

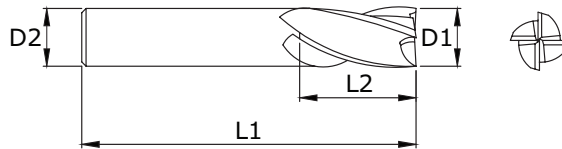


Solid Carbide End Mills

F177 TR Series

4 Flute

Centre cutting high performance end mill



P0-P6

K1-K3

S1-S4

M1-M3

				Unit : mm	
Diameter	EDP No	Flute Length	Overall Length	Shank Diameter	
ØD1		L2	L1	ØD2	
3	FBK0503876	6	38	3	
4	FBK0503954	14	51	4	
5	FBK0503956	20	51	5	
6	FBK0503484	20	64	6	
8	FBK0503485	20	64	8	
10	FBK0503422	25	70	10	
12	FBK0503487	25	76	12	
14	FBK0503488	30	89	14	
16	FBK0503489	30	89	16	
20	FBK0503490	35	102	20	

*Custom Solution possible Refer page 2.171

Available in Corner Radius

Tensile strength: N/mm² | Hardness: HRC

P0	P1	P2	P3	P4	P5	P6	M1	M2	M3	K1	K2	K3
<530	<530	<530	600-850	850-1400	600-900	900-1350	<600	600-800	<800	125-500	<600	>600
-	-	<25	<35	35-48	<35	35-48	-	<25	<30	<32	<28	<43

N1	N2	N3	N4	N5	N6	N7	S1-Fe Based	S2-Co Based	S3-Ni Based	S4-Ti Based	H1	H2	H3	H4
Wrought Al	Si<12.2%	Si>12.2%	Cu, Zn Alloy	Ny, Pl, Ru, Re, Fg	C, Gr, CFRP, Comp	NMC	500-1200	1000-1500	600-1700	900-1600	-	-	-	-
-	-	-	-	-	-	-	25-48	25-48	<48	33-48	44-48	48-55	56-60	61-70

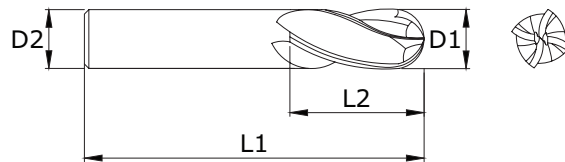


Solid Carbide End Mills

F179 TR Series

4 Flute

Centre cutting high performance ball nose end mill



P0-P6

K1-K3

S1-S4

M1-M3

					Unit : mm	
Diameter	EDP No	Flute Length	Overall Length	Shank Diameter		
Ø D1		L2	L1	Ø D2		
3	FBK0503958	6	38	6		
4	FBK0503888	15	64	6		
6	FBK0503889	16	64	6		
8	FBK0503890	20	64	8		
10	FBK0503891	20	70	10		
12	FBK0503892	25	76	12		
16	FBK0503893	30	89	16		
18	FBK0503894	35	102	18		

*Custom Solution possible Refer page 2.171

Tensile strength: N/mm² | Hardness: HRC

P0	P1	P2	P3	P4	P5	P6	M1	M2	M3	K1	K2	K3
<530	<530	<530	600-850	850-1400	600-900	900-1350	<600	600-800	<800	125-500	<600	>600
-	-	<25	<35	35-48	<35	35-48	-	<25	<30	<32	<28	<43

N1	N2	N3	N4	N5	N6	N7	S1-Fe Based	S2-Co Based	S3-Ni Based	S4-Ti Based	H1	H2	H3	H4
Wrought Al	Si<12.2%	Si>12.2%	Cu, Zn Alloy	Ny, Pt, Ru, Re, Fg	C, Gr, CFRP, Comp	NMC	500-1200	1000-1500	600-1700	900-1600	-	-	-	-
-	-	-	-	-	-	-	25-48	25-48	<48	33-48	44-48	48-55	56-60	61-70

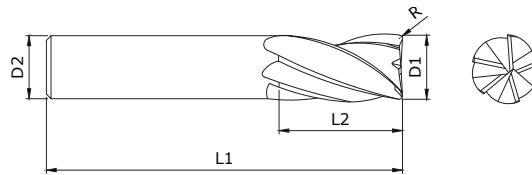
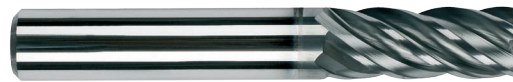


Solid Carbide End Mills

F178 TR Series

5 Flute

Centre cutting high performance end mill



P0-P6

K1-K3

S1-S4

M1-M3

				Unit : mm	
Diameter	EDP No	Flute Length	Overall Length	Shank Diameter	
Ø D1		L2	L1	Ø D2	
6	FBK0503491	20	64	6	
8	FBK0503492	20	64	8	
10	FBK0503493	25	70	10	
12	FBK0503494	25	76	12	
14	FBK0503495	30	89	14	
16	FBK0503496	30	89	16	
20	FBK0503497	35	102	20	

*Custom Solution possible Refer page 2.171

Tensile strength: N/mm² | Hardness: HRC

P0	P1	P2	P3	P4	P5	P6	M1	M2	M3	K1	K2	K3
<530	<530	<530	600-850	850-1400	600-900	900-1350	<600	600-800	<800	125-500	<600	>600
-	-	<25	<35	35-48	<35	35-48	-	<25	<30	<32	<28	<43

N1	N2	N3	N4	N5	N6	N7	S1-Fe Based	S2-Co Based	S3-Ni Based	S4-Ti Based	H1	H2	H3	H4
Wrought Al	Si<12.2%	Si>12.2%	Cu, Zn Alloy	Ny, Pl, Ru, Re, Fg	C, Gr, CFRP, Comp	NMC	500-1200	1000-1500	600-1700	900-1600	-	-	-	-
-	-	-	-	-	-	-	25-48	25-48	<48	33-48	44-48	48-55	56-60	61-70