

SERIES 45000

- ✓ 5 FLUTE
- ✓ CENTER CUTTING
- ✓ STUB, STANDARD, LONG AND EXTRA LONG LENGTHS
- ✓ GROUND WITH FLAT CLEARANCE FOR EXTREME CUTTING EDGE STRENGTH, AND IMPROVED SURFACE FINISHES
- ✓ HIGH PERFORMANCE WHEN PERIPHERAL, AND FINISH MILLING
- ✓ HIGH HELIX FOR VERTICAL SHEAR ACTION AND CHIP EVACUATION



DIA	SHANK	LOC	OAL	FLUTES	UNCOATED	TiN	TiCN	ALTiN
1/8	1/8	1/4	1 1/2	5	45001-UC	45001-TiN	45001-TiCN	45001-ALTiN
1/8	1/8	1/2	1 1/2	5	45002-UC	45002-TiN	45002-TiCN	45002-ALTiN
5/32	3/16	5/16	2	5	45003-UC	45003-TiN	45003-TiCN	45003-ALTiN
5/32	3/16	9/16	2	5	45004-UC	45004-TiN	45004-TiCN	45004-ALTiN
3/16	3/16	5/16	2	5	45005-UC	45005-TiN	45005-TiCN	45005-ALTiN
3/16	3/16	9/16	2	5	45006-UC	45006-TiN	45006-TiCN	45006-ALTiN
7/32	1/4	3/8	2	5	45007-UC	45007-TiN	45007-TiCN	45007-ALTiN
7/32	1/4	3/4	2 1/2	5	45008-UC	45008-TiN	45008-TiCN	45008-ALTiN
1/4	1/4	3/8	2	5	45009-UC	45009-TiN	45009-TiCN	45009-ALTiN
1/4	1/4	3/4	2 1/2	5	45010-UC	45010-TiN	45010-TiCN	45010-ALTiN
1/4	1/4	1 1/4	4	5	45011-UC	45011-TiN	45011-TiCN	45011-ALTiN
9/32	5/16	7/16	2	5	45012-UC	45012-TiN	45012-TiCN	45012-ALTiN
9/32	5/16	13/16	2 1/2	5	45013-UC	45013-TiN	45013-TiCN	45013-ALTiN
5/16	5/16	7/16	2	5	45014-UC	45014-TiN	45014-TiCN	45014-ALTiN
5/16	5/16	13/16	2 1/2	5	45015-UC	45015-TiN	45015-TiCN	45015-ALTiN
5/16	5/16	1 1/4	4	5	45016-UC	45016-TiN	45016-TiCN	45016-ALTiN
5/16	5/16	2 1/8	4	5	45017-UC	45017-TiN	45017-TiCN	45017-ALTiN
11/32	3/8	1/2	2	5	45018-UC	45018-TiN	45018-TiCN	45018-ALTiN
11/32	3/8	1	2 1/2	5	45019-UC	45019-TiN	45019-TiCN	45019-ALTiN
3/8	3/8	1/2	2	5	45020-UC	45020-TiN	45020-TiCN	45020-ALTiN
3/8	3/8	1	2 1/2	5	45021-UC	45021-TiN	45021-TiCN	45021-ALTiN
3/8	3/8	1 1/2	4	5	45022-UC	45022-TiN	45022-TiCN	45022-ALTiN
3/8	3/8	2 1/2	6	5	45023-UC	45023-TiN	45023-TiCN	45023-ALTiN
13/32	7/16	9/16	2 1/2	5	45024-UC	45024-TiN	45024-TiCN	45024-ALTiN
13/32	7/16	1	3	5	45025-UC	45025-TiN	45025-TiCN	45025-ALTiN
7/16	7/16	9/16	2 1/2	5	45026-UC	45026-TiN	45026-TiCN	45026-ALTiN
7/16	7/16	1	3	5	45027-UC	45027-TiN	45027-TiCN	45027-ALTiN

TOLERANCES

CUTTING DIAMETER SHANK
DIAMETER

+ .000/ - .002

+ .000 / - .0005

CONSIDER ADDING A COATING
TO EXTEND TOOL LIFE

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DIA	SHANK	LOC	OAL	FLUTES	UNCOATED	TiN	TiCN	ALTiN
7/16	7/16	2	4	5	45028-UC	45028-TiN	45028-TiCN	45028-ALTiN
15/32	1/2	5/8	2 1/2	5	45029-UC	45029-TiN	45029-TiCN	45029-ALTiN
15/32	1/2	1 1/4	3	5	45030-UC	45030-TiN	45030-TiCN	45030-ALTiN
1/2	1/2	5/8	2 1/2	5	45031-UC	45031-TiN	45031-TiCN	45031-ALTiN
1/2	1/2	1 1/4	3	5	45032-UC	45032-TiN	45032-TiCN	45032-ALTiN
1/2	1/2	2	4	5	45033-UC	45033-TiN	45033-TiCN	45033-ALTiN
1/2	1/2	3 1/8	6	5	45034-UC	45034-TiN	45034-TiCN	45034-ALTiN
9/16	9/16	1 1/2	3 1/2	5	45035-UC	45035-TiN	45035-TiCN	45035-ALTiN
5/8	5/8	3/4	3	5	45036-UC	45036-TiN	45036-TiCN	45036-ALTiN
5/8	5/8	1 5/8	3 1/2	5	45037-UC	45037-TiN	45037-TiCN	45037-ALTiN
5/8	5/8	2 1/2	5	5	45038-UC	45038-TiN	45038-TiCN	45038-ALTiN
5/8	5/8	4	6	5	45039-UC	45039-TiN	45039-TiCN	45039-ALTiN
3/4	3/4	1	3	5	45040-UC	45040-TiN	45040-TiCN	45040-ALTiN
3/4	3/4	1 5/8	4	5	45041-UC	45041-TiN	45041-TiCN	45041-ALTiN
3/4	3/4	2 1/4	5	5	45042-UC	45042-TiN	45042-TiCN	45042-ALTiN
3/4	3/4	3 1/4	6	5	45043-UC	45043-TiN	45043-TiCN	45043-ALTiN
3/4	3/4	4	6	5	45044-UC	45044-TiN	45044-TiCN	45044-ALTiN
1	1	1 1/4	3	5	45045-UC	45045-TiN	45045-TiCN	45045-ALTiN
1	1	2	4	5	45046-UC	45046-TiN	45046-TiCN	45046-ALTiN
1	1	2 5/8	6	5	45047-UC	45047-TiN	45047-TiCN	45047-ALTiN
1	1	3 1/4	6	5	45048-UC	45048-TiN	45048-TiCN	45048-ALTiN
1	1	4 1/8	7	5	45049-UC	45049-TiN	45049-TiCN	45049-ALTiN
1 1/4	1 1/4	2	4 1/2	7	45050-UC	45050-TiN	45050-TiCN	45050-ALTiN
1 1/4	1 1/4	3 1/4	6	7	45051-UC	45051-TiN	45051-TiCN	45051-ALTiN
1 1/4	1 1/4	5	7 1/2	7	45052-UC	45052-TiN	45052-TiCN	45052-ALTiN

TOLERANCES

CUTTING DIAMETER SHANK DIAMETER
 + .000/ - .002 + .000 / - .0005

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