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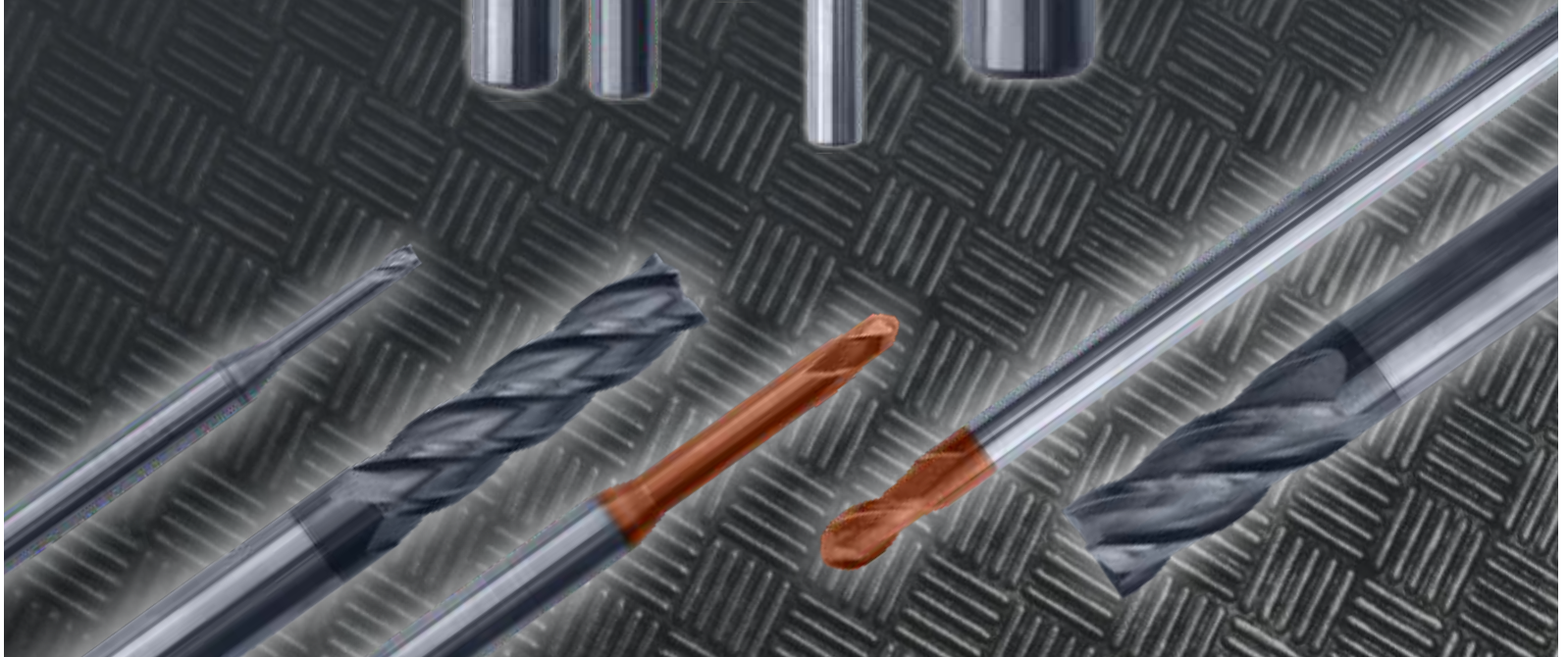
SOLID CARBIDE END-MILLS

CARBIDE INSERTS

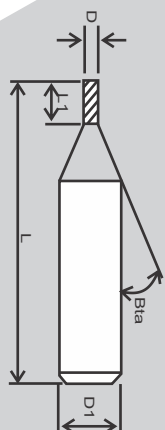
PCBN - PCD INSERTS



vol.- 2
w.e.f.: 1 January 2019



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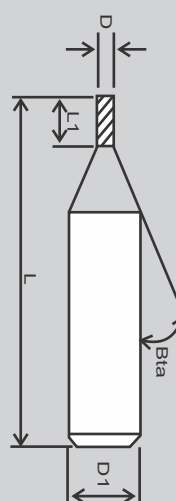


WEM Series - Micro Grain Carbide End Mill Square Type 0.4 Mickron Meter

Model Number	Outside Diameter D	Length of Cut L1	Shank Taper Angel BTA	Overall Length L	Shank Diameter D1	Prices Rs.
WEM 2001-0030	0.1	0.3	16	50	4	3870
WEM 2002-0030	0.2	0.3	16	50	4	3870
WEM 2003-0050	0.3	0.5	16	50	4	3870
WEM 2004-0060	0.4	0.6	16	50	4	3870
WEM 2005-0080	0.5	0.8	16	50	4	3870
WEM 2006-0100	0.6	1	16	50	4	3280
WEM 2007-0100	0.7	1	16	50	4	3280
WEM 2008-0120	0.8	1.2	16	50	4	3280
WEM 2009-0120	0.9	1.2	16	50	4	3280
WEM 4010-0300	1	3	16	50	3	865
WEM 4010-0300-4	1	3	16	50	4	1041
WEM 4015-0500	1.5	5	16	50	3	865
WEM 4015-0500-4	1.5	5	16	50	4	1041
WEM 4020-0600	2	6	16	50	3	865
WEM 4020-0600-4	2	6	16	50	4	1041
WEM 4025-0700	2.5	7	16	50	3	865
WEM 4025-0700-4	2.5	7	16	50	4	1041
WEM 4030-1200	3	12	-	50	3	865
WEM 4030-1200-4	3	12	16	50	4	1041
WEM 4040-1500	4	15	-	50	4	1041
WEM 4050-1500	5	15	-	50	5	1472
WEM 4050-2000	5	20	-	64	5	1587
WEM 4050-1500-6	5	15	16	64	6	1587
WEM 4060-2000	6	20	-	64	6	1587
WEM 4060-1500	6	15	-	50	6	1472
WEM 4070-2000-8	7	20	16	64	8	2415
WEM 4080-2000	8	20	-	64	8	2415
WEM 4090-2500-10	9	25	16	75	10	3630
WEM 4100-2500	10	25	-	75	10	3630
WEM 4110-3000	11	30	16	75	12	4485
WEM 4120-3000	12	30	-	75	12	4485
WEM 4130-4000	13	40	16	100	14	7475
WEM 4140-4000	14	40	-	100	14	7475
WEM 4160-4000	16	40	-	100	16	10925
WEM 4180-4000	18	40	-	100	18	13225
WEM 4200-4000	20	40	-	100	20	15985
WEM 4220-4000	22	40	-	100	22	18285
WEM 4250-4000	25	40	-	100	25	20355

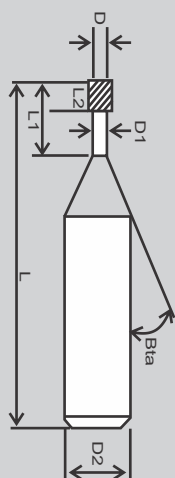
**WEMEL Series - Micro Grain Carbide End Mill Square Type 0.4 Mickron Meter
(Long & Extra Long)**

Model Number	Outside Diameter D	Length of Cut L1	Overall Length L	Shank Diameter D1	Prices Rs.
WEMEL 4020-100-2-100	2	10	100	2	3500
WEMEL 4020-100	2	10	75	3	1725
WEMEL 4020-100-3-100	2	10	100	3	2415
WEMEL 4025-100	2.5	10	75	3	1725
WEMEL 4030-100	3	15	75	3	1725
WEMEL 4030-200-3-100	3	20	100	3	2415
WEMEL 4030-150-6-100	3	15	100	6	3105
WEMEL 4040-200	4	20	75	4	1897
WEMEL 4040-200-4-100	4	20	100	4	2645
WEMEL 4040-200-6-100	4	20	100	6	3105
WEMEL 4050-200	5	20	75	5	2127
WEMEL 4050-200-5-100	5	20	100	5	2645
WEMEL 4060-300	6	30	75	6	2415
WEMEL 4060-300-6-100	6	30	100	6	3105
WEMEL 4060-300-6-150	6	30	150	6	4370
WEMEL 4080-300-8-75	8	30	75	8	3300
WEMEL 4080-400-8-100	8	40	100	8	4075
WEMEL 4080-500-8-150	8	50	150	8	5520
WEMEL 4100-400-10-100	10	40	100	10	4830
WEMEL 4100-500-10-150	10	50	150	10	7475
WEMEL 4100-500-10-200	10	50	200	10	10925
WEMEL 4120-400-12-100	12	40	100	12	6785
WEMEL 4120-500-12-150	12	50	150	12	9775
WEMEL 4120-500-12-200	12	50	200	12	13685
WEMEL 4160-500-16-150	16	50	150	16	16675
WEMEL 4160-500-16-200	16	50	200	16	21550
WEMEL 4200-500-20-150	20	50	150	20	32425
WEMEL 4200-500-20-200	20	50	200	20	38925
WEMEL 4200-750-20-250	20	75	250	20	47285
WEMEL 4250-400-25-100	25	40	100	25	28355
WEMEL 4250-500-25-150	25	50	150	25	39325
WEMEL 4250-500-25-200	25	50	200	25	55885
WEMEL 4250-750-25-250	25	75	250	25	64970



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WEML Series - Micro Grain Carbide End Mill Square 0.4 Mickron Meter (Neck Length)

Model Number	Outside Diameter D	Effective Length L1	Length of Cut L2	Neck Diameter D1	Shank Taper Angel BTA	Overall Length L	Shank Diameter D2	Prices Rs.
WEML 4010-060-4	1	6	2	0.95	16	50	4	2633
WEML 4010-100-4	1	10	2	0.95	16	50	4	2633
WEML 4010-120-4	1	12	2	0.95	16	50	4	2633
WEML 4010-160-4	1	16	2	0.95	16	50	4	3208
WEML 4015-060-4	1.5	6	2	1.44	16	50	4	2633
WEML 4015-100-4	1.5	10	2	1.44	16	50	4	2633
WEML 4015-120-4	1.5	12	2	1.44	16	50	4	2633
WEML 4015-140-4	1.5	14	2	1.44	16	50	4	3208
WEML 4015-160-4	1.5	16	2	1.44	16	50	4	3208
WEML 4015-200-4	1.5	20	2	1.44	16	50	4	3350
WEML 4020-060-4	2	6	3	1.91	16	50	4	2633
WEML 4020-100-4	2	10	3	1.91	16	50	4	2633
WEML 4020-120-4	2	12	3	1.91	16	50	4	2633
WEML 4020-140-4	2	14	3	1.91	16	50	4	3208
WEML 4020-160-4	2	16	3	1.91	16	50	4	3208
WEML 4020-200-4	2	20	3	1.91	16	50	4	3350
WEML 2025-100-4	2.5	10	3	2.41	16	50	4	2633
WEML 2025-120-4	2.5	12	3	2.41	16	50	4	2633
WEML 4025-160-4	2.5	16	3	2.41	16	50	4	3208
WEML 4025-200-4	2.5	20	3	2.41	16	50	4	4120
WEML 4030-120-6	3	12	5	2.92	16	70	6	4120
WEML 4030-140-6	3	14	5	2.92	16	70	6	4120
WEML 4030-160-6	3	16	5	2.92	16	70	6	4120
WEML 4030-200-6	3	20	5	2.92	16	70	6	4120
WEML 4030-250-6	3	25	5	2.92	16	70	6	4370
WEML 4040-120-6	4	12	7	3.91	16	70	6	4120
WEML 4040-160-6	4	16	7	3.91	16	70	6	4120
WEML 4040-200-6	4	20	7	3.91	16	70	6	4120
WEML 4040-250-6	4	25	7	3.91	16	70	6	4370
WEML 4040-300-6	4	30	7	3.91	16	70	6	5175

WALE Series - Micro Grain Carbide End Mill (Non-Ferrous) 0.4 Mickron Meter

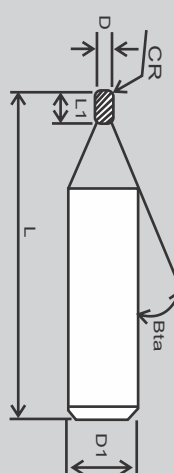
Model Number	Outside Diameter D	Length of Cut L1	Taper Angel BTA	Overall Length L	Shank Diameter D1	Prices Rs.
WALE 2010	1	3	16	50	4	1365
WALE 2015	1.5	6	16	50	4	1365
WALE 2020	2	7	16	50	4	1365
WALE 2025	2.5	9	16	50	4	1365
WALE 2030	3	12	16	50	4	1365
WALE 2040	4	12	-	50	4	1365
WALE 2050	5	15	-	50	5	1650
WALE 2060	6	15	-	64	6	1790
WALE 2070	7	19	-	64	8	2450
WALE 2080	8	19	-	64	8	2450
WALE 2090	9	25	-	75	10	4037
WALE 2100	10	25	-	75	10	4037
WALE 2110	11	30	-	75	12	5660
WALE 2120	12	30	-	75	12	5660

WCREM Series - Micro Grain Carbide End Mill Corner Radius 0.4 Mickron Meter (Standard & Long)

Model Number	Outside Diameter D	Corner Radius CR	Length of Cut L1	Overall Length L	Shank Diameter D1	Prices Rs.
WCREM 4020-05	2	R0.5	6	50	4	1350
WCREM 4030-05	3	R0.5	8	50	4	1350
WCREM 4030-08	3	R0.8	8	50	4	1350
WCREM 4040-05	4	R0.5	11	50	4	1350
WCREM 4040-10	4	R1	11	50	4	1350
WCREM 4040-10	4	R1	11	50	6	2380
WCREM 4060-05	6	R0.5	15	50	6	2380
WCREM 4060-10	6	R1	15	50	6	2380
WCREM 4060-15	6	R1.5	15	50	6	2380
WCREM 4080-05	8	R0.5	20	60	8	2950
WCREM 4080-10	8	R1	20	60	8	2950
WCREM 4080-15	8	R1.5	20	60	8	2950
WCREM 4080-20	8	R2	20	60	8	2950
WCREM 4100-05	10	R0.5	25	75	10	4600
WCREM 4100-10	10	R1	25	75	10	4600
WCREM 4100-15	10	R1.5	25	75	10	4600
WCREM 4100-20	10	R2	25	75	10	4600
WCREM 4120-05	12	R0.5	30	75	12	6555
WCREM 4120-10	12	R1	30	75	12	6555
WCREM 4120-15	12	R1.5	30	75	12	6555
WCREM 4120-20	12	R2	30	75	12	6555
WCREM 4060-05-75	6	R0.5	15	75	6	3335
WCREM 4060-10-75	6	R1	15	75	6	3335
WCREM 4060-15-75	6	R1.5	15	75	6	3335
WCREM 4080-05-75	8	R0.5	15	75	8	4025
WCREM 4080-10-75	8	R1	15	75	8	4025
WCREM 4080-15-75	8	R1.5	15	75	8	4025
WCREM 4080-20-75	8	R2	15	75	8	4025
WCREM 4100-05-100	10	R0.5	25	100	10	6325
WCREM 4100-10-100	10	R1	25	100	10	6325
WCREM 4100-15-100	10	R1.5	25	100	10	6325
WCREM 4100-20-100	10	R2	25	100	10	6325
WCREM 4120-05-100	12	R0.5	30	100	12	8625
WCREM 4120-10-100	12	R1	30	100	12	8625
WCREM 4120-15-100	12	R1.5	30	100	12	8625
WCREM 4120-20-100	12	R2	30	100	12	8625

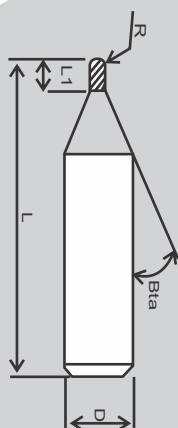
WREM Series - Micro Grain Carbide Rougher End Mill 0.4 Mickron Meter

WREM 3040	4	10	50	6	4500
WREM 4060	6	15	64	6	5500
WREM 4080	8	20	64	8	7500
WREM 4010	10	25	75	10	10800
WREM 4012	12	30	75	12	13900
WREM 4016	16	40	100	16	25300



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WBN Series - Micro Grain Carbide Ball Mill 0.4 Mickron Meter

Model Number	Radius of Ball Nose R	Length of Cut L1	Shank Taper Angel BTA	Overall Length L	Shank Diameter D	Prices Rs.
WBN 2001-0300	R0.05	0.3	16	50	4	3365
WBN 2002-0300	R0.1	0.3	16	50	4	3365
WBN 2003-0500	R0.15	0.5	16	50	4	3365
WBN 2004-0600	R0.2	0.6	16	50	4	3365
WBN 2005-800	R0.25	0.8	16	50	4	3365
WBN 2006-0100	R0.3	1	16	50	4	2850
WBN 2007-0100	R0.35	1	16	50	4	2850
WBN 2008-0120	R0.4	1.2	16	50	4	2850
WBN 2009-0120	R0.45	1.2	16	50	4	2850
WBN 2010-3-030	R0.5	3	16	50	3	1041
WBN 2015-3-040	R0.75	4	16	50	3	1041
WBN 2020-3-060	R1.0	6	16	50	3	1041
WBN 2025-3-060	R1.25	6	16	50	3	1041
WBN 2030-3-080	R1.5	8	16	50	3	1041
WBN 2010-0300	R0.5	3	16	50	4	1150
WBN 2015-0400	R0.75	4	16	50	4	1150
WBN 2020-0600	R1	6	16	50	4	1150
WBN 2020-060-4	R1	6	16	70	4	1772
WBN 2020-060-4-100	R1	6	16	100	4	2645
WBN 2020-060-6-100	R1	6	16	100	6	3500
WBN 2025-060	R1.25	6	16	50	4	1150
WBN 2030-060	R1.5	6	16	50	4	1150
WBN 2040-1200	R2	12	-	50	4	1150
WBN 2050-1500	R2.5	15	-	50	5	1713
WBN 2050-6-1500	R2.5	15	-	50	6	2059
WBN 2060-1500	R3	15	-	64	6	2059
WBN 2070-1500	R3.5	15	-	64	8	3047
WBN 2080-1600	R4	16	-	64	8	3047
WBN 2090-1800	R4.5	18	-	75	10	4255
WBN 2100-1800	R5	18	-	75	10	4255
WBN 2120-2200	R6	22	-	75	12	5520
WBN 2140-2500	R7	25	-	100	14	7475
WBN 2160-2500	R8	25	-	100	16	12650
WBN 2180-3000	R9	30	-	100	18	14956
WBN 2200-3000	R10	30	-	100	20	17020
WBN 2250-4000	R12.5	40	-	100	25	22425

WALB Series - Micro Grain Carbide Ball Mill (Non-Ferrous) 0.4 Mickron Meter

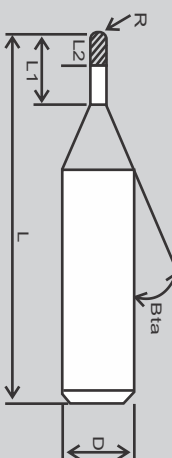
Model Number	Radius of Ball Nose R	Length of Cut L1	Taper Angel BTA	Overall Length L	Shank Diameter D	Prices Rs.
WALB 2010	R1	3	16	50	4	1510
WALB 2015	R1.5	6	16	50	4	1510
WALB 2020	R2	7	16	50	4	1510
WALB 2025	R2.5	9	16	50	4	1510
WALB 2030	R3	12	16	50	4	1510
WALB 2040	R4	12	-	50	4	1510
WALB 2050	R5	15	-	50	5	1930
WALB 2060	R6	15	-	64	6	2150
WALB 2070	R7	19	-	64	8	2900
WALB 2080	R8	19	-	64	8	2900
WALB 2090	R9	25	-	75	10	4100
WALB 2100	R10	25	-	75	10	4100
WALB 2110	R11	30	-	75	12	5800
WALB 2120	R12	30	-	75	12	5800

WBNEL Series - Micro Grain Carbide Ball Mill 0.4 Mickron Meter

Model Number	Radius of Ball Nose R	Length of Cut L1	Shank Taper Angel BTA	Overall Length L	Shank Diameter D	Prices Rs.
WBNEL 2020-0500-4	R1	5	16	75	4	2080
WBNEL 2020-0500-4-100	R1	5	16	100	4	2700
WBNEL 2020-0500-6	R1	5	16	75	6	3300
WBNEL 2020-0500-6-100	R1	5	16	100	6	3700
WBNEL 2025-0500-4	R1.25	5	16	75	4	2080
WBNEL 2025-0500-4-100	R1.25	5	16	100	4	2700
WBNEL 2025-0500-6	R1.25	5	16	75	6	3300
WBNEL 2025-0500-6-100	R1.25	5	16	100	6	3700
WBNEL 2030-0120-3	R1.5	12	-	75	3	1890
WBNEL 2030-0120-3-100	R1.5	12	-	100	3	2500
WBNEL 2030-0800-6	R1.5	8	16	75	6	3300
WBNEL 2030-0800-6-100	R1.5	8	16	100	6	3700
WBNEL 2040-0120-4	R2	12	-	75	4	2080
WBNEL 2040-0120-4-100	R2	12	-	100	4	2700
WBNEL 2040-0120-6	R2	12	16	75	6	3300
WBNEL 2040-0120-6-100	R2	12	16	100	6	3700
WBNEL 2050-0120-5	R2.5	12	-	75	5	2375
WBNEL 2050-0120-5-100	R2.5	12	-	100	5	2900
WBNEL 2050-0120-6	R2.5	12	16	75	6	2600
WBNEL 2050-0120-6-100	R2.5	12	16	100	6	3500
WBNEL 2060-0120-6	R3	12	-	75	6	2900
WBNEL 2060-0120-6-100	R3	12	-	100	6	3500
WBNEL 2060-0160-6-150	R3	16	-	150	6	4800
WBNEL 2080-0160-8-100	R4	16	-	100	8	7200
WBNEL 2080-0200-8-150	R4	20	-	150	8	7200
WBNEL 2100-0220-10-100	R5	22	-	100	10	9775
WBNEL 2100-0250-10-150	R5	25	-	150	10	9055
WBNEL 2120-0250-12-100	R6	25	-	100	12	13110
WBNEL 2120-0300-12-150	R6	30	-	150	12	22000
WBNEL 2160-0300-16-150	R8	30	-	150	16	22000

WBNL Series - Micro Grain Carbide Ball Mill (Neck Length) 0.4 Mickron Meter

Model Number	Radius of Ball Nose R	Effective Length L1	Length of Cut L2	Neck Diameter D1	Taper Angel BTA	Overall Length L	Shank Diameter D	Prices Rs.
WBNL 2010-050-4	R0.5	5	2	0.96	16	50	4	2350
WBNL 2010-080-4	R0.5	8	2	0.96	16	50	4	2350
WBNL 2010-120-4	R0.5	12	2	0.96	16	50	4	2350
WBNL 2015-060-4	R0.75	6	2	1.41	16	50	4	2350
WBNL 2015-100-4	R0.75	10	2	1.41	16	50	4	2350
WBNL 2015-140-4	R0.75	14	2	1.41	16	50	4	2750
WBNL 2020-060-4	R1	6	2	1.94	16	50	4	2350
WBNL 2020-100-4	R1	10	2	1.94	16	50	4	2350
WBNL 2020-160-4	R1	16	2	1.94	16	50	4	2750
WBNL 2020-200-4	R1	20	2	1.94	16	50	4	2900
WBNL 2025-080-4	R1.25	8	3	2.41	16	50	4	2350
WBNL 2025-150-4	R1.25	15	3	2.41	16	50	4	2750
WBNL 2030-080-4	R1.5	8	3	2.91	16	70	6	3350
WBNL 2030-120-6	R1.5	12	3	2.91	16	70	6	3350
WBNL 2030-160-6	R1.5	16	3	2.91	16	70	6	3800
WBNL 2030-200-6	R1.5	20	3	2.91	16	70	6	3800
WBNL 2040-100-6	R2	10	4	3.91	16	70	6	3350
WBNL 2040-160-6	R2	16	4	3.91	16	70	6	3800
WBNL 2040-200-6	R2	20	4	3.91	16	70	6	3800



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CARBIDE INSERT

Insert Name	Chip Breaker	Carbide Grade	Price Rs.
TNMG 160408	MH	WZ030	325
TNMG 160404	MH	WZ030	325
TNMA 160408	MH	WZ030	325
CNMG 120408	MH	WZ030	390
CNMG 120404	MH	WZ030	390
CNMG 120412	MH	WZ030	390
CNMA 120408	MH	WZ030	390
CNMA 120412	MH	WZ030	390
VNMG 160408	MH	WZ030	450
VNMG 160404	MH	WZ030	450
VBMT 160408	MH	WZ030	490
VBMT 160404	MH	WZ030	490
DNMG 150608	MH	WZ030	490
DNMG 150604	MH	WZ030	490
DCMT 11T308	MH	WZ030	365
DCMT 11T304	MH	WZ030	365
DCMT 070208	MH	WZ030	365
DCMT 070404	MH	WZ030	325
CCMT 09T308	MH	WZ030	325
CCMT 09T304	MH	WZ030	325
CCMT 09T302	MH	WZ030	325
CCMT 060204	MH	WZ030	280
CCMT 060208	MH	WZ030	280
CCMT 060202	MH	WZ030	280
TCMT 110208	MH	WZ030	325
TCMT 110204	MH	WZ030	325
TPMT 110308	MH	WZ030	325
TPMT 110304	MH	WZ030	325

CERMET INSERT

Insert Name	Chip Breaker	Cermet Grade	Price Rs.
TNMG 160408	KT	WZC10	325
TNMG 160404	KT	WZC10	325
TNMA 160408	KT	WZC10	325
CNMG 120408	KT	WZC10	390
CNMG 120404	KT	WZC10	390
CNMG 120412	KT	WZC10	390
CNMA 120408	KT	WZC10	390
CNMA 120412	KT	WZC10	390
VNMG 160408	KT	WZC10	450
VNMG 160404	KT	WZC10	450
VBMT 160408	KT	WZC10	490
VBMT 160404	KT	WZC10	490
DNMG 150608	KT	WZC10	490
DNMG 150604	KT	WZC10	490
DCMT 11T308	KT	WZC10	365
DCMT 11T304	KT	WZC10	365
DCMT 070208	KT	WZC10	365
DCMT 070404	KT	WZC10	325
CCMT 09T308	KT	WZC10	325
CCMT 09T304	KT	WZC10	325
CCMT 09T302	KT	WZC10	325
CCMT 060204	KT	WZC10	280
CCMT 060208	KT	WZC10	280
CCMT 060202	KT	WZC10	280
TCMT 110208	KT	WZC10	325
TCMT 110204	KT	WZC10	325
TPMT 110308	KT	WZC10	325
TPMT 110304	KT	WZC10	325

CERMET INSERT

Insert Name	Chip Breaker	Cermet Grade	Price Rs.
TNMG 160408	KG	WZC10C	350
TNMG 160404	KG	WZC10C	350
TNMA 160408	KG	WZC10C	350
CNMG 120408	KG	WZC10C	425
CNMG 120404	KG	WZC10C	425
CNMG 120412	KG	WZC10C	425
CNMA 120408	KG	WZC10C	425
CNMA 120412	KG	WZC10C	425
VNMG 160408	KG	WZC10C	465
VNMG 160404	KG	WZC10C	465
VBMT 160408	KG	WZC10C	500
VBMT 160404	KG	WZC10C	500
DNMG 150608	KG	WZC10C	500
DNMG 150604	KG	WZC10C	500

Insert Name	Chip Breaker	Cermet Grade	Price Rs.
DCMT 11T308	KG	WZC10C	380
DCMT 11T304	KG	WZC10C	380
DCMT 070208	KG	WZC10C	380
DCMT 070404	KG	WZC10C	380
CCMT 09T308	KG	WZC10C	350
CCMT 09T304	KG	WZC10C	350
CCMT 09T302	KG	WZC10C	350
CCMT 060204	KG	WZC10C	300
CCMT 060208	KG	WZC10C	300
CCMT 060202	KG	WZC10C	300
TCMT 110208	KG	WZC10C	350
TCMT 110204	KG	WZC10C	350
TPMT 110308	KG	WZC10C	350
TPMT 110304	KG	WZC10C	350

PCBN INSERTS

Insert Name	Cutting Edge Multi Tipped	Cutting Edge Braze Type	Prices Rs. Multi Tipped	Prices Rs. Braze Type	Regular Cutting Grade
CNGA 120408	2 CE	4 CE	3500	5500	WHM10
CNGA 120404	2 CE	4 CE	3500	5500	WHM10
TNGA 160408	3 CE	6 CE	4500	7500	WHM10
TNGA 160404	3 CE	6 CE	4500	7500	WHM10
DNGA 150608	2 CE	4 CE	4500	5500	WHM10
DNGA 150604	2 CE	4 CE	4500	5500	WHM10
VNGA 160408	2 CE	4 CE	4500	5500	WHM10
VNGA 160404	2 CE	4 CE	4500	5500	WHM10
WNGA 080408	3 CE	6 CE	4500	7500	WHM10
WNGA 080404	3 CE	6 CE	4500	7500	WHM10
DCGW 11T308	1 CE	2 CE	2900	3700	WHM10
DCGW 11T304	1 CE	2 CE	2900	3700	WHM10
DCGW 070204	1 CE	2 CE	2900	3700	WHM10
DCGW 070204	1 CE	2 CE	2900	3700	WHM10
TPGW 110308	1 CE	3 CE	2900	4500	WHM10
TPGW 110304	1 CE	3 CE	2900	4500	WHM10
TCMW 110208	1 CE	3 CE	2900	4500	WHM10
TCMW 110204	1 CE	3 CE	2900	4500	WHM10
CCMW 09T304	1 CE	2 CE	2900	3700	WHM10
CCMW 09T308	1 CE	2 CE	2900	3700	WHM10
CCMW 060204	1 CE	2 CE	2900	3700	WHM10
CCMW 060208	1 CE	2 CE	2900	3700	WHM10

PCD INSERTS

Insert Name	Grade	Price Rs.
CNGA 120408	WAL	4500
CNGA 120404	WAL	4500
TNGA 160408	WAL	4500
TNGA 160404	WAL	4500
DNGA 150608	WAL	4500
DNGA 150604	WAL	4500
VNGA 160408	WAL	4500
VNGA 160404	WAL	4500
WNGA 080408	WAL	4500
WNGA 080404	WAL	4500
DCGW 11T308	WAL	3800
DCGW 11T304	WAL	3800
DCGW 070204	WAL	3500
DCGW 070204	WAL	3500
TPGW 110308	WAL	3500
TPGW 110304	WAL	3500
TCMW 110208	WAL	3500
TCMW 110204	WAL	3500
CCMW 09T304	WAL	3500
CCMW 09T308	WAL	3500
CCMW 060204	WAL	3500
CCMW 060208	WAL	3500

U-DRILL INSERTS

Insert Name	Grade	Price Rs.
SPMG 050204 SG	WZ030	350
SPMG 060204 SG	WZ030	390
SPMG 07T308 SG	WZ030	450
SPMG 090308 SG	WZ030	550
SPMG 110408 SG	WZ030	600

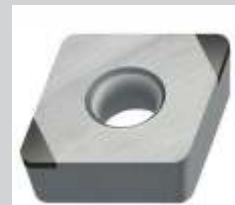
ALLUMINIUM INSERTS

Insert Name	Grade	Price Rs.
TNGG 160404 PK	WAL01	450
TNGG 160402 PK	WAL01	450
CNGG 120404 PK	WAL01	500
CNGG 120402 PK	WAL01	500
VCGT 160402 PK	WAL01	650
VCGT 160404 PK	WAL01	650
TCGT 110202 PK	WAL01	390
TCGT 110204 PK	WAL01	390
CCGT 09T302 PK	WAL01	390
CCGT 09T304 PK	WAL01	390
CCGT 060202 PK	WAL01	350
CCGT 060204 PK	WAL01	350
DCGT 11T302 PK	WAL01	390
DCGT 11T304 PK	WAL01	390
DCGT 070202 PK	WAL01	350
DCGT 070204 PK	WAL01	350

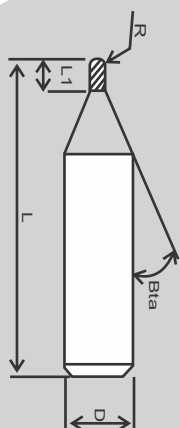
MILLING INSERTS

Insert Name	Grade	Price Rs.
APMT 1135 PDER - P2	WZ030	450
APMT 1135 PDER- JH	WZ030	450
APMT 1604 PDER - P2	WZ030	650
APMT 1604 PDER - JH	WZ030	650
RPMT 1204 MOE - PP	WZ030	550
APKT 1705 PDER- PP	WZ030	750
RDMT 1204 MOT	WZ030	550
RPMT 1003 MOT- PP	WZ030	450
RPMT 10T3 MOT- PP	WZ030	450

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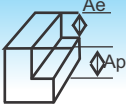


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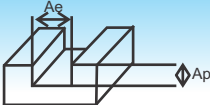


CUTTING DATA PARAMETERS

1. Side Milling Extra Long 2/4 Flutes

Shape of Cut				$Ae \leq 0.1 D (D \leq \phi 3)$ $Ae \leq 0.2 D (D > \phi 3)$ $Ae \leq 1.5 D$			$Ae \leq 0.05 D$ $AP \leq 1.00 D$		
	Carbon steel, Castiron AISI 1049, SCM, FC250 (~30HRC)			Alloy Steel, Die Steel, Pre-Hardened Steel AISI H13, NAK (<45HRC)			Hardened Steel AISI H13 (~55HRC)		
D (mm)	Rev (min ⁻¹)	Cutting Speed (mm/min)		Rev (min ⁻¹)	Cutting Speed (mm/min)		Rev (min ⁻¹)	Cutting Speed (mm/min)	
		2 Flutes	4 Flutes		2 Flutes	4 Flutes		2 Flutes	4 Flutes
1	15000	300	450	10000	200	300	7500	60	90
2	7500	300	450	5000	200	300	4000	60	90
3	5000	300	450	3500	200	300	2500	60	90
4	3750	300	450	2600	200	300	2000	60	90
5	3000	300	450	2100	200	300	1600	60	90
6	2500	300	450	1750	200	300	1350	60	90
8	2000	260	390	1400	175	260	1000	55	80
10	1600	225	340	1100	150	225	800	50	70
12	1350	205	310	950	135	205	650	50	60
16	1000	180	275	700	115	175	500	65	85
20	800	160	245	550	110	170	400	65	70

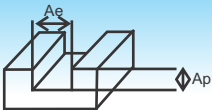
2. Slotting Extra Long 2/4 Flutes

Shape of Cut				$Ae = D (D \leq \phi 3)$ $Ae \leq 0.1 D (D > \phi 2)$ $AP \leq 0.2 D (D > \phi 2)$			$Ae = D$ $AP \leq 0.05 D (\phi 0.5 \leq D \leq \phi 2)$ $AP \leq 0.10 (D > \phi 2)$		
	Carbon steel, Castiron AISI 1049, SCM, FC250 (~30HRC)			Alloy Steel, Die Steel, Pre-Hardened Steel AISI H13, NAK (~45HRC)			Hardened Steel AISI H13 (~55HRC)		
D (mm)	Rev (min ⁻¹)	Cutting Speed (mm/min)		Rev (min ⁻¹)	Cutting Speed (mm/min)		Rev (min ⁻¹)	Cutting Speed (mm/min)	
		2 Flutes	4 Flutes		2 Flutes	4 Flutes		2 Flutes	4 Flutes
1	15000	240	360	10000	160	240	7500	48	72
2	7500	240	360	5000	160	240	4000	48	72
3	5000	240	360	3500	160	240	2500	48	72
4	3750	240	360	2600	160	240	2000	48	72
5	3000	240	360	2100	160	240	1600	48	72
6	2500	240	360	1750	160	240	1350	48	72
8	2000	208	312	1400	140	208	1000	44	64
10	1600	180	272	1100	120	180	800	40	56
12	1350	164	248	950	108	164	650	40	48
16	1000	144	220	700	92	144	500	52	68
20	800	128	196	550	88	136	400	44	56

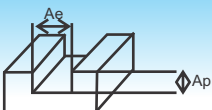
1. Use rigid and precise machine and tool holder.
2. If chattering and noise occur due to the rigidity of machine or the work material installation is very low, please reduce the revolution and the feed rate proportionately.
3. In drilling, please set the feed rate at 1/3 or below.
4. When cutting stainless steel, please use fluid; when cutting Austenitic stainless steel, non-water-soluble cutting fluid is very effective.

CUTTING DATA PARAMETERS

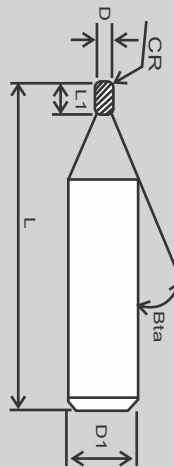
1. Side Milling Standard 2/4 Flutes

Shape of Cut	 $A_e \leq 0.1D \ (D > 3)$ $A_e \leq 0.2D \ (D > \phi 3)$ $A_e \leq 1.5D$						$A_e \leq 0.05$ $AP \leq 1.00D$		
Work Material	Carbon steel, Castiron AISI 1049, SCM, FC250 (~30HRC)			Alloy Steel, Die Steel, Pre-Hardened Steel AISI H13, NAK (<45HRC)			Hardened Steel AISI H13 (<55HRC)		
D (mm)	Rev (min ⁻¹)	Cutting Speed (mm/min)		Rev (min ⁻¹)	Cutting Speed (mm/min)		Rev (min ⁻¹)	Cutting Speed (mm/min)	
		2 Flutes	4 Flutes		2 Flutes	4 Flutes		2 Flutes	4 Flutes
1	24000	480	720	16000	320	480	12000	96	144
2	12000	480	720	8000	320	480	6400	96	144
3	8000	480	720	5600	320	480	4000	96	144
4	6000	480	720	4160	320	480	3200	96	144
5	4800	480	720	3360	320	480	2560	96	144
6	4000	480	720	2800	320	480	2160	96	144
8	3200	416	624	2240	290	416	1600	88	128
10	2560	360	544	1760	240	360	1280	80	112
12	2160	328	496	1520	216	328	1040	80	96
16	1600	288	440	1120	184	280	800	104	136
20	1280	256	392	880	176	272	640	88	112

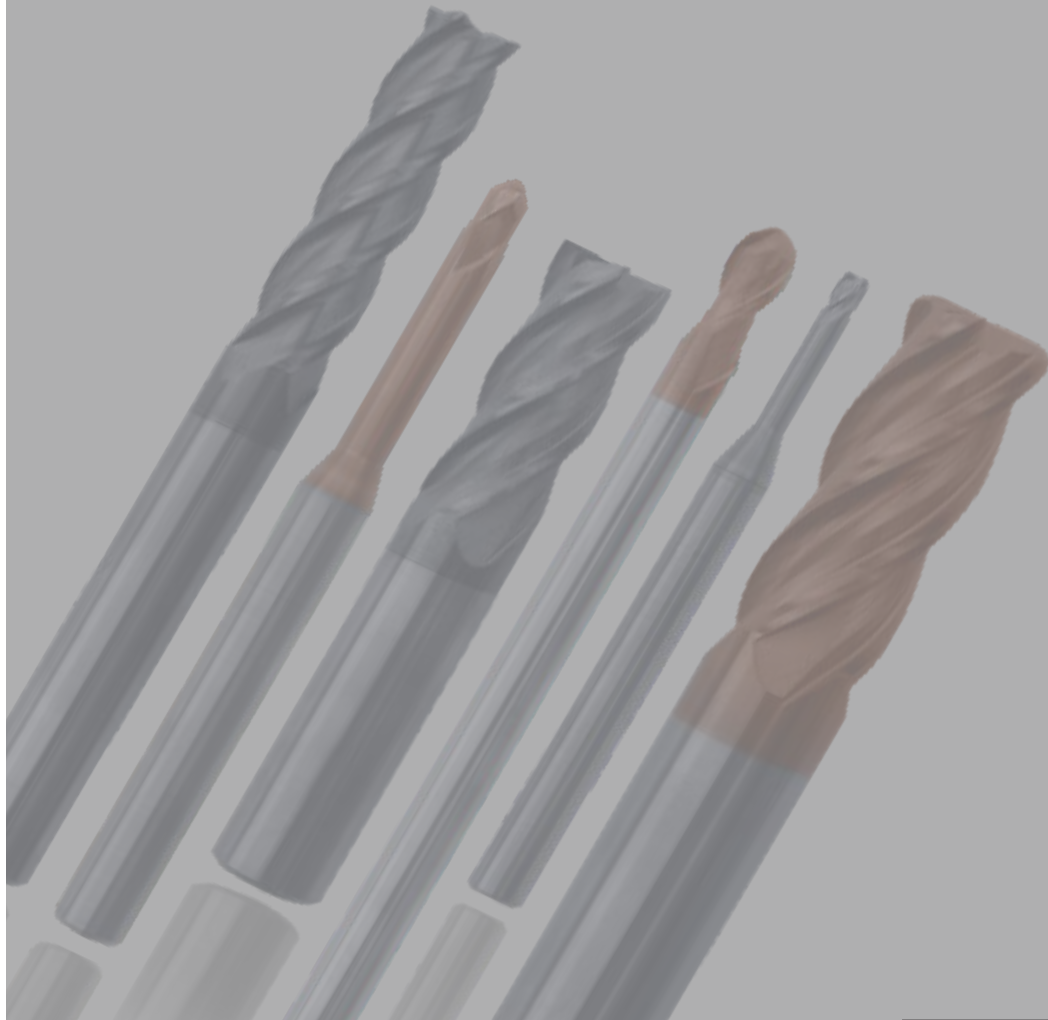
2. Slotting Standard 2/4 Flutes

Shape of Cut	 $A_e = D \ (D \leq \phi 3)$ $A_e \leq 0.1D \ (D > \phi 2)$ $AP \leq 0.2D \ (D > \phi 2)$						$A_e = D$ $AP \leq 0.05D \ (\phi 0.5 \leq D \leq \phi 2)$ $AP \leq 0.10 \ (D > \phi 2)$		
Work Material	Carbon steel, Castiron AISI 1049, SCM, FC250 (~30HRC)			Alloy Steel, Die Steel, Pre-Hardened Steel AISI H13, NAK (<45HRC)			Hardened Steel AISI H13 (<55HRC)		
D (mm)	Rev (min ⁻¹)	Cutting Speed (mm/min)		Rev (min ⁻¹)	Cutting Speed (mm/min)		Rev (min ⁻¹)	Cutting Speed (mm/min)	
		2 Flutes	4 Flutes		2 Flutes	4 Flutes		2 Flutes	4 Flutes
1	24000	384	576	16000	256	384	12000	77	116
2	12000	384	576	8000	256	384	6400	77	116
3	8000	384	576	5600	256	384	4000	77	116
4	6000	384	576	4160	256	384	3200	77	116
5	4800	384	576	3360	256	384	2560	77	116
6	4000	384	576	2800	256	384	2160	77	116
8	3200	333	500	2240	224	333	1600	71	103
10	2560	288	436	1760	192	288	1280	64	90
12	2160	363	397	1520	173	263	1040	64	77
16	1600	231	352	1120	148	224	800	84	109
20	1280	205	314	880	141	218	640	71	90

1. Use rigid and precise machine and tool holder.
2. If chattering and noise occur due to the rigidity of machine or the work material installation is very low, please reduce the revolution and the feed rate proportionately.
3. In drilling, please set the feed rate at 1/3 or below.
4. When cutting stainless steel, please use fluid; when cutting Austenitic stainless steel, non-water-soluble cutting fluid is very effective.



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