SPECIALTY END MILLS





GLOBALLY RENOWNED

SPECIALTY END MILLS

AMERICAN

MADE

FOR FINISHING DRAFT ANGLES ON THROUGH HOLES







FOR FINISHING DRAFT ANGLES

ON INTERNAL DIAMETER THROUGH HOLES

FEATURES & BENEFITS

The square end option completes finishing operations, while creating crisp clean corners. Premium high speed steel improves rigidity, hardness and wear resistance in easy to machine materials. Tool life is always an important consideration and adding a coating will ensure the tool lasts longer, but we will let you decide if it's necessary for your specific operation and material. That way you take an active part in your savings and once again our success relies on yours.

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SERIES: LHX

For finish milling of draft angles on internal diameter through holes in most materials; wet or dry; from easy to difficult machinability materials.



TIP & END



SHANK & LENGTH



















MATERIAL







RESULTS

The Conical Left Hand Spiral Tapered end mill demonstrates our ingenuity by making possible the impossible. The tool pushes material through the cutting hole, thus eliminating the natural "screwing" action and the necessity for continuous pecking, while creating a

superior finish. The left hand spiral recreates the shearing action that would normally be present when profiling, allowing the tool to cut rather than grab. Contact us today, to find out what we mean by "innovation to succeed".

<u>Series LHX:</u> High Speed Steel, 3 & 4 Flute; 12° Left Hand Slow Helix, Right Hand Cut

Subseries: LH1XD, LH02D LH03D, LH05D, LH07D

<u>Configuration:</u> Varying Angles; Varying Diameters; Regular & Long Lengths; 12° Left Hand Slow Helix, Right Hand Cut; Cylindrical Land; No End Cut

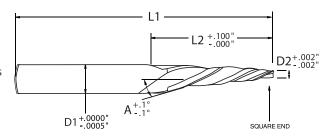
CONICAL TAPERED LEFT HAND SPIRAL

SERIES LHX - HIGH SPEED STEEL, 3 & 4 FLUTE, 12° LEFT HAND SLOW HELIX

QUALITY, VALUE AND DURABILITY

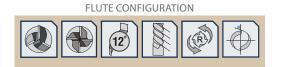
We apply years of experience to create end mills of the highest quality, value and durability. The Conical Left Hand Spiral Tapered end mill is engineered for difficult tapered hole machining.

- Square end option to create sharp corners in finishing operations
- Multi-flute, three and four flute design allows for proper chip evacuation through a variety of materials and creates stability, minimizing harmonics while tapering walls in through-hole operations
- Cvlindrical land for excellent surface finishes



TIP & END



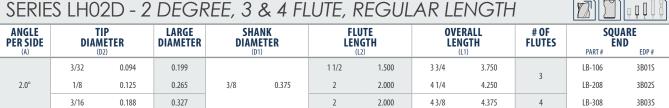






SERIES LH1XD - 1 ½ DEGREE, 3 & 4 FLUTE, REGULAR LENGTH												
ANGLE PER SIDE			LARGE DIAMETER	SHANK DIAMETER		FLUTE LENGTH (L2)		OVERALL LENGTH (L1)		# OF FLUTES	SQU/ EN PART#	
1.5°	1/8	0.125	0.204	3/8	0.375	1 1/2	1.500	3 3/4	3.750	3	LAAX-206	3Z01S
1.5	3/16	0.188	0.292	3/6	0.575	2	2.000	43/8	4.375	4	LAAX-308	3Z02S

SERIES LH02D - 2 DEGREE, 3 & 4 FLUTE, REGULAR LENGTH



SERIES LH03D - 3 DEGREE, 3 & 4 FLUIE, LONG LENGTH													
ANGLE PER SIDE	TIP DIAMETER (D2)		LARGE DIAMETER	SHANK DIAMETER (D1)		FLUTE LENGTH (L2)		OVERALL LENGTH (L1)		# OF FLUTES	SQUARE END PART# EDP#		ND
	2/22	0.094	0.199			1	1.000	3 1/4	3.250			LC-104	3C01S
3/32	3/32	0.094	0.251			1 1/2	1.500	3 3/4	3.750			LC-106	3C02S
3.0°	1/8	0.125	0.230	3/8	0.375	1	1.000	3 1/4	3.250	3		LC-204	3C03S
			0.282			1 1/2	1.500	3 3/4	3.750			LC-206	3C04S
			0.335			2	2.000	4 1/4	4.250			LC-208	3C05S
			0.387	1/2 0.500	0.500	2 1/2	2.500	5	5.000			LC-210	3C06S
			0.439		0.500	3	3.000	5 3/4	5.750			LC-212	3C07S
	2/16	0.188	0.345	3/8	0.375	1 1/2	1.500	3 3/4	3.750			LC-306	3C08S
	3/16		0.607	5/8	0.625	4	4.000	7	7.000		0	LC-316	3C09S
		0.250	0.407		0.500	1 1/2	1.500	4	4.000	4		LC-406	3C10S
	1/4		0.486	1/2	1/2 0.500	2 1/4	2.250	4 3/4	4.750			LC-409	3C11S
			0.669	5/8	0.625	4	4.000	7	7.000		0	LC-416	3C12S

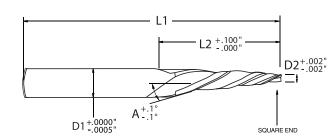
S CONICAL TAPERED LEFT HAND SPIRAL

SERIES LHX - HIGH SPEED STEEL, 3 & 4 FLUTE, 12° LEFT HAND SLOW HELIX

SUPERIOR FINISHES

The tool pushes material through the cutting hole, thus eliminating the natural "screwing" action and the necessity for continuous pecking, while creating a superior finish.

- Variable Core Design maximizes chip evacuation and provides increased rigidity when the cutter is fully engaged
- Uncoated for versatility. More than 16 available coatings can be added to increase tool life for your specific application and material
- Premium high speed steel improves rigidity, hardness and wear resistance for milling of easy to machine materials



TIP & END









SERIES LH05D - 5 DEGREE, VARYING LENGTHS													
ANGLE PER SIDE	TI DIAM	IETER	LARGE DIAMETER	SHANK DIAMETER (D1)		FLUTE LENGTH (L2)		OVERALL LENGTH (L1)		# OF FLUTES		SQUARE END PART# E	
			0.269	3/8	0.275	1	1.000	3 1/4	3 1/4			LE-104	3E01S
	3/32 0.094 0.356	3/8	0.375	1 1/2	1.500	3 3/4	3.750			LE-106	3E02S		
			0.444	1/2	0.500	2	2.000	4 1/4	4.250			LE-108	3E03S
5.0°	1/8		0.300	2/0	0.275	1	1.000	3 1/4	3.250	3		LE-204	3E04S
		0.125	0.387	3/8 0.3	0.375	1 1/2	1.500	3 3/4	3.750			LE-206	3E05S
			0.475	1/2	0.500	2	2.000	4 1/4	4.250			LE-208	3E06S
			0.562		0.500	2 1/2	2.500	5	5.000			LE-210	3E07S
			0.650	5/8	0.625	3	3.000	5 3/4	5.750			LE-212	3E08S
	2/16	0.188	0.450	1/2 0.500		1 1/2	1.500	3 3/4	3.750			LE-306	3E09S
	3/16		0.537		0.500	2	2.000	4 3/8	4.375			LE-308	3E10S
		0.250	0.512	1/2	0.500	1 1/2	1.500	4	4.000	4		LE-406	3E11S
	1/4		0.644	5/8	0.625	2 1/4	2.250	5 1/4	5.250			LE-409	3E12S
			0.950	3/4	0.750	4	4.000	7	7.000		0	LE-416	3E13S

(-)	indicates	center	hole	in tip

SERIE	SERIES LH07D - 7 DEGREE, 3 & 4 FLUTE, LONG LENGTH											
ANGLE PER SIDE	TIP DIAMETER		LARGE DIAMETER	DIA	ANK METER D1)	FLUTE LENGTH (L2)		OVERALL LENGTH (L1)		# OF FLUTES	SQUARE END PART# EDP#	
	3/32	0.094	0.339	3/8	0.375	1	1.000	3 1/4	3.250	2	LG-104	3G01S
7.0°	1/8	0.125	0.493	1/2	0.500	1 1/2	1.500	3 3/4	3.750	3	LG-205	3G02S
	3/16	0.188	0.679	1/2	0.500	2	2.000	4 3/8	4.375	4	LG-308	3G03S