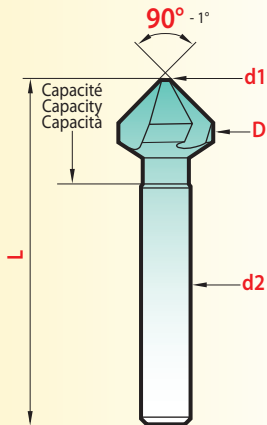
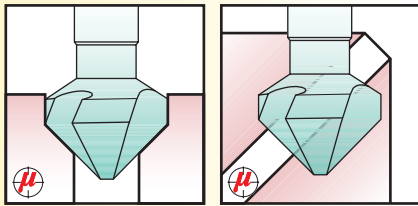


# TRI-DENT



**FRAISES À NOYER**  
Trois dents  
**90° - HSS - HSS-Co**  
**Three flute**  
**COUNTERSINKS**  
**AVELLANADORES**  
De tres labios  
**90° - HSS - HSS-Co**  
**FRESE CONICHE**  
con tre denti

**90°**  
DIN 335 - C

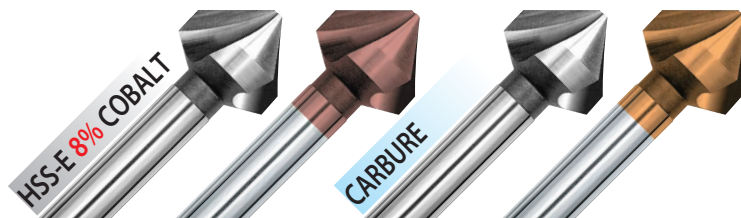


D z9 mm (inch)	d1 maxi	d2 h9	L ± 1	Classic <b>4307</b>	magafor <b>431</b>	TiN <b>4831</b>	Red'X <b>4931</b>
4,0	1,3	4	40	€	€ 13,27	€ 17,35	€ 18,85
4,3	1,3	4	40	<b>10,03</b>	<b>13,27</b>	<b>17,35</b>	<b>18,85</b>
5,0	1,5	4	40	<b>10,03</b>	<b>13,27</b>	<b>17,35</b>	<b>18,85</b>
5,3	1,5	4	40	<b>10,03</b>	<b>13,27</b>	<b>17,35</b>	<b>18,85</b>
5,8	1,5	5 <sup>(1)</sup>	45	<b>10,03</b>	<b>13,27</b>	<b>17,35</b>	<b>18,85</b>
5,8	1,5	6 <sup>(1)</sup>	45		<b>13,27</b>	<b>17,35</b>	<b>18,85</b>
6,0	1,5	5 <sup>(1)</sup>	45	<b>10,03</b>	<b>13,27</b>	<b>17,35</b>	<b>18,85</b>
6,0	1,5	6 <sup>(1)</sup>	45		<b>13,27</b>	<b>17,35</b>	<b>18,85</b>
6,3	1,5	5 <sup>(1)</sup>	45	<b>10,03</b>	<b>13,27</b>	<b>17,35</b>	<b>18,85</b>
6,3	1,5	6 <sup>(1)</sup>	45		<b>13,27</b>	<b>17,35</b>	<b>18,85</b>
6,35 (1/4")	1,5	6,35	45		<b>13,27</b>	<b>17,35</b>	<b>18,85</b>
7,0	1,8	6	50	<b>11,39</b>	<b>15,15</b>	<b>20,80</b>	<b>22,55</b>
7,3	1,8	6	50	<b>11,39</b>	<b>15,15</b>	<b>20,80</b>	<b>22,55</b>
7,93 (5/16")	2,0	6,35	45		<b>15,15</b>	<b>20,80</b>	<b>22,55</b>
8,0	2,0	6	50	<b>11,39</b>	<b>15,15</b>	<b>20,80</b>	<b>22,55</b>
8,3	2,0	6	50	<b>11,39</b>	<b>15,15</b>	<b>20,80</b>	<b>22,55</b>
9,0	2,2	6	50		<b>17,87</b>	<b>23,51</b>	<b>25,51</b>
9,4	2,2	6	50	<b>13,58</b>	<b>17,87</b>	<b>23,51</b>	<b>25,51</b>
9,52 (3/8")	2,5	6,35	50		<b>17,87</b>	<b>23,51</b>	<b>25,51</b>
10,0	2,5	6	50	<b>13,58</b>	<b>17,87</b>	<b>23,51</b>	<b>25,51</b>
10,4	2,5	6	50	<b>13,58</b>	<b>17,87</b>	<b>23,51</b>	<b>25,51</b>
11,5	2,8	8	56	<b>15,67</b>	<b>20,90</b>	<b>27,27</b>	<b>29,57</b>
12,0	2,8	8	56		<b>20,90</b>	<b>27,27</b>	<b>29,57</b>
12,4	2,8	8	56	<b>15,67</b>	<b>20,90</b>	<b>27,27</b>	<b>29,57</b>
12,70 (1/2")	2,9	6,35	50		<b>20,90</b>	<b>27,27</b>	<b>29,57</b>
13,4	2,9	8	56	<b>20,12</b>	<b>26,75</b>	<b>33,96</b>	<b>36,96</b>
14,4	2,9	8	56	<b>20,12</b>	<b>26,75</b>	<b>33,96</b>	<b>36,96</b>
15,0	3,2	8 <sup>(1)</sup>	56		<b>26,75</b>	<b>33,96</b>	<b>36,96</b>
15,0	3,2	10 <sup>(1)</sup>	60	<b>20,12</b>	<b>26,75</b>	<b>33,96</b>	<b>36,96</b>
15,87 (5/8")	3,2	9,52	60		<b>26,75</b>	<b>33,96</b>	<b>36,96</b>
16,5	3,2	8 <sup>(1)</sup>	56		<b>26,75</b>	<b>33,96</b>	<b>36,96</b>
16,5	3,2	10 <sup>(1)</sup>	60	<b>20,12</b>	<b>26,75</b>	<b>33,96</b>	<b>36,96</b>
19,0	3,5	10	63	<b>26,02</b>	<b>34,48</b>	<b>42,84</b>	<b>46,34</b>
19,05 (3/4")	3,5	9,52	60		<b>34,48</b>	<b>42,84</b>	<b>46,34</b>
20,5	3,5	10	63	<b>26,02</b>	<b>34,48</b>	<b>42,84</b>	<b>46,34</b>
23,0	3,8	10	67	<b>33,96</b>	<b>44,93</b>	<b>55,38</b>	<b>59,88</b>
25,0	3,8	10	67	<b>33,96</b>	<b>44,93</b>	<b>55,38</b>	<b>59,88</b>
25,4 (1")	3,8	9,52	70		<b>44,93</b>	<b>55,38</b>	<b>59,88</b>
26,0	3,8	10	67	<b>44,74</b>	<b>56,43</b>	<b>67,92</b>	<b>72,92</b>
28,0	4,0	12	71	<b>44,74</b>	<b>56,43</b>	<b>67,92</b>	<b>72,92</b>
30,0	4,2	12	71	<b>50,16</b>	<b>66,88</b>	<b>79,42</b>	<b>84,42</b>
31,0	4,2	12	71	<b>50,16</b>	<b>66,88</b>	<b>79,42</b>	<b>84,42</b>

<sup>(1)</sup> Préciser le Ø de queue sur vos commandes. Please mention the shank Ø when ordering.  
Precisar el diámetro del mango en el pedido. Precisare nei vostri ordini il Ø del codolo.



90°  
DIN 335 - C



D	d1	d2	L	magafor 436	Red'X 4936	magaforce 8431	Hard'X 8431-H
z9	maxi	h9	± 1	€	€	€ 56,43	€ 64,79
4,3	1,3	4	40			60,61	70,02
5,3	1,5	4	40			64,79	74,19
6,0	1,5	5	45			64,79	74,19
6,3	1,5	5	45	21,84	26,91	76,28	87,78
8,0	2,0	6	50			76,28	87,78
8,3	2,0	6	50	25,18	32,81	84,64	95,09
10,0	2,5	6	50			84,64	99,27
10,4	2,5	6	50	29,68	37,10	90,91 *	107,63 *
11,5	2,8	8	56			90,91 *	107,63 *
12,4	2,8	8	56	34,48	42,84	99,27 *	115,99 *
15,0	3,2	10	60			102,41 *	119,13 *
16,5	3,2	10	60	44,93	53,82	150,48 *	169,29 *
20,5	3,5	10	63	57,47	68,97	197,50 *	221,54 *
25,0	3,8	10	67	66,88	78,90	269,61 *	300,96 *
31,0	4,2	12	71	112,86	128,53		
50,0 <sup>(1)</sup>	5,0	16	126	364,70 *	388,74 *		

<sup>(1)</sup> Tolérances Tolerancias Tolleranze Ø 50 = 0 + 0,3

\* queue avec 3 plats 3 flated shanks Mango con 3 planos Codolo con 3 piani

## HSS 8% Co Carbure Carbide Metal duro

Les fraises **4936** revêtues Red'X sont destinées à l'usinage des alliages durs résistants à l'abrasion.

Les fraises **magaforce**, sont en CARBURE MONOBLOC. Cette conception leur confère une solidité unique.

The countersinks code **4936** with red'X coating are designed for machining abrasive hard alloys.

The **magaforce** countersinks, are made from SOLID CARBIDE. This concept offers a unique strength.

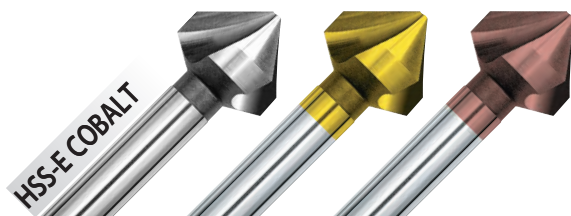
Los avellanadores ref. **4936** con recubrimiento Red'X están diseñados para resistir la abrasión en el mecanizado de aleaciones duras.

Los avellanadores **magaforce**, están fabricados en METAL DURO INTEGRAL. Este concepto ofrece una rigidez única.

Le frese **4936** rivestite Red'X sono generalmente indicate per la lavorazione delle leghe dure e resistenti all'abrasione.

Le frese **magaforce**, sono in METALLO DURO INTEGRALE. Questa struttura conferisce loro una solidità unica.

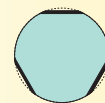
90°  
DIN 335 - C



D	d1	d2	L	magafor 437	TiN 4837	Red'X 4937
z9 <sup>(1)</sup>	maxi	h9	± 1	€	€	
6,3	1,5	5	45	18,39	23,62	24,14
8,3	2,0	6	50	20,38	26,13	26,39
10,4	2,5	6	50	21,95	28,21	29,52
12,4	2,8	8	56	25,34	31,09	34,23
14,4	2,9	8	56	31,87	38,66	42,32
15,0	3,2	10	60	31,87	38,66	42,32
16,5	3,2	10	60	31,87	38,66	42,32
20,5	3,5	10	63	40,75	48,59	52,77
25,0	3,8	10	67	54,86	63,74	69,49
31,0	4,2	12	71	79,42	90,91	97,19
34,0	4,5	16	103	119,13	131,67	138,65
35,0	4,5	16	103	119,13	131,67	138,65
37,0	4,5	16	118	141,07	152,57	160,25
40,0	4,5	16	118	155,70	167,20	175,37
45,0	4,5	12	116	197,50	212,13	220,82
50,0	5,0	16	126	216,31	230,94	239,81
63,0	10,0	16	140	296,78	322,90	333,17
80,0	14,0	16	166	559,07	582,06	594,56

<sup>(1)</sup> Tolérances Tolerancias Tolleranze Ø 34 ~ 80 = 0 + 0,3

## Queue avec 3 plats 3 flated shanks Mango con 3 planos Codolo con 3 piani



Les 3 plats assurent un serrage efficace

Effective holding thanks to the 3 flats

Los 3 planos aseguran una sujeción efectiva

I 3 piani assicurano un bloccaggio efficace