



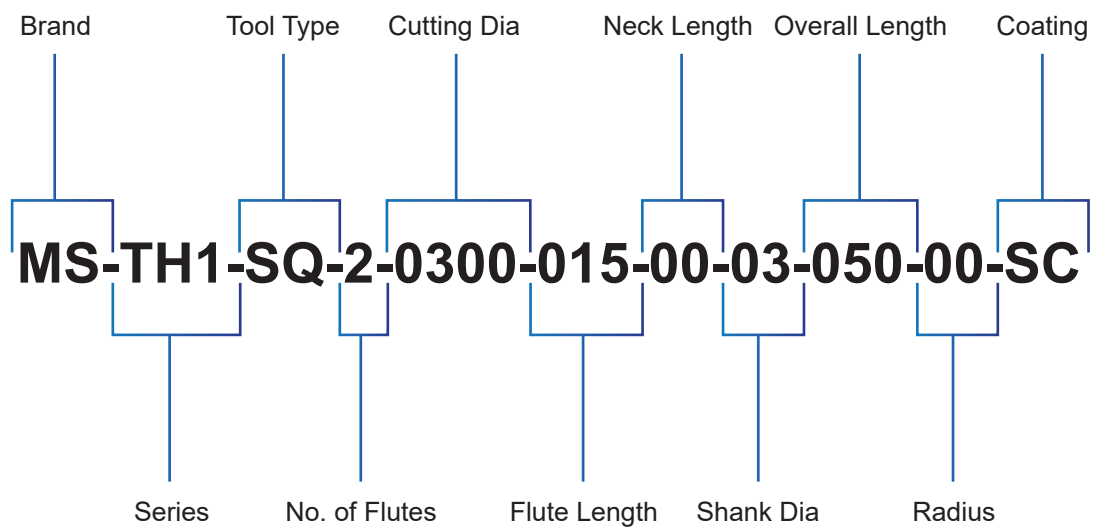
# HIGH PERFORMANCE ENDMILL

# TH1-SC

SQUARE | BALLNOSE | CORNER RADIUS

[www.mstm.co.in](http://www.mstm.co.in)

# CODE DESCRIPTION



## Tool Type:

SQ - Square End mill

BA - Ballnose End mill

CR - Corner Radius End mill

## No. of Flutes:

2 - 2 Flute

4 - 4 Flute

5 - 5 Flute

# TH1-SC

- ▶ Premium tooling for roughing, semi-finishing and finishing of materials up to 58 HRC.
- ▶ Super ultrafine carbide grade with high hot hardness coating allows for dry cutting and excellent work piece finish while increasing tool life.
- ▶ Newest-generation of TiAlSiN-based coating with HiPIMS technology, SteelCon coating provides extreme wear resistance at extreme cutting temperatures, and exotic material machining. High hot hardness and diffusion wear resistance increases process stability.
- ▶ High precision geometry increases the chipping resistance enabling machining with very close tolerances.
- ▶ Recommended for machining of hardened steels, high alloy steels, tool steels, mold steels.



P	M	K	N	S	H
○					●

● Recommended ○ Good

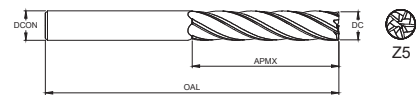
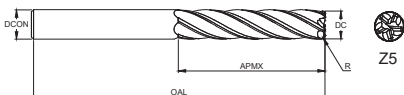
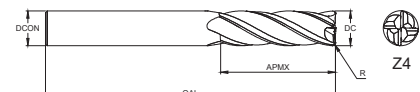
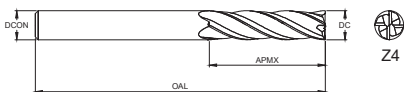
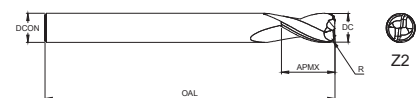
## SQUARE END MILL



## BALLNOSE END MILL



## CORNER RADIUS END MILL



Note: R = RD (CR Radius)



units in mm

### SQUARE END MILL - Z2

CODE	DC	DCON	APMX	OAL
MS-TH1-SQ-2-0300-040-00-06-050-00-SC	3	6	4	50
MS-TH1-SQ-2-0300-070-00-06-057-00-SC	3	6	7	57
MS-TH1-SQ-2-0400-050-00-06-054-00-SC	4	6	5	54
MS-TH1-SQ-2-0400-080-00-06-057-00-SC	4	6	8	57
MS-TH1-SQ-2-0500-060-00-06-054-00-SC	5	6	6	54
MS-TH1-SQ-2-0500-100-00-06-057-00-SC	5	6	10	57
MS-TH1-SQ-2-0600-070-00-06-054-00-SC	6	6	7	54
MS-TH1-SQ-2-0600-100-00-06-057-00-SC	6	6	10	57
MS-TH1-SQ-2-0800-090-00-08-058-00-SC	8	8	9	58
MS-TH1-SQ-2-0800-160-00-08-063-00-SC	8	8	16	63
MS-TH1-SQ-2-1000-110-00-10-066-00-SC	10	10	11	66
MS-TH1-SQ-2-1000-190-00-10-072-00-SC	10	10	19	72
MS-TH1-SQ-2-1200-120-00-12-073-00-SC	12	12	12	73
MS-TH1-SQ-2-1200-220-00-12-083-00-SC	12	12	22	83
MS-TH1-SQ-2-1400-140-00-14-075-00-SC	14	14	14	75
MS-TH1-SQ-2-1400-220-00-14-083-00-SC	14	14	22	83
MS-TH1-SQ-2-1600-160-00-16-082-00-SC	16	16	16	82
MS-TH1-SQ-2-1600-260-00-16-092-00-SC	16	16	26	92
MS-TH1-SQ-2-1800-180-00-18-084-00-SC	18	18	18	84
MS-TH1-SQ-2-1800-260-00-18-092-00-SC	18	18	26	92
MS-TH1-SQ-2-2000-200-00-20-092-00-SC	20	20	20	92
MS-TH1-SQ-2-2000-320-00-20-104-00-SC	20	20	32	104



units in mm

### SQUARE END MILL - Z4

CODE	DC	DCON	APMX	OAL
MS-TH1-SQ-4-0300-050-00-06-050-00-SC	3	6	5	50
MS-TH1-SQ-4-0300-080-00-06-057-00-SC	3	6	8	57
MS-TH1-SQ-4-0400-080-00-06-054-00-SC	4	6	8	54
MS-TH1-SQ-4-0400-110-00-06-057-00-SC	4	6	11	57
MS-TH1-SQ-4-0500-090-00-06-054-00-SC	5	6	9	54
MS-TH1-SQ-4-0500-130-00-06-057-00-SC	5	6	13	57
MS-TH1-SQ-4-0600-100-00-06-054-00-SC	6	6	10	54
MS-TH1-SQ-4-0600-130-00-06-057-00-SC	6	6	13	57
MS-TH1-SQ-4-0800-120-00-08-058-00-SC	8	8	12	58
MS-TH1-SQ-4-0800-190-00-08-063-00-SC	8	8	19	63
MS-TH1-SQ-4-1000-140-00-10-066-00-SC	10	10	14	66
MS-TH1-SQ-4-1000-220-00-10-072-00-SC	10	10	22	72
MS-TH1-SQ-4-1200-160-00-12-073-00-SC	12	12	16	73
MS-TH1-SQ-4-1200-260-00-12-083-00-SC	12	12	26	83
MS-TH1-SQ-4-1400-180-00-14-075-00-SC	14	14	18	75
MS-TH1-SQ-4-1400-260-00-14-083-00-SC	14	14	26	83
MS-TH1-SQ-4-1600-220-00-16-082-00-SC	16	16	22	82
MS-TH1-SQ-4-1600-320-00-16-092-00-SC	16	16	32	92
MS-TH1-SQ-4-1800-240-00-18-084-00-SC	18	18	24	84
MS-TH1-SQ-4-1800-320-00-18-092-00-SC	18	18	32	92
MS-TH1-SQ-4-2000-260-00-20-092-00-SC	20	20	26	92
MS-TH1-SQ-4-2000-380-00-20-104-00-SC	20	20	38	104



units in mm

### SQUARE END MILL - Z5

CODE	DC	DCON	APMX	OAL
MS-TH1-SQ-5-0300-050-00-06-050-00-SC	3	6	5	50
MS-TH1-SQ-5-0300-080-00-06-057-00-SC	3	6	8	57
MS-TH1-SQ-5-0400-080-00-06-054-00-SC	4	6	8	54
MS-TH1-SQ-5-0400-110-00-06-057-00-SC	4	6	11	57
MS-TH1-SQ-5-0500-090-00-06-054-00-SC	5	6	9	54
MS-TH1-SQ-5-0500-130-00-06-057-00-SC	5	6	13	57
MS-TH1-SQ-5-0600-100-00-06-054-00-SC	6	6	10	54
MS-TH1-SQ-5-0600-130-00-06-057-00-SC	6	6	13	57
MS-TH1-SQ-5-0800-120-00-08-058-00-SC	8	8	12	58
MS-TH1-SQ-5-0800-190-00-08-063-00-SC	8	8	19	63
MS-TH1-SQ-5-1000-140-00-10-066-00-SC	10	10	14	66
MS-TH1-SQ-5-1000-220-00-10-072-00-SC	10	10	22	72
MS-TH1-SQ-5-1200-160-00-12-073-00-SC	12	12	16	73
MS-TH1-SQ-5-1200-260-00-12-083-00-SC	12	12	26	83
MS-TH1-SQ-5-1400-180-00-14-075-00-SC	14	14	18	75
MS-TH1-SQ-5-1400-260-00-14-083-00-SC	14	14	26	83
MS-TH1-SQ-5-1600-220-00-16-082-00-SC	16	16	22	82
MS-TH1-SQ-5-1600-320-00-16-092-00-SC	16	16	32	92
MS-TH1-SQ-5-1800-240-00-18-084-00-SC	18	18	24	84
MS-TH1-SQ-5-1800-320-00-18-092-00-SC	18	18	32	92
MS-TH1-SQ-5-2000-260-00-20-092-00-SC	20	20	26	92
MS-TH1-SQ-5-2000-380-00-20-104-00-SC	20	20	38	104



units in mm

### BALLNOSE END MILL - Z2

CODE	DC	DCON	APMX	OAL
MS-TH1-BA-2-0300-040-00-06-050-00-SC	3	6	4	50
MS-TH1-BA-2-0300-070-00-06-057-00-SC	3	6	7	57
MS-TH1-BA-2-0400-050-00-06-054-00-SC	4	6	5	54
MS-TH1-BA-2-0400-080-00-06-057-00-SC	4	6	8	57
MS-TH1-BA-2-0500-060-00-06-054-00-SC	5	6	6	54
MS-TH1-BA-2-0500-100-00-06-057-00-SC	5	6	10	57
MS-TH1-BA-2-0600-070-00-06-054-00-SC	6	6	7	54
MS-TH1-BA-2-0600-100-00-06-057-00-SC	6	6	10	57
MS-TH1-BA-2-0800-090-00-08-058-00-SC	8	8	9	58
MS-TH1-BA-2-0800-160-00-08-063-00-SC	8	8	16	63
MS-TH1-BA-2-1000-110-00-10-066-00-SC	10	10	11	66
MS-TH1-BA-2-1000-190-00-10-072-00-SC	10	10	19	72
MS-TH1-BA-2-1200-120-00-12-073-00-SC	12	12	12	73
MS-TH1-BA-2-1200-220-00-12-083-00-SC	12	12	22	83
MS-TH1-BA-2-1400-140-00-14-075-00-SC	14	14	14	75
MS-TH1-BA-2-1400-220-00-14-083-00-SC	14	14	22	83
MS-TH1-BA-2-1600-160-00-16-082-00-SC	16	16	16	82
MS-TH1-BA-2-1600-260-00-16-092-00-SC	16	16	26	92
MS-TH1-BA-2-1800-180-00-18-084-00-SC	18	18	18	84
MS-TH1-BA-2-1800-260-00-18-092-00-SC	18	18	26	92
MS-TH1-BA-2-2000-200-00-20-092-00-SC	20	20	20	92
MS-TH1-BA-2-2000-320-00-20-104-00-SC	20	20	32	104

### CORNER RADIUS END MILL - Z2



units in mm

CODE	DC	DCON	APMX	OAL	RD (CR RADIUS)
MS-TH1-CR-2-0300-040-00-06-050-RD-SC	3	6	4	50	0.3, 0.5
MS-TH1-CR-2-0300-070-00-06-057-RD-SC	3	6	7	57	0.3, 0.5
MS-TH1-CR-2-0400-050-00-06-054-RD-SC	4	6	5	54	0.3, 0.5
MS-TH1-CR-2-0400-080-00-06-057-RD-SC	4	6	8	57	0.3, 0.5
MS-TH1-CR-2-0500-060-00-06-054-RD-SC	5	6	6	54	0.5, 1.0
MS-TH1-CR-2-0500-100-00-06-057-RD-SC	5	6	10	57	0.5, 1.0
MS-TH1-CR-2-0600-070-00-06-054-RD-SC	6	6	7	54	0.5, 1.0
MS-TH1-CR-2-0600-100-00-06-057-RD-SC	6	6	10	57	0.5, 1.0
MS-TH1-CR-2-0800-090-00-08-058-RD-SC	8	8	9	58	0.5, 1.0
MS-TH1-CR-2-0800-160-00-08-063-RD-SC	8	8	16	63	0.5, 1.0
MS-TH1-CR-2-1000-110-00-10-066-RD-SC	10	10	11	66	0.5, 1.0
MS-TH1-CR-2-1000-190-00-10-072-RD-SC	10	10	19	72	0.5, 1.0
MS-TH1-CR-2-1200-120-00-12-073-RD-SC	12	12	12	73	0.5, 1.0, 2.0
MS-TH1-CR-2-1200-220-00-12-083-RD-SC	12	12	22	83	0.5, 1.0, 2.0
MS-TH1-CR-2-1400-140-00-14-075-RD-SC	14	14	14	75	1.0, 2.0
MS-TH1-CR-2-1400-220-00-14-083-RD-SC	14	14	22	83	1.0, 2.0
MS-TH1-CR-2-1600-160-00-16-082-RD-SC	16	16	16	82	1.0, 2.0
MS-TH1-CR-2-1600-260-00-16-092-RD-SC	16	16	26	92	1.0, 2.0
MS-TH1-CR-2-1800-180-00-18-084-RD-SC	18	18	18	84	1.0, 2.0
MS-TH1-CR-2-1800-260-00-18-092-RD-SC	18	18	26	92	1.0, 2.0
MS-TH1-CR-2-2000-200-00-20-092-RD-SC	20	20	20	92	1.0, 2.0
MS-TH1-CR-2-2000-320-00-20-104-RD-SC	20	20	32	104	1.0, 2.0



### CORNER RADIUS END MILL - Z4



units in mm

CODE	DC	DCON	APMX	OAL	RD (CR RADIUS)
MS-TH1-CR-4-0300-050-00-06-050-RD-SC	3	6	5	50	0.3, 0.5
MS-TH1-CR-4-0300-080-00-06-057-RD-SC	3	6	8	57	0.3, 0.5
MS-TH1-CR-4-0400-080-00-06-054-RD-SC	4	6	8	54	0.3, 0.5
MS-TH1-CR-4-0400-110-00-06-057-RD-SC	4	6	11	57	0.3, 0.5
MS-TH1-CR-4-0500-090-00-06-054-RD-SC	5	6	9	54	0.5, 1.0
MS-TH1-CR-4-0500-130-00-06-057-RD-SC	5	6	13	57	0.5, 1.0
MS-TH1-CR-4-0600-100-00-06-054-RD-SC	6	6	10	54	0.5, 1.0
MS-TH1-CR-4-0600-130-00-06-057-RD-SC	6	6	13	57	0.5, 1.0
MS-TH1-CR-4-0800-120-00-08-058-RD-SC	8	8	12	58	0.5, 1.0
MS-TH1-CR-4-0800-190-00-08-063-RD-SC	8	8	19	63	0.5, 1.0
MS-TH1-CR-4-1000-140-00-10-066-RD-SC	10	10	14	66	0.5, 1.0
MS-TH1-CR-4-1000-220-00-10-072-RD-SC	10	10	22	72	0.5, 1.0
MS-TH1-CR-4-1200-160-00-12-073-RD-SC	12	12	16	73	0.5, 1.0, 2.0
MS-TH1-CR-4-1200-260-00-12-083-RD-SC	12	12	26	83	0.5, 1.0, 2.0
MS-TH1-CR-4-1400-180-00-14-075-RD-SC	14	14	18	75	1.0, 2.0
MS-TH1-CR-4-1400-260-00-14-083-RD-SC	14	14	26	83	1.0, 2.0
MS-TH1-CR-4-1600-220-00-16-082-RD-SC	16	16	22	82	1.0, 2.0
MS-TH1-CR-4-1600-320-00-16-092-RD-SC	16	16	32	92	1.0, 2.0
MS-TH1-CR-4-1800-240-00-18-084-RD-SC	18	18	24	84	1.0, 2.0
MS-TH1-CR-4-1800-320-00-18-092-RD-SC	18	18	32	92	1.0, 2.0
MS-TH1-CR-4-2000-260-00-20-092-RD-SC	20	20	26	92	1.0, 2.0
MS-TH1-CR-4-2000-380-00-20-104-RD-SC	20	20	38	104	1.0, 2.0



### CORNER RADIUS END MILL - Z5



units in mm

CODE	DC	DCON	APMX	OAL	RD (CR RADIUS)
MS-TH1-CR-5-0300-050-00-06-050-RD-SC	3	6	5	50	0.3, 0.5
MS-TH1-CR-5-0300-080-00-06-057-RD-SC	3	6	8	57	0.3, 0.5
MS-TH1-CR-5-0400-080-00-06-054-RD-SC	4	6	8	54	0.3, 0.5
MS-TH1-CR-5-0400-110-00-06-057-RD-SC	4	6	11	57	0.3, 0.5
MS-TH1-CR-5-0500-090-00-06-054-RD-SC	5	6	9	54	0.5, 1.0
MS-TH1-CR-5-0500-130-00-06-057-RD-SC	5	6	13	57	0.5, 1.0
MS-TH1-CR-5-0600-100-00-06-054-RD-SC	6	6	10	54	0.5, 1.0
MS-TH1-CR-5-0600-130-00-06-057-RD-SC	6	6	13	57	0.5, 1.0
MS-TH1-CR-5-0800-120-00-08-058-RD-SC	8	8	12	58	0.5, 1.0
MS-TH1-CR-5-0800-190-00-08-063-RD-SC	8	8	19	63	0.5, 1.0
MS-TH1-CR-5-1000-140-00-10-066-RD-SC	10	10	14	66	0.5, 1.0
MS-TH1-CR-5-1000-220-00-10-072-RD-SC	10	10	22	72	0.5, 1.0
MS-TH1-CR-5-1200-160-00-12-073-RD-SC	12	12	16	73	0.5, 1.0, 2.0
MS-TH1-CR-5-1200-260-00-12-083-RD-SC	12	12	26	83	0.5, 1.0, 2.0
MS-TH1-CR-5-1400-180-00-14-075-RD-SC	14	14	18	75	1.0, 2.0
MS-TH1-CR-5-1400-260-00-14-083-RD-SC	14	14	26	83	1.0, 2.0
MS-TH1-CR-5-1600-220-00-16-082-RD-SC	16	16	22	82	1.0, 2.0
MS-TH1-CR-5-1600-320-00-16-092-RD-SC	16	16	32	92	1.0, 2.0
MS-TH1-CR-5-1800-240-00-18-084-RD-SC	18	18	24	84	1.0, 2.0
MS-TH1-CR-5-1800-320-00-18-092-RD-SC	18	18	32	92	1.0, 2.0
MS-TH1-CR-5-2000-260-00-20-092-RD-SC	20	20	26	92	1.0, 2.0
MS-TH1-CR-5-2000-380-00-20-104-RD-SC	20	20	38	104	1.0, 2.0



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**M.S. Tools & Manufacturing Company Pvt. Ltd.**

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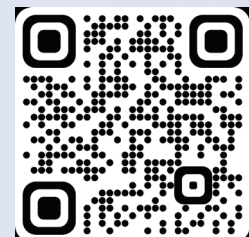
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