



FRESAS

BLUE-MASTER[®]
by *celessa*

CUTTING TECHNOLOGIES

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

2Z



INOX

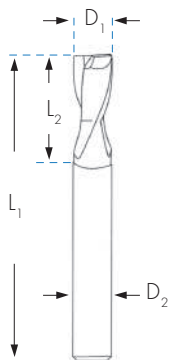
Al

TOL D₂
h6

Ref. FFAL



SERIE CORTA



Consultar dimensiones DIN844 en páginas sucesivas

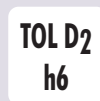


DIN 327	MATERIAL ACABADO CALIDAD				FF01	FF02	FF60	FT02	FF92	FP05	FT12	FP08	FT01	DIN 844	FFAL
					HSS BRILLANTE ★	HSSCo 8% BRILLANTE ★★	HSSCo 8% TiAlN ★★★	HSSCo 8% TiAlSiN ★★★★	HSSCo 8% BRILLANTE ★★	ASP 60 BRILLANTE Premium Quality	ASP 60 TiAlSiN Premium Quality	ASP 60 BRILLANTE Premium Quality	ASP 60 TiAlSiN Premium Quality		HSSCo 8% BRILLANTE Al TOL e8
	D1 mm	L1 mm	L2 mm	D2 mm	TOL e8 €	TOL e8 €	TOL e8 €	TOL e8 €	TOL h10 €	TOL e8 €	TOL e8 €	TOL h10 €	TOL h10 €		TOL e8 €
	1,00	47	2,5	6						23,85	30,89	34,77	41,50		
	2,00	48	4,0	6	10,84	13,73	22,52	26,26	27,95	20,12	27,46	30,69	37,73		16,61
	2,50	49	5,0	6	10,84*	13,73	22,52	26,26	29,73						16,94
	3,00	49	5,0	6	10,84	13,73	22,52	26,26	28,09	20,12	27,46	30,69	37,73		16,57
	3,50	50	6,0	6		14,91	23,68	27,59	29,73						17,58
	4,00	51	7,0	6	10,63	13,73	22,53	26,27	28,09	18,29	26,25	30,69	37,73		17,06
	4,50	52	8,0	6	10,63*	16,40	24,99	29,14	29,73						18,67
	5,00	52	8,0	6	10,63	13,73	22,53	26,27	28,09	18,29	26,25	30,69	37,73		17,06
	5,50	52	8,0	6		16,97	25,64	29,89	29,73						20,89
	6,00	52	8,0	6	10,63	13,73	22,53	26,27	28,09	18,29	26,25	30,69	37,73		18,49
	6,50	60	10,0	10	15,86*	22,21	32,13	37,46							27,33
	7,00	60	10,0	10	15,86	21,55	31,45	36,67	33,85	27,60	36,30	40,61	53,70		24,85
	7,50	61	11,0	10		21,35	31,24	36,43							29,13
	8,00	61	11,0	10	12,90	17,75	27,78	32,41	30,14	23,97	35,59	40,61	53,70		22,49
	8,50	61	11,0	10		23,98	34,75	40,52							30,71
	9,00	61	11,0	10	16,49	21,92	32,85	38,29	34,65	29,51	39,20	40,61	55,32		27,84
	9,50	63	13,0	10		23,46	34,00	39,63							
	10,00	63	13,0	10	13,57	17,63	28,61	33,53	29,90	26,70	36,27	40,61	55,32		24,31
	10,50	70	13,0	12		28,18	42,80	49,21							
	11,00	70	13,0	12		26,76	39,16	45,67	42,23						33,57
	12,00	73	16,0	12	17,73	23,62	35,86	41,81	39,86	34,07	46,81	55,30	70,30		30,49
	13,00	73	16,0	12		34,44	48,29	56,31	52,66						43,45
	14,00	73	16,0	12	25,22	34,44	48,29	56,31	52,66	41,53	57,40	62,49	77,79		42,65
	15,00	73	16,0	12		38,51	54,70	63,80	56,64						46,85
	16,00	79	19,0	16	26,33	34,09	50,20	58,55	57,54	51,99	68,04	73,07	90,77		45,64
	17,00	79	19,0	16		46,27	64,10	74,75							63,51
	18,00	79	19,0	16	34,49	46,27	64,16	74,83	70,08	65,84	81,15	92,62	139,90		57,01
	19,00	79	19,0	16		57,82	77,70	90,63							76,89
	20,00	88	22,0	16		54,73	74,77	87,20							
	20,00	88	22,0	20	40,43	54,73	74,77	87,20	83,69	77,55	97,61	107,97	142,89		65,90
	22,00	88	22,0	20	55,46	72,29	99,09	115,54	109,52	98,77	136,91	128,22	164,10		91,74
	24,00	102	26,0	25	69,60	93,29	123,04	143,46	130,88						137,87
	25,00	102	26,0	25	69,62	90,88	117,98	137,58	120,27	131,86	164,96	168,08	207,67		116,77
	26,00	102	26,0	25		106,61	163,36	187,83							183,38
	28,00	102	26,0	25	87,21	114,76	153,09	179,38							142,09
	30,00	102	26,0	25	100,34	130,76	169,47	197,62	174,20						163,51
	32,00	112	32,0	32	104,05	134,32	172,58	201,25							173,18
	36,00	112	32,0	32	133,96	179,66	221,69	258,52							
	40,00	130	38,0	40	162,87	220,62	274,10	319,64							

*Hasta fin de existencias

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

2Z



Ref. FFLAL

45° W

SERIE LARGA



DIN 327/L				MATERIAL ACABADO CALIDAD					DIN 844/L			
				FF06	FF67	FT06	FF15	FP21				FFLAL
				HSSCo 8% BRILLANTE ★★ TOL e8	HSSCo 8% TiAlN ★★★ TOL e8	HSSCo 8% TiAlSiN ★★★★ TOL e8	HSSCo 8% BRILLANTE ★★ TOL h10	ASP 60 BRILLANTE Premium Quality TOL h10				
D1 mm	L1 mm	L2 mm	D2 mm	€	€	€	€	€	L1 mm	L2 mm	D2 mm	€
2,00	54	7	6	15,13	23,87	27,83	30,73	36,05	54	10	6	25,03
2,50	56	8	6	15,21	23,87	27,83	30,77		56	12	6	
3,00	56	8	6	15,13	23,93	27,91	30,77	37,15	56	12	6	25,15
3,50	59	10	6	17,19	28,42	33,17			59	15	6	
4,00	63	11	6	15,20	23,93	27,91	30,77	37,15	63	19	6	25,31
4,50	63	11	6	17,19	24,44	28,50			63	19	6	
5,00	68	13	6	15,20	23,93	27,91	32,58	39,33	68	24	6	25,43
5,50	68	13	6	17,19	28,42	33,17			68	24	6	
6,00	68	13	6	15,20	23,93	27,91	29,44	35,53	68	24	6	26,40
6,50	80	16	10	28,51	46,65	53,64			68	24	6	
7,00	80	16	10	25,10	35,04	40,87	37,13	44,40	80	30	10	
7,50	88	19	10						80	30	10	
8,00	88	19	10	22,09	31,99	37,33	37,13	44,81	88	38	10	36,08
8,50	88	19	10	33,81	46,01	53,65			88	38	10	
9,00	88	19	10	29,72	40,52	47,23	40,73	48,72	88	38	10	38,05
10,00	95	22	10	24,34	37,06	43,21	40,56	49,19	95	45	10	36,08
11,00	102	22	12	38,37	51,76	60,35	54,02		102	45	12	50,56
12,00	110	26	12	34,99	48,94	57,08	52,98	63,66	110	53	12	46,67
13,00	110	26	12						110	53	12	
14,00	110	26	12	46,12	59,82	69,75	70,29	79,79	110	53	12	53,42
15,00	123	32	16						110	53	12	
16,00	123	32	16	52,86	73,82	86,10	80,00	95,22	123	63	16	65,21
17,00	123	32	16						123	63	16	
18,00	123	32	16	60,39	86,65	101,02	96,14	114,41	123	63	16	80,70
20,00	141	38	20	69,45	95,05	110,85	104,25	124,05	141	75	20	96,26
22,00	141	38	20	95,22	128,98	150,40	129,22	153,79	141	75	20	
24,00	166	45	25	144,90	164,10	188,67	173,83		166	90	25	
25,00	166	45	25	136,60	173,56	202,39	158,93	189,13	166	90	25	
26,00	166	45	25	181,38	193,23	222,17			166	90	25	
28,00	166	45	25	165,53	211,30	246,41			166	90	25	
30,00	166	45	25	184,01	227,46	265,24	236,75		166	90	25	
32,00	186	53	32	254,58	296,52	345,76	308,48		186	106	32	
36,00	186	53	32	288,02	337,14	393,14			186	106	32	
40,00	196	63	32	377,43	455,50	531,18			196	125	40	

Fresas

Rosa

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

3Z

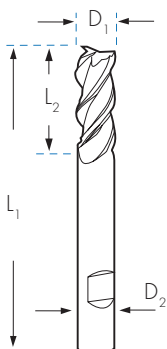


INOX

Al

TOL D₂
h6

SERIE CORTA



DIN 844				FF63		FF75		FT63		FF73		FF76		FT73		DIN 327			FP06		FT03	
				MATERIAL	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	ASP 60	ASP 60										
				ACABADO	BRILLANTE	TiAIN	TiAlSiN	BRILLANTE	TiAIN	TiAlSiN	BRILLANTE	TiAlSiN										
				CALIDAD	★★	★★★	★★★★	★★	★★★	★★★★												
				DESBASTE																		
				TOL k10	TOL k10	TOL k10	TOL k12	TOL k12	TOL k12				TOL e8	TOL e8								
D1 mm	L1 mm	L2 mm	D2 mm	€	€	€	€	€			L1 mm	L2 mm	D2 mm	€	€							
1,00	49	3	6								47	2,5	6	25,63	31,92							
2,00	51	7	6	15,09	23,75	27,69					48	4,0	6	20,83	31,18							
2,50	52	8	6	15,09	23,75	27,69					49	5,0	6									
3,00	52	8	6	15,05	23,75	27,69					49	5,0	6	20,83	31,18							
3,50	55	11	6	15,55	24,19	28,36					50	6,0	6									
4,00	55	11	6	15,08	23,75	27,69					51	7,0	6	20,83	31,18							
4,50	57	13	6	16,61	25,10	29,27					52	8,0	6									
5,00	57	13	6	15,08	23,86	27,83					52	8,0	6	20,83	31,18							
5,50	57	13	6	20,50	32,65	38,07					52	8,0	6									
6,00	57	13	6	15,88	26,68	31,11	43,05	52,00	59,77		52	8,0	6	20,83	31,18							
6,50	66	16	10	28,48	43,67	50,22					60	10,0	10									
7,00	66	16	10	22,19	32,07	37,55	50,92	62,07	71,37		60	10,0	10	28,04	38,00							
7,50	69	19	10	28,69	44,13	50,75					61	11,0	10									
8,00	69	19	10	19,82	29,60	34,53	44,12	51,39	59,94		61	11,0	10	28,04	38,00							
8,50	69	19	10	30,24	45,58	52,40					61	11,0	10									
9,00	69	19	10	24,75	35,50	41,39	52,36	61,46	71,67		61	11,0	10									
9,50	72	22	10	32,68	47,89	55,06					63	13,0	10									
10,00	72	22	10	21,47	32,13	37,46	44,39	54,63	63,69		63	13,0	10	29,72	39,31							
11,00	79	22	12	34,10	50,71	58,31	64,06	73,80	86,08		70	13,0	12									
12,00	83	26	12	26,96	38,35	44,72	53,41	62,87	73,32		73	16,0	12	38,34	49,71							
13,00	83	26	12	42,88	58,96	67,80	69,77	81,27	94,79		73	16,0	12									
14,00	83	26	12	36,73	50,30	58,66	60,95	71,71	83,63		73	16,0	12	49,67	60,54							
15,00	83	26	12	44,06	61,19	70,37	77,14	84,44	93,08		73	16,0	12									
16,00	92	32	16	40,33	56,13	65,46	73,88	89,10	103,93		79	19,0	16	58,42	69,69							
17,00	92	32	16	66,00	86,66	99,63					79	19,0	16									
18,00	92	32	16	50,67	68,54	79,93	80,84	98,09	114,39		79	19,0	16	71,89	85,24							
19,00	92	31	16	80,71	99,70	114,65					79	19,0	16									
20,00	104	38	20	58,18	77,25	90,10	98,63	115,38	134,55		88	22,0	20	85,50	102,05							
22,00	104	38	20	92,75	116,64	134,12					88	22,0	20	114,13	145,99							
25,00	121	45	25	121,18	154,43	177,58	149,40	170,73	199,10		102	26,0	25	143,28	164,63							
28,00	121	45	25	140,77	172,69	198,55					102	26,0	25									
30,00	121	45	25	173,17	202,82	233,20	185,79	219,21	255,64		102	26,0	25									
32,00	133	53	32	176,26	218,89	251,68					112	32,0	32									

FRESAS FRONTALES SERIE LARGA DE 3 CORTES DIN 844/L

3Z



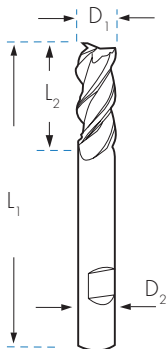
INOX

Al

TOL D1
k10

TOL D2
h6

SERIE LARGA



DIN 844/L				MATERIAL	FF83	FF86	FT83
				ACABADO CALIDAD	HSSCo 8%	HSSCo 8%	HSSCo 8%
					BRILLANTE	TiAIN	TiAISIN
					★★	★★★	★★★★
D1 mm	L1 mm	L2 mm	D2 mm	€	€	€	
1,00	52	7	6				
2,00	54	10	6	20,34	29,78	34,72	
2,50	56	12	6	20,72	29,73	34,68	
3,00	56	12	6	20,34	29,69	34,62	
3,50	59	15	6	22,76	31,83	37,13	
4,00	63	19	6	20,34	29,69	34,62	
4,50	63	19	6	22,76	31,83	37,13	
5,00	68	24	6	20,34	29,69	34,62	
5,50	68	24	6	22,76	31,83	37,13	
6,00	68	24	6	22,79	31,05	36,21	
6,50	68	24	6				
7,00	80	30	10	30,87	41,57	48,48	
7,50	80	30	10				
8,00	88	38	10	28,24	37,50	43,73	
8,50	88	38	10				
9,00	88	38	10	34,36	44,48	51,88	
9,50	88	38	10				
10,00	95	45	10	28,39	41,24	48,09	
11,00	102	45	12	43,65	56,16	65,49	
12,00	110	53	12	36,12	50,27	58,63	
13,00	110	53	12				
14,00	110	53	12	47,05	61,47	71,69	
15,00	110	53	12				
16,00	123	63	16	53,01	74,09	86,41	
17,00	123	63	16				
18,00	123	63	16	64,24	87,58	102,14	
19,00	123	63	16				
20,00	141	75	20	75,41	100,21	116,85	
22,00	141	75	20	95,11	129,22	150,69	
25,00	166	90	25	138,61	170,71	199,08	
28,00	166	90	25	154,31	204,42	238,40	
30,00	166	90	25	171,80	218,36	254,64	
32,00	186	106	32	204,41	245,93	286,80	

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

4-6 Z



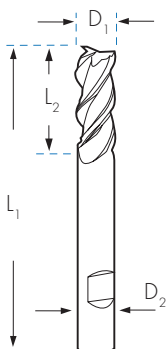
INOX

Al

TOL D1
k10TOL D2
h6

SERIE CORTA

SERIE LARGA

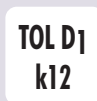


DIN 844					FF18		FF20		FT18		FP07		FT09	
MATERIAL					HSSCo 8%		HSSCo 8%		HSSCo 8%		ASP 60		ASP 60	
ACABADO					BRILLANTE		TiAIN		TiAlSiN		BRILLANTE		TiAlSiN	
CALIDAD					★★		★★★		★★★★		Premium Quality		Premium Quality	
D1 mm	L1 mm	L2 mm	D2 mm	Z	€		€		€		€		€	
1,00	49	3	6	4							28,42		33,75	
2,00	51	7	6	4	15,14		23,82		27,76		20,77		28,47	
2,50	52	8	6	4	15,14		23,82		27,76		20,77		28,47	
3,00	52	8	6	4	15,14		23,82		27,76		20,77		28,47	
3,50	55	11	6	4	15,59		24,26		28,30					
4,00	55	11	6	4	15,14		23,82		27,76		20,77		28,47	
4,50	57	13	6	4	16,64		25,15		29,32					
5,00	57	13	6	4	15,14		23,82		27,76		20,77		28,47	
5,50	57	13	6	4	24,20		32,65		38,07					
6,00	57	13	6	4	15,80		24,56		28,63		20,77		28,47	
6,50	66	16	10	4	24,15		33,99		39,63					
7,00	66	16	10	4	22,19		32,08		37,40		28,23		40,62	
7,50	69	16	10	4	28,60		38,18		44,53					
8,00	69	19	10	4	19,53		29,72		34,66		28,11		40,22	
8,50	69	19	10	4	29,82		40,38		47,10					
9,00	69	19	10	4	24,64		35,54		41,45		33,21		43,87	
9,50	69	19	10	4	31,55		42,01		48,98					
10,00	72	22	10	4	21,36		32,26		37,63		29,85		41,23	
11,00	79	22	12	4	29,71		41,98		48,96					
12,00	83	26	12	4	26,96		37,29		43,49		39,42		54,59	
13,00	83	26	12	4	38,03		51,87		60,49					
14,00	83	26	12	4	35,89		50,60		59,02		48,98		58,15	
15,00	83	26	12	4	40,99		56,55		65,95					
16,00	92	32	16	4	40,00		56,41		65,76		57,41		68,87	
17,00	92	32	16	4	49,84		67,54		78,76					
18,00	92	32	16	4	49,27		68,61		79,99		70,02		86,13	
19,00	92	31	16	4	58,36		77,64		90,52					
20,00	104	38	20	4	57,68		77,64		90,52		82,35		111,89	
22,00	104	38	20	4	80,07		107,61		125,50		108,50		131,97	
24,00	121	45	25	5	100,66		126,81		147,88					
25,00	121	45	25	5	96,22		126,21		147,19		140,00		174,02	
26,00	121	45	25	5	115,50		153,21		181,25					
28,00	121	45	25	5	114,53		153,55		185,20					
30,00	121	45	25	6	133,14		170,43		208,65					
32,00	133	53	32	6	136,51		174,36		213,46					
36,00	133	53	32	6	206,74		250,33		306,43					
40,00	155	63	32	6	248,54		304,43		372,66					

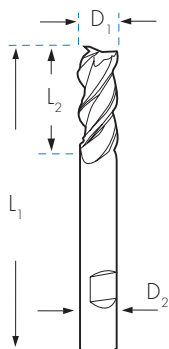
DIN 844/L					FF21		FF23		FT21		FP20	
MATERIAL					HSSCo 8%		HSSCo 8%		HSSCo 8%		ASP 60	
ACABADO					BRILLANTE		TiAIN		TiAlSiN		BRILLANTE	
CALIDAD					★★		★★★		★★★★		Premium Quality	
L1 mm	L2 mm	D2 mm	Z		€		€		€		€	
52	7	6	4									
54	10	6	4		18,48		27,05		31,54		29,51	
56	12	6	4		18,38		27,05		31,54			
56	12	6	4		18,48		27,06		31,55		29,51	
59	15	6	4		24,29		32,80		38,24			
63	19	6	4		18,48		27,06		31,55		29,51	
63	19	6	4		24,29		32,80		38,24			
68	24	6	4		18,48		27,06		31,55		29,51	
68	24	6	4		24,13		32,80		38,24			
68	24	6	4		18,48		27,06		31,55		29,51	
68	24	6	4									
80	30	10	4		28,04		37,62		43,88		44,02	
80	30	10	4									
88	38	10	4		25,47		33,90		39,53		44,02	
88	38	10	4									
88	38	10	4		29,02		39,52		46,09		44,02	
88	38	10	4									
95	45	10	4		25,58		37,41		43,64		44,02	
102	45	12	4		36,34		49,30		57,51			
110	53	12	4		33,47		46,83		54,63		63,83	
110	53	12	4									
110	53	12	4		43,80		57,10		66,59		73,68	
110	53	12	4									
123	63	16	4		47,88		67,18		78,35		91,30	
123	63	16	4									
123	63	16	4		58,49		79,97		93,26		116,82	
123	63	16	4									
141	75	20	4		68,50		92,38		107,72		143,25	
141	75	20	5		94,99		121,75		141,99		160,68	
141	75	25	5									
166	90	25	5		125,94		155,49		181,31		233,41	
166	90	25	5									
166	90	25	5		140,87		184,97		215,69			
166	90	25	6		159,01		203,19		236,97			
186	106	32	6		160,30		204,63		238,62			
186	106	32	6		229,77		275,86		321,68			
217	125	32	6		254,67		328,90		385,37			

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

4-6 Z



SERIE CORTA



SERIE LARGA



DIN 844					MATERIAL	FF25	FF27	FT25
					ACABADO	HSSCo 8%	HSSCo 8%	HSSCo 8%
					CALIDAD	BRILLANTE	TiAIN	TIAISIN
					DESBASTE	★★	★★★	★★★★
						 NR	 NR	 NR
D1 mm	L1 mm	L2 mm	D2 mm	Z	€	€	€	
6,00	57	13	6	4	38,75	46,78	54,55	
7,00	66	16	10	4	46,57	55,84	65,11	
8,00	69	19	10	4	40,45	49,72	57,98	
9,00	69	19	10	4	48,35	58,54	68,29	
10,00	72	22	10	4	40,13	49,24	57,41	
11,00	79	22	12	4	58,81	70,53	82,26	
12,00	83	26	12	4	48,47	60,03	69,99	
13,00	83	26	12	4	68,82	81,44	94,97	
14,00	83	26	12	4	56,27	69,62	81,19	
15,00	83	26	12	4	74,00	89,61	104,50	
16,00	92	32	16	4	66,75	82,04	95,68	
17,00	92	32	16	4	91,15	108,45	126,46	
18,00	92	32	16	4	72,79	90,39	105,40	
19,00	92	31	16	4	107,72	125,70	146,60	
20,00	104	38	20	4	91,21	110,41	128,76	

SIN CORTE AL CENTRO					FF05	FF74	FT05
22,00	104	38	20	6	103,05	133,23	
24,00	121	45	25	6	129,80	157,99	176,31
25,00	121	45	25	6	128,58	157,08	175,29
26,00	121	45	25	6	148,90	192,21	214,48
28,00	121	45	25	6	162,43	209,12	233,35
30,00	121	45	25	6	174,49	228,89	255,41
32,00	133	53	32	6	197,68	246,18	274,70
36,00	133	53	32	6	234,29	283,68	316,57
40,00	155	63	32	6	263,39	328,50	366,58

DIN 844/L				MATERIAL	FF29	FF31	FT29
				ACABADO	HSSCo 8%	HSSCo 8%	HSSCo 8%
				CALIDAD	BRILLANTE	TiAIN	TiAISIN
				DESBASTE	★★	★★★	★★★★
							
L1 mm	L2 mm	D2 mm	Z	€	€	€	
68	24	6	4	54,92	62,12	72,79	
80	30	10	4	56,62	70,97	82,76	
88	38	10	4	56,80	65,68	76,59	
88	38	10	4	62,28	71,96	83,91	
95	45	10	4	49,47	61,17	71,34	
102	45	12	4	80,96	92,77	108,20	
110	53	12	4	61,11	73,93	86,22	
110	53	12	4				
110	53	12	4	70,61	83,53	97,43	
110	53	12	4				
123	63	16	4	82,65	101,37	118,20	
123	63	16	4				
123	63	16	4	96,53	118,53	138,22	
123	63	16	4				
141	75	20	4	117,48	139,73	162,94	

					FF08	FF58	FT08
141	75	20	6		132,33	178,49	199,18
141	75	25	6				
166	90	25	6		167,11	211,45	235,96
166	90	25	6				
166	90	25	6		188,45	243,10	271,27
166	90	25	6		244,33	290,38	324,05
186	106	32	6		255,55	296,87	331,28
186	106	32	6		306,86	354,51	395,59
217	125	40	6		362,81	441,25	492,40

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

4-6 Z



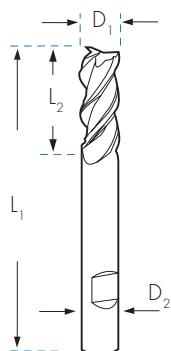
INOX

Al

TOL D1
k10TOL D2
h6

SERIE CORTA

SERIE LARGA



DIN 844					MATERIAL				ACABADO				CALIDAD			
					HSS	HSSCo 8%	HSSCo 8%	HSSCo 8%	BRILLANTE	BRILLANTE	TiAIN	TiAlSiN	★	★★	★★★	★★★★
D1 mm	L1 mm	L2 mm	D2 mm	Z	€	€	€	€								
2,00	51	7	6	4	10,85	14,22	22,88	26,70								
2,50	52	8	6	4	10,85	14,22	22,88	26,70								
3,00	52	8	6	4	10,85	14,22	22,88	26,70								
3,50	55	11	6	4	11,19	14,66	23,40	27,27								
4,00	55	11	6	4	10,85	14,22	22,97	26,77								
4,50	57	13	6	4	11,19	14,65	23,40	27,27								
5,00	57	13	6	4	10,85	14,22	22,97	26,77								
5,50	57	13	6	4	16,86	22,12	30,76	35,86								
6,00	57	13	6	4	10,85	14,22	22,96	26,75								
6,50	66	16	10	4	16,86*	22,12	31,83	37,13								
7,00	66	16	10	4	15,91	20,89	30,67	35,76								
7,50	69	16	10	4	19,94	26,13	35,65	41,58								
8,00	69	19	10	4	12,36	16,04	26,00	30,33								
8,50	69	19	10	4	20,78	27,30	37,77	44,04								
9,00	69	19	10	4	16,64	21,81	32,58	37,99								
9,50	72	22	10	4	22,56	28,84	39,66	46,26								
10,00	72	22	10	4	15,10	19,79	30,69	35,78								
11,00	79	22	12	4	20,81	27,30	39,59	46,17								
12,00	83	26	12	4	17,95	23,62	35,62	41,53								
13,00	83	26	12	4	26,76	35,24	48,52	56,57								
14,00	83	26	12	4	25,32	33,13	46,67	54,42								
15,00	83	26	12	4	28,86	37,82	53,75	62,67								
16,00	92	32	16	4	28,16	36,88	52,87	61,64								
17,00	92	32	16	4	34,69	45,66	63,21	73,71								
18,00	92	32	16	4	34,65	45,47	63,21	73,71								
19,00	92	31	16	4	41,04	53,50	72,52	84,59								
20,00	104	38	20	4	40,62	53,50	72,52	84,59								
22,00	104	38	20	5	56,39	74,25	100,38	117,07								
24,00	121	45	25	5	70,04	92,27	118,00	137,61								
25,00	121	45	25	5	69,81	92,27	118,00	137,61								
26,00	121	45	25	5	87,56	115,35	149,17	173,95								
28,00	121	45	25	5	87,56	115,35	153,20	178,64								
30,00	121	45	25	6	101,51	132,96	170,83	199,22								
32,00	133	53	32	6	104,40*	136,39	174,80	203,85								
36,00	133	53	32	6	136,62	179,93	218,88	255,24								
40,00	143	63	32	6	163,79	216,28	268,60	313,23								

DIN 844/L				MATERIAL				ACABADO				CALIDAD			
				HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	BRILLANTE	BRILLANTE	TiAIN	TiAlSiN	★★	★★★	★★★★	★★★★★
L1 mm	L2 mm	D2 mm	Z	€	€	€	€								
54	10	6	4	17,78	27,52	32,24									
56	12	6	4	17,78	25,26	29,60									
56	12	6	4	17,78	28,62	33,54									
59	15	6	4	23,39	34,35	40,25									
63	19	6	4	17,78	28,62	33,54									
63	19	6	4	23,39	34,35	40,25									
68	24	6	4	17,78	28,62	33,54									
68	24	6	4	23,39	34,35	40,25									
68	24	6	4	17,78	28,62	33,54									
80	30	10	4	26,91	39,50	46,28									
80	30	10	4												
88	38	10	4	24,70	37,22	43,59									
88	38	10	4												
88	38	10	4	27,94	41,65	48,81									
88	38	10	4												
95	45	10	4	24,57	39,61	46,42									
102	45	12	4	33,61	49,98	58,58									
110	53	12	4	31,21	47,54	55,70									
110	53	12	4												
110	53	12	4	40,80	57,67	67,58									
110	53	12	4												
123	63	16	4	44,59	68,18	79,89									
123	63	16	4												
123	63	16	4	54,46	81,02	94,92									
123	63	16	4												
141	75	20	4	63,78	92,97	108,93									
141	75	20	5	88,45	122,20	143,19									
141	75	25	5												
166	90	25	5	117,32	156,46	183,32									
166	90	25	5												
166	90	25	5	143,39	192,67	225,76									
166	90	25	6	164,12	213,61	250,26									
186	106	32	6	163,86	215,11	252,03									
186	106	32	6	233,70	295,56	346,31									
217	125	40	6	259,78	397,22	465,43									

*Hasta fin de existencias

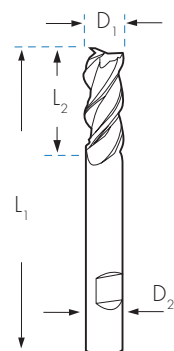
FRESAS FRONTALES DE DESBASTE VARIOS CORTES DIN 844 Y DIN 844/L

3-5 Z



SERIE CORTA

SERIE LARGA



DIN 844		MATERIAL ACABADO DESBASTE CALIDAD			FP10	FT10	FP11	FT11
					ASP 60	ASP 60	ASP 60	ASP 60
					BRILLANTE	TiAlSiN	BRILLANTE	TiAlSiN
					NF	NF	NR	NR
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	48,53	55,69	44,97	51,71
6,50	66	16	10	3				
7,00	66	16	10	3	62,23	67,76	56,46	64,25
7,50	69	19	10	3				
8,00	69	19	10	3	53,60	62,43	49,14	56,77
8,50	69	19	10	3				
9,00	69	19	10	3	64,56	70,69	58,73	67,19
9,50	72	22	10	3				
10,00	72	22	10	4	51,11	60,58	46,33	57,53
11,00	79	22	12	4				
12,00	83	26	12	4	67,23	76,14	61,30	70,14
13,00	83	26	12	4				
14,00	83	26	12	4	81,64	92,82	74,02	84,17
15,00	83	26	12	4				
16,00	92	32	16	4	100,08	110,35	91,25	102,81
17,00	92	32	16	4				
18,00	92	32	16	4	109,88	119,99	99,01	112,45
19,00	92	31	16	4				
20,00	104	38	20	4	136,31	150,27	123,21	140,97
22,00	104	38	20	5	168,04	185,13	152,38	173,18
24,00	121	45	25	5				
25,00	121	45	25	5	199,19	221,33	180,68	204,99
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	40	5				

DIN 844/L				MATERIAL ACABADO DESBASTE CALIDAD				FP15	FT15	FP13	FT13
				ASP 60	ASP 60	ASP 60	ASP 60				
				BRILLANTE	TiAlSiN	BRILLANTE	TiAlSiN				
				NF	NF	NR	NR				
											
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	76,15	80,45	67,55	74,34				
68	24	6	3								
80	30	10	3	86,09	98,01	78,18	91,30				
80	30	10	3								
88	38	10	3	80,10	85,25	70,90	79,41				
88	38	10	3								
88	38	10	3	84,49	96,69	78,18	91,88				
88	38	10	3								
95	45	10	4	72,07	80,15	64,22	74,01				
102	45	12	4								
110	53	12	4	91,33	99,77	80,66	91,33				
110	53	12	4								
110	53	12	4	107,05	122,83	96,27	108,71				
110	53	12	4								
123	63	16	4	128,05	140,65	114,25	129,78				
123	63	16	4								
123	63	16	4	143,23	166,78	130,49	148,68				
123	63	16	4								
141	75	20	4	186,18	204,23	164,95	189,89				
141	75	20	5	284,45	303,97	249,08	275,75				
141	75	25	5								
166	90	25	5	285,63	313,61	251,96	292,25				
166	90	25	5								
166	90	25	5								
166	90	25	5								
186	106	32	5								
186	106	32	5								
217	125	40	5								

Fresas

Rosa

FRESAS SERIE SUPER CORTA Y EXTRA CORTA DE 3 CORTES

3Z



INOX

Al

TOL D1
e8

TOL 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	14,48
1,50	34	3	6	3	14,48
2,00	35	4	6	3	14,45
2,50	36	5	6	3	14,45
3,00	36	5	6	3	14,45
3,50	37	6	6	3	14,45
4,00	38	7	6	3	14,45
4,50	38	7	6	3	14,45
5,00	39	8	6	3	14,45
5,50	39	8	6	3	14,45
6,00	39	8	6	3	14,45
6,50	42	10	8	3	19,87
7,00	42	10	8	3	19,87
7,50	42	10	8	3	19,87
8,00	43	11	8	3	19,87
8,50	48	11	10	3	22,77
9,00	48	11	10	3	22,77
9,50	48	11	10	3	22,77
10,00	50	13	10	3	22,77



MATERIAL ACABADO					FF53 HSSCo 8% BRILLANTE
D1 mm	L1 mm	L2 mm	D2 mm	Z	€
2,00	38	7	6	3	15,85
2,50	39	8	6	3	15,85
3,00	39	8	6	3	15,85
3,50	41	10	6	3	15,85
4,00	42	11	6	3	15,85
4,50	42	11	6	3	15,85
5,00	44	13	6	3	15,85
5,50	44	13	6	3	15,85
6,00	44	13	6	3	15,85
6,50	48	16	8	3	21,81
7,00	48	16	8	3	21,81
8,00	51	19	8	3	21,81
8,50	56	19	10	3	24,94
9,00	56	19	10	3	24,94
10,00	59	22	10	3	24,94



3Z



DIN
844N

HSS
PM



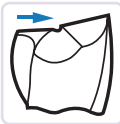
Al

Cu

TOL D1
k10

TOL D2
h6

Mejora la extracción
de viruta



	FP22					
	D1 mm	L1 mm	L2 mm	D2 mm	Z	€
FP220600	6,00	57	13	6	3	35,03*
FP220700	7,00	66	16	10	3	47,33*
FP220800	8,00	69	19	10	3	47,33*
FP220900	9,00	69	19	10	3	47,33*
FP221000	10,00	72	22	10	3	47,33*
FP221200	12,00	83	26	12	3	65,14*
FP221400	14,00	83	26	12	3	74,27*
FP221500	15,00	83	26	12	3	90,71*
FP221600	16,00	92	32	16	3	90,71*
FP221800	18,00	92	32	16	3	127,17*
FP222000	20,00	104	38	20	3	151,76*



*Hasta fin de existencias