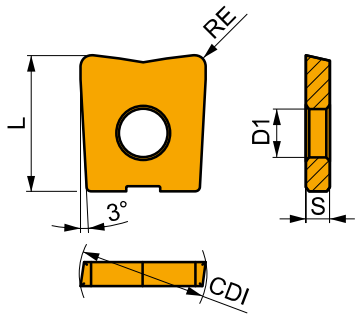
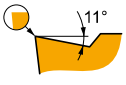
LC

PRAMET

	CDI (mm)	D1 (mm)	L (mm)	S (mm)
08	8.0	3.00	9.50	2.00
10	10.0	4.00	11.50	2.50
12	12.0	5.00	14.00	2.50
16	16.0	5.00	16.00	3.00
20	20.0	5.00	18.00	3.00



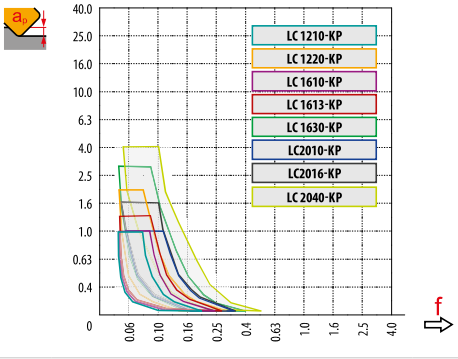
Valores de inicio adecuados para la velocidad de corte (vc), avance (f) y profundidad de corte (ap). Consulte nuestra APP Calculadora de mecanizado para obtener más cálculos.

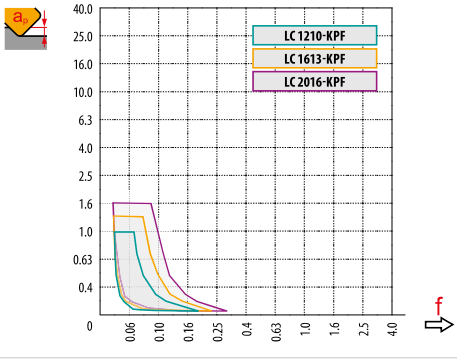
Producto		RE (mm)	P vc (m/min)	P f (mm/tooth)	P ap (mm)	M vc (m/min)	M f (mm/tooth)	M ap (mm)	K vc (m/min)	K f (mm/tooth)	K ap (mm)	N vc (m/min)	N f (mm/tooth)	N ap (mm)	S vc (m/min)	S f (mm/tooth)	S ap (mm)	H vc (m/min)	H f (mm/tooth)	H ap (mm)
			U E																	
Geometría KP con ángulo de desprendimiento de 0° para mecanizado ligero a medio.																				
LC 0806-KP	**M4310**	0.6	◪ 280	0.16	0.3	–	–	–	■ 265	0.16	0.3	–	–	–	–	–	–	■ 55	0.15	1.0
	M8310	0.6	■ 325	0.16	0.3	–	–	–	■ 305	0.16	0.3	–	–	–	–	–	–	■ 65	0.15	1.0
	M8330	0.6	■ 295	0.16	0.3	–	–	–	■ 280	0.16	0.3	–	–	–	–	–	–	◪ 55	0.15	1.0
LC 0810-KP	**M4310**	1.0	◪ 280	0.16	0.5	–	–	–	■ 265	0.16	0.5	–	–	–	–	–	–	■ 55	0.15	1.0
	M8310	1.0	■ 325	0.16	0.5	–	–	–	■ 305	0.16	0.5	–	–	–	–	–	–	■ 65	0.15	1.0
LC 1008-KP	**M4310**	0.8	◪ 270	0.16	0.4	–	–	–	■ 255	0.16	0.4	–	–	–	–	–	–	■ 50	0.15	1.0
	M8310	0.8	■ 315	0.16	0.4	–	–	–	■ 295	0.16	0.4	–	–	–	–	–	–	■ 60	0.15	1.0
	M8330	0.8	■ 290	0.16	0.4	–	–	–	■ 275	0.16	0.4	–	–	–	–	–	–	◪ 55	0.15	1.0
LC 1010-KP	**M4310**	1.0	◪ 280	0.16	0.5	–	–	–	■ 265	0.16	0.5	–	–	–	–	–	–	■ 55	0.15	1.0
	M8310	1.0	■ 325	0.16	0.5	–	–	–	■ 305	0.16	0.5	–	–	–	–	–	–	■ 65	0.15	1.0
	M8330	1.0	■ 295	0.16	0.5	–	–	–	■ 280	0.16	0.5	–	–	–	–	–	–	◪ 55	0.15	1.0
LC 1210-KP	**M4310**	1.0	◪ 280	0.16	0.5	–	–	–	■ 265	0.16	0.5	–	–	–	–	–	–	■ 55	0.15	1.0
	M8310	1.0	■ 325	0.16	0.5	–	–	–	■ 305	0.16	0.5	–	–	–	–	–	–	■ 65	0.15	1.0
	M8330	1.0	■ 295	0.16	0.5	–	–	–	■ 280	0.16	0.5	–	–	–	–	–	–	◪ 55	0.15	1.0
LC 1220-KP	**M4310**	2.0	◪ 285	0.16	1.0	–	–	–	■ 270	0.16	1.0	–	–	–	–	–	–	■ 55	0.15	1.0
LC 1610-KP	**M4310**	1.0	◪ 280	0.16	0.5	–	–	–	■ 265	0.16	0.5	–	–	–	–	–	–	■ 55	0.15	1.0
	M8310	1.0	■ 325	0.16	0.5	–	–	–	■ 305	0.16	0.5	–	–	–	–	–	–	■ 65	0.15	1.0
	M8330	1.0	■ 295	0.16	0.5	–	–	–	■ 280	0.16	0.5	–	–	–	–	–	–	◪ 55	0.15	1.0
LC 1613-KP	**M4310**	1.3	◪ 270	0.16	0.7	–	–	–	■ 255	0.16	0.7	–	–	–	–	–	–	■ 50	0.15	1.0
	M8310	1.3	■ 315	0.16	0.7	–	–	–	■ 295	0.16	0.7	–	–	–	–	–	–	■ 60	0.15	1.0
LC 1630-KP	**M4310**	3.0	◪ 270	0.16	1.5	–	–	–	■ 255	0.16	1.5	–	–	–	–	–	–	■ 50	0.15	1.0
LC 2010-KP	**M4310**	1.0	◪ 280	0.16	0.5	–	–	–	■ 265	0.16	0.5	–	–	–	–	–	–	■ 55	0.15	1.0
	M8310	1.0	■ 325	0.16	0.5	–	–	–	■ 305	0.16	0.5	–	–	–	–	–	–	■ 65	0.15	1.0
	M8330	1.0	■ 295	0.16	0.5	–	–	–	■ 280	0.16	0.5	–	–	–	–	–	–	◪ 55	0.15	1.0
LC 2016-KP	**M4310**	1.6	◪ 280	0.16	0.8	–	–	–	■ 265	0.16	0.8	–	–	–	–	–	–	■ 55	0.15	1.0
	M8310	1.6	■ 325	0.16	0.8	–	–	–	■ 305	0.16	0.8	–	–	–	–	–	–	■ 65	0.15	1.0
LC 2040-KP	**M8330**	4.0	■ 285	0.16	2.0	–	–	–	■ 270	0.16	2.0	–	–	–	–	–	–	◪ 55	0.15	1.0
			F																	
Geometría KPF con diseño positivo para mecanizado ligero a medio.																				
LC 0806-KPF	**M4310**	0.6	◪ 280	0.16	0.3	◪ 140	0.14	0.3	■ 265	0.16	0.3	–	–	–	–	–	–	■ 55	0.15	1.0
LC 1008-KPF	**M4310**	0.8	◪ 270	0.16	0.4	◪ 135	0.14	0.4	■ 255	0.16	0.4	–	–	–	–	–	–	■ 50	0.15	1.0
LC 1210-KPF	**M4310**	1.0	◪ 280	0.16	0.5	◪ 140	0.14	0.5	■ 265	0.16	0.5	–	–	–	–	–	–	■ 55	0.15	1.0
	M8330	1.0	■ 295	0.16	0.5	◪ 175	0.14	0.5	■ 280	0.16	0.5	–	–	–	–	–	–	◪ 55	0.15	1.0
LC 1613-KPF	**M4310**	1.3	◪ 270	0.16	0.7	◪ 135	0.14	0.7	■ 255	0.16	0.7	–	–	–	–	–	–	■ 50	0.15	1.0
LC 2016-KPF	**M4310**	1.6	◪ 280	0.16	0.8	◪ 140	0.14	0.8	■ 265	0.16	0.8	–	–	–	–	–	–	■ 55	0.15	1.0

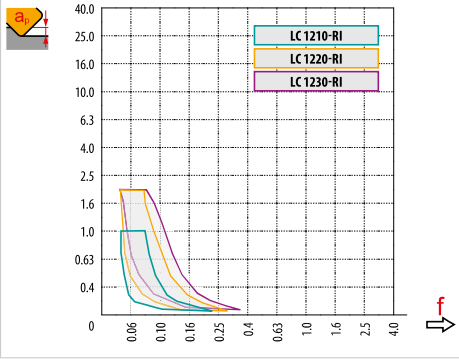
a_e/DC	5 %	10 %	15 %	20 %	25 %	30 %	40 %	50 %	60 %	70 %	75 %	80 %	90 %	100 %
X.V	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
⇨ X.f	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
⇨ X.f	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

	LC 12-KP	LC 12-KP	LC 16-KP	LC 16-KP	LC 16-KP	LC 20-KP	LC 20-KP	LC 20-KP
RE	1.0	2.0	1.0	1.3	3.0	1.0	1.6	4.0
BS	–	–	–	–	–	–	–	–

	LC 12-KPF	LC 16-KPF	LC 20-KP	LC 1215-RI	LC 1220-RI	LC 1230-RI
RE	1.0	1.3	1.6	1.5	2.0	3.0
BS	–	–	–	–	–	–







	DC		a_p													
		RE	0.0	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.25	1.5	2.0	2.5	3.0	4.0
LC 1210-KP	12	1.0	10.0	11.4	11.6	11.7	11.8	11.9	12.0	12.0	12.0	–	–	–	–	–	–
LC 1210-KPF		1.0	10.0	11.4	11.6	11.7	11.8	11.9	12.0	12.0	12.0	–	–	–	–	–	–
LC 1220-KP		2.0	8.0	10.1	10.4	10.6	10.9	11.0	11.2	11.3	11.5	11.7	11.9	12.0	–	–	–
LC 1210-RI		1.0	10.0	11.4	11.6	11.7	11.8	11.9	12.0	12.0	12.0	–	–	–	–	–	–
LC 1220-RI		2.0	8.0	10.1	10.4	10.6	10.9	11.0	11.2	11.3	11.5	11.7	11.9	12.0	–	–	–
LC 1230-RI		3.0	6.0	8.6	9.0	9.3	9.6	9.9	10.1	10.3	10.5	10.9	11.2	11.7	11.9	–	–
LC 1610-KP	16	1.0	14.0	15.4	15.6	15.7	15.8	15.9	16.0	16.0	16.0	–	–	–	–	–	–
LC 1613-KP		1.3	13.4	15.1	15.3	15.4	15.6	15.7	15.8	15.9	15.9	16.0	–	–	–	–	–
LC 1613-KPF		1.3	13.4	15.1	15.3	15.4	15.6	15.7	15.8	15.9	15.9	16.0	–	–	–	–	–
LC 1630-KP		3.0	10.0	12.6	13.0	13.3	13.6	13.9	14.1	14.3	14.5	14.9	15.2	15.7	15.9	–	–
LC 2010-KP	20	1.0	18.0	19.4	19.6	19.7	19.8	19.9	20.0	20.0	20.0	–	–	–	–	–	–
LC 2016-KP		1.6	16.8	18.7	18.9	19.1	19.3	19.4	19.6	19.7	19.8	19.9	20.0	–	–	–	–
LC 2016-KPF		1.6	16.8	18.7	18.9	19.1	19.3	19.4	19.6	19.7	19.8	19.9	20.0	–	–	–	–
LC 2040-KP		4.0	12.0	15.0	15.5	15.9	16.2	16.5	16.8	17.1	17.3	17.8	18.2	18.9	19.4	–	–

DC	µm	3	5	10	15	20	30	40	50	60	80	100
12		0.379	0.490	0.693	0.849	0.980	1.200	1.386	1.549	1.697	1.960	2.191
16		0.438	0.566	0.800	0.980	1.131	1.386	1.600	1.789	1.960	2.263	2.530
20		0.490	0.632	0.894	1.095	1.265	1.549	1.789	2.000	2.191	2.530	2.828
RE	**µm**	**3**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**	**80**	**100**
1.3		0.177	0.228	0.322	0.395	0.456	0.559	0.645	0.721	0.790	0.912	1.020
1.6		0.196	0.253	0.358	0.438	0.506	0.620	0.716	0.800	0.876	1.012	1.131
2.0		0.219	0.283	0.400	0.490	0.566	0.693	0.800	0.894	0.980	1.131	1.265
3.0		0.268	0.346	0.490	0.600	0.693	0.849	0.980	1.095	1.200	1.386	1.549
4.0		0.310	0.400	0.566	0.693	0.800	0.980	1.131	1.265	1.386	1.600	1.789

	DC	RE	max
LC 1210-KP	12	1.0	4.8
LC 1210-KPF		1.0	4.4
LC 1220-KP		2.0	4.8
LC 1210-RI		1.0	–
LC 1220-RI		2.0	–
LC 1230-RI		3.0	–
LC 1610-KP	16	1.0	6.6
LC 1613-KP		1.3	6.6
LC 1613-KPF		1.3	5.9
LC 1630-KP		3.0	6.6
LC 2010-KP	20	1.0	8.5
LC 2016-KP		1.6	8.5
LC 2016-KPF		1.6	7.5
LC 2040-KP		4.0	8.5

	DC	RE	RPMX	APMX/l
LC 1210-KP	12	1.0	4.7	1.5/19
LC 1210-KPF		1.0	3.8	1.5/23
LC 1220-KP		2.0	4.4	2.0/26
LC 1210-RI		1.0	–	–
LC 1220-RI		2.0	–	–
LC 1230-RI		3.0	–	–
LC 1610-KP	16	1.0	4.8	1.5/18
LC 1613-KP		1.3	4.8	1.5/18
LC 1613-KPF		1.3	3.8	1.5/23
LC 1630-KP		3.0	4.4	3.0/39
LC 2010-KP	20	1.0	5.0	1.5/18
LC 2016-KP		1.6	4.9	1.6/19
LC 2016-KPF		1.6	3.8	1.6/25
LC 2040-KP		4.0	4.5	4.0/51

	DC	RE	DMIN	DMAX	SMAX DMIN	SMAX DMAX
LC 1210-KP	12	1.0	14.1	23.9	1.0	1.2
LC 1210-KPF		1.0	15.0	23.9	0.4	0.4
LC 1220-KP		2.0	14.1	23.9	0.3	0.3
LC 1210-RI		1.0	–	–	–	–
LC 1220-RI		2.0	–	–	–	–
LC 1230-RI		3.0	–	–	–	–
LC 1610-KP	16	1.0	18.6	31.9	1.1	1.4
LC 1613-KP		1.3	18.6	31.9	0.6	0.6
LC 1613-KPF		1.3	19.9	31.9	0.5	0.5
LC 1630-KP		3.0	18.6	31.9	0.4	0.4
LC 2010-KP	20	1.0	22.8	39.9	1.3	1.5
LC 2016-KP		1.6	22.8	39.9	0.8	0.8
LC 2016-KPF		1.6	24.8	39.9	0.7	0.7
LC 2040-KP		4.0	22.8	39.9	0.5	0.5

	DC	RE	a_p
LC 1210-KP	12	1.0	0.44
LC 1210-KPF		1.0	0.9
LC 1220-KP		2.0	0.4
LC 1210-RI		1.0	–
LC 1220-RI		2.0	–
LC 1230-RI		3.0	–
LC 1610-KP	16	1.0	0.65
LC 1613-KP		1.3	0.62
LC 1613-KPF		1.3	0.53
LC 1630-KP		3.0	0.44
LC 2010-KP	20	1.0	0.85
LC 2016-KP		1.6	0.79
LC 2016-KPF		1.6	0.67
LC 2040-KP		4.0	0.54

Voladizo (múltiplo del diámetro *DCX*)	< 3.0	3 – 3.5	3.6 – 4.0	4.1 – 4.5	> 4.6
Factor de multiplicación para la velocidad de corte	1.0	0.9	0.8	0.7	0.5