.315	2-1/4	4311240	48311240
.528 13,4	.098 - .528	.315	2-1/4	4311340	48311340
.567 14,4	.098 - .567	.315	2-1/4	4311440	48311440
.590 15,0	.110 - .590	.394	2-3/8	4311500	48311500
.650 16,5	.110 - .650	.394	2-3/8	4311650	48311650
.748 19,0	.118 - .748	.394	2-1/2	4311900	48311900
.807 20,5	.118 - .807	.394	2-1/2	4312050	48312050
.906 23,0	.126 - .906	.394	2-5/8	4312300	48312300
.984 25,0	.126 - .984	.394	2-5/8	4312500	48312500
1.024 26,0	.126 - 1.024	.394	2-5/8	4312600	48312600
1.102 28,0	.138 - 1.102	.472	2-3/4	4312800	48312800
1.181 30,0	.138 - 1.181	.472	2-3/4	4313000	48313000
1.220 31,0	.138 - 1.220	.472	2-3/4	4313100	48313100

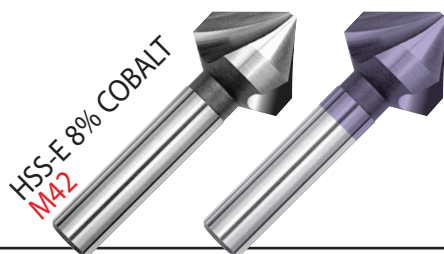
WITH 3 FLATTED SHANKS*

					Cobalt 437	TIN 4837
.488 12,4	.098 - .488	.315	2-1/4		437124	4837124
.567 14,4	.098 - .567	.315	2-1/4		437144	4837144
.650 16,5	.110 - .650	.394	2-3/8		437165	4837165
.807 20,5	.118 - .807	.394	2-1/2		437205	4837205
.984 25,0	.126 - .984	.394	2-5/8		437250	4837250
1.220 31,0	.138 - 1.220	.472	2-3/4		437310	4837310
1.339 34,0	.177 - 1.339	.630	4		437340	4837340
1.378 35,0	.177 - 1.378	.630	4		437350	4837350
1.457 37,0	.177 - 1.457	.630	4-5/8		437370	4837370
1.575 40,0	.177 - 1.575	.630	4-5/8		437400	4837400
1.969 50,0	.197 - 1.969	.630	5		437500	4837500
2.480 63,0	.394 - 2.480	.630	5-1/2		437630	4837630
3.150 80,0	.551 - 3.150	.630	6-1/2		437800	4837800

* Effective holding thanks to the three flats

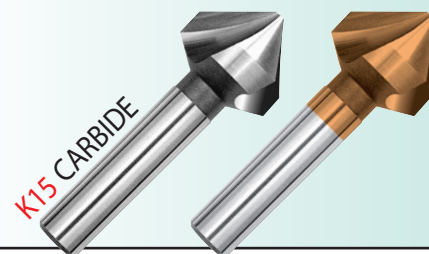
Performances-

RECOMMENDATIONS:
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METRIC					
Angle 90°					
D	Capacity min/max	d	L	Cobalt + 436	Futura 4936
6,3	1,3/6,3	5	45	436063	4936063
8,3	1,8/8,3	6	50	436083	4936083
10,4	2,2/10,4	6	50	436104	4936104
12,4	2,5/12,4	8	56	436124	4936124
16,5	2,8/16,5	10	60	436165	4936165
20,5	3,0/20,5	10	63	436205	4936205
25,0	3,2/25,0	10	67	436250	4936250
31,0	3,5/31,0	12	71	436310	4936310
50,0	5,0/50,0	16*	126	436500	4936500

* 3 flatted shanks



METRIC					
Angle 90°					
D	Capacity min/max	d*	L	Carbide 8431	Hard'X 8431-H
4,3	1,3/4,3	4	40	8431043	8431043-H
5,3	1,3/5,3	4	40	8431053	8431053-H
6,3	1,3/6,3	5	45	8431063	8431063-H
8,3	1,8/8,3	6	50	8431083	8431083-H
10,4	2,2/10,4	6	50	8431104	8431104-H
12,4	2,5/12,4	8	56	8431124	8431124-H
16,5	2,8/16,5	10	60	8431165	8431165-H
20,5	3,0/20,5	10	63	8431205	8431205-H
25,0	3,2/25,0	10	67	8431250	8431250-H
31,0	3,5/31,0	12	71	8431310	8431310-H

* Ø 12,4 - 31,0 = 3 flatted shanks

Ø 4,3 - 8,3 = Full solid carbide

Ø 10,4 - 31,0 = Brazed carbide head



SETS

magafor	COMPOSITION
431	Ø 10,4-16,5-20,5-25-31 mm
4831 TIN	
436	
4936 Futura	
431/2	Ø 6,3-8,3-10,4-12,4-16,5-20,5 mm
4831/2 TIN	
436/2	
4936/2 Futura	
8431/2	Ø 6,3-8,3-10,4-12,4-16,5-20,5-25 mm
431/3 (1)	
431/4 (1)	
8431	
8431	Ø 10,4-16,5-20,5-25-31 mm

8431-H Hard'X

(1) Set supplied with 1 auto-lock chuck Code 4001.

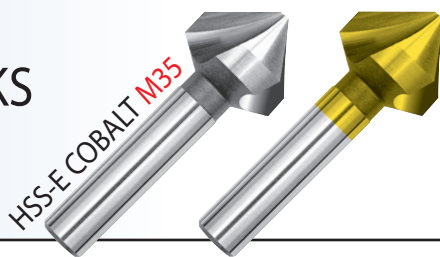


METRIC					
Angle 90°					
D	Capacity min/max	d	L	Cobalt 4303	Futura 4933
6,3	1,3/6,3	6	84	4303063	4933063
8,3	1,8/8,3	8	85	4303083	4933083
10,4	2,2/10,4	10	87	4303104	4933104
12,4	2,5/12,4	10	108	4303124	4933124
16,5	2,8/16,5	16	112	4303165	4933165
20,5	3,0/20,5	16	115	4303205	4933205
25,0	3,2/25,0	20	118	4303250	4933250

NOTE:

all these metric sizes
are available within 2 weeks.
Call for information.

TRIDENT Three flute COUNTERSINKS



METRIC							
Angle	D	Capacity min/max	d	L	Cobalt	Angle	TIN
30° 439	6,3	2/6,3	5	50	439063		4839063
	12,4	3/12,4	8	65	439124		4839124
	16,5	4/16,5	10	76	439165		4839165
	25,0	6/25	10	90	439250		4839250
60° 432	6,3	1,3/6,3	5	47	4320630	60° 4832	48320630
	8,3	1,8/8,3	6	52	4320830		48320830
	10,4	2,3/10,4	6	53	4321040		48321040
	12,4	2,5/12,4	8	60	4321240		48321240
	16,5	2,8/16,5	10	65	4321650		48321650
	20,5	3,0/20,5	10	69	4322050		48322050
	25,0	3,2/25,0	10	75	4322500		48322500
82° 434	31,0	3,5/31,0	12	81	4323100	82° 4834	48323100
	6,3	1,3/6,3	5	45	4340630		48340630
	8,3	1,8/8,3	6	50	4340830		48340830
	10,4	2,2/10,4	6	50	4341040		48341040
	12,4	2,5/12,4	8	56	4341240		48341240
	16,5	2,8/16,5	10	61	4341650		48341650
	20,5	3,0/20,5	10	64	4342050		48342050
100° 435	25,0	3,2/25,0	10	68	4342500	100° 4835	48342500
	31,0	3,5/31,0	12	73	4343100		48343100
	6,3	1,3/6,3	5	44	4350630		48350630
	8,3	1,8/8,3	6	49	4350830		48350830
	10,4	2,2/10,4	6	49	4351040		48351040
	12,4	2,5/12,4	8	55	4351240		48351240
	16,5	2,8/16,5	10	59	4351650		48351650
120° 433	20,5	3,0/20,5	10	62	4352050	120° 4833	48352050
	25,0	3,2/25,0	10	65	4352500		48352500
	31,0	3,5/31,0	12	68	4353100		48353100
	6,3	1,3/6,3	5	43	4330630		48330630
	8,3	1,8/8,3	6	48	4330830		48330830
	10,4	2,2/10,4	6	48	4331040		48331040
	12,4	2,5/12,4	8	54	4331240		48331240
	16,5	2,8/16,5	10	57	4331650		48331650
	20,5	3,0/20,5	10	59	4332050		48332050
	25,0	3,2/25,0	10	62	4332500		48332500
	31,0	3,5/31,0	12	65	4333100		48333100

TRIDENT HAND COUNTERSINKS



METRIC	Angle	82°	90°
D	Capacité min/max	Cobalt 438	Cobalt 430
12,4	3 - 12,4	4381240	4301240
16,5	4 - 16,5	4381650	4301650
20,5	4 - 20,5	4382050	4302050
25,0	5 - 25,0	4382500	4302500
31,0	5 - 31,0	4383100	4303100

UNIVERSAL AUTO-LOCK CHUCK



Capacity 3/64 - 1,2

magafor
4001

To hold any straight shank tool, for use by hand.



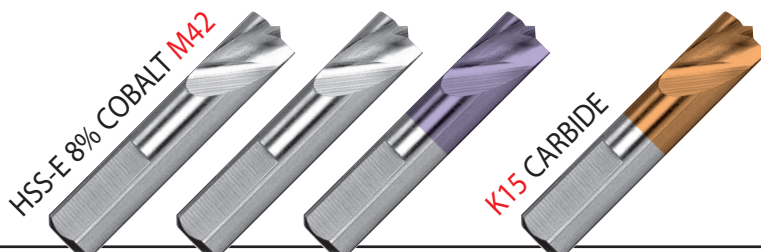
SETS

Angle	cobalt	COMPOSITION / mm
60°	432	Ø 10,4-16,5-20,5-25-31
	4832 TIN	
82°	434	
	4834-TIN	
100°	435	
120°	433	

DRILLS TO DISCONNECT SPOTWELDS

The machining of hard sheets has to be done with coated tools.

The high performance series **8203-H** is made from **Hard'X** coated carbide.



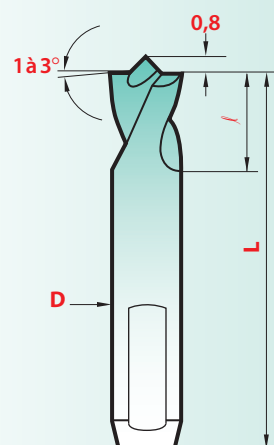
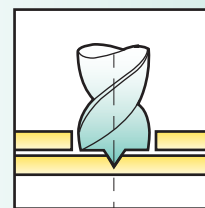
Short series

D	L	\	cobalt 202	cobalt 203	Futura 2903	Hard'X 8203-H
.236	1-3/4	.590		2030600	29030600	
5/16	1-1/2	.590	2020800			
5/16	1-3/4	.590		2030800	29030800	8203H0800

These short drills are specially designed to be used with the two types of pneumatic disconnectors :

- with swan-neck = magafor 202
- with revolver-handle = magafor 203

Flatted shanks with 60° taper for a good location in the disconnecter.



D	L	\
h8	± 1	+1

Tolerances

The centering point grants perfect drilling without any deviating.
Thanks to the special sharpening the first sheet will be bored without damage for the second one.
This design allows for excellent penetration, a high resistance to wear and a great many regrinds.



Long series

D	L	\	cobalt 201	Futura 2901
.236	2-5/8	1.100	2010600	29010600
.275	2-7/8	1.340	2010700	29010700
5/16	3-1/8	1.450	2010800	29010800
.394	3-1/2	1.690	2011000	29011000

To be used with standard drilling machines.