



PHYSICAL VAPOR DEPOSITION COATINGS



BROOKE CUTTING TOOLS USA - Coating Price Matrix

PART #	DESCRIPTION	TIN	TICN	TICNMP	ZRN	TIALN	TIALCN	ALTIN	ALTISI	CRN
CT-1.6x50.8	1/16"x2":1.6mmx50.8mm ROUND PARTS	\$0.40	\$0.44	\$0.44	\$0.47	\$0.54	\$0.65	\$0.54	\$0.76	\$0.63
CT-1.6x76.2	1/16"x3":1.6mmx76.2mm ROUND PARTS	\$0.46	\$0.50	\$0.50	\$0.54	\$0.62	\$0.74	\$0.62	\$0.86	\$0.71
CT-1.6x101.6	1/16"x4":1.6mmx101.6mm ROUND PARTS	\$0.52	\$0.57	\$0.57	\$0.62	\$0.70	\$0.84	\$0.70	\$0.99	\$0.81
CT-1.6x127	1/16"x5":1.6mmx127mm ROUND PARTS	\$0.62	\$0.68	\$0.68	\$0.73	\$0.83	\$1.00	\$0.83	\$1.16	\$0.96
CT-1.6x152.4	1/16"x6":1.6mmx152.4mm ROUND PARTS	\$0.71	\$0.78	\$0.78	\$0.84	\$0.96	\$1.15	\$0.96	\$1.34	\$1.10
CT-1.6x177.8	1/16"x7":1.6mmx177.8mm ROUND PARTS	\$0.80	\$0.88	\$0.88	\$0.95	\$1.08	\$1.30	\$1.08	\$1.52	\$1.25
CT-1.6x203.2	1/16"x8":1.6mmx203.2mm ROUND PARTS	\$0.98	\$1.08	\$1.08	\$1.16	\$1.23	\$1.47	\$1.23	\$1.72	\$1.41
CT-3.2x50.8	1/8"x2":3.2mmx50.8mm ROUND PARTS	\$0.46	\$0.50	\$0.50	\$0.54	\$0.62	\$0.74	\$0.62	\$0.86	\$0.71
CT-3.2x76.2	1/8"x3":3.2mmx76.2mm ROUND PARTS	\$0.58	\$0.64	\$0.64	\$0.69	\$0.79	\$0.94	\$0.79	\$1.10	\$0.90
CT-3.2x101.6	1/8"x4":3.2mmx101.6mm ROUND PARTS	\$0.70	\$0.77	\$0.77	\$0.83	\$0.95	\$1.14	\$0.95	\$1.33	\$1.09
CT-3.2x127	1/8"x5":3.2mmx127mm ROUND PARTS	\$0.83	\$0.91	\$0.91	\$0.98	\$1.12	\$1.35	\$1.12	\$1.57	\$1.29
CT-3.2x152.4	1/8"x6":3.2mmx152.4mm ROUND PARTS	\$0.99	\$1.09	\$1.09	\$1.17	\$1.34	\$1.60	\$1.34	\$1.87	\$1.54
CT-3.2x177.8	1/8"x7":3.2mmx177.8mm ROUND PARTS	\$1.11	\$1.22	\$1.22	\$1.31	\$1.50	\$1.80	\$1.50	\$2.10	\$1.73
CT-3.2x203.2	1/8"x8":3.2mmx203.2mm ROUND PARTS	\$1.28	\$1.41	\$1.41	\$1.51	\$1.71	\$2.06	\$1.71	\$2.40	\$1.97
CT-4.8x50.8	3/16"x2":4.8mmx50.8mm ROUND PARTS	\$0.58	\$0.64	\$0.64	\$0.69	\$0.79	\$0.94	\$0.79	\$1.10	\$0.90
CT-4.8x76.2	3/16"x3":4.8mmx76.2mm ROUND PARTS	\$0.90	\$0.99	\$0.99	\$1.06	\$1.22	\$1.46	\$1.22	\$1.70	\$1.40
CT-4.8x101.6	3/16"x4":4.8mmx101.6mm ROUND PARTS	\$1.05	\$1.16	\$1.16	\$1.24	\$1.42	\$1.70	\$1.42	\$1.99	\$1.63
CT-4.8x127	3/16"x5":4.8mmx127mm ROUND PARTS	\$1.22	\$1.34	\$1.34	\$1.44	\$1.65	\$1.98	\$1.65	\$2.31	\$1.90
CT-4.8x152.4	3/16"x6":4.8mmx152.4mm ROUND PARTS	\$1.47	\$1.62	\$1.62	\$1.74	\$1.99	\$2.39	\$1.99	\$2.79	\$2.29
CT-4.8x177.8	3/16"x7":4.8mmx177.8mm ROUND PARTS	\$1.65	\$1.82	\$1.82	\$1.95	\$2.23	\$2.67	\$2.23	\$3.12	\$2.56
CT-4.8x203.2	3/16"x8":4.8mmx203.2mm ROUND PARTS	\$1.96	\$2.16	\$2.16	\$2.32	\$2.54	\$3.04	\$2.54	\$3.55	\$2.92
CT-6.4x50.8	1/4"x2":6.4mmx50.8mm ROUND PARTS	\$0.90	\$0.99	\$0.99	\$1.06	\$1.22	\$1.46	\$1.22	\$1.70	\$1.40
CT-6.4x76.2	1/4"x3":6.4mmx76.2mm ROUND PARTS	\$1.19	\$1.31	\$1.31	\$1.41	\$1.61	\$1.93	\$1.61	\$2.26	\$1.85
CT-6.4x101.6	1/4"x4":6.4mmx101.6mm ROUND PARTS	\$1.40	\$1.54	\$1.54	\$1.65	\$1.89	\$2.27	\$1.89	\$2.65	\$2.18
CT-6.4x127	1/4"x5":6.4mmx127mm ROUND PARTS	\$1.70	\$1.87	\$1.87	\$2.01	\$2.28	\$2.74	\$2.28	\$3.20	\$2.62
CT-6.4x152.4	1/4"x6":6.4mmx152.4mm ROUND PARTS	\$1.98	\$2.18	\$2.18	\$2.34	\$2.67	\$3.20	\$2.67	\$3.73	\$3.07
CT-6.4x177.8	1/4"x7":6.4mmx177.8mm ROUND PARTS	\$2.20	\$2.42	\$2.42	\$2.60	\$2.97	\$3.56	\$2.97	\$4.16	\$3.42
CT-6.4x203.2	1/4"x8":6.4mmx203.2mm ROUND PARTS	\$2.63	\$2.89	\$2.89	\$3.10	\$3.38	\$4.06	\$3.38	\$4.74	\$3.89
CT-9.5x50.8	3/8"x2":9.5mmx50.8mm ROUND PARTS	\$1.29	\$1.42	\$1.42	\$1.53	\$1.74	\$2.09	\$1.74	\$2.44	\$2.01
CT-9.5x76.2	3/8"x3":9.5mmx76.2mm ROUND PARTS	\$1.78	\$1.96	\$1.96	\$2.10	\$2.39	\$2.87	\$2.39	\$3.35	\$2.75
CT-9.5x101.6	3/8"x4":9.5mmx101.6mm ROUND PARTS	\$2.28	\$2.51	\$2.51	\$2.69	\$3.08	\$3.70	\$3.08	\$4.31	\$3.54
CT-9.5x127	3/8"x5":9.5mmx127mm ROUND PARTS	\$2.72	\$2.99	\$2.99	\$3.21	\$3.69	\$4.42	\$3.69	\$5.16	\$4.24
CT-9.5x152.4	3/8"x6":9.5mmx152.4mm ROUND PARTS	\$3.11	\$3.42	\$3.42	\$3.67	\$4.21	\$5.05	\$4.21	\$5.89	\$4.84
CT-9.5x177.8	3/8"x7":9.5mmx177.8mm ROUND PARTS	\$3.49	\$3.84	\$3.84	\$4.12	\$4.70	\$5.64	\$4.70	\$6.58	\$5.41
CT-9.5x203.2	3/8"x8":9.5mmx203.2mm ROUND PARTS	\$4.65	\$5.11	\$5.11	\$5.48	\$5.32	\$6.38	\$5.32	\$7.45	\$6.12
CT-12.7x50.8	1/2"x2":12.7mmx50.8mm ROUND PARTS	\$1.59	\$1.75	\$1.75	\$1.88	\$2.15	\$2.57	\$2.15	\$3.00	\$2.47
CT-12.7x76.2	1/2"x3":12.7mmx76.2mm ROUND PARTS	\$2.20	\$2.42	\$2.42	\$2.60	\$2.97	\$3.56	\$2.97	\$4.16	\$3.42
CT-12.7x101.6	1/2"x4":12.7mmx101.6mm ROUND PARTS	\$2.86	\$3.15	\$3.15	\$3.37	\$3.85	\$4.62	\$3.85	\$5.39	\$4.43
CT-12.7x127	1/2"x5":12.7mmx127mm ROUND PARTS	\$3.40	\$3.74	\$3.74	\$4.01	\$4.59	\$5.51	\$4.59	\$6.43	\$5.28
CT-12.7x152.4	1/2"x6":12.7mmx152.4mm ROUND PARTS	\$4.02	\$4.42	\$4.42	\$4.74	\$5.42	\$6.50	\$5.42	\$7.58	\$6.23
CT-12.7x177.8	1/2"x7":12.7mmx177.8mm ROUND PARTS	\$4.65	\$5.11	\$5.11	\$5.48	\$6.27	\$7.52	\$6.27	\$8.78	\$7.21
CT-12.7x203.2	1/2"x8":12.7mmx203.2mm ROUND PARTS	\$6.12	\$6.73	\$6.73	\$7.22	\$7.21	\$8.65	\$7.21	\$10.09	\$8.29
CT-15.9x50.8	5/8"x2":15.9mmx50.8mm ROUND PARTS	\$1.90	\$2.09	\$2.09	\$2.24	\$2.56	\$3.07	\$2.56	\$3.58	\$2.94
CT-15.9x76.2	5/8"x3":15.9mmx76.2mm ROUND PARTS	\$2.56	\$2.81	\$2.81	\$3.02	\$3.47	\$4.16	\$3.47	\$4.85	\$3.98
CT-15.9x101.6	5/8"x4":15.9mmx101.6mm ROUND PARTS	\$3.19	\$3.51	\$3.51	\$3.76	\$4.32	\$5.18	\$4.32	\$6.04	\$4.97
CT-15.9x127	5/8"x5":15.9mmx127mm ROUND PARTS	\$3.99	\$4.39	\$4.39	\$4.71	\$5.39	\$6.47	\$5.39	\$7.55	\$6.20
CT-15.9x152.4	5/8"x6":15.9mmx152.4mm ROUND PARTS	\$4.73	\$5.20	\$5.20	\$5.58	\$6.38	\$7.66	\$6.38	\$8.93	\$7.34
CT-15.9x177.8	5/8"x7":15.9mmx177.8mm ROUND PARTS	\$5.53	\$6.08	\$6.08	\$6.52	\$7.45	\$8.94	\$7.45	\$10.43	\$8.57
CT-15.9x203.2	5/8"x8":15.9mmx203.2mm ROUND PARTS	\$7.05	\$7.75	\$7.75	\$8.31	\$8.69	\$10.43	\$8.69	\$12.17	\$9.99
CT-19.1x50.8	3/4"x2":19.1mmx50.8mm ROUND PARTS	\$2.34	\$2.57	\$2.57	\$2.76	\$3.16	\$3.80	\$3.16	\$4.43	\$3.64
CT-19.1x76.2	3/4"x3":19.1mmx76.2mm ROUND PARTS	\$3.05	\$3.36	\$3.36	\$3.60	\$4.13	\$4.95	\$4.13	\$5.78	\$4.74
CT-19.1x101.6	3/4"x4":19.1mmx101.6mm ROUND PARTS	\$3.77	\$4.14	\$4.14	\$4.45	\$5.09	\$6.11	\$5.09	\$7.12	\$5.85
CT-19.1x127	3/4"x5":19.1mmx127mm ROUND PARTS	\$4.62	\$5.08	\$5.08	\$5.45	\$6.24	\$7.49	\$6.24	\$8.74	\$7.18
CT-19.1x152.4	3/4"x6":19.1mmx152.4mm ROUND PARTS	\$5.47	\$6.02	\$6.02	\$6.46	\$7.40	\$8.88	\$7.40	\$10.36	\$8.51
CT-19.1x177.8	3/4"x7":19.1mmx177.8mm ROUND PARTS	\$6.27	\$6.90	\$6.90	\$7.40	\$8.47	\$10.16	\$8.47	\$11.86	\$9.74
CT-19.1x203.2	3/4"x8":19.1mmx203.2mm ROUND PARTS	\$7.85	\$8.64	\$8.64	\$9.27	\$9.79	\$11.75	\$9.79	\$13.71	\$11.26
CT-25.4x50.8	1"x2":25.4mmx50.8mm ROUND PARTS	\$3.22	\$3.54	\$3.54	\$3.80	\$4.35	\$5.21	\$4.35	\$6.08	\$5.00
CT-25.4x76.2	1"x3":25.4mmx76.2mm ROUND PARTS	\$4.40	\$4.84	\$4.84	\$5.19	\$5.94	\$7.13	\$5.94	\$8.32	\$6.83
CT-25.4x101.6	1"x4":25.4mmx101.6mm ROUND PARTS	\$5.56	\$6.11	\$6.11	\$6.55	\$7.51	\$9.01	\$7.51	\$10.51	\$8.63
CT-25.4x127	1"x5":25.4mmx127mm ROUND PARTS	\$6.38	\$7.02	\$7.02	\$7.53	\$8.61	\$10.33	\$8.61	\$12.05	\$9.90
CT-25.4x152.4	1"x6":25.4mmx152.4mm ROUND PARTS	\$7.12	\$7.83	\$7.83	\$8.40	\$9.63	\$11.55	\$9.63	\$13.48	\$11.07
CT-25.4x177.8	1"x7":25.4mmx177.8mm ROUND PARTS	\$7.92	\$8.71	\$8.71	\$9.35	\$10.70	\$12.84	\$10.70	\$14.98	\$12.30
CT-25.4x203.2	1"x8":25.4mmx203.2mm ROUND PARTS	\$9.30	\$10.23	\$10.23	\$10.97	\$11.89	\$14.27	\$11.89	\$16.64	\$13.67

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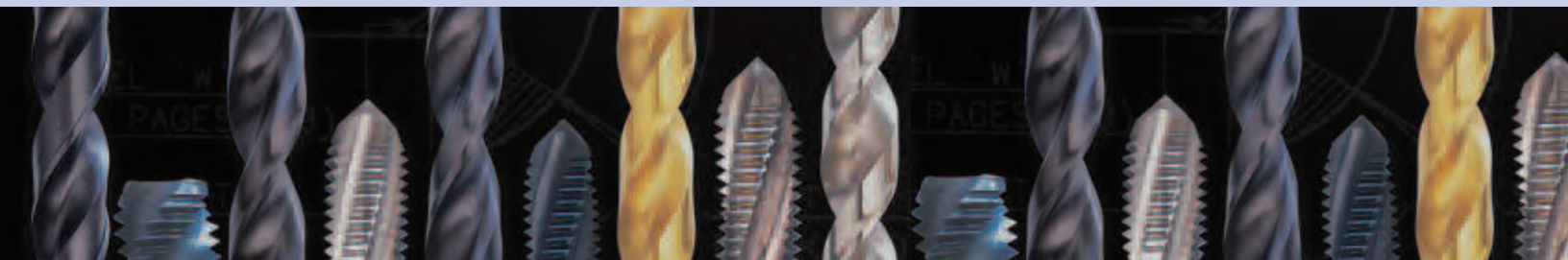
PART #	DESCRIPTION	TiN	TiCN	TiCNMP	ZrN	TiAlN	TiAlCN	AlTiN	AlTiSi	CRN
CT-31.8x50.8	1.1/4"x2":31.8mmx50.8mm ROUND PARTS									
CT-31.8x76.2	1.1/4"x3":31.8mmx76.2mm ROUND PARTS	\$5.53	\$6.08	\$6.08	\$6.52	\$7.45	\$8.94	\$7.45	\$10.43	\$8.57
CT-31.8x101.6	1.1/4"x4":31.8mmx101.6mm ROUND PARTS	\$6.90	\$7.59	\$7.59	\$8.14	\$9.32	\$11.19	\$9.32	\$13.05	\$10.72
CT-31.8x127	1.1/4"x5":31.8mmx127mm ROUND PARTS	\$7.87	\$8.65	\$8.65	\$9.28	\$10.62	\$12.74	\$10.62	\$14.86	\$12.21
CT-31.8x152.4	1.1/4"x6":31.8mmx152.4mm ROUND PARTS	\$8.88	\$9.77	\$9.77	\$10.48	\$11.99	\$14.39	\$11.99	\$16.79	\$13.79
CT-31.8x177.8	1.1/4"x7":31.8mmx177.8mm ROUND PARTS	\$9.90	\$10.89	\$10.89	\$11.68	\$13.37	\$16.04	\$13.37	\$18.71	\$15.37
CT-31.8x203.2	1.1/4"x8":31.8mmx203.2mm ROUND PARTS	\$12.13	\$13.34	\$13.34	\$14.31	\$14.88	\$17.85	\$14.88	\$20.83	\$17.11
CT-38.1x50.8	1.1/2"x2":38.1mmx50.8mm ROUND PARTS									
CT-38.1x76.2	1.1/2"x3":38.1mmx76.2mm ROUND PARTS	\$8.61	\$9.47	\$9.47	\$10.16	\$11.63	\$13.96	\$11.63	\$16.29	\$13.38
CT-38.1x101.6	1.1/2"x4":38.1mmx101.6mm ROUND PARTS	\$10.75	\$11.83	\$11.83	\$12.69	\$14.52	\$17.42	\$14.52	\$20.33	\$16.70
CT-38.1x127	1.1/2"x5":38.1mmx127mm ROUND PARTS	\$12.40	\$13.64	\$13.64	\$14.63	\$16.75	\$20.10	\$16.75	\$23.45	\$19.26
CT-38.1x152.4	1.1/2"x6":38.1mmx152.4mm ROUND PARTS	\$13.97	\$15.37	\$15.37	\$16.48	\$18.87	\$22.64	\$18.87	\$26.41	\$21.69
CT-38.1x177.8	1.1/2"x7":38.1mmx177.8mm ROUND PARTS	\$15.57	\$17.12	\$17.12	\$18.37	\$21.01	\$25.21	\$21.01	\$29.41	\$24.16
CT-38.1x203.2	1.1/2"x8":38.1mmx203.2mm ROUND PARTS	\$17.12	\$18.83	\$18.83	\$20.20	\$23.44	\$28.13	\$23.44	\$32.82	\$26.96
CT-50.8x50.8	2"x2":50.8mmx50.8mm ROUND PARTS									
CT-50.8x76.2	2"x3":50.8mmx76.2mm ROUND PARTS	\$11.69	\$12.86	\$12.86	\$13.79	\$15.92	\$19.11	\$15.92	\$22.29	\$18.31
CT-50.8x101.6	2"x4":50.8mmx101.6mm ROUND PARTS	\$14.60	\$16.06	\$16.06	\$17.23	\$19.72	\$23.66	\$19.72	\$27.60	\$22.68
CT-50.8x127	2"x5":50.8mmx127mm ROUND PARTS	\$16.83	\$18.51	\$18.51	\$19.86	\$22.72	\$27.26	\$22.72	\$31.80	\$26.12
CT-50.8x152.4	2"x6":50.8mmx152.4mm ROUND PARTS	\$19.22	\$21.14	\$21.14	\$22.68	\$25.96	\$31.15	\$25.96	\$36.34	\$29.85
CT-50.8x177.8	2"x7":50.8mmx177.8mm ROUND PARTS	\$21.56	\$23.72	\$23.72	\$25.44	\$29.10	\$34.91	\$29.10	\$40.73	\$33.46
CT-50.8x203.2	2"x8":50.8mmx203.2mm ROUND PARTS	\$18.08	\$19.89	\$19.89	\$21.34	\$32.63	\$39.16	\$32.63	\$45.68	\$37.53

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Call for Information and Dimensional Limitations

PHYSICAL VAPOR DEPOSITION – Coating Recommendations

WORKPIECE MATERIAL	APPLICATIONS									
	Drilling	Milling	Tapping	Turning	Broaching	Reaming	Stamping	Deep Drawing	Forming	Injection Molding
Steels-general types	TiAlN AlTiN	AlTiN TiCN-MP	TiCN-MP TiN	TiAlN AlTiN	TiCN-MP TiN	TiAlN TiCN-MP	TiCN-MP TiN	TiCN-MP TiN	TiCN-MP TiN	TiN CrN
Alloyed Steels • Tool Steel • Stainless Steel • Super-Alloys (ni-based)	TiAlN AlTiN	AlTiN TiAlN	TiCN-MP TiAlN	TiAlN AlTiN	TiCN-MP TiAlN	TiAlN TiCN-MP	TiCN-MP TiN	TiCN-MP TiN	TiCN-MP TiN	TiN CrN
Mg-Alloys	TiAlN AlTiN	AlTiN TiAlN	TiCN-MP TiAlN	TiAlN AlTiN	TiCN-MP TiAlN	TiAlN TiCN-MP	TiCN-MP TiN	TiCN-MP TiN	TiCN-MP TiN	TiN CrN
Ti-Alloys	ZrN	ZrN	ZrN	ZrN	ZrN	ZrN	ZrN	ZrN	ZrN	TiN CrN
Al-Alloys	ZrN CBC	ZrN CBC	ZrN CBC	ZrN CBC	ZrN CBC	ZrN CBC	ZrN CBC	ZrN CBC	ZrN CBC	TiN CrN
Brass/ Bronze	TiCN TiCN-MP	TiCN TiCN-MP	TiCN TiCN-MP	TiCN TiCN-MP	TiCN TiCN-MP	TiCN TiCN-MP	TiCN TiCN-MP	TiCN TiCN-MP	TiCN TiCN-MP	TiN CrN
Cast Iron	TiAlN AlTiN	TiAlN TiCN-MP	TiAlN TiCN-MP	TiAlN AlTiN	TiAlN TiCN-MP	TiAlN TiCN-MP				
Copper	CrN	CrN	CrN	CrN	CrN	CrN	CrN	CrN	CrN	CrN
Plastics	TiCN-MP TiCN	TiCN-MP TiCN	TiCN-MP TiCN	TiCN-MP TiCN						TiN CrN



PHYSICAL VAPOR DEPOSITION COATING DATASHEET

COATINGS	STRUCTURE OF COATING	BASE COMPOSITION	NANODURETÉ (GPa)	COEFFICIENT OF FRICTION	STANDARD THICKNESS (um)*	OXIDATION TEMPERATURE STABILITY	COLOR OF COATING
BCT 100	Multi-layer	TiN	24	0.55	2.0 - 3.0	650°C	Gold
BCT 101	Multi-layer	TiN	24	0.55	1.0 - 1.8	650°C	Gold
BCT 200	Multi-layer evolutionary	TiCN	37	0.2	2.0 - 3.0	400°C	Gray-Blue
BCT 201	Multi-layer evolutionary	TiCn	37	0.2	1.0 - 1.8	400°C	Gray-Blue
BCT 210	Multi-layer	TiN/TiCN	35	0.2	4.0 - 6.0	400°C	Gray-Blue
BCT 300	Nano-layer	CrN	18	0.3	2.0 - 3.0	700°C	Silver
BCT 1200	Nano-layer	ZrN	28	0.5	2.0 - 3.0	600°C	Pale Yellow
BCT 2000	Multi-layer	TiALN	35	0.5	2.5 - 3.5	800°C	Purple Dark
BCT 2100	Evolutionary	TiALCN	28	0.25	2.0 - 3.0	700°C	Old Pink
BCT 2200	Nano-layer	TiALN	38	0.6	2.5 - 3.5	900°C	Anthracite
BCT 2201	Nano-layer	TiALN	38	0.6	1.0 - 1.8	900°C	Anthracite
BCT 2201	Nano-layer	TiALN	38	0.6	1.0 - 1.8	900°C	Anthracite



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