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SERIES GROUP	Series	Dia Range	Page No.	Stock	# of Flutes	Coated	Description	Low Carbon Steel	Alloy Steel (up to 35 Rc)	Alloy Steel (36-48Rc)	Austenitic Stainless Steel	Precipitation Hardened Stainless	High Temp Alloys	Titanium	Gray Cast Iron	Ductile Cast Iron	Hardened Materials	Non-Ferrous	MDF / Hard WOOD	
HP-SUS	222	3-20	3	Yes	4	NOVA	Carbide SUS Series 4F End Mills NOVA Coated	1st	1st	2nd	1st	2nd			1st	1st	2nd	2nd		
	322	3-20	3	Yes	4	NOVA	Carbide SUS Series 4F End Mills NOVA Coated	2nd	1st	1st	1st	1st		2nd	2nd	1st	2nd	2nd		
	321	3-20	4	Yes	4	NOVA	Carbide SUS Series 4F Radius End Mills NOVA Coated	1st	1st	1st	1st	1st	2nd	2nd	1st	1st	2nd	2nd		
HP-VHEM	334	6-20	5	Yes	4	AL-Pro	Carbide HP 4-Flute VHEM AL-Pro Coated (ECC.)													
	330	4-20	5	Yes	4	AL-Pro	Carbide HP 4-Flute VHEM End Mills AL-Pro Coated	1st	1st	1st	1st	1st	2nd	2nd		1st		2nd		
	333	6-20	5	Yes	5	AL-Pro	Carbide HP 5-Flute VHEM End Mills AL-Pro Coated		1st	1st	1st	1st	2nd	1st				2nd		
	430	4-20	6	++	4	AL-Pro	Carbide HP 4-Flute VHEM End Mills AL-Pro Coated		2nd	1st	2nd	1st	1st	1st				2nd		
	433	6-20	6	++	5	AL-Pro	Carbide HP 5-Flute VHEM End Mills AL-Pro Coated		2nd	1st	2nd	1st	1st	1st				2nd		
HP-4X	401	1-12	7	Yes	4	NOVA	Carbide 4F Flat End Mills up to 70HRc with NOVA Coated											<70HRc		
	402	1-12	7	Yes	2	NOVA	Carbide 2F Ball Nose up to 70HRc with NOVA Coated											<70HRc		
	406	2-12	8	++	2	NOVA	Carbide 2F Ball Nose with Taper Neck up to 70HRc (NOVA Coated)											<70HRc		
HP-3X	301	2-16	9	Yes	4	NOVA	Carbide 4F End Mills up to 60HRc with NOVA Coated			2nd	2nd	2nd						<60HRc		
	302	3-16	10	Yes	4	NOVA	Carbide 4F Ball Nose up to 60HRc with NOVA Coated		1st	1st	1st	2nd						<60HRc		
	304	1-12	11	Yes	2	NOVA	Carbide 2F Ball Nose up to 60HRc with NOVA Coated			2nd	1st	2nd						<60HRc		
	305	1-4	12	Yes	2	NOVA	Carbide 2F Rib Processing End Mills up to 60HRc with NOVA Coated	1st	1st	1st	1st	1st						<60HRc		
	306	1-4	12	Yes	2	NOVA	Carbide 2F Rib Processing Ball Nose up to 60HRc with NOVA Coated	1st	1st	1st	1st	1st						<60HRc		
	307	2-12	13	++	2	NOVA	Carbide 2F Ball Nose with Taper Neck up to 60HRc with NOVA Coated	1st	1st	1st	1st	1st						<60HRc		
	308	6-20	13	++	6	NOVA	Carbide 6F Radius End Mills up to 60HRc	1st	1st	1st	1st	1st	2nd	1st				<60HRc		
GP-1X	201	3-25	14	Yes	4	TIALN	Carbide 4F Flat End Mills with TIALN Coated	1st	2nd	2nd	2nd				1st	2nd		2nd	2nd	
	202	3-20	15	Yes	4	TIALN	Carbide 4F Ball Nose with TIALN Coated	1st	2nd	2nd	2nd				1st	2nd		2nd	2nd	
	204	3-12	16	Yes	2	TIALN	Carbide 2F Ball Nose with TIALN Coated	1st	2nd						1st	2nd		2nd	2nd	
	205	1-20	17	Yes	4	HYPERLOX	Carbide 4F Flat End Mills up to 50HRc with Hyperlox Coated		2nd	1st	2nd								<55HRc	
	206	1-16	17	Yes	2	HYPERLOX	Carbide 2F Ball Nose upto 50HRc		1st	1st	2nd								<55HRc	
	207	2-10	18	++	4	TIALN	Carbide 1X Taper End Mills with TIALN Coated	1st	1st	2nd	2nd	2nd	2nd	2nd	2nd	1st	1st		1st	1st
	208	2-10	18	++	4	TIALN	Carbide 1X Taper Ball Nose with TIALN Coated	1st	1st	2nd	2nd	2nd	2nd	2nd	2nd	1st	1st		1st	1st
	211	2-20	19	Yes	2	-	Carbide 2F High Helix End Mill for Aluminum Alloys												1st	1st
	213	2-20	19	Yes	3	-	Carbide 3F High Helix End Mill for Aluminum Alloys												1st	1st
	212	3-20	20	++	2	-	Carbide 2F High Helix Ball Nose for Aluminum Alloys												1st	1st
	215	4-16	20	++	4	TIALN	Carbide Countersink with TIALN Coated	1st	1st	1st	1st	1st	2nd	2nd	1st	1st			1st	1st
219	3-12	21	+	1	-	Carbide Uncoated Engraving Bit V-shape	1st	1st	1st	1st					1st	1st	1st	1st	1st	
GP-0X	101	2-25	22	Yes	4	TIALN	Carbide GP-4F Flat End Mills with TIALN Coated	2nd	2nd						2nd	2nd		2nd	2nd	
	102	3-20	23	Yes	4	TIALN	Carbide GP-4F Ball Nose with TIALN Coated	2nd	2nd						2nd	2nd		<50HRc	2nd	2nd
	103	1-12	24	Yes	2	-	Carbide 2F TIALN Coated Flat End Mills for Wood	2nd	2nd									2nd	1st	
	104	1-12	25	Yes	2	-	Carbide 2F Uncoated Ball Nose for Wood	2nd	2nd										2nd	1st
	107	3-16	26	Yes	1	-	Carbide 1F End Mills for Wood, MDF & Non Ferrous												1st	1st
	108	1-4	27	+	2	-	Carbide 2F Taper End Mills for Wood, Plastics, Non-Ferrous	2nd								2nd			1st	1st
	109	1-4	27	+	2	-	Carbide GP-2F Taper Ball Nose for Wood, Plastics, Non-Ferrous	2nd								2nd			1st	1st
	110	3-20	28	Yes	4	TIALN	Carbide 4F Flat End Mills with TIALN Coated up to 45HRc	2nd	2nd							2nd			<50HRc	
	112	6-12	29	++	2	-	Carbide 2-F Down-Cut Bits for Plywood, Laminates												2nd	1st
	114	6-12	29	++	2	-	Carbide 2-F Compression Bits for Plywood, Laminates												2nd	1st
	118	3-12	29	Yes	2	-	Carbide 2F Straight Flutes End Mill for Hard Wood												2nd	1st
	119	3-12	21	Yes	1	-	Carbide Uncoated Engraving Bit V-shape												2nd	1st
	121	3-20	30	++	4	NOVA	Carbide 4F Radius End Mills NOVA Coated	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd			
122	3-20	30	++	4	NOVA	Carbide 4F Flat End Mills with NOVA Coated	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd				

\* Always use HP end mills over GP end mills for better performance and productivity

Delivery time	
+	1 Week
++	2 Week
+++	3 Week
GP - General Purpose End Mills	
HP - High Performance End Mills	

1st	1st Choice
2nd	2nd Choice



Terms & Conditions (Carbide End Mills)
1. GST will be charged Extra as Applicable
2. Delivery time for Uncoated Non-stock Series / Items 1-week, For coated Non-stock Series / Items 2-weeks
3. MOQ for Non-stock Items/ series : 1~3.9mm - 20nos , 4~9.9mm - 10nos , 10~16mm - 5nos , Above 16mm - 2nos    <b>*Stock Items are defined as items with ROL Level In the RIGPL stock system*</b>
4. We also manufacture Special Sizes in Carbide End Mills with Special Tolerances
5. Different Coateds available on request with associated MOQ
6. Always use HP end mills over GP end mills for higher productivity and better CPC gains

Safe use of cutting tools
<i>• Use safety cover, safety glasses and safety shoes during operation.</i>
<i>• Do not touch cutting edges with bare hands.</i>
<i>• Do not touch cutting chips with bare hands. Chips will be hot after cutting.</i>
<i>• Stop cutting when the tool becomes dull.</i>
<i>• Stop cutting operation immediately if you hear any abnormal cutting sounds.</i>
<i>• Do not modify tools.</i>
<i>• Please use appropriate tools for the operation. Check dimensions to ensure proper selection.</i>

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Series	<a href="#">222</a>	Carbide SUS Series 4F End Mills NOVA Coated			
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CR1AHSE00LH3	3	12	50	4	₹ 1,290
CR1AHSE00SL7	3	12	75	3	₹ 1,290
CR1AHSE00MR0	3.5	15	50	4	₹ 1,332
CR1AHSE00MS7	4	15	50	4	₹ 1,290
CR1AHSE00LJ8	4	16	50	6	₹ 1,563
CR1AHSE00MT5	4	25	75	4	₹ 1,848
CR1AHSE00MU3	4.5	15	50	4.5	₹ 1,500
CR1AHSE00MV1	4.5	25	75	4.5	₹ 2,034
CR1AHSE00PE5	5	16	50	5	₹ 1,377
CR1AHSE00MJ7	5	16	50	6	₹ 1,563
CR1AHSE00N37	5.5	16	50	5.5	₹ 1,500
CR1AHSE00MW9	5.5	25	75	5.5	₹ 2,034
CR1AHSE00MX6	5.5	35	100	5.5	₹ 2,454
CR1AHSE00LK6	6	16	50	6	₹ 1,470
CR1AHSE00MY4	6	20	60	6	₹ 1,908
CR1AHSE00LL4	6	25	75	6	₹ 1,908
CR1AHSE00SZ6	6	40	100	6	₹ 2,553
222065060-N	6.5	20	60	6.5	₹ 2,253
CR1AHSE00LM2	8	20	60	8	₹ 2,070
CR1AHSE00LN9	8	30	75	8	₹ 2,529
CR1AHSE00LP5	8	40	100	8	₹ 3,162
CR1AHSE00LQ3	10	30	75	10	₹ 3,300
CR1AHSE00LR1	10	40	100	10	₹ 4,134
CR1AHSE00LS8	12	30	75	12	₹ 4,329
CR1AHSE00LT6	12	40	100	12	₹ 5,538
CR1AHSE00LU4	14	40	100	14	₹ 7,398
CR1AHSE00LV2	16	50	100	16	₹ 9,333
CR1AHSE00LW0	20	50	100	20	₹ 13,731



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Series	<a href="#">322</a>	Carbide SUS Series 4F End Mills NOVA Coated			
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CR3AHSE00LZ9	3	12	50	4	₹ 1,419
CR3AHSE00M00	4	16	50	6	₹ 1,797
CR3AHSE00PF9	4	20	75	6	₹ 2,229
CR3AHSE00MK1	5	16	50	6	₹ 1,797
CR3AHSE00M18	6	16	50	6	₹ 1,731
CR3AHSE00M26	6	25	75	6	₹ 2,139
CR3AHSE00M34	8	20	60	8	₹ 2,508
CR3AHSE00M42	8	30	75	8	₹ 2,814
CR3AHSE00M59	8	40	100	8	₹ 3,435
CR3AHSE00M67	10	30	75	10	₹ 3,855
CR3AHSE00M75	10	40	100	10	₹ 4,764
CR3AHSE00M83	12	30	75	12	₹ 5,211
CR3AHSE00MA3	12	40	100	12	₹ 6,330
CR3AHSE00MB1	14	40	100	14	₹ 8,541
CR3AHSE00MD6	16	50	100	16	₹ 10,326
CR3AHSE00MM7	18	40	100	18	₹ 12,906
CR3AHSE00ME4	20	50	100	20	₹ 15,429



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Series	Carbide SUS Series 4F Radius End Mills NOVA Coated					
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	Corner Radius (R)	PL-53
CR3AHC00G8	3	12	50	4	0.5	₹ 1,590
CR3AHC00Z6	3	12	50	4	1	₹ 1,590
CR3AHC0016	4	16	50	6	0.5	₹ 1,938
CR3AHC00L7	4	16	50	6	1	₹ 1,938
CR3AHC00F0	5	16	50	6	0.5	₹ 1,995
CR3AHC00H6	5	16	50	6	1	₹ 1,995
CR3AHC0024	6	16	50	6	0.5	₹ 1,923
CR3AHC0032	6	25	75	6	0.5	₹ 2,379
CR3AHC00K9	6	16	50	6	1	₹ 1,923
CR3AHC00P8	8	20	60	8	0.5	₹ 2,658
CR3AHC00N2	8	30	75	8	0.5	₹ 2,985
CR3AHC0040	8	20	60	8	1	₹ 2,658
CR3AHC0057	8	30	75	8	1	₹ 2,985
CR3AHC0065	8	40	100	8	1	₹ 3,648
CR3AHC00J1	10	30	75	10	0.5	₹ 4,164
CR3AHC0099	10	30	75	10	1	₹ 4,164
CR3AHC00D4	10	40	100	10	1	₹ 5,013
CR3AHC0073	10	30	75	10	1.5	₹ 4,164
CR3AHC0081	10	40	100	10	1.5	₹ 5,013
CR3AHC00M5	12	30	75	12	0.5	₹ 5,334
CR3AHC00B9	12	30	75	12	1	₹ 5,334
CR3AHC00E2	12	40	100	12	1	₹ 6,477
CR3AHC00A1	12	30	75	12	1.5	₹ 5,334
CR3AHC00C7	12	40	100	12	1.5	₹ 6,477
CR3AHC00U7	14	40	100	14	2	₹ 8,742
CR3AHC00Y8	16	40	100	16	1	₹ 10,866
CR3AHC00V5	16	40	100	16	2	₹ 10,866
CR3AHC00W3	18	40	100	18	2	₹ 13,581
321200100R2.0-N	20	50	100	20	2	₹ 16,236



Series	334		Carbide HP 4-Flute VHEM AL-Pro Coated (ECC.)		
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
334060050-A	6	16	50	6	₹ 1,815
334060060-A	6	20	60	6	₹ 2,007
334060075-A	6	25	75	6	₹ 2,241
334060100-A	6	30	100	6	₹ 2,781
334080060-A	8	20	60	8	₹ 2,649
334080075-A	8	30	75	8	₹ 2,973
334080100-A	8	40	100	8	₹ 3,597
334100075-A	10	30	75	10	₹ 4,038
334100100-A	10	45	100	10	₹ 4,854
334120075-A	12	30	75	12	₹ 5,310
334120100-A	12	45	100	12	₹ 6,450
334140100-A	14	50	100	14	₹ 8,622
334160100-A	16	50	100	16	₹ 10,422
334180100-A	18	50	100	18	₹ 13,029
334200100-A	20	50	100	20	₹ 15,579



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Series	330		Carbide HP 4-Flute VHEM End Mills AL-Pro Coated			
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	Corner Radius (R)	PL-53
CR35HVH000B3	4	10	54	6	R0.3	₹ 1,980
CR35HVH00150	5	16	50	6	R0.3	₹ 1,980
CR35HVH00135	4.5	12	50	6	R0.3	₹ 1,980
CR35HVH00143	5.5	12	50	6	R0.3	₹ 1,980
CR35HVH00168	6	12	50	6	R0.3	₹ 1,701
CR35HVH00010	6	12	63	6	R0.3	₹ 1,980
CR35HVH00028	8	19	63	8	R0.5	₹ 2,760
CR35HVH00036	10	22	72	10	R0.5	₹ 4,242
CR35HVH00044	12	26	80	12	R0.75	₹ 5,577
CR35HVH00085	14	26	80	14	R0.75	₹ 7,545
CR35HVH00051	16	32	92	16	R0.30	₹ 10,527
CR35HVH00093	16	32	92	16	R0.75	₹ 10,527
330180100-A	18	34	100	18	R0.30	₹ 13,149
CR35HVH000A5	20	38	100	20	R0.75	₹ 15,258
CX35HVH000N0	1/4	3/4	63	7	R0.015	₹ 2,373
CX35HVH000H4	5/16	13/16	63	8	R0.015	₹ 2,760
CX35HVH000E0	3/8	1	75	10	R0.015	₹ 4,242
CX35HVH00063	1/2	1	75	14	R0.030	₹ 6,360
CX35HVH000F8	5/8	1-1/4	92	16	R0.030	₹ 10,527
CX35HVH000G6	3/4	1-1/2	100	20	R0.030	₹ 15,258



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Series	333		Carbide HP 5-Flute VHEM End Mills AL-Pro Coated			
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	Corner Radius (R)	PL-53
CR35HVH000P2	6	12	63	6	R0.3	₹ 2,157
CR35HVH000Q0	8	16	63	8	R0.5	₹ 2,883
CR35HVH000R8	10	22	72	10	R0.5	₹ 4,437
CR35HVH000S5	12	26	80	12	R0.75	₹ 5,994
CR35HVH000T3	16	32	92	16	R0.75	₹ 11,025
CR35HVH000U1	20	38	100	20	R0.75	₹ 15,987
CX35HVH000V3	1/4	3/4	70	7	R0.01"	₹ 2,520
CX35HVH000W1	5/16	13/16	70	8	R0.015"	₹ 2,883
CX35HVH000X8	3/8	1	75	10	R0.015"	₹ 4,437
CX35HVH000Y6	1/2	1	75	14	R0.03"	₹ 6,678
CX35HVH000Z4	5/8	1-1/4	92	16	R0.03"	₹ 11,025
CX35HVH00105	3/4	1-1/2	100	20	R0.03"	₹ 15,987



Series	430	Carbide HP 4-Flute VHEM End Mills AL-Pro Coated				
Ordering Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	Corner Radius (R)	PL-53
430040054-A	4	10	54	6	R0.3	₹ 3,102
430060063-A	6	12	63	6	R0.3	₹ 3,267
430080063-A	8	19	63	8	R0.5	₹ 5,319
430100072-A	10	22	72	10	R0.5	₹ 7,782
430120080-A	12	26	80	12	R0.75	₹ 10,113
430140080-A	14	26	80	14	R0.75	₹ 12,606
430160092-A	16	32	92	16	R0.75	₹ 20,394
4304428702-1/2-A	1/4	3/4	70	7	R0.01"	₹ 5,418
4304249102-1/2-A	5/16	13/16	70	8	R0.015"	₹ 5,418
43044411003-A	3/8	1	80	10	R0.015"	₹ 7,926
43044228003-A	1/2	1	80	14	R0.03"	₹ 12,606
4304441303-1/2-A	5/8	1-1/4	100	16	R0.03"	₹ 20,394



Series	433	Carbide HP 5-Flute VHEM End Mills AL-Pro Coated				
Ordering Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	Corner Radius (R)	PL-53
433060063-A	6	12	63	6	R0.3	₹ 3,594
433080063-A	8	16	63	8	R0.5	₹ 5,688
433100072-A	10	22	72	10	R0.5	₹ 8,322
433120080-A	12	26	80	12	R0.75	₹ 10,923
433140080-A	14	26	80	14	R0.75	₹ 13,479
433160092-A	16	32	92	16	R0.75	₹ 20,568
4334428702-1/2-A	1/4	3/4	70	7	R0.01"	₹ 5,958
4334249102-1/2-A	5/16	13/16	70	8	R0.015"	₹ 5,958
43344411003-A	3/8	1	80	10	R0.015"	₹ 8,718
43344228003-A	1/2	1	80	14	R0.03"	₹ 13,479
4334441303-1/2-A	5/8	1-1/4	100	16	R0.03"	₹ 20,568



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Series	401		Carbide 4F Flat End Mills up to 70HRc with NOVA Coated		
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CR4AHSE00T43	1	2	50	4	₹ 2,220
CR4AHSE00T68	1.5	3	50	4	₹ 2,220
CR4AHSE00T50	2	4	50	4	₹ 2,016
CR4AHSE00T76	2.5	6	50	4	₹ 2,016
CR49HSE00JU8	3	12	50	4	₹ 2,016
CR49HSE00JV6	4	12	50	4	₹ 2,016
CR49HSE00JW4	4	20	75	4	₹ 2,442
CR49HSE00JX1	6	16	50	6	₹ 2,655
CR49HSE00JY9	6	25	75	6	₹ 3,570
CR4AHSE00ML7	8	20	60	8	₹ 4,410
CR49HSE00JZ7	8	25	75	8	₹ 5,034
CR49HSE00K08	8	30	100	8	₹ 6,291
CR49HSE00K16	10	25	75	10	₹ 6,816
CR49HSE00K24	10	40	100	10	₹ 8,385
CR49HSE00K32	12	25	75	12	₹ 8,907
CR49HSE00K40	12	40	100	12	₹ 11,526



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Series	402		Carbide 2F Ball Nose up to 70HRc with NOVA Coated		
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CR4AHBE00FV9	1	2	50	4	₹ 2,316
CR4AHBE00FX4	1.5	3	50	4	₹ 2,316
CR4AHBE00FW7	2	4	50	4	₹ 2,316
CR4AHBE00FY2	2.5	6	50	4	₹ 2,316
CR49HBE00DE6	3	12	50	4	₹ 2,316
CR49HBE00DF4	4	12	50	4	₹ 2,220
CR49HBE00DG2	4	20	75	4	₹ 2,697
CR49HBE00DH0	6	16	50	6	₹ 2,907
CR49HBE00DJ5	6	25	75	6	₹ 3,960
CR4AHBE00FZ0	8	20	60	8	₹ 4,848
CR49HBE00DK3	8	25	75	8	₹ 5,541
CR49HBE00DL1	8	30	100	8	₹ 6,897
CR49HBE00DM9	10	25	75	10	₹ 7,464
CR49HBE00DN6	10	40	100	10	₹ 9,189
CR49HBE00DP2	12	25	75	12	₹ 9,765
CR49HBE00DQ0	12	40	100	12	₹ 12,528



Series	406		Carbide 2F Ball Nose with Taper Neck up to 70HRc (NOVA Coated)				
Ordering Code	Flute Diameter (D1)	Flute Length (L1)	Reach Length (L3)	Overall Length (L4)	Shank Diameter (D2)	Neck Taper Angle	PL-53
40602006006-N	2	4	23	60	6	1°30'	₹ 3,480
40602006006-N	2	4	23	60	6	5°	₹ 3,480
40602008006-N	2	4	41	80	6	3°	₹ 3,891
40603007506-N	3	6	32	75	6	3°	₹ 3,891
40603009006-N	3	6	52	90	6	1°30'	₹ 5,322
40604007506-N	4	8	28	75	6	3°	₹ 3,786
40604009006-N	4	8	49	90	6	1°30'	₹ 4,503
40605008008-N	5	10	41	80	8	3°	₹ 5,472
40605010008-N	5	10	51	100	8	1°30'	₹ 6,954
40606008008-N	6	12	34	80	8	3°	₹ 5,724
40606010008-N	6	12	53	100	8	1°30'	₹ 7,464
40608008010-N	8	14	36	80	10	3°	₹ 7,719
40608010010-N	8	14	55	100	10	1°30'	₹ 10,323
40610008012-N	10	18	40	80	12	3°	₹ 9,918
40610010012-N	10	18	59	100	12	1°30'	₹ 13,290
40612011016-N	12	22	63	110	16	3°	₹ 21,327
40612013016-N	12	22	83	130	16	1°30'	₹ 29,328





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Series	301				
	Carbide 4F End Mills up to 60HRC with NOVA Coated				
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CR3AHSE00PA0	1	3	50	4	₹ 1,254
CR3AHSE00PB8	1.5	3	50	4	₹ 1,254
CR3AHSE00PC6	2	6	50	4	₹ 1,254
CR3AHSE00PD3	2.5	8	50	4	₹ 1,254
CR33HSE003A3	3	15	50	3	₹ 1,008
CR33HSE003C9	3	20	75	3	₹ 1,224
CR33HSE00FY1	3	25	100	3	₹ 1,539
CR33HSE003D6	4	14	50	4	₹ 1,140
CR33HSE003F2	4	20	75	4	₹ 1,314
CR33HSE00FN5	4	25	100	4	₹ 1,617
CR33HSE00HV6	4	50	150	4	₹ 2,598
CR33HSE003G0	5	16	50	5	₹ 1,401
CR33HSE003H8	5	20	75	5	₹ 1,617
CR33HSE00HH7	5	25	100	5	₹ 1,926
CR33HSE003J3	6	16	50	6	₹ 1,518
CR33HSE003K1	6	25	75	6	₹ 1,794
CR33HSE003L9	6	30	100	6	₹ 2,301
CR33HSE00FP1	6	50	150	6	₹ 3,123
CR33HSE003M7	8	20	60	8	₹ 2,394
CR33HSE003N4	8	25	75	8	₹ 2,760
CR33HSE00G59	8	30	100	8	₹ 3,234
CR33HSE003P0	8	50	150	8	₹ 4,557
CR33HSE003R6	10	25	75	10	₹ 3,564
CR33HSE003S3	10	40	100	10	₹ 4,278
CR33HSE003T1	10	60	150	10	₹ 6,297
CR3AHSE00PH5	10	60	200	10	₹ 8,343
CR33HSE00CP4	12	25	75	12	₹ 4,686
CR33HSE003U9	12	40	100	12	₹ 5,700
CR33HSE003V7	12	60	150	12	₹ 8,394
CR3AHSE00T86	12	60	200	12	₹ 10,290
CR33HSE00L54	14	40	100	14	₹ 7,395
CR33HSE003X2	16	40	100	16	₹ 9,537
CR33HSE00HT0	16	60	150	16	₹ 13,482
CR33HSE00L47	20	40	100	20	₹ 14,706
CR3AHSE00R39	20	60	150	20	₹ 21,741



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Series	302		Carbide 4F Ball Nose up to 60HRC with NOVA Coated		
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CR33HBE00364	3	15	50	3	₹ 1,221
CR33HBE00AM0	3	20	75	3	₹ 1,434
CR33HBE00BV9	4	14	50	4	₹ 1,350
CR33HBE00AN7	4	20	75	4	₹ 1,518
CR33HBE00AY3	4	25	100	4	₹ 1,938
CR33HBE00C50	5	16	50	5	₹ 1,638
CR33HBE00BU1	5	20	75	5	₹ 1,905
CR33HBE00DX2	5	25	100	5	₹ 2,256
CR33HBE00BW7	6	16	50	6	₹ 1,767
CR33HBE00372	6	25	75	6	₹ 2,088
CR33HBE00BB3	6	30	100	6	₹ 2,565
CR33HBE00CA4	6	50	150	6	₹ 3,627
302065050-A	6.5	16	50	6.5	₹ 2,259
CR33HBE00C92	8	20	60	8	₹ 2,640
CR33HBE00380	8	25	75	8	₹ 3,018
CR33HBE00B36	8	30	100	8	₹ 3,564
CR33HBE00C84	8	50	150	8	₹ 4,983
CR33HBE00BY2	10	25	75	10	₹ 4,176
CR33HBE00398	10	40	100	10	₹ 5,193
CR33HBE00B44	10	60	150	10	₹ 7,152
CR33HBE00AH1	12	25	75	12	₹ 5,496
CR33HBE00CB2	12	40	100	12	₹ 6,615
CR33HBE00CC0	12	60	150	12	₹ 9,186
CR3AHBE00FT5	14	40	100	14	₹ 7,914
CR33HBE003A0	16	40	100	16	₹ 9,969
CR3AHBE00F04	16	60	150	16	₹ 13,953
CR3AHBE00G03	20	40	100	20	₹ 16,224
CR3AHBE00F12	20	60	150	20	₹ 23,478



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Series	304		Carbide 2F Ball Nose up to 60HRc with NOVA Coated		
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CR33HBE008R8	1	3	50	4	₹ 1,458
CR3AHBE00E39	1.5	3	50	4	₹ 1,458
CR3AHBE00E47	2	4	50	4	₹ 1,458
CR3AHBE00E54	2.5	5	50	4	₹ 1,458
CR33HBE00BR8	3	15	50	3	₹ 1,221
CR33HBE00AT4	3	20	75	3	₹ 1,434
CR33HBE00B51	3	25	100	3	₹ 1,938
CR33HBE00315	4	14	50	4	₹ 1,350
CR33HBE00AU2	4	20	75	4	₹ 1,518
CR33HBE00B69	4	25	100	4	₹ 1,938
CR33HBE00E09	5	16	50	5	₹ 1,638
CR33HBE00C43	5	20	75	5	₹ 1,905
CR33HBE00B93	6	16	50	6	₹ 1,767
CR33HBE00323	6	25	75	6	₹ 2,088
CR33HBE00331	6	30	100	6	₹ 2,565
CR33HBE00BX4	6	50	150	6	₹ 3,627
CR33HBE00BA5	8	20	60	8	₹ 2,640
CR33HBE00BH0	8	25	75	8	₹ 3,018
CR33HBE00B85	8	30	100	8	₹ 3,564
CR33HBE00349	8	50	150	8	₹ 4,983
CR33HBE00356	10	25	75	10	₹ 4,176
CR33HBE00B77	10	40	100	10	₹ 5,193
CR33HBE009M8	10	60	150	10	₹ 7,152
CR33HBE009N5	12	25	75	12	₹ 5,496
CR33HBE00BP2	12	40	100	12	₹ 6,615
CR33HBE009Q9	12	60	150	12	₹ 9,186



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Series	305		Carbide 2F Rib Processing End Mills up to 60HRc with NOVA Coated			
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	Reach Length (L3)	PL-53
CR3AHSE00QW1	1	2	50	4	6	₹ 1,809
CR3AHSE00QX8	1	2	50	4	10	₹ 1,878
CR3AHSE00PN1	1.5	2.5	50	4	6	₹ 1,434
CR3AHSE00PP7	1.5	2.5	50	4	10	₹ 1,455
CR3AHSE00QY6	1.5	2.5	50	4	20	₹ 1,662
CR3AHSE00PQ5	2	3	50	4	8	₹ 1,374
CR3AHSE00PR3	2	3	50	4	12	₹ 1,389
CR3AHSE00PS0	2	3	50	4	16	₹ 1,521
CR3AHSE00PT8	2	3	50	4	20	₹ 1,521
CR3AHSE00PU6	2.5	4	50	4	8	₹ 1,374
CR3AHSE00PV4	2.5	4	50	4	12	₹ 1,389
CR3AHSE00PW2	2.5	4	50	4	16	₹ 1,521
CR3AHSE00PX9	2.5	4	50	4	20	₹ 1,521
CR3AHSE00PY7	3	5	50	6	8	₹ 1,782
CR3AHSE00PZ5	3	5	50	6	12	₹ 1,770
CR3AHSE00Q06	3	5	60	6	16	₹ 1,983
CR3AHSE00Q14	3	5	60	6	20	₹ 2,073
CR3AHSE00Q22	3	5	75	6	25	₹ 2,277
CR3AHSE00Q30	4	6	50	6	12	₹ 1,782
CR3AHSE00Q48	4	6	60	6	16	₹ 1,989
CR3AHSE00Q55	4	6	75	6	20	₹ 2,205
CR3AHSE00Q63	4	6	75	6	25	₹ 2,118
CR3AHSE00Q71	4	6	75	6	30	₹ 2,277
CR3AHSE00Q89	4	6	75	6	35	₹ 2,355



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Series	306		Carbide 2F Rib Processing Ball Nose up to 60HRc with NOVA Coated			
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	Reach Length (L3)	PL-53
CR3AHBE00EV2	1	2	50	4	6	₹ 1,944
CR3AHBE00EW0	1	2	50	4	10	₹ 2,010
CR3AHBE00E88	1.5	2.5	50	4	6	₹ 1,665
CR3AHBE00E96	1.5	2.5	50	4	10	₹ 1,737
CR3AHBE00EX7	1.5	2.5	50	4	20	₹ 1,806
CR3AHBE00EA8	2	3	50	4	8	₹ 1,590
CR3AHBE00EB6	2	3	50	4	12	₹ 1,662
CR3AHBE00EC4	2	3	50	4	16	₹ 1,806
CR3AHBE00ED1	2	3	50	4	20	₹ 1,806
CR3AHBE00EE9	2.5	4	50	4	8	₹ 1,590
CR3AHBE00EF7	2.5	4	50	4	12	₹ 1,662
CR3AHBE00EG5	2.5	4	50	4	16	₹ 1,806
CR3AHBE00EH3	2.5	4	50	4	20	₹ 1,806
CR3AHBE00EJ8	3	5	50	6	8	₹ 1,932
CR3AHBE00EK6	3	5	50	6	12	₹ 1,998
CR3AHBE00EL4	3	5	60	6	16	₹ 2,253
CR3AHBE00EM2	3	5	60	6	20	₹ 2,355
CR3AHBE00EN9	3	5	75	6	25	₹ 2,559
CR3AHBE00EP5	4	6	50	6	12	₹ 1,932
CR3AHBE00EQ3	4	6	60	6	16	₹ 2,178
CR3AHBE00ER1	4	6	75	6	20	₹ 2,391
CR3AHBE00ES8	4	6	75	6	25	₹ 2,391
CR3AHBE00ET6	4	6	75	6	30	₹ 2,559
CR3AHBE00EU4	4	6	75	6	35	₹ 2,640



Series	307		Carbide 2F Ball Nose with Taper Neck up to 60HRC with NOVA Coated				
Ordering Code	Flute Diameter (D1)	Flute Length (L1)	Reach Length (L3)	Overall Length (L2)	Shank Diameter (D2)	Neck Taper Angle	PL-53
3070200601-N	2	4	23	60	6	1°30'	₹ 2,067
3070200605-N	2	4	23	60	6	5°	₹ 2,067
3070200803-N	2	4	41	80	6	3°	₹ 2,307
3070300753-N	3	6	32	75	6	3°	₹ 2,307
3070300901-N	3	6	52	90	6	1°30'	₹ 3,294
3070400753-N	4	8	28	75	6	3°	₹ 2,172
3070400901-N	4	8	49	90	6	1°30'	₹ 2,448
3070500803-N	5	10	41	80	8	3°	₹ 3,180
3070501001-N	5	10	51	100	8	1°30'	₹ 3,735
3070600803-N	6	12	34	80	8	3°	₹ 3,294
3070601001-N	6	12	53	100	8	1°30'	₹ 3,909
3070800803-N	8	14	36	80	10	3°	₹ 4,092
3070801001-N	8	14	55	100	10	1°30'	₹ 5,520
3071000803-N	10	18	40	80	12	3°	₹ 5,109
3071001001-N	10	18	59	100	12	1°30'	₹ 6,990
3071201103-N	12	22	63	110	16	3°	₹ 11,121
3071201301-N	12	22	83	130	16	1°30'	₹ 14,796



Series	308		Carbide 6F Radius End Mills up to 60HRC			
Ordering Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	Corner Radius (R)	PL-53
308060075R0.5-N	6	25	75	6	R0.5	₹ 2,217
308060075R1.0-N	6	25	75	6	R1.0	₹ 2,217
308080075R0.5-N	8	25	75	8	R0.5	₹ 2,889
308080075R1.0-N	8	25	75	8	R1.0	₹ 2,889
308080075R1.5-N	8	25	75	8	R1.5	₹ 2,889
308100075R0.5-N	10	30	75	10	R0.5	₹ 4,230
308100075R1.0-N	10	30	75	10	R1.0	₹ 4,230
308100075R1.5-N	10	30	75	10	R1.5	₹ 4,230
308120075R1.0-N	12	30	75	12	R1.0	₹ 4,899
308120075R1.5-N	12	30	75	12	R1.5	₹ 4,899
308120075R2.0-N	12	30	75	12	R2.0	₹ 4,899
308160100R1.0-N	16	40	100	16	R1.0	₹ 9,927
308160100R2.0-N	16	40	100	16	R2.0	₹ 9,927
308160100R3.0-N	16	40	100	16	R3.0	₹ 9,927
308180100R1.0-N	18	40	100	18	R1.0	₹ 14,652
308180100R2.0-N	18	40	100	18	R2.0	₹ 14,652
308180100R3.0-N	18	40	100	18	R3.0	₹ 14,652
308200100R1.0-N	20	40	100	20	R1.0	₹ 16,530
308200100R2.0-N	20	40	100	20	R2.0	₹ 16,530
308200100R3.0-N	20	40	100	20	R3.0	₹ 16,530



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Series	201		Carbide 4F Flat End Mills with TiALN Coated		
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CR11GSE009A5	3	15	50	3	₹ 714
CR11GSE009B3	3	20	75	3	₹ 1,182
CR11GSE009C1	3	25	100	3	₹ 1,476
CR11GSE009E6	4	14	50	4	₹ 744
CR11GSE009G2	4	20	75	4	₹ 1,242
CR11GSE009H0	4	25	100	4	₹ 1,479
CR11GSE009J5	5	16	50	5	₹ 975
CR11GSE009K3	5	20	75	5	₹ 1,377
CR11GSE009L1	5	25	100	5	₹ 1,674
CR11GSE009Q0	6	16	50	6	₹ 1,086
CR11GSE009R8	6	25	75	6	₹ 1,527
CR11GSE009S5	6	30	100	6	₹ 1,773
CR11GSE009T3	6	50	150	6	₹ 2,763
CR11GSE009X4	7	20	60	7	₹ 1,605
CR11GSE00A04	8	20	60	8	₹ 1,749
CR11GSE00A12	8	25	75	8	₹ 2,151
CR11GSE00A20	8	30	100	8	₹ 2,865
CR11GSE00A38	8	50	150	8	₹ 3,861
CR11GSE00PJ2	8	50	200	8	₹ 6,144
CR11GSE00A46	9	25	75	9	₹ 2,697
CR11GSE00A79	10	25	75	10	₹ 2,985
CR11GSE00A87	10	40	100	10	₹ 3,738
CR11GSE00A95	10	60	150	10	₹ 5,352
CR11GSE00PL8	10	60	200	10	₹ 7,779
CR11GSE00HB8	11	25	75	11	₹ 3,888
CR11GSE00AA7	12	25	75	12	₹ 3,897
CR11GSE00AB5	12	40	100	12	₹ 4,983
CR11GSE00AC3	12	60	150	12	₹ 6,792
CR11GSE00AD0	12	60	200	12	₹ 9,126
CR11GSE00HC6	13	40	100	13	₹ 6,324
CR11GSE00332	14	30	75	14	₹ 4,722
CR11GSE00AF6	14	40	100	14	₹ 6,324
CR11GSE00AG4	14	60	150	14	₹ 8,991
CR11GSE00AH2	14	60	200	14	₹ 11,985
CR11GSE00HW2	16	30	75	16	₹ 6,402
CR11GSE00AJ7	16	40	100	16	₹ 8,001
CR11GSE00AK5	16	60	150	16	₹ 11,823
CR11GSE00AL3	16	60	200	16	₹ 15,288
CR11GSE00AM1	18	40	100	18	₹ 10,530
CR11GSE00AN8	18	60	150	18	₹ 15,207
CR11GSE00AP4	18	60	200	18	₹ 20,361
CR11GSE00AQ2	20	40	100	20	₹ 12,543
CR11GSE00AR0	20	60	150	20	₹ 18,507
CR11GSE00AS7	20	60	200	20	₹ 25,212
CR11GSE00PK0	22	40	100	22	₹ 15,201
CR11GSE00AT5	25	40	100	25	₹ 18,612
CR11GSE00AU3	25	60	150	25	₹ 27,909
CR11GSE00AV1	25	60	200	25	₹ 37,689



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Series	202		Carbide 4F Ball Nose with TiAlN Coated		
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CR11GBE007H9	3	15	50	3	₹ 849
CR11GBE007J4	3	20	75	3	₹ 1,413
CR11GBE007K2	3	25	100	3	₹ 1,599
CR11GBE007L0	4	14	50	4	₹ 876
CR11GBE007M8	4	20	75	4	₹ 1,503
CR11GBE007N5	4	25	100	4	₹ 1,644
CR11GBE007P1	5	16	50	5	₹ 1,128
CR11GBE007Q9	5	20	75	5	₹ 1,551
CR11GBE007R7	5	25	100	5	₹ 1,737
CR11GBE007S4	6	16	50	6	₹ 1,299
CR11GBE007T2	6	25	75	6	₹ 1,824
CR11GBE007U0	6	30	100	6	₹ 1,977
CR11GBE007V8	6	50	150	6	₹ 3,285
CR11GBE007W6	7	20	60	7	₹ 1,779
CR11GBE007X3	8	20	60	8	₹ 1,815
CR11GBE007Y1	8	25	75	8	₹ 2,235
CR11GBE007Z9	8	30	100	8	₹ 2,889
CR11GBE00800	8	50	150	8	₹ 4,068
CR11GBE00818	9	25	75	9	₹ 3,054
CR11GBE00826	10	25	75	10	₹ 3,129
CR11GBE00834	10	40	100	10	₹ 3,885
CR11GBE00842	10	60	150	10	₹ 5,568
CR11GBE00FU5	10	60	200	10	₹ 8,166
CR11GBE00859	12	25	75	12	₹ 4,056
CR11GBE00867	12	40	100	12	₹ 5,181
CR11GBE00875	12	60	150	12	₹ 7,113
CR11GBE00883	12	60	200	12	₹ 9,720
CR11GBE00C17	14	30	75	14	₹ 5,631
CR11GBE00891	14	40	100	14	₹ 6,342
CR11GBE008A3	14	60	150	14	₹ 10,089
CR11GBE008B1	14	60	200	14	₹ 12,615
CR11GBE00C74	16	30	75	16	₹ 6,792
CR11GBE008C9	16	40	100	16	₹ 8,439
CR11GBE008D6	16	60	150	16	₹ 12,825
CR11GBE008E4	16	60	200	16	₹ 16,491
CR11GBE008F2	18	40	100	18	₹ 10,950
CR11GBE008G0	18	60	150	18	₹ 16,422
CR11GBE008H8	18	60	200	18	₹ 20,943
CR11GBE008J3	20	40	100	20	₹ 12,990
CR11GBE008K1	20	60	150	20	₹ 19,476
CR11GBE008L9	20	60	200	20	₹ 24,837
CR11GBE008M7	25	40	100	25	₹ 19,683
CR11GBE008N4	25	60	150	25	₹ 29,466
CR11GBE008P0	25	60	200	25	₹ 39,864



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Series	204		Carbide 2F Ball Nose with TiALN Coated		
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CR11GBE00537	3	15	50	3	₹ 849
CR11GBE00545	3	20	75	3	₹ 1,413
CR11GBE00552	3	25	100	3	₹ 1,599
CR11GBE00560	4	14	50	4	₹ 876
CR11GBE00578	4	20	75	4	₹ 1,503
CR11GBE00586	4	25	100	4	₹ 1,644
CR11GBE00594	5	16	50	5	₹ 1,128
CR11GBE005A6	5	20	75	5	₹ 1,551
CR11GBE005B4	5	25	100	5	₹ 1,737
CR11GBE005C2	6	16	50	6	₹ 1,299
CR11GBE005D9	6	25	75	6	₹ 1,824
CR11GBE005E7	6	30	100	6	₹ 1,977
CR11GBE005J6	8	20	60	8	₹ 1,815
CR11GBE005K4	8	25	75	8	₹ 2,235
CR11GBE005L2	8	30	100	8	₹ 2,889
CR11GBE005P3	10	25	75	10	₹ 3,129
CR11GBE005Q1	10	40	100	10	₹ 3,885
CR11GBE005S6	12	25	75	12	₹ 4,056
CR11GBE005T4	12	40	100	12	₹ 5,181



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Series	204		Carbide 2F Uncoated Ball Nose for Wood		
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CR1XGBE00EY8	4	22	50	4	₹ 681
CR1XGBE00EZ6	5	22	50	5	₹ 852
CR1XGBE00E16	6	22	50	6	₹ 1,023





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Series	205		Carbide 4F Flat End Mills up to 50HRC with Hyperlox Coated		
Item Code	Flute Diameter (D1)	Flute Length (L2)	Overall Length (L1)	Shank Diameter (D2)	PL-53
CR16GSE00N14	1	3	50	4	₹ 966
CR16GSE00N22	1.5	4	50	4	₹ 966
CR16GSE00HX4	2	6	50	4	₹ 921
CR16GSE00HY2	2.5	8	50	4	₹ 921
CR16GSE00HZ0	3	12	50	3	₹ 852
CR16GSE00J00	3	20	75	3	₹ 1,167
CR16GSE00J18	3	25	100	3	₹ 1,479
CR16GSE00J26	4	14	50	4	₹ 840
CR16GSE00J34	4	20	75	4	₹ 1,302
CR16GSE00J42	4	25	100	4	₹ 1,533
CR16GSE00J59	5	16	50	5	₹ 1,182
CR16GSE00J67	5	20	75	5	₹ 1,560
CR16GSE00J75	5	25	100	5	₹ 1,812
CR16GSE00J83	6	16	50	6	₹ 1,182
CR16GSE00J91	6	25	75	6	₹ 1,647
CR16GSE00JA3	6	30	100	6	₹ 1,923
CR16GSE00JB1	6	50	150	6	₹ 2,823
CR16GSE00JC9	8	20	60	8	₹ 1,911
CR16GSE00JD6	8	30	100	8	₹ 2,940
CR16GSE00JE4	8	50	150	8	₹ 4,038
CR16GSE00JF2	10	25	75	10	₹ 3,078
CR16GSE00JG0	10	40	100	10	₹ 3,876
CR16GSE00JH8	10	50	150	10	₹ 5,454
CR16GSE00JJ3	12	25	75	12	₹ 4,053
CR16GSE00JK1	12	40	100	12	₹ 5,244
CR16GSE00JL9	12	50	150	12	₹ 7,419
CR16GSE00JM7	16	40	100	16	₹ 8,109
CR16GSE00JN4	16	50	150	16	₹ 12,171
CR16GSE00JP0	20	40	100	20	₹ 12,951

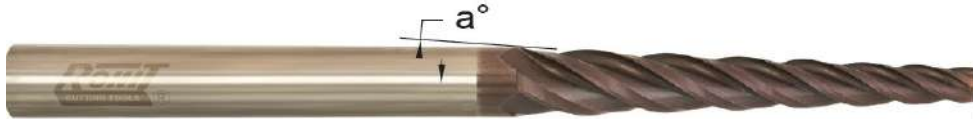


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Series	206		Carbide 2F Ball Nose up to 50HRC with Hyperlox Coated		
Item Code	Flute Diameter (D1)	Flute Length (L2)	Overall Length (L1)	Shank Diameter (D2)	PL-53
CR16GBE00CJ7	1	3	50	4	₹ 1,062
CR16GBE00CK5	1.5	4	50	4	₹ 1,062
CR16GBE00CL3	2	6	50	4	₹ 1,062
CR16GBE00CM1	2.5	8	50	4	₹ 1,062
CR16GBE00CN8	3	12	50	3	₹ 987
CR16GBE00CP4	3	20	75	3	₹ 1,344
CR16GBE00CQ2	3	25	100	3	₹ 1,659
CR16GBE00CR0	4	16	50	4	₹ 1,020
CR16GBE00CS7	4	20	75	4	₹ 1,545
CR16GBE00CT5	4	25	100	4	₹ 1,836
CR16GBE00CU3	5	16	50	5	₹ 1,302
CR16GBE00CV1	5	20	75	5	₹ 1,803
CR16GBE00CW9	5	25	100	5	₹ 1,950
CR16GBE00CX6	6	16	50	6	₹ 1,350
CR16GBE00CY4	6	25	75	6	₹ 1,911
CR16GBE00CZ2	6	30	100	6	₹ 2,220
CR16GBE00D03	6	40	150	6	₹ 3,147
CR16GBE00D11	8	20	60	8	₹ 2,016
CR16GBE00D29	8	30	100	8	₹ 3,129
CR16GBE00D37	8	50	150	8	₹ 4,431
CR16GBE00D45	10	25	75	10	₹ 3,291
CR16GBE00D52	10	40	100	10	₹ 4,113
CR16GBE00D60	10	50	150	10	₹ 5,805
CR16GBE00D78	12	25	75	12	₹ 4,290
CR16GBE00D86	12	40	100	12	₹ 5,544
CR16GBE00D94	12	50	150	12	₹ 7,827
CR16GBE00DA6	16	40	100	16	₹ 8,433
CR16GBE00DB4	16	50	150	16	₹ 13,089



Series	207	Carbide 1X Taper End Mills with TiAlN Coated				
Ordering Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	Taper Angle (A°)	PL-53
20703008002-F	3	42	80	6	2	₹ 2,727
20705008002-F	5	42	80	8	2	₹ 3,039
20707008002-F	7	42	80	10	2	₹ 4,134
20709008002-F	9	42	80	12	2	₹ 4,866
20702508003-F	2.5	32	80	6	3	₹ 2,727
20703008003-F	3	48	80	8	3	₹ 3,039
20704008003-F	4	38	80	8	3	₹ 3,039
20706008003-F	6	38	80	10	3	₹ 4,134
20708010503-F	8	56	105	14	3	₹ 7,899
20702506305-F	2.5	20	63	6	5	₹ 2,559
20703008005-F	3	28	80	8	5	₹ 3,039
20704008005-F	4	34	80	10	5	₹ 4,134
20706009005-F	6	34	90	12	5	₹ 6,060
20708010005-F	8	45	100	16	5	₹ 9,507
20710010505-F	10	56	105	20	5	₹ 14,946
20703006307-F	3	20	63	8	7	₹ 2,772
20705008007-F	5	28	80	12	7	₹ 4,866
20702507510-F	2.5	20	75	10	10	₹ 4,134
20703008010-F	3	30	80	14	10	₹ 7,107
20705008010-F	5	30	80	16	10	₹ 8,154
20708010010-F	8	32	100	20	10	₹ 14,946
20702506315-F	2.5	16	63	12	15	₹ 4,551
20704008015-F	4	18	80	14	15	₹ 7,107
20706508015-F	6.5	24	80	20	15	₹ 12,807
20708008015-F	8	20	80	20	15	₹ 12,807



Series	208	Carbide 1X Taper Ball Nose with TiAlN Coated				
Ordering Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	Taper Angle (A°)	PL-53
20803008002-F	3	42	80	6	2	₹ 2,928
20805008002-F	5	42	80	8	2	₹ 3,924
20807008002-F	7	42	80	10	2	₹ 4,866
20809008002-F	9	42	80	12	2	₹ 6,060
20803008003-F	3	48	80	8	3	₹ 3,924
20804008003-F	4	38	80	8	3	₹ 3,924
20806008003-F	6	38	80	10	3	₹ 4,866
20808010503-F	8	56	105	14	3	₹ 8,991
20803008005-F	3	28	80	8	5	₹ 3,924
20804008005-F	4	34	80	10	5	₹ 4,866
20806009005-F	6	34	90	12	5	₹ 7,320
20808010005-F	8	45	100	16	5	₹ 10,188
20810010505-F	10	56	105	20	5	₹ 17,664
20803006307-F	3	20	63	8	7	₹ 3,240
20805008007-F	5	28	80	12	7	₹ 6,060
20803008010-F	3	30	80	14	10	₹ 8,154
20805008010-F	5	30	80	16	10	₹ 8,991
20808010010-F	8	32	100	20	10	₹ 17,664
20804008015-F	4	18	80	14	15	₹ 8,154
20806508015-F	6.5	24	80	20	15	₹ 14,946
20808008015-F	8	20	80	20	15	₹ 14,946



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Series	<a href="#">211</a>		Carbide 2F High Helix End Mill for Aluminum Alloys		
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CR1XGSE00TA9	2	6	50	4	₹ 1,104
CR1XGSE00QZ7	3	12	50	3	₹ 744
CR1XGSE00NP2	4	14	50	4	₹ 804
CR1XGSE00NQ0	4	25	75	4	₹ 1,308
CR1XGSE00NR8	4	30	100	4	₹ 1,563
CR1XGSE00NS5	5	16	50	5	₹ 1,092
CR1XGSE00NT3	5	25	75	5	₹ 1,401
CR1XGSE00NU1	5	35	100	5	₹ 1,713
CR1XGSE00NV9	6	18	50	6	₹ 1,170
CR1XGSE00NW7	6	30	75	6	₹ 1,563
CR1XGSE00NX4	6	35	100	6	₹ 1,800
CR1XGSE00NY2	8	20	60	8	₹ 1,752
CR1XGSE00NZ0	8	30	75	8	₹ 2,022
CR1XGSE00P00	8	40	100	8	₹ 2,751
CR1XGSE00P18	10	30	75	10	₹ 2,874
CR1XGSE00P26	10	50	100	10	₹ 3,591
CR1XGSE00P34	12	30	75	12	₹ 3,750
CR1XGSE00P42	12	50	100	12	₹ 4,998
CR1XGSE00P59	14	50	100	14	₹ 6,636
CR1XGSE00P67	16	50	100	16	₹ 8,352
CR1XGSE00P75	20	50	100	20	₹ 12,912



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Series	<a href="#">213</a>		Carbide 3F High Helix End Mill for Aluminum Alloys		
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CR1XGSE00T06	2	6	50	4	₹ 1,233
CR1XGSE00R08	3	12	50	3	₹ 912
CR1XGSE00N44	4	14	50	4	₹ 942
CR1XGSE00N51	4	25	75	4	₹ 1,518
CR1XGSE00N69	4	30	100	4	₹ 1,800
CR1XGSE00N77	5	16	50	5	₹ 1,254
CR1XGSE00N85	5	25	75	5	₹ 1,611
CR1XGSE00N93	5	35	100	5	₹ 1,971
CR1XGSE00NA5	6	18	50	6	₹ 1,353
CR1XGSE00NB3	6	30	75	6	₹ 1,800
CR1XGSE00NC1	6	35	100	6	₹ 2,064
CR1XGSE00ND8	8	20	60	8	₹ 1,935
CR1XGSE00NE6	8	30	75	8	₹ 2,484
CR1XGSE00NF4	8	40	100	8	₹ 3,045
CR1XGSE00NG2	10	30	75	10	₹ 3,168
CR1XGSE00NH0	10	50	100	10	₹ 3,963
CR1XGSE00NJ5	12	30	75	12	₹ 4,137
CR1XGSE00NK3	12	50	100	12	₹ 5,496
CR1XGSE00NL1	14	50	100	14	₹ 6,984
CR1XGSE00NM9	16	50	100	16	₹ 8,781
CR1XGSE00NN6	20	50	100	20	₹ 13,161



Series	212	Carbide 2F High Helix Ball Nose for Aluminum Alloys			
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CR1XGBE00F23	3	12	50	3	₹ 804
CR1XGBE00F31	4	14	50	4	₹ 870
CR1XGBE00F49	4	25	75	4	₹ 1,416
CR1XGBE00F56	4	30	100	4	₹ 1,689
CR1XGBE00F64	5	16	50	5	₹ 1,179
CR1XGBE00F72	5	25	75	5	₹ 1,512
CR1XGBE00F80	5	35	100	5	₹ 1,851
CR1XGBE00F98	6	18	50	6	₹ 1,266
CR1XGBE00FA0	6	30	75	6	₹ 1,689
CR1XGBE00FB8	6	35	100	6	₹ 1,944
CR1XGBE00FC6	8	20	60	8	₹ 1,896
CR1XGBE00FD3	8	30	75	8	₹ 2,184
CR1XGBE00FE1	8	40	100	8	₹ 2,973
CR1XGBE00FF9	10	30	75	10	₹ 3,105
CR1XGBE00FG7	10	50	100	10	₹ 3,882
CR1XGBE00FH5	12	30	75	12	₹ 4,053
CR1XGBE00FJ0	12	50	100	12	₹ 5,397
CR1XGBE00FK8	14	50	100	14	₹ 7,167
CR1XGBE00FL6	16	50	100	16	₹ 9,024
CR1XGBE00FM4	20	50	100	20	₹ 13,947



Series	215	Carbide Countersink with TiAlN Coated			
Ordering Code	Included Angle (*)	Shank Dia. (d2)	OAL (l1)	# NO. OF FLUTE	PL-53
21504005060-F	60 Deg	4	50	3	₹ 774
21506005760-F	60 Deg	6	57	3	₹ 1,161
21508006060-F	60 Deg	8	60	3	₹ 1,932
21510007560-F	60 Deg	10	75	4	₹ 3,036
21512007560-F	60 Deg	12	75	4	₹ 4,467
21516009060-F	60 Deg	16	90	4	₹ 8,877
21520010060-F	60 Deg	20	100	4	₹ 17,091
21504005090-F	90 Deg	4	50	3	₹ 774
21506005790-F	90 Deg	6	57	3	₹ 1,161
21508006090-F	90 Deg	8	60	3	₹ 1,932
21510007590-F	90 Deg	10	75	4	₹ 3,036
21512007590-F	90 Deg	12	75	4	₹ 4,467
21516009090-F	90 Deg	16	90	4	₹ 8,877



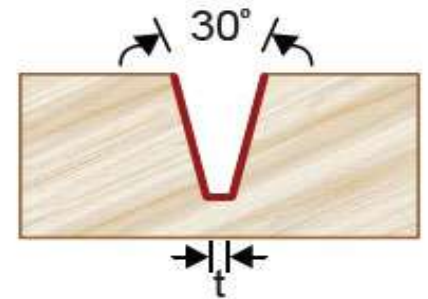
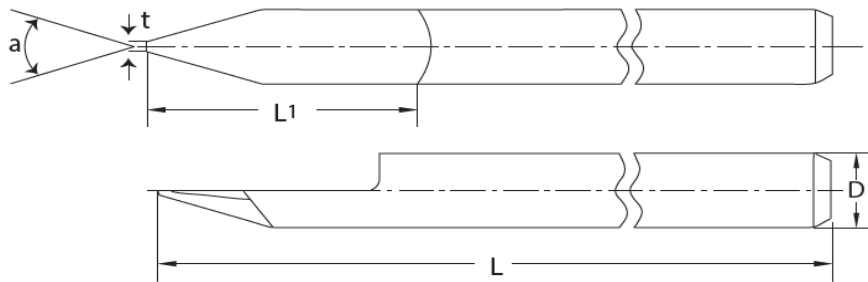
PL-53 w.e.f 15-Feb-2023  
{ GST Extra As Applicable }

Series	219	Carbide Uncoated Engraving Bit V-shape				
Ordering Code	TIP (t)	Included Angle (2xA*)	Cutting Length (L1)	Overall Length (L2)	Shank Dia (D)	PL-53
219030050-U	0.2	30 Deg	12	50	3	₹ 540
219040050-U	0.2	30 Deg	12	50	4	₹ 648
219050050-U	0.2	30 Deg	15	50	5	₹ 732
219060050-U	0.2	30 Deg	15	50	6	₹ 849
219080060-U	0.4	30 Deg	25	60	8	₹ 1,698
219100075-U	0.4	30 Deg	25	75	10	₹ 2,940
219120075-U	0.4	30 Deg	25	75	12	₹ 3,852
219127075-U	0.4	30 Deg	25	75	12.7	₹ 4,989



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Series	119	Carbide Uncoated Engraving Bit V-shape				
Ordering Code	TIP (t)	Included Angle (2xA*)	Cutting Length (L1)	Overall Length (L2)	Shank Dia (D)	PL-53
CX0XEB00013	0.2	30 Deg.	12	50	3	₹ 384
CX0XEB00021	0.2	30 Deg.	12	50	4	₹ 468
CX0XEB00039	0.2	30 Deg.	15	50	5	₹ 528
CX0XEB00047	0.2	30 Deg.	15	50	6	₹ 612
CX0XEB00054	0.4	30 Deg.	25	60	8	₹ 1,188
119100075-U	0.4	30 Deg.	25	75	10	₹ 2,037
119120075-U	0.4	30 Deg.	25	75	12	₹ 2,673
119127075-U	0.4	30 Deg.	25	75	12.7	₹ 3,459



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Series	101		Carbide GP-4F Flat End Mills with TiALN Coated		
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CX01GSE000Y7	2	8	50	3	₹ 336
CX01GSE00106	2.5	8	50	3	₹ 336
CX01GSE00148	3	14	50	3	₹ 336
CX01GSE00155	3	25	75	3	₹ 474
CX01GSE00HM0	3	30	100	3	₹ 648
CX01GSE00171	4	14	50	4	₹ 357
CX01GSE00189	4	22	50	4	₹ 357
CX01GSE001A9	4	25	75	4	₹ 558
CX01GSE001B7	4	30	100	4	₹ 687
CX01GSE001C5	5	16	50	5	₹ 447
CX01GSE001D2	5	25	75	5	₹ 648
CX01GSE001F8	5	35	100	5	₹ 861
CX01GSE001H4	6	18	50	6	₹ 534
CX01GSE001J9	6	30	75	6	₹ 777
CX01GSE00G46	6	30	150	6	₹ 1,629
CX01GSE001K7	6	35	100	6	₹ 999
CX01GSE00JQ9	6	50	150	6	₹ 1,506
CX01GSE001M3	7	20	60	7	₹ 1,032
CX01GSE001P6	8	20	60	8	₹ 987
CX01GSE001Q4	8	30	75	8	₹ 1,203
CX01GSE001S9	8	40	100	8	₹ 1,485
CX01GSE001R2	8	30	150	8	₹ 2,451
CX01GSE001T7	8	60	150	8	₹ 2,340
CX01GSE00GZ2	8	30	200	8	₹ 3,255
CX01GSE001W1	10	30	75	10	₹ 1,647
CX01GSE001X8	10	50	100	10	₹ 2,151
CX01GSE00H78	10	30	150	10	₹ 3,306
CX01GSE001Y6	10	60	150	10	₹ 3,306
CX01GSE00G38	10	30	200	10	₹ 4,533
CX01GSE00LD5	11	30	75	11	₹ 2,187
CX01GSE00213	12	30	75	12	₹ 2,247
CX01GSE00247	12	50	100	12	₹ 2,916
CX01GSE00221	12	30	150	12	₹ 4,275
CX01GSE00254	12	60	150	12	₹ 4,275
CX01GSE00262	12	75	150	12	₹ 4,275
CX01GSE00239	12	30	200	12	₹ 5,907
CX01GSE00270	14	30	75	14	₹ 3,168
CX01GSE00296	14	50	100	14	₹ 4,101
CX01GSE002B6	14	60	150	14	₹ 5,940
CX01GSE002D1	16	30	75	16	₹ 3,837
CX01GSE002F7	16	30	89	16	₹ 4,914
CX01GSE002J8	16	50	100	16	₹ 5,004
CX01GSE002G5	16	30	150	16	₹ 7,473
CX01GSE002L4	16	60	150	16	₹ 7,338
CX01GSE002H3	16	30	200	16	₹ 9,312
CX01GSE00FX7	18	50	100	18	₹ 6,327
CX01GSE002P5	20	50	100	20	₹ 7,824
CX01GSE002M2	20	30	150	20	₹ 11,676
CX01GSE00G61	20	80	150	20	₹ 11,628
CX01GSE002N9	20	30	200	20	₹ 14,415



PL-53 w.e.f 15-Feb-2023

{ GST Extra As Applicable }

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Series	102		Carbide GP-4F Ball Nose with TiAlN Coated		
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CX01GBE00186	3	14	50	3	₹ 342
CX01GBE001A6	3	25	75	3	₹ 549
CX01GBE00BT7	3	30	100	3	₹ 723
CX01GBE001B4	4	14	50	4	₹ 390
CX01GBE001D9	4	25	75	4	₹ 615
CX01GBE00AR3	4	30	100	4	₹ 723
CX01GBE001F5	5	16	50	5	₹ 483
CX01GBE001H1	5	25	75	5	₹ 723
CX01GBE001K4	5	35	100	5	₹ 963
CX01GBE001M0	6	18	50	6	₹ 579
CX01GBE001P3	6	30	75	6	₹ 813
CX01GBE001R9	6	35	100	6	₹ 1,116
CX01GBE001T4	6	40	150	6	₹ 1,785
CX01GBE001W8	8	20	60	8	₹ 1,101
CX01GBE00202	8	30	75	8	₹ 1,317
CX01GBE00210	8	40	100	8	₹ 1,656
CX01GBE00CH3	8	30	150	8	₹ 2,538
CX01GBE00236	8	50	150	8	₹ 2,502
CX01GBE00BG6	8	30	200	8	₹ 3,573
CX01GBE00277	10	30	75	10	₹ 1,743
CX01GBE002A5	10	50	100	10	₹ 2,325
CX01GBE00FR8	10	30	150	10	₹ 3,582
CX01GBE002B3	10	60	150	10	₹ 3,582
CX01GBE00B14	10	30	200	10	₹ 4,716
CX01GBE00DU3	11	30	75	11	₹ 2,430
CX01GBE002E6	12	30	75	12	₹ 2,325
CX01GBE002H0	12	50	100	12	₹ 3,024
CX01GBE00AS0	12	25	150	12	₹ 4,584
CX01GBE002J5	12	60	150	12	₹ 4,584
CX01GBE00B22	12	30	200	12	₹ 6,264
CX01GBE00DV1	14	30	75	14	₹ 3,423
CX01GBE00DR0	16	30	75	16	₹ 4,104
CX01GBE002N6	16	50	100	16	₹ 5,298
CX01GBE002P2	16	60	150	16	₹ 7,827
CX01GBE00DS7	16	30	200	16	₹ 9,567
CX01GBE00CD1	20	50	100	20	₹ 8,541
CX01GBE00DT5	20	30	200	20	₹ 14,874



PL-53 w.e.f 15-Feb-2023

{ GST Extra As Applicable }

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Series	<u>103</u>	Carbide 2F Uncoated Flat End Mills for Wood			
Item Code UNCOATED	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CX0XGSE00H46	2	12	50	3	₹ 342
CX0XGSE00016	3	16	50	3	₹ 282
CX0XGSE00032	4	22	50	4	₹ 315
CX0XGSE00HG4	4	30	60	4	₹ 402
CX0XGSE00G13	4	35	75	4	₹ 489
CX0XGSE00G21	4	50	100	4	₹ 663
CX0XGSE00057	5	22	50	5	₹ 393
CX0XGSE00FZ4	5	30	60	5	₹ 501
CX0XGSE00G05	5	35	75	5	₹ 612
CX0XGSE00GQ3	5	50	100	5	₹ 831
CX0XGSE00073	6	22	50	6	₹ 465
CX0XGSE00099	6	30	60	6	₹ 597
CX0XGSE000A1	6	35	75	6	₹ 732
CX0XGSE00G88	6	50	100	6	₹ 993
CX0XGSE00HN8	8	22	50	8	₹ 750
CX0XGSE00FV3	8	30	60	8	₹ 936
CX0XGSE00RB5	7	35	75	7	₹ 1,305
CX0XGSE00GY5	8	35	75	8	₹ 1,125
CX0XGSE000G8	8	50	100	8	₹ 1,500
CX0XGSE00K50	10	35	75	10	₹ 1,527
CX0XGSE00H53	10	50	100	10	₹ 2,112
CX0XGSE00K68	12	35	75	12	₹ 2,157
CX0XGSE00H61	12	50	100	12	₹ 2,772



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Series	<u>103</u>	Carbide 2F TiAlN Coated Flat End Mills for Wood			
Item Code COATED	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CX01GSE000K8	1	6	50	3	₹ 336
CX01GSE000M4	1.5	8	50	3	₹ 336
CX01GSE00HD9	2	8	50	3	₹ 336
CX01GSE000P7	3	14	50	3	₹ 336
CX01GSE000Q5	4	22	50	4	₹ 357
CX01GSE00HE7	5	16	50	5	₹ 447
CX01GSE000R3	5	22	50	5	₹ 453
CX01GSE00H11	6	18	50	6	₹ 534
CX01GSE000S0	6	22	50	6	₹ 543
CX01GSE00G87	6	30	75	6	₹ 819
CX01GSE000T8	8	20	60	8	₹ 987
CX01GSE00H29	10	30	75	10	₹ 1,644
CX01GSE00H37	12	30	75	12	₹ 2,247





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Series	104		Carbide 2F Uncoated Ball Nose for Wood		
Item Code UNCOATED	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CX0XGBE00BM4	2	12	50	3	₹ 336
CX0XGBE003C1	3	16	50	3	₹ 333
CX0XGBE003F4	4	22	50	4	₹ 354
CX0XGBE00BS0	4	30	60	4	₹ 441
CX0XGBE00BD3	4	35	75	4	₹ 531
CX0XGBE003J5	5	22	50	5	₹ 441
CX0XGBE00054	5	30	60	5	₹ 549
CX0XGBE003M9	5	35	75	5	₹ 660
CX0XGBE00070	5	50	100	5	₹ 876
CX0XGBE003Q0	6	22	50	6	₹ 531
CX0XGBE00088	6	30	60	6	₹ 660
CX0XGBE000A8	6	35	75	6	₹ 789
CX0XGBE000C4	6	50	100	6	₹ 1,050
CX0XGBE000E9	8	20	60	8	₹ 1,083
CX0XGBE00AP8	8	22	50	8	₹ 828
CX0XGBE00AQ6	8	30	60	8	₹ 1,005
CX0XGBE00BF9	8	35	75	8	₹ 1,188
CX0XGBE000G5	8	50	100	8	₹ 1,554
CX0XGBE00E20	10	30	60	10	₹ 1,557
CX0XGBE00DY5	10	30	75	10	₹ 1,683
CX0XGBE00BN1	10	50	100	10	₹ 2,169
CX0XGBE00DZ3	12	30	75	12	₹ 2,241
CX0XGBE000H3	12	50	100	12	₹ 2,844



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Series	104		Carbide 2F TiAlN Coated Ball Nose for Wood		
Item Code COATED	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CX01GBE00C21	1	6	50	3	₹ 357
CX01GBE00AX9	1.5	8	50	3	₹ 357
CX01GBE000J7	2	8	50	3	₹ 357
CX01GBE00BE0	2.5	8	50	3	₹ 357
CX01GBE000N8	3	14	50	3	₹ 342
CX01GBE00BJ9	4	14	50	4	₹ 390
CX01GBE000P4	4	22	50	4	₹ 390
CX01GBE00BD2	4	25	75	4	₹ 630
CX01GBE00CF7	4	30	100	4	₹ 744
CX01GBE00C62	5	16	50	5	₹ 483
CX01GBE000Q2	5	22	50	5	₹ 483
CX01GBE000R0	6	18	50	6	₹ 579
CX01GBE000T5	6	22	50	6	₹ 579
CX01GBE00BZ4	6	30	60	6	₹ 738
CX01GBE00CE9	6	35	100	6	₹ 1,146
CX01GBE00CG5	8	20	60	8	₹ 1,101
CX01GBE00BK7	10	30	75	10	₹ 1,743
CX01GBE00BL5	12	30	75	12	₹ 2,325
CX01GBE00AZ5	12	25	150	12	₹ 4,584
CX01GBE00C05	12	30	200	12	₹ 6,264



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Series	<u>107</u>		Carbide 1F End Mills for Wood, MDF & Non Ferrous		
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CX0XGRB00014	3	16	50	3	₹ 438
CX0XGRB00022	4	22	50	4	₹ 468
CX0XGRB00030	4	30	60	4	₹ 585
CX0XGRB00048	4	35	75	4	₹ 699
CX0XGRB00055	4	50	100	4	₹ 927
CX0XGRB00063	5	22	50	5	₹ 585
CX0XGRB00071	5	30	60	5	₹ 729
CX0XGRB00089	5	35	75	5	₹ 870
CX0XGRB00097	5	50	100	5	₹ 1,161
CX0XGRB000A9	6	22	50	6	₹ 699
CX0XGRB000B7	6	30	60	6	₹ 870
CX0XGRB000C5	6	35	75	6	₹ 1,044
CX0XGRB000D2	6	50	100	6	₹ 1,392
CX0XGRB000E0	8	22	50	8	₹ 1,095
CX0XGRB000F8	8	30	60	8	₹ 1,335
CX0XGRB000G6	8	35	75	8	₹ 1,572
CX0XGRB000H4	8	50	100	8	₹ 2,058
CX0XGRB000S9	10	22	50	10	₹ 1,668
CX0XGRB000J9	10	30	60	10	₹ 1,971
CX0XGRB000K7	10	35	75	10	₹ 2,268
CX0XGRB000L5	10	50	100	10	₹ 2,874
CX0XGRB000M3	12	30	60	12	₹ 2,361
CX0XGRB000N0	12	35	75	12	₹ 2,721
CX0XGRB000P6	12	50	100	12	₹ 3,444
CX0XGRB000Q4	14	50	100	14	₹ 4,884
CX0XGRB000R2	16	50	100	16	₹ 5,790



Series	108	Carbide 2F Taper End Mills for Wood, Plastics, Non-Ferrous				
Ordering Code	Flute Diameter (D1)	Flute Length (L2)	Overall Length (L1)	Shank Diameter (D2)	Taper Angle (A*)	PL-53
10801506048-U	1	30	60	6	4* 50"	₹ 1,134
10801506043-U	1.5	30	60	6	4* 20"	₹ 1,134
10802006038-U	2	30	60	6	3* 50"	₹ 1,134
10803006029-U	3	30	60	6	2* 52"	₹ 1,134
10804006019-U	4	30	60	6	1* 52"	₹ 1,134
10804007538-U	4	30	75	8	3* 50"	₹ 2,040



Series	109	Carbide GP-2F Taper Ball Nose for Wood, Plastics, Non-Ferrous				
Ordering Code	Flute Diameter (D1)	Flute Length (L2)	Overall Length (L1)	Shank Diameter (D2)	Taper Angle (A*)	PL-53
10901506048-U	1	30	60	6	4* 50"	₹ 1,134
10901506043-U	1.5	30	60	6	4* 20"	₹ 1,134
10902006038-U	2	30	60	6	3* 50"	₹ 1,134
10903006029-U	3	30	60	6	2* 52"	₹ 1,134
10904006019-U	4	30	60	6	1* 52"	₹ 1,134
10904007538-U	4	30	75	8	3* 50"	₹ 2,040



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Series	<u>110</u>		Carbide 4F Flat End Mills with TiALN Coated up to 45HRc		
Item Code	Flute Diameter (D1)	Flute Length (L2)	Overall Length (L1)	Shank Diameter (D2)	PL-53
CX01GSE00K75	3	14	50	3	₹ 399
CX01GSE00KE4	3	25	75	3	₹ 594
CX01GSE00K83	4	14	50	4	₹ 441
CX01GSE00KF2	4	25	75	4	₹ 660
CX01GSE00KG0	4	30	100	4	₹ 834
CX01GSE00K91	5	16	50	5	₹ 531
CX01GSE00KH8	5	25	75	5	₹ 789
CX01GSE00KJ3	5	35	100	5	₹ 1,050
CX01GSE00L66	5	40	100	5	₹ 1,050
CX01GSE00KA3	6	18	50	6	₹ 660
CX01GSE00KK1	6	30	75	6	₹ 876
CX01GSE00KL9	6	35	100	6	₹ 1,134
CX01GSE00L74	6	40	100	6	₹ 1,134
110070060-F	7	20	60	7	₹ 1,050
CX01GSE00KB1	8	20	60	8	₹ 1,050
CX01GSE00KM7	8	30	75	8	₹ 1,284
CX01GSE00KN4	8	40	100	8	₹ 1,572
CX01GSE00L82	8	50	100	8	₹ 1,572
CX01GSE00LA2	8	50	150	8	₹ 2,568
110090075-F	9	30	75	9	₹ 1,782
CX01GSE00KC9	10	30	75	10	₹ 1,692
CX01GSE00KP0	10	50	100	10	₹ 2,238
CX01GSE00LB0	10	60	150	10	₹ 3,489
110110075-F	11	30	75	11	₹ 2,430
CX01GSE00KD6	12	30	75	12	₹ 2,328
CX01GSE00KQ8	12	50	100	12	₹ 3,087
CX01GSE00L90	12	60	150	12	₹ 4,527
CX01GSE00MG8	14	50	100	14	₹ 4,629
CX01GSE00KR6	16	50	100	16	₹ 5,304
CX01GSE00LC8	16	60	150	16	₹ 8,052
CX01GSE00MF0	18	50	100	18	₹ 7,146
CX01GSE00KS3	20	50	100	20	₹ 8,586



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Series	118	Carbide 2F Straight Flutes End Mill for Hard Wood			
Item Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CX0XGSE00QH3	3	15	50	4	₹ 426
CX0XGSE00Q96	3	15	50	6	₹ 618
CX0XGSE00QA8	3	20	50	6	₹ 645
CX0XGSE00QB6	4	16	50	6	₹ 618
CX0XGSE00QJ8	4	20	50	4	₹ 426
CX0XGSE00QC4	4	22	50	6	₹ 645
CX0XGSE00QK6	5	22	50	5	₹ 492
CX0XGSE00QD1	5	22	50	6	₹ 618
CX0XGSE00QE9	6	22	50	6	₹ 582
CX0XGSE00QL4	6	25	60	6	₹ 666
CX0XGSE00QG5	6	30	60	8	₹ 1,050
CX0XGSE00QF7	6	35	75	6	₹ 888
CX0XGSE00QM2	8	30	60	8	₹ 957
CX0XGSE00QN9	8	35	75	8	₹ 1,170
CX0XGSE00QP5	8	50	100	8	₹ 1,551
CX0XGSE00QQ3	10	30	60	10	₹ 1,485
CX0XGSE00QR1	10	40	75	10	₹ 1,710
CX0XGSE00QS8	10	50	100	10	₹ 2,175
CX0XGSE00QT6	12	30	60	12	₹ 1,854
CX0XGSE00QU4	12	35	75	12	₹ 2,154
CX0XGSE00QV2	12	50	100	12	₹ 2,754



Series	112	Carbide 2-F Down-Cut Bits for Plywood, Laminates			
Ordering Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
112060075-DOWN-U	6	25	75	6	₹ 1,332
1124501703"-DOWN-U	1/4	1"	3"	1/4	₹ 1,638
112080075-DOWN-U	8	25	75	8	₹ 1,638
112100075-DOWN-U	10	25	75	10	₹ 2,391
112120075-DOWN-U	12	25	75	12	₹ 3,012
1124495803"-DOWN-U	1/2	1"	3"	1/2	₹ 3,765



Series	114	Carbide 2-F Compression Bits for Plywood, Laminates			
Ordering Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
CX0XGCP00018	6	25	75	6	₹ 1,332
1140635090-COMP-U	1/4"	7/8"	3"	1/4"	₹ 1,638
CX0XGCP00026	8	25	75	8	₹ 1,638
1140950090-COMP-U	3/8"	1"	3"	3/8"	₹ 2,391
CX0XGCP00059	10	25	75	10	₹ 2,391
CX0XGCP00034	10	25	100	10	₹ 2,631
CX0XGCP00067	12	25	75	12	₹ 3,012
CX0XGCP00042	12	25	100	12	₹ 3,315
114127100-COMP-U	1/2"	1-5/16"	3"	1/2"	₹ 3,765
114060100-COMP-L-U	6	25	75	6	₹ 1,593
1140635100-COMP-L-U	1/4"	7/8"	3"	1/4"	₹ 1,941
114080100-COMP-L-U	8	25	75	8	₹ 1,992
114095100-COMP-L-U	3/8"	1"	3"	3/8"	₹ 2,862
114100090-COMP-L-U	10	25	75	10	₹ 2,862
114120090-COMP-L-U	12	25	75	12	₹ 3,693
114127100-COMP-L-U	1/2"	1-5/16"	4"	1/2"	₹ 4,083



Series	121	Carbide 4F Radius End Mills NOVA Coated				
Ordering Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	Corner Radius ( R )	PL-53
12103050-R0.5	3	14	50	3	R0.5	₹ 492
12103075-R0.5	3	25	75	3	R0.5	₹ 735
12104050-R0.5	4	14	50	4	R0.5	₹ 546
12104075-R0.5	4	25	75	4	R0.5	₹ 816
12104100-R0.5	4	30	100	4	R0.5	₹ 1,032
12105050-R0.5	5	16	50	5	R0.5	₹ 657
12105075-R0.5	5	25	75	5	R0.5	₹ 975
12105100-R0.5	5	40	100	5	R0.5	₹ 1,299
12106050-R0.5	6	18	50	6	R0.5	₹ 786
12106075-R0.5	6	30	75	6	R0.5	₹ 1,044
12106100-R0.5	6	40	100	6	R0.5	₹ 1,350
12108060-R0.5	8	20	60	8	R0.5	₹ 1,200
12108075-R0.5	8	30	75	8	R0.5	₹ 1,467
12108100-R0.5	8	40	100	8	R0.5	₹ 1,872
12108150-R0.5	8	50	150	8	R0.5	₹ 3,057
12110075-R0.5	10	30	75	10	R0.5	₹ 1,935
12110100-R0.5	10	50	100	10	R0.5	₹ 2,664
12110150-R0.5	10	60	150	10	R0.5	₹ 3,987
12112075-R0.5	12	30	75	12	R0.5	₹ 2,661
12112100-R0.5	12	50	100	12	R0.5	₹ 3,528
12112150-R0.5	12	60	150	12	R0.5	₹ 5,175
12114100-R1.0	14	50	100	14	R1.0	₹ 5,070
12116100-R1.0	16	50	100	16	R1.0	₹ 5,655
12116150-R1.0	16	60	150	16	R1.0	₹ 8,589
12118100-R1.0	18	50	100	18	R1.0	₹ 7,623
12120100-R1.0	20	50	100	20	R1.0	₹ 9,156



Series	122	Carbide 4F Flat End Mills with NOVA Coated			
Ordering Code	Flute Diameter (D1)	Flute Length (L1)	Overall Length (L2)	Shank Diameter (D2)	PL-53
122030050-N	3	14	50	3	₹ 456
122030075-N	3	25	75	3	₹ 678
122035050-N	3.5	14	50	3.5	₹ 504
122040050-N	4	14	50	4	₹ 504
122040075-N	4	25	75	4	₹ 753
122040100-N	4	30	100	4	₹ 951
122045050-N	4.5	16	50	4.5	₹ 606
122045075-N	4.5	25	75	4.5	₹ 900
122050050-N	5	16	50	5	₹ 606
122050075-N	5	25	75	5	₹ 900
122050100-N	5	40	100	5	₹ 1,200
122055050-N	5.5	18	50	5.5	₹ 753
122055075-N	5.5	30	75	5.5	₹ 1,002
122055100-N	5.5	40	100	5.5	₹ 1,296
122060050-N	6	18	50	6	₹ 753
122060075-N	6	30	75	6	₹ 1,002
122060100-N	6	40	100	6	₹ 1,296
122065060-N	6.5	20	60	6.5	₹ 1,149
122080060-N	8	20	60	8	₹ 1,101
122080075-N	8	30	75	8	₹ 1,344
122080100-N	8	40	100	8	₹ 1,722
122080150-N	8	50	150	8	₹ 2,814
122100075-N	10	30	75	10	₹ 1,773
122100100-N	10	50	100	10	₹ 2,451
122100150-N	10	60	150	10	₹ 3,654
122120075-N	12	30	75	12	₹ 2,439
122120100-N	12	50	100	12	₹ 3,381
122120150-N	12	60	150	12	₹ 4,959
122140100-N	14	50	100	14	₹ 4,848
122160100-N	16	50	100	16	₹ 5,454
122160150-N	16	60	150	16	₹ 8,283
122180100-N	18	50	100	18	₹ 7,350
122200100-N	20	50	100	20	₹ 8,829

