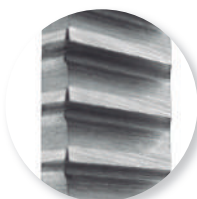


FRESAS PARA MÁQUINAS DUPLICADORAS DE LLAVES TIPO JMA

FRESAS DE SERRETA O BICONICAS



Ref.FLL99: Fresa de serreta 80x5x16 Z110 sin chaflán lateral.

Ref. FLLFP4

Ref. BM	Ref. JMA	TIPOS DE MÁQUINAS	MATERIAL	mm	mm	mm	°	Z	mm	FLL
FLLFP1 (FLL02)	FP1	OREGON	HSSV	25	10	10	100°	60	0,1	102,56
FLLFP2W	FP2W	VIRGINIA	MD	40	10	6	70°	70	0,1	403,37
FLLFP3 (FLL04)	FP3	KIS, SPRINT	HSSV	50	12	6	90°	80	0,15	124,82
FLLFP4 (FLL06)	FP4	KIS	HSSV	53	12,7	6,35	45/15°	72	0,6	128,73
FLLFP5	FP5	JMA	HSSV	57	12,7	5	90°	80	0,15	160,44
FLLFP6 (FLL09)	FP6	KIS, SPRINT	HSSV	60	12,7	5	84°	140	0,1	124,82
FLLFP11ECCO (FLL11)	FP11/ECCO-009	ECCO, ECCO-PLUS	HSSV	63	16	5	84°	80	1	119,41
FLLFP11W	FP11W	ECCO, ECCO-PLUS	MD	63	16	5	84°	80	1	365,18
FLLFP12	FP12	TUCSON	HSSV	63	16	5	80°	80	1,25	128,73
FLLFP12W	FP12W	TUCSON	MD	63	16	5	80°	80	1,25	394,30
FLLFP13	FP13	DALLAS	HSSV	63	16	5	84°	100	1	160,31
FLLCU14	CU14	ECCO, ECCO-PLUS	HSSV	63	16	5	80°	80	1,25	157,09
FLLFP16 (FLL13)	FP16	PROCEDURE	HSSV	70	16	5,25	76°	100	1	160,31
FLLFP16W	FP16W	PROCEDURE	MD	70	16	5,25	76°	100	1	394,30
SLP01	FP24 DAKOTA = P01	DAKOTA, ERREBI SARATOGA, NEVADA, DENVER, TITAN, VIENNA	HSSV	80	16	5	84°	110	1	103,50
SLP01/120	FP24 DAKOTA=P01/120		HSSV	80	16	5	84°	120	1	105,47
FLLFP24 (FLL16)	FP24 ERREBI		HSSV	80	16	5	84°	110	1,25	98,46
FLLFP24W	FP24W ERREBI		MD	80	16	5	84°	110	1,25	365,18
FLL99	FP24		HSSV	80	16	5	84°	110	0	113,76

OTRAS FRESAS DE USO GENERAL

	Ref. BM	TIPOS DE MÁQUINAS	MATERIAL	mm	mm	mm	Z	FLL
SERRETA Ó BICÓNICAS	FLL01	FLORA	HSSV	23	10	5	36	118,08
	FLL03	YALE	HSSV	40	8	5	80	128,11
	FLL05	NOVACLAU	HSSV	52	16	5	110	151,27
	FLL07	KIS	HSSV	53	12,7	6	80	168,31
	FLL08	KIS	HSSV	55	12	6	80	168,31
	FLL10	NOVACLAU	HSSV	61	12,7	6,5	140	171,37
	FLL11	NOVACLAU	HSSV	62	16	5	80	168,04
	FLL12	NOVACLAU	HSSV	63	16	5	140	168,04
	FLL14	WALKIN	HSSV	70	15	6,5	150	155,67
	FLL15	LINCE	HSSV	70	13	7	88	173,09

FRESAS PARA MÁQUINAS DUPLICADORAS DE LLAVES TIPO JMA

SIERRAS CIRCULARES DE CORTE LATERAL



Ref. FLLFP19



Ref. BM	Ref. JMA	TIPOS DE MÁQUINAS	MATERIAL	mm		mm	Z	FLL
				mm	mm			
FLL17		JMA-NOVACLAU-WALKIN	HSSV	35	12	3,15	50	116,98
FLL18		JMA-NOVACLAU-WALKIN	HSSV	63	15	1,40	80	143,05
FLLFP7	FP7	ECCO BIT, DETROIT	HSSV	63	16	1,25	80	128,17
FLLFP7W	FP7W	ECCO BIT, DETROIT	MD	63	16	1,25	80	318,51
FLLFP8 (FLL19)	FP8	ECCO BIT, DETROIT	HSSV	63	16	1,4	80	129,59
FLL20		JMA-NOVACLAU-WALKIN	HSSV	70	16	1,40	100	150,07
FLLFP17	FP17	TITAN BIT, SARATOGA, YAKARTA	HSSV	80	16	1,25	100	131,12
FLLFP17W	FP17W	TITAN BIT, SARATOGA, YAKARTA	MD	80	16	1,25	100	334,63
FLLFP18	FP18	ATLANTA, TOPEKA	HSSV	80	22	1,25	100	133,74
FLLFP18W	FP18W	ATLANTA, TOPEKA	MD	80	22	1,25	100	334,63
FLLFP19 (FLL21)	FP19	SARATOGA, YAKARTA, TITAN BIT, DAKOTA	HSSV	80	16	1,4	100	134,24
FLLFP19W	FP19W	SARATOGA, YAKARTA, TITAN BIT, DAKOTA	MD	80	16	1,4	100	313,42
FLLFP20 (FLL22)	FP20	ATLANTA, TOPEKA	HSSV	80	22	1,4	100	134,24
FLLFP21 (FLL24)	FP21/SLSG2	ATLANTA, TOPEKA, DUPLEX, KANSAS	HSSV	80	22	1,5	100	137,96
FLLFP21W	FP21W	ATLANTA, TOPEKA, DUPLEX, KANSAS	MD	80	22	1,5	100	341,17

SIERRAS PARA LLAVES DE GORJAS



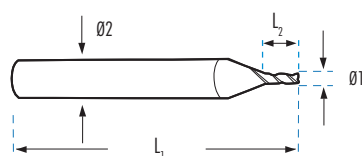
Ref. FLLFP22W



Ref. BM	Ref. JMA	TIPOS DE MÁQUINAS	MATERIAL	mm		mm	Z	FLL
				mm	mm			
FLLFP9	FP9	ECCO BIT	HSSV	63	16	1	80	84,50
FLLFP10	FP10	ECCO FORD, ECCO ABBLOY, PASADENA, NEBRASCA	HSSV	63	16	2,4	80	84,50
FLLFP22	FP22	TITAN BIT, DAKOTA, SARATOGA	HSSV	80	16	1	100	90,14
FLLFP22W	FP22W	TITAN BIT, DAKOTA, SARATOGA	MD	80	16	1	100	308,47
FLLFP23	FP23	DUPLEX, ATLANTA, TOPEKA	HSSV	80	22	1	100	93,39
FLLFP23W	FP23W	DUPLEX, ATLANTA, TOPEKA	MD	80	22	1	100	308,47
FF68801416100CO	-	TITAN, DAKOTA, SARATOGA, YAKARTA	HSSCo	80	16	1,4	100	90,79
FLLFP26 (FLL23)	FP26	G, SENNA, DAKOTA, SARATOGA, YAKARTA	HSSV	80	16	1,5	100	94,68
FLLFP26W	FP26W	G, SENNA, DAKOTA, SARATOGA,	MD	80	16	1,5	100	312,79

FRESAS PARA MÁQUINAS DUPLICADORAS DE LLAVES TIPO JMA

FRESAS PARA LLAVES DE REGATA

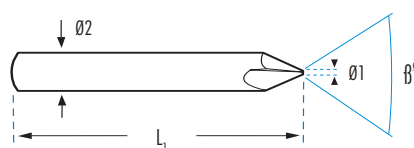


Ref. FLLF3



Ref. BM	Ref. JMA	TIPOS DE MÁQUINAS	MATERIAL	Ø1 mm	L1 mm	Ø2 mm	L2 mm	Z	FLL	€
FLLF3Z3 (FLL32)	≈ F3	ALBANY ARIZONA COLUMBIA DAKAR DAKAR EXPRESS DAY T-COL DAYTONA X CODE	HSSCo	1,5	45	6	3	3		44,50
FLLF3 (FLL44)	F3		HSSCo	1,5	45	6	3	2		41,65
FLLF3W (FLL45)	F3W		MD	1,5	45	6	3	2		135,41
FLLF33 (FLL53)	F33		HSSCo	2	45	6	4	3		40,21
FLL11Z3 (FLL33)	≈ F11		HSSCo	2,5	45	6	5	3		40,21
FLLF11 (FLL48)	F11		HSSCo	2,5	45	6	5	2		35,99
FLLF11W (FLL49)	F11W		MD	2,5	45	6	5	2		102,50
FLLF17 (FLL34)	F17		HSSCo	3	45	6	6	3		40,21
FLLF8Z3 (FLL35)	≈ F8		HSSCo	4	45	6	6	3		46,80
FLLF8 (FLL46)	F8		HSSCo	4	45	6	7	2		41,65
FLLF8W (FLL47)	F8W		MD	4	45	6	6	2		127,08
FLLF77 (FLL36)	-		HSSCo	5	45	6	7	3		46,80
FLLF78 (FLL37)	-		HSSCo	6	45	6	8	3		46,80
FLLF78W (FLL54)	-		MD	6	45	6	8	3		102,50
FLLF78WZ4 (FLL55)	-		MD	6	45	6	8	4		102,50

FRESAS DE PUNTEAR UNIVERSALES PARA MAQUINAS TIPO JMA Y SILCA



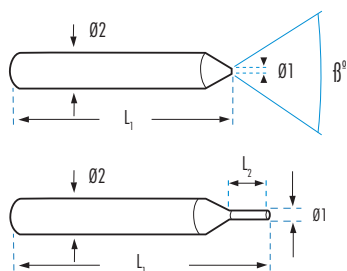
Ref. FLLF1



Ref. BM	Ref. JMA	TIPOS DE MÁQUINAS	MATERIAL	β°	Ø1 mm	L1 mm	Ø2 mm	Z	FLL	€
FLLF82	-	ALBANY	HSSCo	82°	0,9	45	6	2		27,42
FLLF1 (FLL43)	F1	ARIZONA	HSSCo	90°	0,8	45	6	2		27,42
FLLF1W (FLL42)	F1W	COLUMBIA	MD	90°	0,8	45	6	2		84,92
FLLF5 (FLL52)	F5	DAKAR	HSSCo	90°	0,9	45	6	2		27,42
FLLF5W (FLL42)	F5W	DAKAR EXPRESS	MD	90°	0,9	45	6	2		84,92
FLLF95	-	DAY T-COL	HSSCo	95°	0,9	45	6	2		27,42
FLLF13 (FLL50)	F13	DAYTONA	HSSCo	100°	0,8	45	6	2		27,42
FLLF13W (FLL51)	F13W	X CODE	MD	100°	0,8	45	6	2		79,45
FLLF105	-		HSSCo	105°	0,9	45	6	2		27,42

PALPADORES PARA MÁQUINAS DUPLICADORAS DE LLAVES TIPO JMA

PALPADORES



Ref. FLLP1



Ref. FLLP3



			REF. FLLP						FLL	
Ref. BM	Ref. JMA	TIPOS DE MÁQUINAS	MATERIAL	 β°	Ø ₁ mm	L ₁ mm	Ø ₂ mm	L ₂ mm	€	
FLLP1	(PLL38)	P1	ALBANY ARIZONA COLUMBIA DAKAR DAKAR EXPRESS DAY T-COL DAYTONA X CODE	HSSV	90º	0,8	45	6	-	22,32
FLLP3	(PLL32)	P3		HSSV	-	1,5	45	6	4	39,48
FLLP5	P5			HSSV	90º	0,9	45	6	-	22,32
FLLP8	(PLL35)	P8		HSSV	-	4	45	6	7	39,48
FLLP11	(PLL33)	P11		HSSV	-	2,5	45	6	4	39,48
FLLP13	(PLL50)	P13		HSSV	100º	0,8	45	6	-	22,32
FLLP17	(PLL34)	P17		HSSV	-	3	45	6	6	39,48
FLLP52	(PLL52)	-		HSSV	90º	0,9	45	6	-	22,32
FLLP77	(PLL36)	-		HSSV	-	5	45	6	7	39,48
FLLP78	(PLL37)	-		HSSV	-	6	45	6	8	39,48

FRESAS KEY LINE

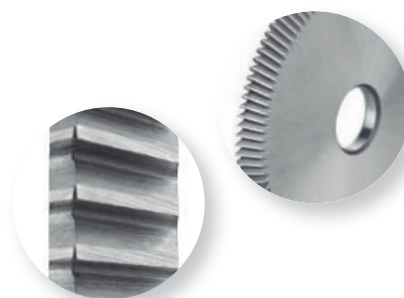
Ref. BM	Ref. JMA	TIPOS DE MÁQUINAS	MATERIAL	 β°	Ø ₁ mm	L ₁ mm	Ø ₂ mm	L ₂ mm	€
V001	-	KEY LINE	MD	90°	0,4	32	4	-	144,98
V003	-		MD	-	2,5	32	4	5	144,98
V004	-		MD	82°	0,5	32	4	-	144,98
V007	-		MD	100°	0,4	32	4	-	144,98
V012	-		MD	-	1,5	32	4	4	178,26

FRESAS PARA MÁQUINAS DUPLICADORAS DE LLAVES TIPO SILCA

FRESAS DE SERRETA O BICÓNICAS



Ref. SLLP01



Ref. BM	Ref. JMA	TIPOS DE MÁQUINAS	MATERIAL					Z		SLL €
SLL01F	01F	FUTURA PRO	MD	60,4	9,52	3,05	40	110	0	160,12
SLLU01	U01	UNOCODE/ULTRACODE	HSSV	60,4	9,52	5,25	80	72	0,5	128,62
SLLU01W	U01W	UNOCODE/ULTRACODE	MD	60,4	9,52	5,25	80	72	0,5	410,92
SLLP21	P21	SILCA DELTA	HSSV	60,4	9,52	5,25	84	72	0,5	116,01
SLLP01	P01	BRAVO/POKER/REKORD BRAVO SUPER/SUPER MASTER	HSSV	80	16	5	84	110	1	103,50
SLLP01/120	P01/120		HSSV	80	16	5	84	120	1	105,47
SLLP01W	P01W		MD	80	16	5	84	110	1	339,09

SIERRAS CIRCULARES DE CORTE LATERAL



Ref. SLLSG2



Ref. BM	Ref. JMA	TIPOS DE MÁQUINAS	MATERIAL				Z	SLL €
SLLY2KW	Y2KW	DELTA	MD	63	16	1,35	80	310,73
SLLSG19	SG19	DELTA	HSSV	64,6	9,52	1,5	40	87,81
SLLSG19W	SG19W	DELTA	MD	64,6	9,52	1,5	40	295,76
SLLSG18	SG18	DELTA	HSSV	64,6	9,52	2,4	40	87,81
SLLSG18W	SG18W	DELTA	MD	64,6	9,52	2,4	40	295,76
SLLSG6	SG6	LANCER	HSSV	80	22	1,3	100	90,24
SLLSG6W	SG6W	LANCER	MD	80	22	1,3	100	310,73
SLLSG2	SG2	TARGA/TECH3/TECHNICA	HSSV	80	22	1,5	100	90,24
SLLSG2W	SG2W	TARGA/TECH3/TECHNICA	MD	80	22	1,5	100	310,73
SLLFSL4-CAW	FSL4-CAW	DELTA	MD	80	22	1,8	100	323,01

FRESAS PARA MÁQUINAS DUPLICADORAS DE LLAVES TIPO SILCA

SIERRAS PARA LLAVES DE GORJAS



Ref. SLLSG7W



Ref. BM	Ref. JMA	TIPOS DE MÁQUINAS	MATERIAL	mm				Z	SLL €
									
SLLSG14W	SG14W	DELTA	MD	60,4	9,52	1,14	80		248,49
SLLGB1	GB1	ULTRACODE / UNOCODE	HSSV	60,4	9,52	1,7	66		91,16
SLL05	05	UNOCODE/ULTRACODE	HSSV	60,4	9,52	1,8	68		91,16
SLL05W	05W	UNOCODE/ULTRACODE	MD	60,4	9,52	1,8	68		260,78
SLLCU-15C	CU-15C	OPERA / TARGA	MD	63	16	1,5	80		339,67
SLLSG17	SG17	DELTA	HSSV	64,6	9,52	1,8	70		91,16
SLLSG17W	SG17W	DELTA	MD	64,6	9,52	1,8	70		286,44
SLLSG13	SG13	UNOCODE / DELTA	HSSV	64,6	9,52	2	70		91,16
SLLSG13W	SG13W	UNOCODE / DELTA	MD	64,6	9,52	2	70		339,67
SLL06	06	UNOCODE/ULTRACODE	HSSV	64,6	9,52	2,4	70		91,16
SLL06W	06W	UNOCODE/ULTRACODE	MD	64,6	9,52	2,4	70		276,96
SLLSG3	SG3	OPERA / TARGA/TECH3	HSSV	80	22	1	100		86,72
SLLSG3W	SG3W	OPERA / TARGA/TECH3	MD	80	22	1	100		286,44
SLLSG4	SG4	OPERA / TARGA/TECH3	HSSV	80	22	1,25	100		86,72
SLLSG4W	SG4W	OPERA / TARGA/TECH3	MD	80	22	1,25	100		286,44
SLLSG5	SG5	LANCER	HSSV	80	22	1,3	100		86,72
SLLSG5W	SG5W	LANCER	MD	80	22	1,3	100		286,44
SLLSG7	SG7	OPERA / TARGA	HSSV	80	22	1,4	100		86,72
SLLSG7M35	SG7M35	OPERA / TARGA	HSSCo	80	22	1,4	100		111,02
SLLSG7W	SG7W	LANCER	MD	80	22	1,4	100		286,44
SLLSG1	SG1	OPERA / TARGA/TECH3	HSSV	80	22	1,5	100		86,72
SLLSG1W	SG1W	OPERA / TARGA/TECH3	MD	80	22	1,5	100		286,44
SLLSG8	SG8	TECH3 / TECNICA	HSSV	80	22	1,75	100		86,72
SLLSG10	SG10	LANCER	HSSV	80	22	2	100		86,72
SLLSG10W	SG10W	LANCER/ OPERA / TARGA	MD	80	22	2	100		298,58
SLLSG11	SG11	SILCA GT40	HSSV	80	22	2,3	100		86,72
SLLSG12	SG12	TARGA/TECH3/TECNICA/OPERA	HSSV	80	22	2,5	100		86,72
SLLSG58400	SG58400	DELTA	MD	80	22	4	100		274,28
SLLPL1	PL1	PRIMA LASER	HSSV	100	22	1	100		149,62
SLLPL1W	PL1W	PRIMA LASER	MD	100	22	1	100		383,91
SLLPL1,25	PL1,25	PRIMA LASER	HSSV	100	22	1,25	100		149,62
SLLPL1,25W	PL1,25W	PRIMA LASER	MD	100	22	1,25	100		366,10
SLLPL1,5	PL1,5	PRIMA LASER	HSSV	100	22	1,5	100		149,62
SLLPL1,5W	PL1,5W	PRIMA LASER	MD	100	22	1,5	100		366,10
SLLPL1,7W	PL1,7W	PRIMA LASER	MD	100	22	1,7	100		377,32
SLLPL2	PL2.0	PRIMA LASER	HSSV	100	22	2	100		149,62
SLLPL2W	PL2.0W	PRIMA LASER	MD	100	22	2	100		377,32

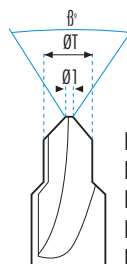
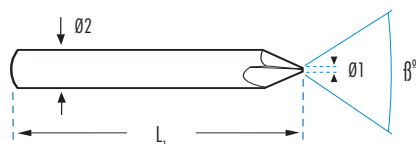
FRESAS PARA MÁQUINAS DUPLICADORAS DE LLAVES TIPO SILCA

FRESAS DE PUNTEAR

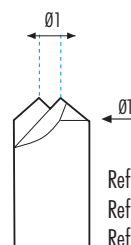
MATRIX



Ref. SLLF1W



Ref. SLLF19-CAZ1
Ref. SLLF19
Ref. SLLF43
Ref. SLLF21
Ref. SLLF25



Ref. SLLF12B
Ref. SLLF15
Ref. SLLF37



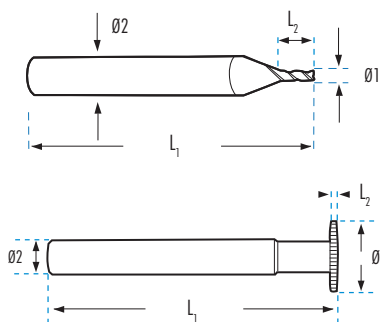
Ref. BM	Ref. SILCA	UNIV.	TIPOS DE MÁQUINAS	MATERIAL	β°	Ø1 mm	L1 mm	Ø2 mm	Z	SLL	
										€	
SLLF1Z1	F1	FLLF1	MATRIX	HSSV	90°	0,7	48	6	1	58,00	
SLLF1	F1	FLLF1	MATRIX	HSSV	90°	0,7	48	6	2	58,00	
SLLF1W	F1W	FLLF1W	MATRIX	MD	90°	0,7	48	6	1	103,69	
SLLF4	F4	FLLF1	MATRIX	HSSV	90°	0,4	48	6	1	58,00	
SLLF5	F5	FLLF5	MATRIX	HSSV	90°	0,9	48	6	1	58,00	
SLLF6	F6	FLLF105	MATRIX	HSSV	106°	1	48	6	1	58,00	
SLLF7	F7	FLLF82	MATRIX	HSSV	72°	0,8	48	6	2	58,02	
SLLF12A	F12A	FLLF13	MATRIX	HSSV	100°	0,4	48	6	1	58,00	
SLLF12B	F12B	FLLF1	MATRIX	HSSV	90°	8 x 1,8*	48	6	2	58,00	
SLLF13	F13	FLLF1	MATRIX	HSSV	90°	0,77	48	6	1	58,00	
SLLF14	F14	FLLF5	MATRIX	HSSV	90°	0,9	48	6	1	58,00	
SLLF15	F15	FLLF1	MATRIX	HSSV	90°	8 x 0,8*	48	6	1	66,47	
SLLF19	F19	FLLF1	MATRIX	HSSCo	90°	2,2 x 0,6*	48	6	1	58,02	
SLLF19-CAZ1	F19-CA	FLLF1W	MATRIX	MD	90°	2,2 x 0,6*	48	6	1	103,69	
SLLF20	F20	FLLF1	MATRIX	HSSV	90°	0,45	48	6	2	58,00	
SLLF21	F21	FLLF82	MATRIX	HSSCo	85°	3,2 x 0,8*	48	6	1	66,47	
SLLF23	F23	FLLF1	MATRIX	HSSV	90°	1,5	48	6	2	66,47	
SLLF24	F24	FLLF13	MATRIX	HSSV	100°	1,3	48	6	1	58,00	
SLLF25	F25	FLLF1	MATRIX	HSSV	90°	3,5 x 0,65*	48	6	1	58,00	
SLLF26	F26	FLLF82	MATRIX	HSSV	82°	0,8	48	6	1	58,00	
SLLF27-CA	F27-CA	-	MATRIX	MD	60°	2,4 x 1,9*	48	6	1	138,52	
SLLF28	F28	-	MATRIX	HSSV	76°	0,76	48	6	1	58,00	
SLLF29	F29	-	MATRIX	HSSV	76°	1,9 x 0,76*	48	6	1	58,00	
SLLF34	F34	-	MATRIX	HSSV	50°	1,5	48	6	1	58,00	
SLLF34-CAZ1	F34-CA	-	MATRIX	MD	50°	1,5	48	6	1	103,69	
SLLF37	F37	FLLF1	MATRIX	HSSV	90°	6 x 2,1*	48	6	2	66,47	
SLLF39	F39	FLLF1	MATRIX	HSSV	90°	0,6	48	6	2	70,45	
SLLF42	F42	FLLF13	MATRIX	HSSV	100°	0,7	48	6	1	58,00	
SLLF43	F43	FLLF1	MATRIX	HSSCo	90°	1	48	6	1	58,00	
SLLF45	F45	-	MATRIX	HSSV	130°	0,56	48	6	1	58,02	
SLLF46	F46	FLLF13	MATRIX	HSSV	100°	0,65	48	6	1	58,02	
SLLF49	F49	FLLF95	MATRIX	HSSV	95°	0,8	48	6	1	66,47	
SLLF50	F50	FLLF13	MATRIX	HSSV	100°	0,5	48	6	1	66,47	
SLLF52-CA	F52-CA	-	MATRIX	MD	54°	0,86	48	6	2	58,00	
SLLF59	F59	FLLF1	MATRIX	HSSV	90°	0,8	48	6	2	58,00	
SLL01D	01D	-	FUTURA PRO	MD	90°	0,4	30	6	2	65,12	
SLL02D	02D	-	FUTURA PRO	MD	100°	0,4	30	6	2	65,12	

* Ø2 x Ø1

FRESAS PARA MÁQUINAS DUPLICADORAS DE LLAVES TIPO SILCA

FRESAS PARA LLAVES DE REGATA

MATRIX



*Ref. SLLF62W



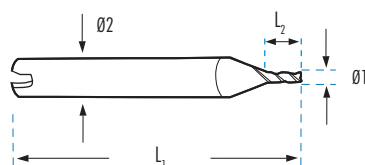
Ref. SLLF3



Ref. BM	Ref. SILCA	TIPOS DE MÁQUINAS	MATERIAL	Ø1 mm	L1 mm	Ø2 mm	L2 mm	Z	SLL	
									€	
SLLF3	F3	MATRIX	HSSV	1,5	48	6	2	3	58,00	
SLLF8	F8	MATRIX	HSSV	4	48	6	13	3	58,00	
SLLF11	F11	MATRIX	HSSV	2,5	48	6	7	3	58,00	
SLLF22	F22	MATRIX	HSSV	2,5	42	6	6	3	58,00	
SLLF30	F30	MATRIX	HSSV	3	48	6	6	3	58,00	
SLLF30Z2	F30	MATRIX	HSSV	3	48	6	6	2	68,17	
SLLF44	F44	MATRIX	HSSV	2	40	6	6	3	58,00	
SLL01L	01L	FUTURA PRO	MD	2,5	30	6	3	3	65,12	
SLL02L	02L	FUTURA PRO	MD	2	30	6	3	3	65,12	

FRESAS PARA LLAVES DE REGATA

QUATTROCODE / TRIAX-E



Ref. SLLW133



Ref. BM	Ref. SILCA	TIPOS DE MÁQUINAS	MATERIAL	Ø1 mm	L1 mm	Ø2 mm	L2 mm	Z	SLL	
									€	
SLLW101	W101	QUATTROCODE / TRIAX-E	MD	2,5	40	6	6	3	132,31	
SLLW114	W114	QUATTROCODE / TRIAX-E	MD	2	40	6	6	3	132,33	
SLLW117	W117	QUATTROCODE / TRIAX-E	MD	5	48	6	R1	4	107,39	
SLLW129	W129	QUATTROCODE / TRIAX-E	MD	3	40	6	6	3	132,31	
SLLW131	W131	QUATTROCODE / TRIAX-E	MD	6	40	6	5	3	97,67	
SLLW133	W133	QUATTROCODE / TRIAX-E	MD	1,5	40	6	3	3	144,50	
SLLW134	W134	QUATTROCODE / TRIAX-E	MD	4	40	6	7	3	132,33	
SLLW219	W219	QUATTROCODE / TRIAX-E	MD	1,2	40	6	2	3	132,31	
SLLW235	W235	QUATTROCODE / TRIAX-E	MD	1,1	40	6	2	3	132,28	
SLLW268	W268	QUATTROCODE / TRIAX-E	MD	1,5	40	6	6	2	132,40	

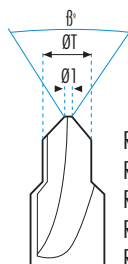
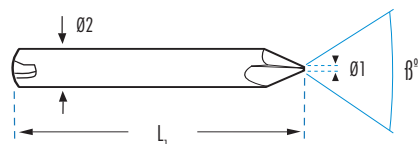
FRESAS PARA MÁQUINAS DUPLICADORAS DE LLAVES TIPO SILCA

FRESAS DE PUNTEAR

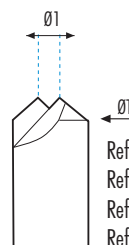
QUATTROCODE / TRIAX-E



Ref. SLLW103



Ref. SLLW115
Ref. SLLW128
Ref. SLLW135
Ref. SLLW145
Ref. SLLW210



Ref. SLLW111
Ref. SLLW126
Ref. SLLW127
Ref. SLLW139



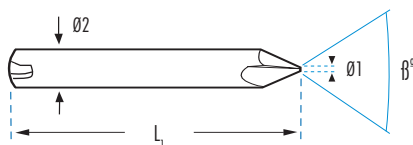
Ref. BM	Ref. SILCA	TIPOS DE MÁQUINAS	MATERIAL	β°	Ø1 mm	L1 mm	Ø2 mm	Z	SLL
									€
SLLW102	W102	QUATTROCODE / TRIAX-E	MD	106°	1	40	6	2	92,86
SLLW103	W103/W299	QUATTROCODE / TRIAX-E	MD	90°	0,8	40	6	2	92,86
SLLW104	W104	QUATTROCODE / TRIAX-E	MD	90°	1,2	40	6	2	92,86
SLLW105	W105	QUATTROCODE / TRIAX-E	MD	90°	0,7	40	6	2	92,86
SLLW106	W106	QUATTROCODE / TRIAX-E	MD	90°	0,6	40	6	2	92,86
SLLW107	W107	QUATTROCODE / TRIAX-E	MD	90°	0,9	40	6	2	92,86
SLLW108	W108	QUATTROCODE / TRIAX-E	MD	82°	0,9	40	6	2	92,86
SLLW109	W109	QUATTROCODE / TRIAX-E	MD	110°	0,4	40	6	2	92,86
SLLW110	W110	QUATTROCODE / TRIAX-E	MD	100°	0,6	40	6	2	92,86
SLLW111	W111	QUATTROCODE / TRIAX-E	MD	96°	8x2,75*	40	6	2	104,32
SLLW112	W112	QUATTROCODE / TRIAX-E	MD	60°/0°	1,5	40	6	2	93,46
SLLW113	W113	QUATTROCODE / TRIAX-E	MD	100°	0,76	40	6	2	92,86
SLLW115	W115	QUATTROCODE / TRIAX-E	MD	54°	4x0,86*	40	6	1	124,49
SLLW116	W116	QUATTROCODE / TRIAX-E	MD	90°	1	40	6	2	92,86
SLLW118	W118	QUATTROCODE / TRIAX-E	MD	120°	0,6	40	6	2	92,86
SLLW119	W119	QUATTROCODE / TRIAX-E	MD	85°	0,3	40	6	2	92,86
SLLW121	W121	QUATTROCODE / TRIAX-E	MD	86°	0,05	48	6	3	129,21
SLLW122	W122	QUATTROCODE / TRIAX-E	MD	90°	0,55	40	6	2	111,44
SLLW123	W123	QUATTROCODE / TRIAX-E	MD	76°	0,9	40	6	2	92,86
SLLW124	W124	QUATTROCODE / TRIAX-E	MD	90°	8x0,8*	48	6	3	178,01
SLLW126	W126	QUATTROCODE / TRIAX-E	MD	80°	3,3	48	6	2	111,44
SLLW127	W127	QUATTROCODE / TRIAX-E	MD	80°	2,1	48	6	2	111,44
SLLW128	W128	QUATTROCODE / TRIAX-E	MD	90°	4x0,55*	48	6	1	124,49
SLLW130	W130	QUATTROCODE / TRIAX-E	MD	90°	1,4	40	6	2	125,01
SLLW132	W132	QUATTROCODE / TRIAX-E	MD	60°	2	40	6	1	124,49
SLLW135	W135	QUATTROCODE / TRIAX-E	MD	90°	4x0,55*	40	6	2	124,42
SLLW136	W136	QUATTROCODE / TRIAX-E	MD	76°	2,23	40	6	1	124,49
SLLW138	W138	QUATTROCODE / TRIAX-E	MD	90°	4x0,7*	48	6	2	92,86
SLLW139	W139	QUATTROCODE / TRIAX-E	MD	60°/50°	0,9	40	6	2	138,52
SLLW142	W142	QUATTROCODE / TRIAX-E	MD	100°	1,2	40	6	2	92,86
SLLW145	W145	QUATTROCODE / TRIAX-E	MD	90°	3,2x0,8*	48	6	2	124,42
SLLW210	W210	QUATTROCODE / TRIAX-E	MD	90°	5x1,05*	40	6	3	186,33
SLLW213	W213	QUATTROCODE / TRIAX-E	MD	90°	0,95*	40	6	2	140,21
SLLW221	W221	QUATTROCODE / TRIAX-E	MD	90°	0,5	40	6	2	125,01
SLLW225	W225	QUATTROCODE / TRIAX-E	MD	90°	1	40	6	2	125,01
SLLW238	W238	QUATTROCODE / TRIAX-E	MD	90°	0,8	40	6	2	92,86
SLLW261	W261	QUATTROCODE / TRIAX-E	MD	1,1	3x1,5*	48	6	2	140,21
SLLW255	W255	QUATTROCODE / TRIAX-E	MD	90°	4x0,8*	48	6	2	125,01
SLLW293	W293	QUATTROCODE / TRIAX-E	MD	90°	0,85	40	6	2	125,01
SLLW299	W299	QUATTROCODE / TRIAX-E	MD	90°	3x0,80	40	6	2	100,72

* Ø1 x Ø1

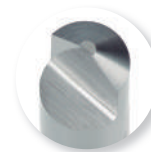
FRESAS PARA MÁQUINAS DUPLICADORAS DE LLAVES TIPO SILCA

FRESAS DE PUNTEAR

QUATTROCODE / TRIAX-E

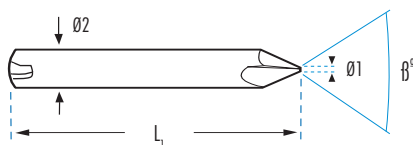


Ref. SLLW103Z1



SLL									
Ref. BM	Ref. SILCA	TIPOS DE MÁQUINAS	MATERIAL	 β°	Ø ₁ mm	L ₁ mm	Ø ₂ mm	Z	€
SLLW102Z1	W102 Z1	QUATTROCODE /TRIAX-E	MD	106°	1	40	6	2	93,46
SLLW103Z1	W103 Z1	QUATTROCODE /TRIAX-E	MD	90°	0,8	40	6	2	93,46
SLLW104Z1	W104 Z1	QUATTROCODE /TRIAX-E	MD	90°	1,2	40	6	2	93,46
SLLW105Z1	W105 Z1	QUATTROCODE /TRIAX-E	MD	90°	0,7	40	6	2	93,46
SLLW106Z1	W106 Z1	QUATTROCODE /TRIAX-E	MD	90°	0,6	40	6	2	93,46
SLLW107Z1	W107 Z1	QUATTROCODE /TRIAX-E	MD	90°	0,9	40	6	2	93,46
SLLW108Z1	W108 Z1	QUATTROCODE /TRIAX-E	MD	82°	0,9	40	6	2	93,46
SLLW109Z1	W109 Z1	QUATTROCODE /TRIAX-E	MD	110°	0,4	40	6	2	93,46
SLLW113Z1	W113 Z1	QUATTROCODE /TRIAX-E	MD	100°	0,76	40	6	2	93,46
SLLW116Z1	W116 Z1	QUATTROCODE /TRIAX-E	MD	90°	1	40	6	2	93,46
SLLW118Z1	W118 Z1	QUATTROCODE /TRIAX-E	MD	120°	0,6	40	6	2	93,46
SLLW119Z1	W119 Z1	QUATTROCODE /TRIAX-E	MD	85°	0,3	40	6	2	93,46
SLLW122Z1	W122 Z1	QUATTROCODE /TRIAX-E	MD	90°	0,55	40	6	2	93,46
SLLW123Z1	W123 Z1	QUATTROCODE /TRIAX-E	MD	76°	0,9	40	6	2	93,46
SLLW146Z1	W146 Z1	QUATTROCODE /TRIAX-E	MD	90°	0,25	40	6	1	93,46

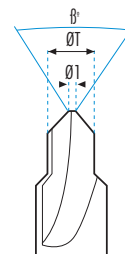
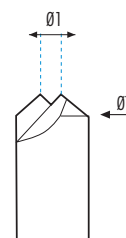
FRESAS DE PUNTEAR



Ref. SLLH103



Ref. SLLH115

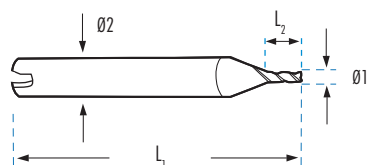
Ref. SLLH111
Ref. SLLH126
Ref. SLLH127

SLL										
Ref. BM	Ref. SILCA	UNIV.	TIPOS DE MÁQUINAS	MATERIAL		Ø ₁ mm	L ₁ mm	Ø ₂ mm	Z	€
SLLH103	H103	FLLF1	QUATTROCODE / TRIAX-E	HSSV	90°	0,8	40	6	2	68,52
SLLH104	H104	FLLF1	QUATTROCODE / TRIAX-E	HSSV	90°	1,2	40	6	2	61,20
SLLH105	H105	FLLF1	QUATTROCODE / TRIAX-E	HSSV	90°	0,7	40	6	2	61,20
SLLH106	H106	FLLF1	QUATTROCODE / TRIAX-E	HSSV	90°	0,6	40	6	2	58,00
SLLH107	H107	FLLF1	QUATTROCODE / TRIAX-E	HSSV	90°	0,9	40	6	2	58,00
SLLH108	H108	FLLF82	QUATTROCODE / TRIAX-E	HSSV	82°	0,9	40	6	2	58,00
SLLH110	H110	FLLF13	QUATTROCODE / TRIAX-E	HSSV	100°	0,6	40	6	2	58,00
SLLH111	H111	FLLF95	QUATTROCODE / TRIAX-E	HSSV	96°	6,4x2,75*	40	6	2	58,00
SLLH112	H112	-	QUATTROCODE / TRIAX-E	HSSV	60°	1,5	40	6	2	58,00
SLLH113	H113	FLLF13	QUATTROCODE / TRIAX-E	HSSV	100°	0,76	40	6	2	58,00
SLLH115	H115	-	QUATTROCODE / TRIAX-E	HSSV	54°	4x0,86*	40	6	1	58,00
SLLH116	H116	FLLF1	QUATTROCODE / TRIAX-E	HSSV	90°	1	40	6	2	76,56
SLLH118	H118	-	QUATTROCODE / TRIAX-E	HSSV	120°	0,6	40	6	1	58,00
SLLH119	H119	FLLF82	QUATTROCODE / TRIAX-E	HSSV	85°	0,3	40	6	2	58,00
SLLH122	H122	FLLF1	QUATTROCODE / TRIAX-E	HSSV	90°	0,55	40	6	2	58,00
SLLH126	H126	FLLF85	QUATTROCODE / TRIAX-E	HSSV	80°	3,3*	48	6	2	86,57
SLLH127	H127	FLLF85	QUATTROCODE / TRIAX-E	HSSV	80°	2,1*	48	6	2	86,57
SLLH128	H128	FLLF1	QUATTROCODE / TRIAX-E	HSSV	90°	0,75	48	6	2	58,00

* Ø₁ x Ø₂

FRESAS PARA MÁQUINAS DUPLICADORAS DE LLAVES TIPO SILCA

FRESAS PARA LLAVES DE REGATA

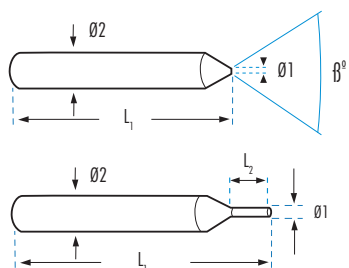


Ref. SLLH101



Ref. BM	Ref. SILCA	TIPOS DE MÁQUINAS	MATERIAL	Ø1 mm	L1 mm	Ø2 mm	L2 mm	Z	SLL	
									€	
SLLH101	H101	QUATTROCODE / TRIAX-E	HSSV	2,5	40	6	6	3	68,13	
SLLH114	H114	QUATTROCODE / TRIAX-E	HSSV	2	40	6	6	3	58,00	
SLLH117	H117	QUATTROCODE / TRIAX-E	HSSV	5	48	6	R1	4	70,37	
SLLH129	H129	QUATTROCODE / TRIAX-E	HSSV	3	40	6	6	3	58,00	
SLLH131	H131	QUATTROCODE / TRIAX-E	HSSV	6	40	6	5	3	76,56	

PALPADORES



Ref. SLLT1



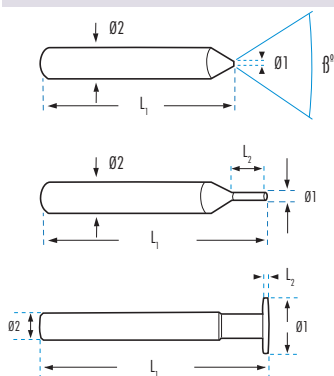
Ref. SLLT3



Ref. BM	Ref. SILCA	TIPOS DE MÁQUINAS	Ref. FRESA	MATERIAL	β°	Ø1 mm	L1 mm	Ø2 mm	L2 mm	ØT mm	SLL	
											€	
SLLT1	T1	MATRIX	F1	HSSV	90°	0,7	48	6	-	-	40,50	
SLLT2	T2	MATRIX	F2	HSSV	88°	1,6	48	6	-	-	45,61	
SLLT3	T3	MATRIX	F3	HSSV	-	1,5	48	6	3	-	45,61	
SLLT4	T4	MATRIX	F4	HSSV	90°	0,4	48	6	-	-	45,61	
SLLT5	T5	MATRIX	F5	HSSV	90°	0,9	48	6	-	-	45,61	
SLLT6	T6	MATRIX	F6	HSSV	106°	1	48	6	15	-	45,61	
SLLT7	T7	MATRIX	F7	HSSV	72°	0,8	48	6	2	-	45,61	
SLLT8	T8	MATRIX	F8	HSSV	-	4	48	6	12	-	45,61	
SLLT11	T11	MATRIX	F11	HSSV	-	2,5	48	6	6	-	45,61	
SLLT12A	T12A	MATRIX	F12A	HSSV	100°	0,4	48	6	-	-	45,61	
SLLT12B	T12B	MATRIX	F12B	HSSV	90°	2,8	48	6	-	-	45,61	
SLLT13	T13	MATRIX	F13	HSSV	90°	0,77	48	6	-	-	45,61	
SLLT14	T14	MATRIX	F14	HSSV	90°	0,9	48	6	-	-	45,61	
SLLT15	T15	MATRIX	F15	HSSV	90°	0,8	48	6	-	-	45,61	
SLLT19	T19	MATRIX	F19	HSSV	90°	2,2 x 0,6*	48	6	-	-	45,61	
SLLT20	T20	MATRIX	F20	HSSV	90°	0,45	48	6	-	-	45,61	
SLLT21	T21	MATRIX	F21	HSSV	85°	3,2 x 0,8*	48	6	-	-	45,61	
SLLT22	T22	MATRIX	F22	HSSV	-	2,5	42	6	6	-	45,61	
SLLT23	T23	MATRIX	F23	HSSV	90°	1,5	48	6	5	-	45,61	

FRESAS PARA MÁQUINAS DUPLICADORAS DE LLAVES TIPO SILCA

PALPADORES



Ref. SLLT1



Ref. SLLT3



*Ref. SLLT62W

SLL											
Ref. BM	Ref. SILCA	TIPOS DE MÁQUINAS	Ref. FRESA	MATERIAL		Ø ₁ mm	L ₁ mm	Ø ₂ mm	L ₂ mm	Ø _T mm	€
SLLT24	T24	MATRIX	F24	HSSV	100°	1,3	48	6	-	-	45,61
SLLT25	T25	MATRIX	F25	HSSV	90°	3,5 x 0,65*	48	6	-	-	45,61
SLLT26	T26	MATRIX	F26	HSSV	82°	0,8	48	6	-	-	45,61
SLLT27	T27	MATRIX	F27	HSSV	60°	1,28	48	6	-	-	51,49
SLLT28	T28	MATRIX	F28	HSSV	76°	0,76	48	6	-	-	45,61
SLLT29	T29	MATRIX	F29	HSSV	76°	1,9	48	6	-	-	45,61
SLLT30	T30	MATRIX	F30	HSSV	-	3	48	6	10	-	45,61
SLLT30-45	T30-45	MATRIX		HSSV	-	3	45	6	10	-	45,61
SLLT33	T33	MATRIX	F33	HSSV	48°	1,4	48	6	-	-	68,01
SLLT34	T34	MATRIX	F34	HSSV	50°	1,5	48	6	-	-	45,61
SLLT37	T37	MATRIX	F37	HSSV	90º	2,1	48	6	-	-	45,61
SLLT39	T39	MATRIX	F39	HSSV	90°	0,6	48	6	-	-	45,61
SLLT40	T40	MATRIX	F40	HSSV	108°	0,4	48	6	-	-	45,61
SLLT42	T42	MATRIX	F42	HSSV	100°	0,7	48	6	-	-	45,61
SLLT43	T43	MATRIX	F43	HSSV	90°	1	48	6	-	-	45,61
SLLT44	T44	MATRIX	F44	HSSV	-	2	48	6	8	-	45,61
SLLT44-45	T44-45	MATRIX		HSSV	-	2	45	6	8	-	45,61
SLLT46	T46	MATRIX	F46	HSSV	100º	0,65	48	6	-	-	45,61
SLLT49	T49	MATRIX	F49	HSSV	95º	0,8	48	6	-	-	45,61
SLLT50	T50	MATRIX	F50	HSSV	100º	0,5	48	6	-	-	45,61
SLLT52	T52	MATRIX	F52	HSSV	54°	0,86	48	6	6	2	45,61
SLLT54	T54	MATRIX	F54	HSSV	-	4	40	6	6,5	-	58,00
SLLT55	T55	MATRIX	F55	HSSV	100º	1	48	6	4	-	45,61
SLLT59	T59	MATRIX	F59	HSSV	90º	0,8	48	6	-	-	45,61
SLLT62W*	T62W	MATRIX	F62W	MD	-	11,8	48	6	1	-	91,07
SLLT63	T63	MATRIX	F63	HSSV	78°	0,5	48	6	4	3	45,61
SLLT65	T65	MATRIX	F65	HSSV	90°	1,05	48	6	5	3	45,61
SLLT101	T101	MATRIX		HSSV	-	2,5	40	6	6	-	45,61
SLLT129	T129	MATRIX		HSSV	-	3	40	6	10	-	45,61
SLLU101	U101	QUATTROCODE		MD	-	1,2	48	6	3	-	58,00
SLLU101/H	U101/H	QUATTROCODE /TRIAX-E		MD	-	1,2	48	6	3	-	39,41
SLLU102/65	U102/65	QUATTROCODE /TRIAX-E		MD	30°	0,2	48	6	9	2,6	61,95
SLLU102TT	U102TT	QUATTROCODE /TRIAX-E		MD	30°	0,2	26	4	6	2	61,95
SLLU103	U103	QUATTROCODE /TRIAX-E		MD	-	1	48	6	3	-	58,00
SLLU103/H	U103/H	QUATTROCODE /TRIAX-E		MD	-	1	48	6	3	-	39,41
SLLU103-TT	U103-TT	QUATTROCODE /TRIAX-E		MD	-	1	21	4	3	-	58,00
SLLU103-TT/H	U103-TT/H	QUATTROCODE /TRIAX-E		MD	-	1	21	4	3	-	39,41
SLLU111	U111	SILCA VIPER		MD	-	1	40	6	2,2	-	58,00
SLLU111/H	U111/H	SILCA VIPER		MD	-	1	40	6	2,2	-	39,41
SLLB3304	B3304	KEYLINE BIANCHI 994 LASER		MD	-	1	33	6	6	-	58,02
SLLB3310	B3310	KEYLINE BIANCHI 994 LASER		MD	-	1	30	6	2,6	-	58,02
SLLB3310M2	B3310	KEYLINE BIANCHI 994 LASER		HSSV	-	1	30	6	2,6	-	42,98