

BLUE-MASTER®
by *ce/esa*



FRESAS

FRESAS FRONTALES SERIE CORTA DE 2 CORTES DIN 327 Y DIN 844

2Z



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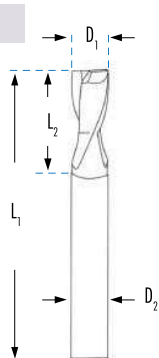
Al

TOL D2
h6

Ref. FFAL



SERIE CORTA



Consultar dimensiones DIN844 en páginas sucesivas



DIN 327	MATERIAL ACABADO CALIDAD				FF01	FF02	FF60	FT02	FF92	FP05	FT12	FP08	FT01	DIN 844	FFAL
					HSS	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	ASP 60	ASP 60	ASP 60	ASP 60		HSSCo 8%
					BRILLANTE	BRILLANTE	TiAIN	TiAISIN	BRILLANTE	BRILLANTE	TiAISIN	BRILLANTE	TiAISIN		BRILLANTE
					★	★★	★★★	★★★★	★★	Premium Quality	Premium Quality	Premium Quality	Premium Quality		AI
D1 mm	L1 mm	L2 mm	D2 mm	TOL e8	TOL e8	TOL e8	TOL e8	TOL h10	TOL e8	TOL e8	TOL e8	TOL h10	TOL h10	TOL e8	€
1,00	47	2,5	6							24,80	32,13	36,16	43,16		17,27
2,00	48	4,0	6	11,27	14,28	23,42	27,31	29,07		20,92	28,56	31,92	39,24		17,62
2,50	49	5,0	6												17,23
3,00	49	5,0	6	11,27	14,28	23,42	27,31	29,21		20,92	28,56	31,92	39,24		18,28
3,50	50	6,0	6												17,74
4,00	51	7,0	6	11,06	14,28	23,43	27,32	29,21		19,02	27,30	31,92	39,24		19,42
4,50	52	8,0	6	11,06*	17,06	25,99	30,31	30,92							17,74
5,00	52	8,0	6	11,06	14,28	23,43	27,32	29,21		19,02	27,30	31,92	39,24		21,73
5,50	52	8,0	6												19,23
6,00	52	8,0	6	11,06	14,28	23,43	27,32	29,21		19,02	27,30	31,92	39,24		28,42
6,50	60	10,0	10	16,49*	23,10	33,42	38,96								25,84
7,00	60	10,0	10	16,49	22,41	32,71	38,14	35,20		28,70	37,75	42,23	55,85		30,30
7,50	61	11,0	10												23,39
8,00	61	11,0	10	13,42	18,46	28,89	33,71	31,35		24,93	37,01	42,23	55,85		31,94
8,50	61	11,0	10												28,95
9,00	61	11,0	10	17,15	22,80	34,16	39,82	36,04		30,69	40,77	42,23	57,53		
9,50	63	13,0	10												
10,00	63	13,0	10	14,11	18,34	29,75	34,87	31,10		27,77	37,72	42,23	57,53		25,28
10,50	70	13,0	12												
11,00	70	13,0	12												34,91
12,00	73	16,0	12	18,44	24,56	37,29	43,48	41,45		35,43	48,68	57,51	73,11		31,71
13,00	73	16,0	12												45,19
14,00	73	16,0	12	26,23	35,82	50,22	58,56	54,77		43,19	59,70	64,99	80,90		44,36
15,00	73	16,0	12												48,72
16,00	79	19,0	16	27,38	35,45	52,21	60,89	59,84		54,07	70,76	75,99	94,40		47,47
17,00	79	19,0	16												66,05
18,00	79	19,0	16	35,87	48,12	66,73	77,82	72,88		68,47	84,40	96,32	145,50		59,29
19,00	79	19,0	16												79,97
20,00	88	22,0	16												
20,00	88	22,0	20	42,05	56,92	77,76	90,69	87,04		80,65	101,51	112,29	148,61		68,54
22,00	88	22,0	20	57,68	75,18	103,05	120,16	113,90		102,72	142,39	133,35	170,66		95,41
24,00	102	26,0	25	72,38	97,02	127,96	149,20	136,12							143,38
25,00	102	26,0	25	72,40	94,52	122,70	143,08	125,08		137,13	171,56	174,80*	215,98*		121,44
26,00	102	26,0	25												190,72
28,00	102	26,0	25	90,70	119,35	159,21	186,56								147,77
30,00	102	26,0	25	104,35	135,99	176,25	205,52	181,17							170,05
32,00	112	32,0	32	108,21	139,69	179,48	209,30								180,11
36,00	112	32,0	32	139,32	186,85	230,56	268,86								
40,00	130	38,0	32	169,38	229,44	285,06	332,43								

*Hasta fin de existencias

FRESAS FRONTALES SERIE LARGA DE 2 CORTES DIN 327 Y DIN 844/L

2 Z

30°
N

WELDON

34
HRC

INOX

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TOL D2
h6

Ref. FFLAL

45°
W

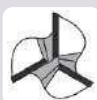
SERIE LARGA



DIN 327/L				MATERIAL		FF06		FF67		FT06		FF15		FP21		DIN 844/L			FFLAL	
				ACABADO		HSSCo 8%		HSSCo 8%		HSSCo 8%		HSSCo 8%		ASP 60					HSSCo 8%	
				CALIDAD		BRILLANTE		TiAlN		TiAlSiN		BRILLANTE		BRILLANTE					BRILLANTE	
						★★		★★★		★★★★		★★		Premium Quality						
				TOL e8		TOL e8		TOL e8		TOL h10		TOL h10						TOL e8		
D1 mm	L1 mm	L2 mm	D2 mm	€	€	€	€	€	€	€	€	L1 mm	L2 mm	D2 mm	€	€	€	€	€	
2,00	54	7	6	15,74*	24,82*	28,94*	31,96	37,49*	54	10	6	26,03								
2,50	56	8	6	15,82*	24,82*	28,94*	32,00		56	12	6									
3,00	56	8	6	15,74	24,89	29,03	32,00	38,64*	56	12	6	26,16								
3,50	59	10	6	17,88	29,56	34,50			59	15	6									
4,00	63	11	6	15,81	24,89	29,03	32,00	38,64	63	19	6	26,32								
4,50	63	11	6	17,88	25,42	29,64			63	19	6									
5,00	68	13	6	15,81	24,89	29,03	33,88	40,90*	68	24	6	26,45								
5,50	68	13	6	17,88	29,56	34,50			68	24	6									
6,00	68	13	6	15,81	24,89	29,03	30,62	36,95*	68	24	6	27,46								
6,50	80	16	10	29,65	48,52	55,79			68	24	6									
7,00	80	16	10	26,10	36,44	42,50	38,62	46,18*	80	30	10									
7,50	88	19	10						80	30	10									
8,00	88	19	10	22,97	33,27	38,82	38,62	46,60*	88	38	10	37,52								
8,50	88	19	10	35,16	47,85	55,80			88	38	10									
9,00	88	19	10	30,91	42,14	49,12	42,36		88	38	10	39,57								
10,00	95	22	10	25,31	38,54	44,94	42,18	51,16*	95	45	10	37,52								
11,00	102	22	12	39,90	53,83	62,76	56,18		102	45	12	52,58*								
12,00	110	26	12	36,39	50,90	59,36	55,10	66,21*	110	53	12	48,54								
13,00	110	26	12						110	53	12									
14,00	110	26	12	47,96	62,21	72,54	73,10	82,98	110	53	12	55,56								
15,00	123	32	16						110	53	12									
16,00	123	32	16	54,97	76,77	89,54	83,20	99,03	123	63	16	67,82								
17,00	123	32	16						123	63	16									
18,00	123	32	16	62,81	90,12	105,06	99,99	118,99	123	63	16	83,93								
20,00	141	38	20	72,23	98,85	115,28	108,42	129,01	141	75	20	100,11								
22,00	141	38	20	99,03	134,14	156,42	134,39	159,94	141	75	20									
24,00	166	45	25	150,70	170,66	196,22	180,78		166	90	25									
25,00	166	45	25	142,06	180,50	210,49	165,29	196,70	166	90	25									
26,00	166	45	25	188,64	200,96	231,06			166	90	25									
28,00	166	45	25	172,15	219,75	256,27			166	90	25									
30,00	166	45	25	191,37	236,56	275,85	246,22		166	90	25									
32,00	186	53	32	264,76	308,38	359,59	320,82		186	106	32									
36,00	186	53	32	299,54	350,63	408,87			186	106	32									
40,00	196	63	32	392,53	473,72	552,43			196	125	32									

FRESAS FRONTALES SERIE CORTA DE 3 CORTES DIN 844 Y DIN 327

3Z

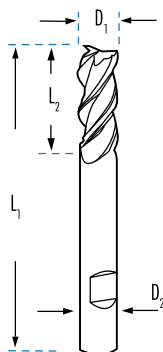







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TOL D2
h6

SERIE CORTA



DIN 844				MATERIAL				FF63	FF75	FT63	FF73	FF76	FT73	FP06	FT03
				ACABADO				HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	ASP 60	ASP 60
				CALIDAD				BRILLANTE	TiAlN	TiAlSiN	BRILLANTE	TiAlN	TiAlSiN	BRILLANTE	TiAlSiN
				DESABASTE				★★	★★★	★★★★	★★	★★★	★★★★		
								TOL k10	TOL k10	TOL k10	 NR	 NR	 NR		
D1 mm	L1 mm	L2 mm	D2 mm	€	€	€	€	€	€	€	€	€	€	€	€
1,00	49	3	6											26,66	33,20
2,00	51	7	6	15,69	24,70	28,80								21,66	32,43
2,50	52	8	6	15,69	24,70	28,80									
3,00	52	8	6	15,65	24,70	28,80								21,66	32,43
3,50	55	11	6	16,17	25,16	29,49									
4,00	55	11	6	15,68	24,70	28,80								21,66	32,43
4,50	57	13	6	17,27	26,10	30,44									
5,00	57	13	6	15,68	24,81	28,94								21,66	32,43
5,50	57	13	6	21,32	33,96	39,59									
6,00	57	13	6	16,52	27,75	32,35	44,77	54,08	62,16					21,66	32,43
6,50	66	16	10	29,62	45,42	52,23									
7,00	66	16	10	23,08	33,35	39,05	52,96*	64,55	74,22					29,16	39,52
7,50	69	19	10	29,84*	45,90*	52,78*									
8,00	69	19	10	20,61	30,78	35,91	45,88	53,45	62,34					29,16	39,52
8,50	69	19	10	31,45	47,40	54,50									
9,00	69	19	10	25,74	36,92	43,05	54,45*	63,92*							
9,50	72	22	10		49,81*	57,26*									
10,00	72	22	10	22,33	33,42	38,96	46,17	56,82	66,24					30,91	40,88
11,00	79	22	12	35,46	52,74	60,64	66,62*	76,75*							
12,00	83	26	12	28,04	39,88	46,51	55,55	65,38	76,25					39,87	51,70
13,00	83	26	12	44,60	61,32	70,51		84,52*							
14,00	83	26	12	38,20	52,31	61,01	63,39	74,58	86,98					51,66	62,96
15,00	83	26	12	45,82	63,64	73,18	80,23	87,82	96,80						
16,00	92	32	16	41,94	58,38	68,08	76,84	92,66	108,09					60,76	72,48
17,00	92	32	16	68,64	90,13	103,62									
18,00	92	32	16	52,70	71,28	83,13	84,07	102,01	118,97					74,77	88,65
19,00	92	31	16	83,94	103,69	119,24									
20,00	104	38	20	60,51	80,34	93,70	102,58	120,00	139,93					88,92	106,13
22,00	104	38	20	96,46	121,31	139,48								118,70*	151,83*
25,00	121	45	25	126,03	160,61	184,68	155,38	177,56	207,06					149,01*	171,22*
28,00	121	45	25	146,40	179,60	206,49									
30,00	121	45	25	180,10	210,93	242,53	193,22	227,98	265,87						
32,00	133	53	32	183,31	227,65	261,75									

FRESAS FRONTALES SERIE LARGA DE 3 CORTES DIN 844/L

3Z



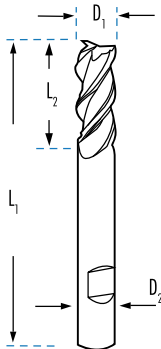
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TOL D1
k10

TOL D2
h6

SERIE LARGA



DIN 844/L		MATERIAL ACABADO CALIDAD		FF83	FF86	FT83
				HSSCo 8% BRILLANTE ★★	HSSCo 8% TiAlN ★★★	HSSCo 8% TiAlSiN ★★★★
D1 mm	L1 mm	L2 mm	D2 mm	€	€	€
1,00	52	7	6			
2,00	54	10	6	21,15	30,97	36,11
2,50	56	12	6			
3,00	56	12	6	21,15	30,88	36,00
3,50	59	15	6	23,67	33,10	38,62
4,00	63	19	6	21,15	30,88	36,00
4,50	63	19	6	23,67	33,10	38,62
5,00	68	24	6	21,15	30,88	36,00
5,50	68	24	6	23,67	33,10	38,62
6,00	68	24	6	23,70	32,29	37,66
6,50	68	24	6			
7,00	80	30	10	32,10	43,23	50,42
7,50	80	30	10			
8,00	88	38	10	29,37	39,00	45,48
8,50	88	38	10			
9,00	88	38	10	35,73	46,26	53,96
9,50	88	38	10			
10,00	95	45	10	29,53	42,89	50,01
11,00	102	45	12	45,40*	58,41*	68,11*
12,00	110	53	12	37,56	52,28	60,98
13,00	110	53	12			
14,00	110	53	12	48,93	63,93	74,56
15,00	110	53	12			
16,00	123	63	16	55,13	77,05	89,87
17,00	123	63	16			
18,00	123	63	16	66,81	91,08	106,23
19,00	123	63	16			
20,00	141	75	20	78,43	104,22	121,52
22,00	141	75	20	98,91	134,39	156,72
25,00	166	90	25	144,15	177,54	207,04
28,00	166	90	25	160,48	212,60	247,94
30,00	166	90	25	178,67	227,09	264,83
32,00	186	106	32	212,59	255,77	298,27

FRESAS FRONTALES SERIE CORTA Y LARGA VARIOS CORTES DIN 844 Y DIN 844/L

4-6 Z



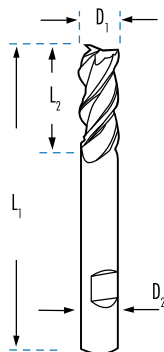
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TOL D1
k10TOL D2
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SERIE CORTA

SERIE LARGA



DIN 844		MATERIAL ACABADO CALIDAD			FF18	FF20	FT18	FP07	FT09
					HSSCo 8% BRILLANTE ★★	HSSCo 8% TiAlN ★★★	HSSCo 8% TiAlSiN ★★★★	ASP 60 BRILLANTE Premium Quality	ASP 60 TiAlSiN Premium Quality
D1 mm	L1 mm	L2 mm	D2 mm	Z	€	€	€	€	€
1,00	49	3	6	4				29,56	35,10
2,00	51	7	6	4	15,75	24,77	28,87	21,60	29,61
2,50	52	8	6	4	15,75	24,77	28,87		
3,00	52	8	6	4	15,75	24,77	28,87	21,60	29,61
3,50	55	11	6	4	16,21	25,23	29,43		
4,00	55	11	6	4	15,75	24,77	28,87	21,60	29,61
4,50	57	13	6	4	17,31	26,16	30,49		
5,00	57	13	6	4	15,75	24,77	28,87	21,60	29,61
5,50	57	13	6	4	25,17	33,96	39,59		
6,00	57	13	6	4	16,43	25,54	29,78	21,60	29,61
6,50	66	16	10	4	25,12	35,35	41,22		
7,00	66	16	10	4	23,08	33,36	38,90	29,36	42,24
7,50	69	16	10	4	29,74	39,71	46,31		
8,00	69	19	10	4	20,31	30,91	36,05	29,23	41,83
8,50	69	19	10	4	31,01	42,00	48,98		
9,00	69	19	10	4	25,63	36,96	43,11	34,54	45,62
9,50	69	19	10	4	32,81	43,69	50,94		
10,00	72	22	10	4	22,21	33,55	39,14	31,04	42,88
11,00	79	22	12	4	30,90	43,66	50,92		
12,00	83	26	12	4	28,04	38,78	45,23	41,00	56,77
13,00	83	26	12	4	39,55	53,94	62,91		
14,00	83	26	12	4	37,33	52,62	61,38	50,94	60,48
15,00	83	26	12	4	42,63	58,81	68,59		
16,00	92	32	16	4	41,60	58,67	68,39	59,71	71,62
17,00	92	32	16	4	51,83	70,24	81,91		
18,00	92	32	16	4	51,24	71,35	83,19	72,82	89,58
19,00	92	31	16	4	60,69	80,75	94,14		
20,00	104	38	20	4	59,99	80,75	94,14	85,64	116,37
22,00	104	38	20	4	83,27	111,91	130,52	112,84	137,25
24,00	121	45	25	5	104,69	131,88	153,80		
25,00	121	45	25	5	100,07	131,26	153,08	145,60	180,98
26,00	121	45	25	5	120,12*	159,34	188,50*		
28,00	121	45	25	5	119,11	159,69	192,61		
30,00	121	45	25	6	138,47	177,25	217,00		
32,00	133	53	32	6	141,97	181,33	222,00		
36,00	133	53	32	6	215,01	260,34	318,69		
40,00	155	63	32	6	258,48*	316,61	387,57*		

DIN 844/L				MATERIAL ACABADO CALIDAD				FF21	FF23	FT21	FP20
								HSSCo 8%	HSSCo 8%	HSSCo 8%	ASP 60
								BRILLANTE	TiAlN	TiAlSiN	BRILLANTE
								★★	★★★	★★★★	
L1 mm	L2 mm	D2 mm	Z	€	€	€	€				
52	7	6	4								
54	10	6	4	19,22	28,13	32,80	30,69				
56	12	6	4	19,12	28,13	32,80					
56	12	6	4	19,22	28,14	32,81	30,69				
59	15	6	4	25,26	34,11	39,77					
63	19	6	4	19,22	28,14	32,81	30,69				
63	19	6	4	25,26	34,11	39,77					
68	24	6	4	19,22	28,14	32,81	30,69				
68	24	6	4	25,10	34,11	39,77					
68	24	6	4	19,22	28,14	32,81	30,69				
68	24	6	4								
80	30	10	4	29,16	39,12	45,64	45,78				
80	30	10	4								
88	38	10	4	26,49	35,26	41,11	45,78				
88	38	10	4								
88	38	10	4	30,18	41,10	47,93	45,78*				
88	38	10	4								
95	45	10	4	26,60	38,91	45,39	45,78				
102	45	12	4	37,79	51,27	59,81					
110	53	12	4	34,81	48,70	56,82	66,38				
110	53	12	4								
110	53	12	4	45,55	59,38	69,25	76,63				
110	53	12	4								
123	63	16	4	49,80	69,87	81,48	94,95				
123	63	16	4								
123	63	16	4	60,83	83,17	96,99	121,49				
123	63	16	4								
141	75	20	4	71,24	96,08	112,03	148,98				
141	75	20	5	98,79	126,62	147,67	167,11*				
141	75	25	5								
166	90	25	5	130,98	161,71	188,56	242,75				
166	90	25	5								
166	90	25	5	146,50	192,37	224,32					
166	90	25	6	165,37	211,32	246,45					
186	106	32	6	166,71	212,82	248,16					
186	106	32	6	238,96	286,89	334,55					
217	125	32	6	264,86	342,06	400,78					

*Hasta fin de existencias

FRESAS FRONTALES DE DESBASTE VARIOS CORTES DIN 844 Y DIN 844/L

4-6 Z



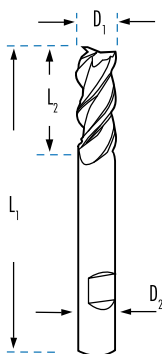
INOX

Al

TOL D1
k12



TOL D2
h6




SERIE CORTA



SERIE LARGA



<div>DIN 844</div>					MATERIAL	FF25	FF27	FT25
					ACABADO	HSSCo 8%	HSSCo 8%	HSSCo 8%
						BRILLANTE	TiAlN	TiAlSiN
						★★	★★★	★★★★
						DESABASTE	 NR	 NR
D1 mm	L1 mm	L2 mm	D2 mm	Z	€	€	€	
6,00	57	13	6	4	40,30	48,65	56,73	
7,00	66	16	10	4	48,43	58,07	67,71	
8,00	69	19	10	4	42,07	51,71	60,30	
9,00	69	19	10	4	50,28	60,88	71,02	
10,00	72	22	10	4	41,74	51,21	59,71	
11,00	79	22	12	4	61,16	73,35	85,55	
12,00	83	26	12	4	50,41	62,43	72,79	
13,00	83	26	12	4	71,57	84,70	98,77	
14,00	83	26	12	4	58,52	72,40	84,44	
15,00	83	26	12	4	76,96	93,19	108,68	
16,00	92	32	16	4	69,42	85,32	99,51	
17,00	92	32	16	4	94,80	112,79	131,52	
18,00	92	32	16	4	75,70	94,01	109,62	
19,00	92	31	16	4	112,03	130,73	152,46	
20,00	104	38	20	4	94,86	114,83	133,91	
SIN CORTE AL CENTRO					FF05	FF74	FT05	
22,00	104	38	20	6	107,17	138,56		
24,00	121	45	25	6	134,99	164,31	183,36	
25,00	121	45	25	6	133,72	163,36	182,30	
26,00	121	45	25	6	154,86	199,90	223,06	
28,00	121	45	25	6	168,93	217,48	242,68	
30,00	121	45	25	6	181,47	238,05	265,63	
32,00	133	53	32	6	205,59	256,03	285,69	
36,00	133	53	32	6	243,66	295,03	329,23	
40,00	155	63	32	6	273,93	341,64	381,24	

DIN 844/L				MATERIAL	FF29		FF31		FT29	
					HSSCo 8%		HSSCo 8%		HSSCo 8%	
					BRILLANTE		TiAlN		TiAlSiN	
					★★		★★★		★★★★	
										
L1 mm	L2 mm	D2 mm	Z	€	€	€				
68	24	6	4	57,12	64,60	75,70				
80	30	10	4	58,88*	73,81*	86,07*				
88	38	10	4	59,07	68,31	79,65				
88	38	10	4	64,77	74,84	87,27				
95	45	10	4	51,45	63,62	74,19				
102	45	12	4	84,20	96,48	112,53				
110	53	12	4	63,55	76,89	89,67				
110	53	12	4							
110	53	12	4	73,43	86,87	101,33				
110	53	12	4							
123	63	16	4	85,96	105,42	122,93				
123	63	16	4							
123	63	16	4	100,39	123,27	143,75				
123	63	16	4							
141	75	20	4	122,18	145,32	169,46				
				FF08	FF58	FT08				
141	75	20	6	137,62	185,63	207,15				
141	75	25	6							
166	90	25	6	173,79	219,91	245,40				
166	90	25	6							
166	90	25	6	195,99	252,82	282,12				
166	90	25	6	254,10	302,00	337,01				
186	106	32	6	265,77	308,74	344,53				
186	106	32	6	319,13	368,69	411,41				
217	125	32	6	377,32	458,90	512,10				

*Hasta fin de existencias

Fresas

Rosa

FRESAS FRONTALES, SIN CORTE AL CENTRO, VARIOS CORTES DIN 844 Y DIN 844/L

4-6 Z



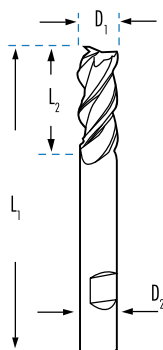
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Al

TOL D1
k10TOL D2
h6

SERIE CORTA

SERIE LARGA



DIN 844					FF03		FF04	FF54	FT04
					HSS	HSSCo 8%	HSSCo 8%	HSSCo 8%	
					BRILLANTE	BRILLANTE	TiAIN	TiAISIN	
					★	★★	★★★	★★★★	
D1 mm	L1 mm	L2 mm	D2 mm	Z	€	€	€	€	
2,00	51	7	6	4	11,28	14,79	23,80	27,77	
2,50	52	8	6	4	11,28	14,79*	23,80*	27,77*	
3,00	52	8	6	4	11,28	14,79	23,80	27,77	
3,50	55	11	6	4	11,64	15,25*	24,34*	28,36*	
4,00	55	11	6	4	11,28	14,79	23,89	27,84	
4,50	57	13	6	4	11,64		24,34		
5,00	57	13	6	4	11,28	14,79	23,89	27,84	
5,50	57	13	6	4	17,53	23,00*	31,99*	37,29*	
6,00	57	13	6	4	11,28	14,79	23,88	27,82	
6,50	66	16	10	4	17,53*	23,00*	33,10*	38,62*	
7,00	66	16	10	4	16,55	21,73	31,90	37,19	
7,50	69	16	10	4	20,74	27,18*	37,08	43,24*	
8,00	69	19	10	4	12,85	16,68	27,04	31,54	
8,50	69	19	10	4	21,61				
9,00	69	19	10	4	17,31	22,68	33,88	39,51	
9,50	72	22	10	4	23,46	29,99*	41,25	48,11*	
10,00	72	22	10	4	15,70	20,58	31,92	37,21	
11,00	79	22	12	4	21,64	28,39	41,17	48,02	
12,00	83	26	12	4	18,67	24,56	37,04	43,19	
13,00	83	26	12	4	27,83	36,65	50,46	58,83	
14,00	83	26	12	4	26,33	34,46	48,54	56,60	
15,00	83	26	12	4	30,01	39,33	55,90	65,18	
16,00	92	32	16	4	29,29	38,36	54,98	64,11	
17,00	92	32	16	4	36,08	47,49	65,74	76,66	
18,00	92	32	16	4	36,04	47,29	65,74	76,66	
19,00	92	31	16	4	42,68	55,64	75,42	87,97	
20,00	104	38	20	4	42,24	55,64	75,42	87,97	
22,00	104	38	20	4	58,65	77,22	104,40	121,75	
24,00	121	45	25	5	72,84	95,96	122,72	143,11	
25,00	121	45	25	5	72,60	95,96	122,72	143,11	
26,00	121	45	25	5	91,06	119,96*	155,14*	180,91*	
28,00	121	45	25	5	91,06	119,96	159,33	185,79	
30,00	121	45	25	6	105,57	138,28	177,66	207,19	
32,00	133	53	32	6	108,58	141,85	181,79	212,00	
36,00	133	53	32	6	142,08	187,13	227,64	265,45	
40,00	143	63	32	6	170,34	224,93	279,34	325,76	

DIN 844/L				MATERIAL		FF07		FF57		FT07	
				ACABADO		HSSCo 8%		HSSCo 8%		HSSCo 8%	
						BRILLANTE		TiAIN		TiAISIN	
						★★		★★★		★★★★	
L1 mm	L2 mm	D2 mm	Z	€		€		€			
54	10	6	4	18,49 *		28,62 *		33,53 *			
56	12	6	4	18,49 *		26,27 *		30,78 *			
56	12	6	4	18,49 *		29,76 *		34,88 *			
59	15	6	4	24,33 *		35,72 *		41,86 *			
63	19	6	4	18,49 *		29,76 *		34,88 *			
63	19	6	4	24,33 *		35,72 *		41,86 *			
68	24	6	4	18,49 *		29,76 *		34,88 *			
68	24	6	4	24,33 *		35,72 *		41,86 *			
68	24	6	4	18,49 *		29,76 *		34,88 *			
68	24	6	4								
80	30	10	4	27,99 *		41,08 *		48,13 *			
80	30	10	4								
88	38	10	4	25,69 *		38,71 *		45,33 *			
88	38	10	4								
88	38	10	4	29,06 *		43,32 *		50,76 *			
88	38	10	4								
95	45	10	4	25,55 *		41,19 *		48,28 *			
102	45	12	4	34,95 *		51,98 *		60,92 *			
110	53	12	4	32,46 *		49,44 *		57,93 *			
110	53	12	4								
110	53	12	4	42,43 *		59,98 *		70,28 *			
110	53	12	4								
123	63	16	4	46,37 *		70,91 *		83,09 *			
123	63	16	4								
123	63	16	4	56,64 *		84,26 *		98,72 *			
123	63	16	4								
141	75	20	4	66,33 *		96,69 *		113,29 *			
141	75	20	5	91,99 *		127,09		148,92			
141	75	25	5								
166	90	25	5	122,01 *		162,72 *		190,65 *			
166	90	25	5								
166	90	25	5	149,13 *		200,38 *		234,79 *			
166	90	25	6	170,68 *		222,15 *		260,27 *			
186	106	32	6	170,41 *		223,71 *		262,11 *			
186	106	32	6	243,05 *		307,38 *		360,16 *			
217	125	32	6	270,17 *		413,11 *		484,05 *			

*Hasta fin de existencias

FRESAS FRONTALES DE DESBASTE VARIOS CORTES DIN 844 Y DIN 844/L

3-5 Z



INOX

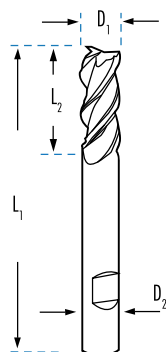
Al

TOL D1
k12

TOL D2
h6

SERIE CORTA

SERIE LARGA



DIN 844					MATERIAL	ACABADO	DESABASTE	CALIDAD	FP10	FT10	FP11	FT11
									ASP 60	ASP 60	ASP 60	ASP 60
						BRILLANTE			BRILLANTE	TiAlSiN	BRILLANTE	TiAlSiN
						NF			NF	NF	NR	NR
									Premium Quality	Premium Quality	Premium Quality	Premium Quality
D1 mm	L1 mm	L2 mm	D2 mm	Z					€	€	€	€
2,00	51	7	6	3								
2,50	52	8	6	3								
3,00	52	8	6	3								
3,50	55	11	6	3								
4,00	55	11	6	3								
4,50	57	13	6	3								
5,00	57	13	6	3								
5,50	57	13	6	3								
6,00	57	13	6	3					50,47	57,92	46,77	53,78
6,50	66	16	10	3								
7,00	66	16	10	3					64,72	70,47	58,72 *	66,82 *
7,50	69	19	10	3								
8,00	69	19	10	3					55,74	64,93	51,11	59,04
8,50	69	19	10	3								
9,00	69	19	10	3					67,14	73,52	61,08 *	69,88 *
9,50	72	22	10	3								
10,00	72	22	10	4					53,15	63,00	48,18	59,83
11,00	79	22	12	4								
12,00	83	26	12	4					69,92	79,19	63,75	72,95
13,00	83	26	12	4								
14,00	83	26	12	4					84,91	96,53	76,98	87,54
15,00	83	26	12	4								
16,00	92	32	16	4					104,08	114,76	94,90	106,92
17,00	92	32	16	4								
18,00	92	32	16	4					114,28	124,79	102,97	116,95
19,00	92	31	16	4								
20,00	104	38	20	4					141,76	156,28	128,14	146,61
22,00	104	38	20	5					174,76	192,54	158,48	180,11
24,00	121	45	25	5								
25,00	121	45	25	5					207,16	230,18	187,91	213,19
26,00	121	45	25	5								
28,00	121	45	25	5								
30,00	121	45	25	5								
32,00	133	53	32	5								
36,00	133	53	32	5								
40,00	155	63	32	5								

DIN 844/L					MATERIAL	ACABADO	DESABASTE	CALIDAD	FP15	FT15	FP13	FT13
									ASP 60	ASP 60	ASP 60	ASP 60
						BRILLANTE			BRILLANTE	TiAlSiN	BRILLANTE	TiAlSiN
						NF			NF	NF	NR	NR
									Premium Quality	Premium Quality	Premium Quality	Premium Quality
L1 mm	L2 mm	D2 mm	Z						€	€	€	€
54	10	6	3									
56	12	6	3									
56	12	6	3									
59	15	6	3									
63	19	6	3									
63	19	6	3									
68	24	6	3									
68	24	6	3									
68	24	6	3						79,20	83,67	70,25	77,31
68	24	6	3									
80	30	10	3						89,53	101,93	81,31	94,95
80	30	10	3									
88	38	10	3						83,30	88,66	73,74	82,59*
88	38	10	3									
88	38	10	3						87,87*	100,56	81,31	95,56
88	38	10	3									
95	45	10	4						74,95	83,36	66,79	76,97
102	45	12	4									
110	53	12	4						94,98	103,76	83,89	94,98
110	53	12	4									
110	53	12	4						111,33	127,74	100,12	113,06
110	53	12	4									
123	63	16	4						133,17	146,28	118,82	134,97
123	63	16	4									
123	63	16	4						148,96	173,45	135,71*	154,63*
123	63	16	4									
141	75	20	4						193,63	212,40	171,55	197,49
141	75	20	5						295,83	316,13	259,04	286,78
141	75	25	5									
166	90	25	5						297,06	326,15	262,04	303,94
166	90	25	5									
166	90	25	5									
166	90	25	5									
186	106	32	5									
186	106	32	5									
217	125	32	5									

FRESAS SERIE SUPER CORTA Y EXTRA CORTA DE 3 CORTES

3Z



INOX

Al

TOL D1
e8TOL D2
h6

SERIE SUPER CORTA

SERIE EXTRA CORTA

MATERIAL ACABADO					FF51 HSSCo 8% BRILLANTE
D1 mm	L1 mm	L2 mm	D2 mm	Z	€
1,00	34	2	6	3	15,06
1,50	34	3	6	3	15,06
2,00	35	4	6	3	15,03
2,50	36	5	6	3	15,03
3,00	36	5	6	3	15,03
3,50	37	6	6	3	15,03
4,00	38	7	6	3	15,03
4,50	38	7	6	3	15,03
5,00	39	8	6	3	15,03
5,50	39	8	6	3	15,03
6,00	39	8	6	3	15,03
6,50	42	10	8	3	20,66
7,00	42	10	8	3	20,66
7,50	42	10	8	3	20,66
8,00	43	11	8	3	20,66
8,50	48	11	10	3	23,68
9,00	48	11	10	3	23,68
9,50	48	11	10	3	23,68
10,00	50	13	10	3	23,68



MATERIAL ACABADO					FF53 HSSCo 8% BRILLANTE
D1 mm	L1 mm	L2 mm	D2 mm	Z	€
2,00	38	7	6	3	16,48
2,50	39	8	6	3	16,48
3,00	39	8	6	3	16,48
3,50	41	10	6	3	16,48
4,00	42	11	6	3	16,48
4,50	42	11	6	3	16,48
5,00	44	13	6	3	16,48
5,50	44	13	6	3	16,48
6,00	44	13	6	3	16,48
6,50	48	16	8	3	22,68
7,00	48	16	8	3	22,68
8,00	51	19	8	3	22,68
8,50	56	19	10	3	25,94
9,00	56	19	10	3	25,94
10,00	59	22	10	3	25,94

