

SOLID CARBIDE END MILLS



LAMINA
TECHNOLOGIES

MAGIA



- 
- Next generation Multi-Mat™ Solid End Mills
 - Increased toughness for extended application range
 - Longer tool life through new and unique coating composition.
 - New and exclusive ultra fine grained coating
 - Exclusive edge preparation and precoating surface treatment
 - Unique substrate
-

SOLID CARBIDE END MILLS

LT 4000 is the new generation of our Multi-Mat™ grade for solid carbide end mills, made with our proprietary and patented Magia Technology.

With a new and unique PVD coating material developed by Lamina, Magia Solid Carbide represents increased toughness for the most extreme applications, higher reliability in lower cutting speeds with emulsion, resulting in an extended application range that makes it easier for machinists all over the world to get the job done.

Tool life is also increased, due to reduced friction between the coating and the chips, and a harder coating composite that resists better to abrasion. We have achieved unprecedented tool life.

Proprietary and unique technology developed by Lamina Technologies in our research and development center in Switzerland.

Lamina's R&D team works ceaselessly to push the boundaries of cutting tool performance.

Lamina develops its own unique technologies and materials in order to preserve toughness and hardness with no compromises.

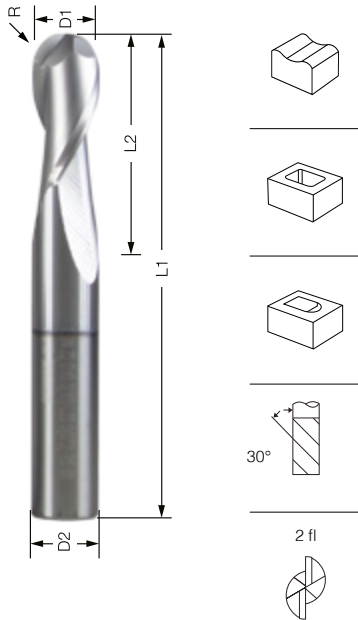
Magia LT 4000 is the latest, state-of-the-art PVD grade using high density plasma to create nanostructured PVD coatings with incredible properties.

MAGIA



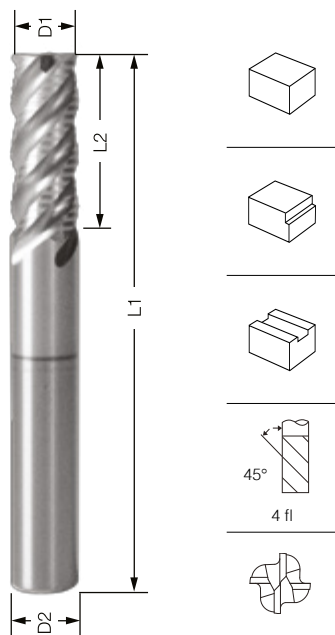
PRODUCT RANGE

Ball Nose, 2 Flute



DESIGNATION	D1	D2	L1	L2	R	CATALOG #
EBN Z2 D01.0(03) L03.0(38) R0.50	1.0	3	38	3	0.50	M5003587
EBN Z2 D01.5(03) L05.0(38) R0.75	1.5	3	38	5	0.75	M5003588
EBN Z2 D02.0(03) L06.0(38) R1.00	2.0	3	38	6	1.00	M5003589
EBN Z2 D02.5(03) L07.0(38) R1.25	2.5	3	38	7	1.25	M5003590
EBN Z2 D03.0(03) L09.0(38) R1.50	3.0	3	38	9	1.50	M5003591
EBN Z2 D04.0(04) L14.0(50) R2.00	4.0	4	50	14	2.00	M5003592
EBN Z2 D05.0(05) L16.0(50) R2.50	5.0	5	50	16	2.50	M5003593
EBN Z2 D06.0(06) L20.0(63) R3.00	6.0	6	63	20	3.00	M5003594
EBN Z2 D08.0(08) L20.0(63) R4.00	8.0	8	63	20	4.00	M5003595
EBN Z2 D10.0(10) L22.0(72) R5.00	10.0	10	72	22	5.00	M5003596
EBN Z2 D12.0(12) L26.0(75) R6.00	12.0	12	75	26	6.00	M5003597

Rougher



3 Flute

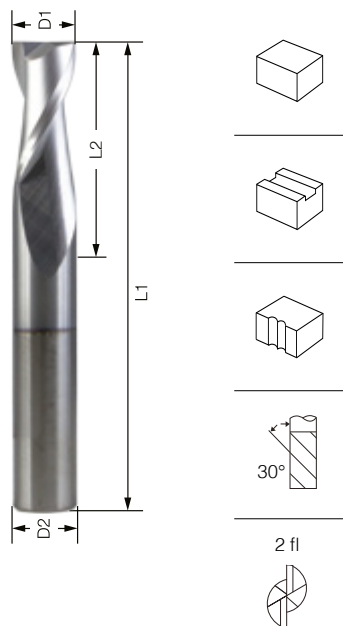
DESIGNATION	D1	D2	L1	L2	CATALOG #
ERO Z3 D04.0(06) L11.0(57)	4.0	6	57	11.0	M5003607

4 Flute

DESIGNATION	D	D1	L1	L2	CATALOG #
ERO Z4 D05.0(06) L13.0(57)	5.0	6	57	13.0	M5003608
ERO Z4 D06.0(06) L13.0(57)	6.0	6	57	13.0	M5003609
ERO Z4 D08.0(08) L19.0(63)	8.0	8	63	19.0	M5003610
ERO Z4 D10.0(10) L22.0(72)	10.0	10	72	22.0	M5003611
ERO Z4 D12.0(12) L26.0(83)	12.0	12	83	26.0	M5003612

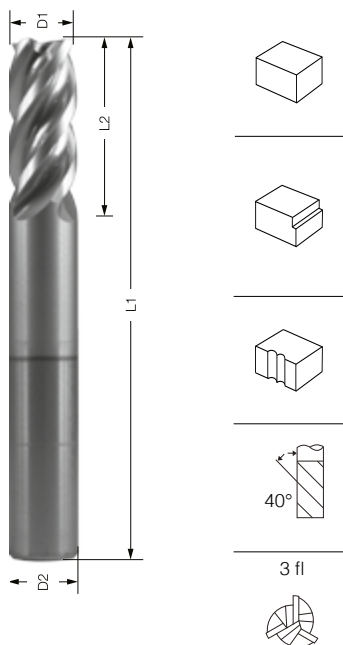


90° 2 Flute



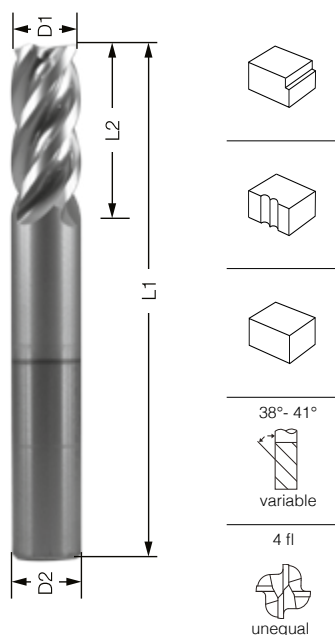
DESIGNATION	D1	D2	L1	L2	CATALOG #
E90 Z2 D01.0(03) L03.0(38)	1.0	3	38	3	M5003520
E90 Z2 D01.5(03) L05.0(38)	1.5	3	38	5	M5003537
E90 Z2 D02.0(03) L06.0(38)	2.0	3	38	6	M5003538
E90 Z2 D02.5(03) L07.0(38)	2.5	3	38	7	M5003539
E90 Z2 D03.0(03) L09.0(38)	3.0	3	38	9	M5003540
E90 Z2 D04.0(04) L14.0(50)	4.0	4	50	14	M5003541
E90 Z2 D05.0(05) L16.0(50)	5.0	5	50	16	M5003542
E90 Z2 D06.0(06) L20.0(63)	6.0	6	63	20	M5003543
E90 Z2 D08.0(08) L20.0(63)	8.0	8	63	20	M5003544
E90 Z2 D10.0(10) L22.0(72)	10.0	10	72	22	M5003545
E90 Z2 D12.0(12) L26.0(75)	12.0	12	75	26	M5003546

90° 3 Flute



DESIGNATION	D1	D2	L1	L2	CATALOG #
E90 Z3 D03.0(06) L08.0(50)	3.0	6	50	8	M5003548
E90 Z3 D04.0(06) L11.0(50)	4.0	6	50	11	M5003549
E90 Z3 D05.0(06) L13.0(50)	5.0	6	50	13	M5003550
E90 Z3 D06.0(06) L16.0(50)	6.0	6	50	16	M5003551
E90 Z3 D08.0(08) L20.0(60)	8.0	8	60	20	M5003552
E90 Z3 D10.0(10) L25.0(72)	10.0	10	72	25	M5003553
E90 Z3 D12.0(12) L30.0(75)	12.0	12	75	30	M5003554

90° 4 Flute

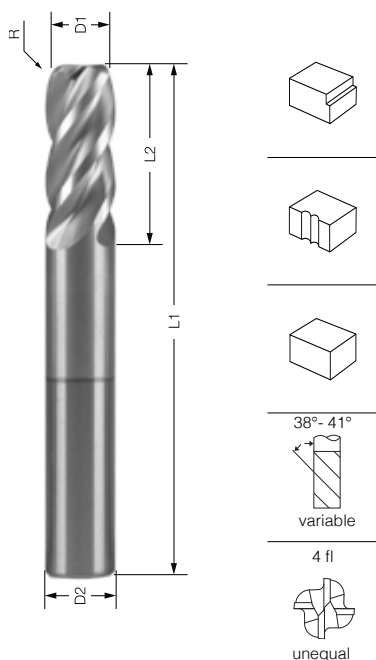


DESIGNATION	D1	D2	L1	L2	CATALOG #
E90 Z4 D01.0(04) L03.0(050)	1.0	4	50	3	M5003568
E90 Z4 D01.5(04) L05.0(050)	1.5	4	50	5	M5003569
E90 Z4 D02.0(04) L06.0(050)	2.0	4	50	6	M5003570
E90 Z4 D02.5(04) L08.0(050)	2.5	4	50	8	M5003571
E90 Z4 D03.0(06) L08.0(050)	3.0	6	50	8	M5003572
E90 Z4 D04.0(06) L11.0(050)	4.0	6	50	11	M5003573
E90 Z4 D05.0(06) L13.0(050)	5.0	6	50	13	M5003574
E90 Z4 D06.0(06) L16.0(050)	6.0	6	50	16	M5003575
E90 Z4 D08.0(08) L20.0(060)	8.0	8	60	20	M5003576
E90 Z4 D10.0(10) L22.0(072)	10.0	10	72	22	M5003577
E90 Z4 D12.0(12) L26.0(075)	12.0	12	75	26	M5003578
E90 Z4 D16.0(16) L38.0(100)	16.0	16	100	38	M5003579

Long

DESIGNATION	D1	D2	L1	L2	CATALOG #
E90 Z4 D03.0(06) L12.0(50)	3.0	6	50	12	M5003559
E90 Z4 D04.0(06) L16.0(55)	4.0	6	55	16	M5003560
E90 Z4 D05.0(06) L20.0(60)	5.0	6	60	20	M5003561
E90 Z4 D06.0(06) L24.0(65)	6.0	6	65	24	M5003562
E90 Z4 D08.0(08) L32.0(90)	8.0	8	90	32	M5003563
E90 Z4 D10.0(10) L40.0(100)	10.0	10	100	40	M5003564
E90 Z4 D12.0(12) L48.0(110)	12.0	12	110	48	M5003565
E90 Z4 D16.0(16) L64.0(160)	16.0	16	160	64	M5003566

90° 4 Flute with Radius



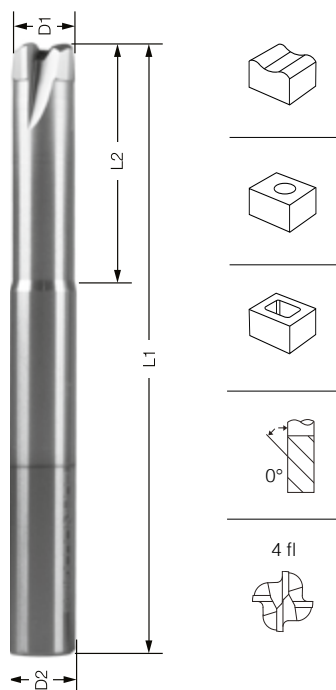
DESIGNATION	D1	D2	L1	L2	R	CATALOG #
E90 Z4 D03.0(06) L08.0(50)R0.5	3.0	6	50	8	0.5	M5003614
E90 Z4 D04.0(06) L11.0(50)R0.5	4.0	6	50	11	0.5	M5003615
E90 Z4 D05.0(06) L13.0(50)R0.5	5.0	6	50	13	0.5	M5003616
E90 Z4 D06.0(06) L16.0(50)R0.5	6.0	6	50	16	0.5	M5003617
E90 Z4 D08.0(08) L20.0(60)R0.5	8.0	8	60	20	0.5	M5003618
E90 Z4 D10.0(10) L22.0(72)R0.5	10.0	10	72	22	0.5	M5003619
E90 Z4 D12.0(12) L26.0(75)R0.5	12.0	12	75	26	0.5	M5003620
E90 Z4 D03.0(06) L08.0(50)R1.0	3.0	6	50	8	1.0	M5003623
E90 Z4 D04.0(06) L11.0(50)R1.0	4.0	6	50	11	1.0	M5003624
E90 Z4 D05.0(06) L13.0(50)R1.0	5.0	6	50	13	1.0	M5003625
E90 Z4 D06.0(06) L16.0(50)R1.0	6.0	6	50	16	1.0	M5003626
E90 Z4 D08.0(08) L20.0(60)R1.0	8.0	8	60	20	1.0	M5003627
E90 Z4 D10.0(10) L22.0(72)R1.0	10.0	10	72	22	1.0	M5003628
E90 Z4 D12.0(12) L26.0(75)R1.0	12.0	12	75	26	1.0	M5003629
E90 Z4 D06.0(06) L16.0(50)R2.0	6.0	6	50	16	2.0	M5003632
E90 Z4 D08.0(08) L20.0(60)R2.0	8.0	8	60	20	2.0	M5003633
E90 Z4 D10.0(10) L22.0(72)R2.0	10.0	10	72	22	2.0	M5003634
E90 Z4 D12.0(12) L26.0(75)R2.0	12.0	12	75	26	2.0	M5003635

Long

DESIGNATION	D1	D2	L1	L2	R	CATALOG #
E90 Z4 D08(08) L32(90)R0.5	8.0	8	90	32	0.5	M5003638
E90 Z4 D10(10) L40(100)R0.5	10.0	10	100	40	0.5	M5003639
E90 Z4 D12(12) L48(110)R0.5	12.0	12	110	48	0.5	M5003640



High Feed, 4 Flute



DESIGNATION	D1	D2	L1	L2	R prog	CATALOG #
EHF Z4 D03.0(06) L02.0(70) R0.37	3.0	6	70	12	0.37	M5003600
EHF Z4 D04.0(06) L02.0(70) R0.47	4.0	6	70	16	0.47	M5003601
EHF Z4 D05.0(06) L02.5(70) R0.60	5.0	6	70	20	0.60	M5003602
EHF Z4 D06.0(06) L03.0(70) R0.73	6.0	6	70	25	0.73	M5003603
EHF Z4 D08.0(08) L04.0(80) R0.98	8.0	8	80	30	0.98	M5003604
EHF Z4 D10.0(10) L05.0(90) R1.23	10.0	10	90	35	1.23	M5003605
EHF Z4 D12.0(12) L06.0(100) R1.65	12.0	12	100	40	1.65	M5003606



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