



SLN12



PRAMET

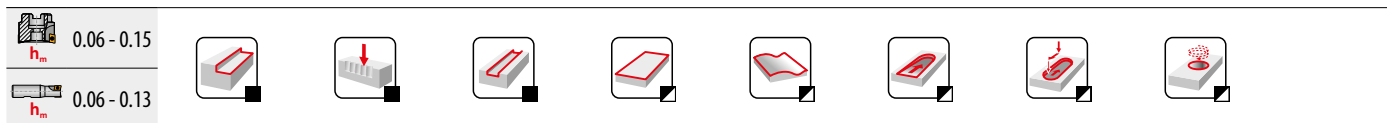
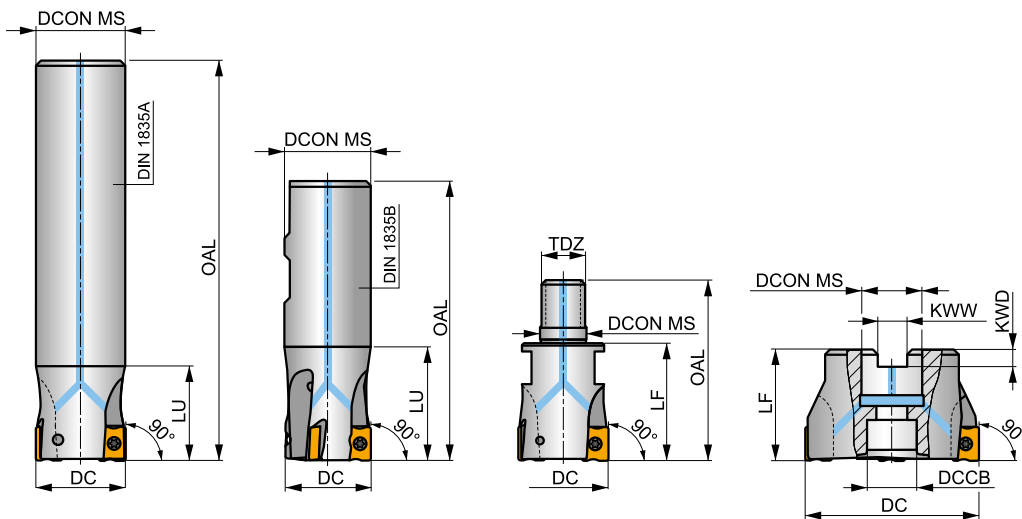
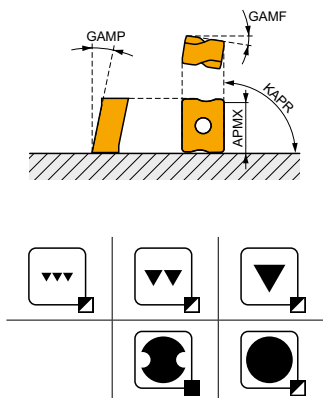


ECON LN12 Square Shoulder Mill with Internal Coolant

90° end and shell mills utilising double sided LN.. 12 inserts with APMX of 9 mm. Suitable for a wide range of applications. Available in cylindrical, Weldon, modular and arbor (with differential tooth pitch) style, in Ø25 up to Ø125 mm. Body treated for longer tool life.

ECON LN

KAPR	90°
APMX	9.0 mm



Product	DC	OAL	DCON MS	DCCB	LU	LF	TDZ	KWW	KWD	GAMF	GAMP	max.	kg	G1205	SQ340	AC001	AC002	AC003	
																			[mm]
25A2R034A25-SLN12-C	25	170	25	-	34	-	-	-	-	-23	-8	2	-	19500	✓	0.58	G1205	SQ340	-
25A2R080A25-SLN12-C	25	170	25	-	80	-	-	-	-	-23	-8	2	-	19500	✓	0.51	G1205	SQ340	-
32A2R034A32-SLN12-C	32	195	32	-	34	-	-	-	-	-15	-6	2	-	17300	✓	1.05	G1205	SQ340	-
32A2R090A32-SLN12-C	32	195	32	-	90	-	-	-	-	-15	-6	2	-	17300	✓	0.98	G1205	SQ340	-
25A2R042B25-SLN12-C	25	99	25	-	42	-	-	-	-	-23	-8	2	-	19500	✓	0.30	G1205	SQ340	-
32A3R042B32-SLN12-C	32	103	32	-	42	-	-	-	-	-15	-6	3	-	17300	✓	0.50	G1205	SQ340	-
40A4R050B32-SLN12-C	40	111	32	-	50	-	-	-	-	-15	-6	4	✓	15500	✓	0.62	G1205	SQ340	-
25A2R033M12-SLN12-C	25	55	12.5	-	-	33	-	-	-	-22	-6	2	-	-	✓	0.12	G1205	SQ340	-
32A2R043M16-SLN12-C	32	66	17	-	-	43	-	-	-	-15	-6	2	-	-	✓	0.22	G1205	SQ340	-
32A3R043M16-SLN12-C	32	66	17	-	-	43	-	-	-	-15	-6	3	-	-	✓	0.23	G1205	SQ340	-
40A3R043M16-SLN12-C	40	66	17	-	-	43	-	-	-	-15	-6	3	-	-	✓	0.30	G1205	SQ340	-
40A04R-S90LN12-C	40	-	16	14	-	40	-	8.4	5.6	-15	-6	4	✓	15500	✓	0.23	G1205	SQ342	-
50A04R-S90LN12-C	50	-	22	18	-	40	-	10.4	6.3	-14.5	-6	4	✓	13800	✓	0.35	G1205	SQ343	-
50A05R-S90LN12-C	50	-	22	18	-	40	-	10.4	6.3	-14.5	-6	5	✓	13800	✓	0.11	G1205	SQ343	-
63A04R-S90LN12-C	63	-	22	18	-	40	-	10.4	6.3	-14	-6	4	✓	12300	✓	0.55	G1205	SQ343	-
63A06R-S90LN12-C	63	-	22	18	-	40	-	10.4	6.3	-14	-6	6	✓	12300	✓	0.50	G1205	SQ343	-
80A05R-S90LN12-C	80	-	27	38	-	50	-	12.4	7	-14	-6	5	✓	10900	✓	1.18	G1205	SQ341	AC001
80A07R-S90LN12-C	80	-	27	38	-	50	-	12.4	7	-14	-6	7	✓	10900	✓	1.02	G1205	SQ341	AC001
100A06R-S90LN12-C	100	-	32	45	-	50	-	14.4	8	-14	-6	6	✓	9800	✓	1.78	G1205	SQ341	AC002
100A08R-S90LN12-C	100	-	32	45	-	50	-	14.4	8	-14	-6	8	✓	9800	✓	2.01	G1205	SQ341	AC002
110A06R-S90LN12-C	110	-	32	45	-	50	-	14.4	8	-14	-6	6	✓	9300	✓	2.09	G1205	SQ341	AC002
125A07R-S90LN12-C	125	-	40	56	-	63	-	16.4	9	-14	-6	7	✓	8700	✓	3.44	G1205	SQ341	AC003
125A09R-S90LN12-C	125	-	40	56	-	63	-	16.4	9	-14	-6	9	✓	8700	✓	3.38	G1205	SQ341	AC003





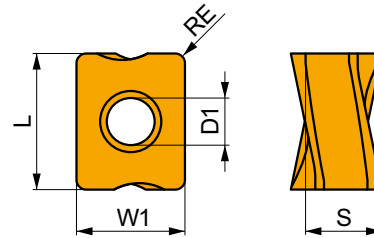
SQ340	US 44012-T15P	3.5	M 4	12	–	–	Flag T15P	–
SQ341	US 44012-T15P	3.5	M 4	12	D-T08P/T15P	FG-15	–	–
SQ342	US 44012-T15P	3.5	M 4	12	D-T08P/T15P	FG-15	–	HS 0830C
SQ343	US 44012-T15P	3.5	M 4	12	D-T08P/T15P	FG-15	–	HS 1030C

AC001	KS 1230	K.FMH27
AC002	KS 1635	K.FMH32
AC003	KS 2040	K.FMH40

LNGX 12

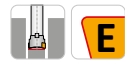
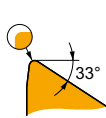


	W1	D1	L	S
	[mm]	[mm]	[mm]	[mm]
1205	9.500	4.50	12.00	5.96



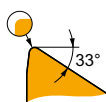
Suitability and starting values for cutting speed (vc), feed (f) and depth of cut (ap). Refer to our Machining Calculator app for further calculations.

Product	RE	P			M			K			N			S			H		
		vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap
	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]



F geometry with highly positive design for light machining.

LNGX 120504ER-F	8215	0.4	200	0.15	1.5	–	–	–	190	0.15	1.5	–	–	–	–	–	–	–	–	–
	M8330	0.4	200	0.15	1.5	–	–	–	190	0.15	1.5	–	–	–	–	–	–	–	–	–
	M8340	0.4	180	0.15	1.5	–	–	–	170	0.15	1.5	–	–	–	–	–	–	–	–	–
LNGX 120508ER-F	8215	0.8	240	0.15	1.5	–	–	–	225	0.15	1.5	–	–	–	–	–	–	–	–	–
	M8310	0.8	260	0.15	1.5	–	–	–	245	0.15	1.5	–	–	–	–	–	–	–	–	–
	M8330	0.8	235	0.15	1.5	–	–	–	220	0.15	1.5	–	–	–	–	–	–	–	–	–
	M8340	0.8	215	0.15	1.5	–	–	–	200	0.15	1.5	–	–	–	–	–	–	–	–	–



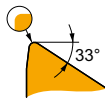
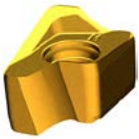
M geometry with positive design for light to medium machining.

LNGX 120504ER-M	M8330	0.4	185	0.15	3.0	–	–	–	175	0.15	3.0	–	–	–	–	–	–	–	–	–
	M8340	0.4	170	0.15	3.0	–	–	–	160	0.15	3.0	–	–	–	–	–	–	–	–	–
LNGX 120508ER-M	8215	0.8	220	0.15	3.0	–	–	–	205	0.15	3.0	–	–	–	–	–	–	–	–	–
	M8310	0.8	240	0.15	3.0	–	–	–	225	0.15	3.0	–	–	–	–	–	–	–	–	–
	M8330	0.8	220	0.15	3.0	–	–	–	205	0.15	3.0	–	–	–	–	–	–	–	–	–
	M8340	0.8	200	0.15	3.0	–	–	–	190	0.15	3.0	–	–	–	–	–	–	–	–	–
	M9315	0.8	300	0.15	3.0	–	–	–	285	0.15	3.0	–	–	–	–	–	–	–	–	–
	M9325	0.8	280	0.15	3.0	–	–	–	265	0.15	3.0	–	–	–	–	–	–	–	–	–
LNGX 120510ER-M	M8330	1.0	230	0.15	3.0	–	–	–	215	0.15	3.0	–	–	–	–	–	–	–	–	–
	M8340	1.0	210	0.15	3.0	–	–	–	195	0.15	3.0	–	–	–	–	–	–	–	–	–



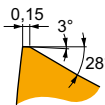
Suitability and starting values for cutting speed (vc), feed (f) and depth of cut (ap). Refer to our Machining Calculator app for further calculations.

Product	RE [mm]	P			M			K			N			S			H		
		vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]	vc [m/min]	f [mm/tooth]	ap [mm]



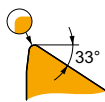
M geometry with positive design for light to medium machining.

LNGX 120512ER-M	M8330	1.2	230	0.15	3.0	—	—	—	215	0.15	3.0	—	—	—	—	—	—	—
	M8340	1.2	210	0.15	3.0	—	—	—	195	0.15	3.0	—	—	—	—	—	—	—
LNGX 120516ER-M	M8330	1.6	240	0.15	3.0	—	—	—	225	0.15	3.0	—	—	—	—	—	—	—
	M8340	1.6	220	0.15	3.0	—	—	—	205	0.15	3.0	—	—	—	—	—	—	—
LNGX 120520ER-M	M8310	2.0	280	0.15	3.0	—	—	—	265	0.15	3.0	—	—	—	—	—	—	—
	M8330	2.0	255	0.15	3.0	—	—	—	240	0.15	3.0	—	—	—	—	—	—	—
	M8340	2.0	230	0.15	3.0	—	—	—	215	0.15	3.0	—	—	—	—	—	—	—



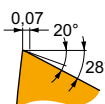
R geometry with positive design for unstable cutting conditions.

LNGX 120508SR-R	8215	0.8	205	0.20	3.5	—	—	—	190	0.20	3.5	—	—	—	—	—	—	—	
	M5315	0.8	265	0.20	3.5	—	—	—	250	0.20	3.5	—	—	—	—	—	—	—	
	M8310	0.8	220	0.20	3.5	—	—	—	205	0.20	3.5	—	—	—	—	—	—	—	
	M8330	0.8	205	0.20	3.5	—	—	—	190	0.20	3.5	—	—	—	—	—	—	—	
	M8340	0.8	185	0.20	3.5	—	—	—	175	0.20	3.5	—	—	—	—	—	—	—	
	M9315	0.8	265	0.20	3.5	—	—	—	250	0.20	3.5	—	—	—	—	—	—	—	—
	M9325	0.8	250	0.20	3.5	—	—	—	235	0.20	3.5	—	—	—	—	—	—	—	—
	M9340	0.8	225	0.20	3.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LNGX 120516SR-R	8215	1.6	225	0.20	3.5	—	—	—	210	0.20	3.5	—	—	—	—	—	—	—	
	M8330	1.6	225	0.20	3.5	—	—	—	210	0.20	3.5	—	—	—	—	—	—	—	
	M8340	1.6	205	0.20	3.5	—	—	—	190	0.20	3.5	—	—	—	—	—	—	—	
	M9325	1.6	275	0.20	3.5	—	—	—	260	0.20	3.5	—	—	—	—	—	—	—	



MF geometry with highly positive design for light machining.

LNGX 120504ER-MF	M6330	0.4	175	0.15	1.0	125	0.14	1.0	—	—	—	—	—	—	—	—	—	—
	M8340	0.4	190	0.15	1.0	110	0.14	1.0	—	—	—	—	—	—	—	—	—	—
	M9340	0.4	240	0.15	1.0	140	0.14	1.0	—	—	—	—	—	—	—	—	—	—
LNGX 120508ER-MF	M6330	0.8	210	0.15	1.0	150	0.14	1.0	—	—	—	—	—	—	—	—	—	—
	M8340	0.8	225	0.15	1.0	135	0.14	1.0	—	—	—	—	—	—	—	—	—	—
	M9340	0.8	285	0.15	1.0	170	0.14	1.0	—	—	—	—	—	—	—	—	—	—



MM geometry with positive design for light to medium machining.

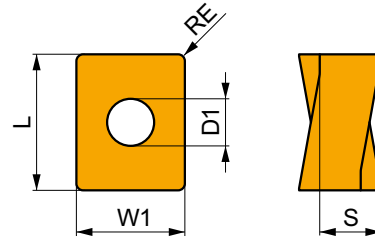
LNGX 120508SR-MM	M6330	0.8	190	0.15	2.8	135	0.14	2.8	—	—	—	—	—	—	—	—	—	—
	M8340	0.8	200	0.15	2.8	120	0.14	2.8	—	—	—	—	—	—	—	—	—	—
	M8345	0.8	160	0.15	2.8	95	0.14	2.8	—	—	—	—	—	—	—	—	—	—
	M9340	0.8	255	0.15	2.8	150	0.14	2.8	—	—	—	—	—	—	—	—	—	—



LNGU 12



	W1	D1	L	S
	[mm]	[mm]	[mm]	[mm]
1205	9.500	4.50	12.00	5.96



Suitability and starting values for cutting speed (vc), feed (f) and depth of cut (ap). Refer to our Machining Calculator app for further calculations.

Product	RE	P			M			K			N			S			H		
		vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap
	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]



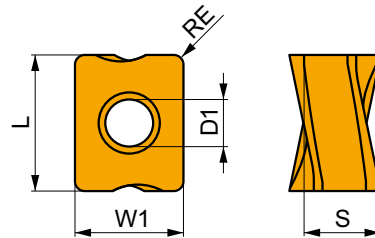
M geometry with positive design for medium machining.

LNGU 120525ER-M	M8330	2.5	255	0.15	3.0	—	—	—	240	0.15	3.0	—	—	—	—	—	—	—	—	—
	M8340	2.5	230	0.15	3.0	—	—	—	215	0.15	3.0	—	—	—	—	—	—	—	—	—
LNGU 120530ER-M	M8330	3.0	255	0.15	3.0	—	—	—	240	0.15	3.0	—	—	—	—	—	—	—	—	—
	M8340	3.0	230	0.15	3.0	—	—	—	215	0.15	3.0	—	—	—	—	—	—	—	—	—

LNGX 12-FA



	W1	D1	L	S
	[mm]	[mm]	[mm]	[mm]
1205	9.500	4.50	12.00	5.96



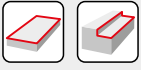
Suitability and starting values for cutting speed (vc), feed (f) and depth of cut (ap). Refer to our Machining Calculator app for further calculations.

Product	RE	P			M			K			N			S			H		
		vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap
	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]



FA geometry with highly positive design for fine-finish to medium machining.

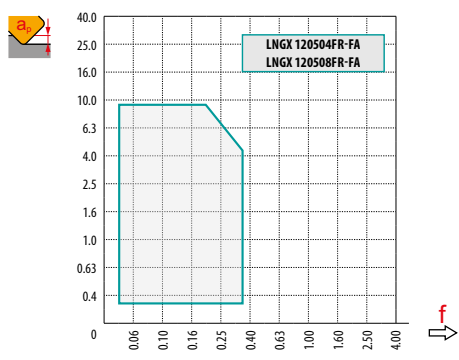
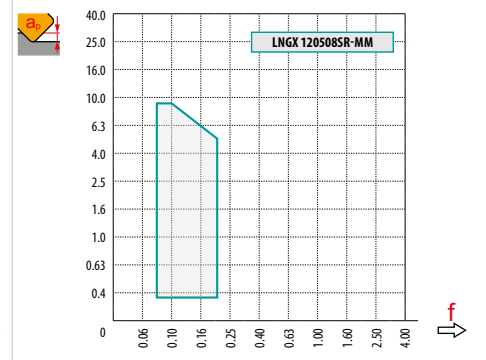
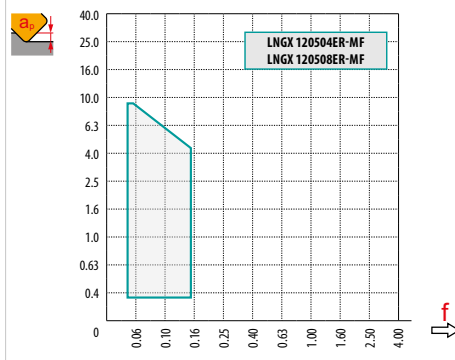
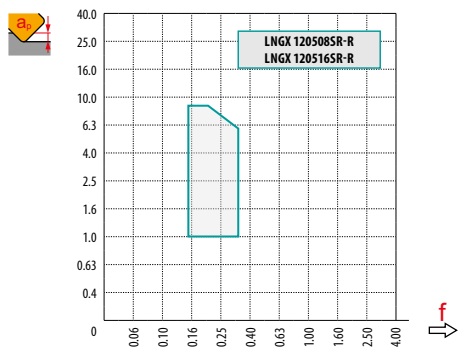
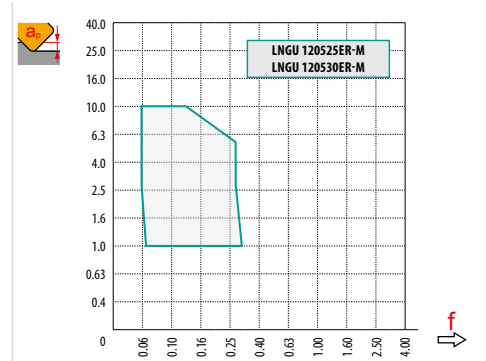
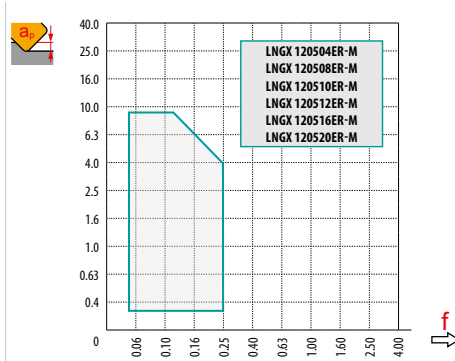
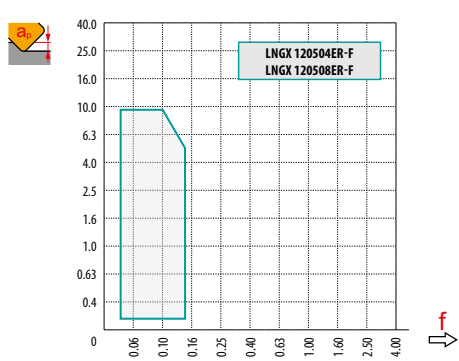
LNGX 120504FR-FA	HF7	0.4	—	—	—	—	—	—	—	—	270	0.30	2.0	—	—	—	—	—	—	—
LNGX 120508FR-FA	HF7	0.8	—	—	—	—	—	—	—	—	315	0.30	2.0	—	—	—	—	—	—	—
	M0315	0.8	—	—	—	—	—	—	—	—	720	0.30	2.0	—	—	—	—	—	—	—

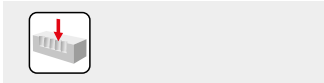


a_s DC	5%	10%	15%	20%	25%	30%	40%	50%	60%	70%	75%	80%	90%	100%
	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

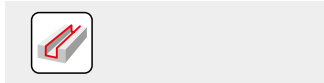
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	0.4	0.8	0.4	0.8	1.0	1.2	1.6	2.0	2.5	3.0
	2.29	1.89	2.29	1.89	1.69	1.49	1.09	0.68	0.87	0.36

	LNGX 12-R		LNGX 12-MF		LNGX 12-MM	LNGX 12-FA	
	0.8	1.6	0.4	0.8	0.8	0.4	0.8
	1.88	1.08	2.28	1.88	1.88	2.30	1.89

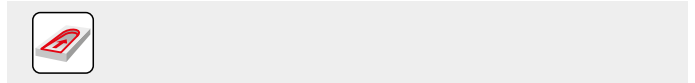




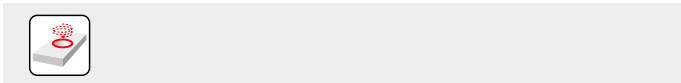
3.5



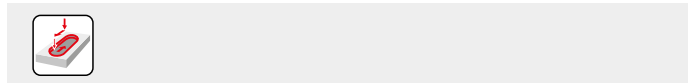
	1.0	5.0	9.0
	0.19	0.13	0.08



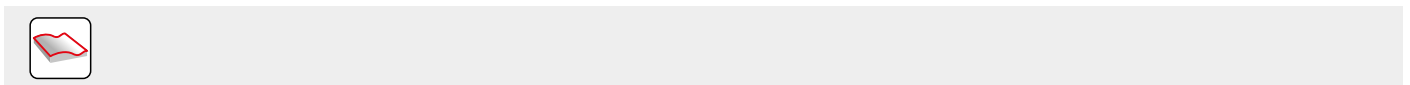
LNGX 12		
25	1.3	2.1/100
32	0.7	1.1/100
40	0.5	0.7/100
50	0.4	0.5/100
63	0.2	0.3/100
80	0.2	0.2/100



LNGX 12				
	DMIN	DMAX		
25	35.0	50.0	0.7	1.7
32	49.0	64.0	0.6	1.2
40	65.0	80.0	0.6	1.0
50	85.0	100.0	0.7	1.0
63	111.0	126.0	0.6	0.8
80	145.0	160.0	0.7	0.8



	0.2
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		3	5	10	15	20	30	40	50	60	80	100
25		0.548	0.707	1.000	1.225	1.414	1.732	2.000	2.236	2.449	2.828	3.162
32		0.620	0.800	1.131	1.386	1.600	1.960	2.263	2.530	2.771	3.200	3.578
40		0.693	0.894	1.265	1.549	1.789	2.191	2.530	2.828	3.098	3.578	4.000
50		0.775	1.000	1.414	1.732	2.000	2.449	2.828	3.162	3.464	4.000	4.472
63		0.869	1.122	1.587	1.944	2.245	2.750	3.175	3.550	3.888	4.490	5.020
80		0.980	1.265	1.789	2.191	2.530	3.098	3.578	4.000	4.382	5.060	5.657

		3	5	10	15	20	30	40	50	60	80	100
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
2.5		0.245	0.316	0.447	0.548	0.632	0.775	0.894	1.000	1.095	1.265	1.414
3.0		0.268	0.346	0.490	0.600	0.693	0.849	0.980	1.095	1.200	1.386	1.549