



**SOLID MILLING TOOLS
ALONG WITH DEBURRING TOOLS**

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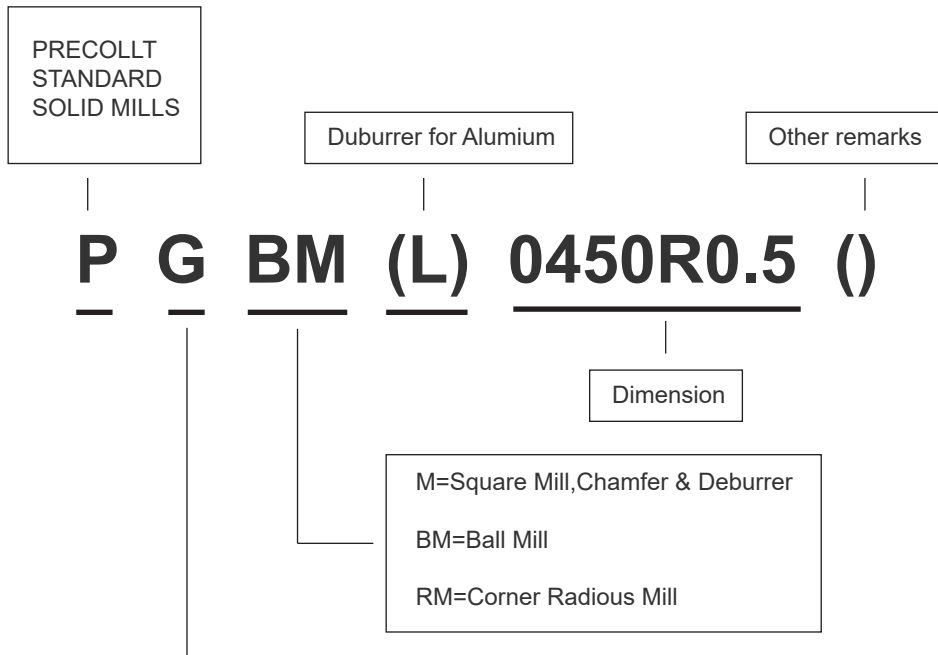
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IICHAMFERING&DEBURRING

D Common
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SD Spiral Center Drill
2SD Doublet Spiral Center Drill
UD Undercutting
2UD Forward / Reverse
YD Dovetail



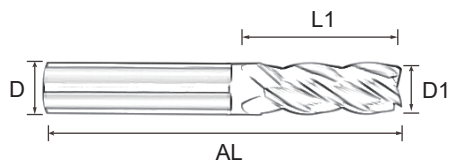
- G: HRC55 General Purpose
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- H: HRC65 General Purpose
- K: (Ductile) Cast Iron Type Purpose
- S: HRC50 Toughness Type
- T: Titanium Type Purpose
- SS: Special for SUS
- L: Alu Classic Type
- PL: Fiberglass, Plastic, Alu Sharp Type
- TS: T Slot Tye
- R: Rough Type

- D: Chamfering, deburring
- RD: Inner Radius Chamfering, deburring
- SD: Spiral Chamfering, deburring
- 2SD: Double end Chamfering, deburring
- UD: Undercutting deburring
- 2UD: Forward / Reverse chamfering deburring
- YD: Dovetail chamfering, deburring

G HRC55 General Purpose

- Applicable materials: ≤HRC55, nonferrous alloy, steel, pre hardened steel, quenched and tempered steel, stainless steel and other materials.
- Characteristic: Realize finishing from high metal removal to high precision and high surface quality.

► **End Mill-4F**



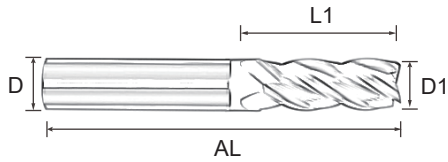
Coating
TiSiN

D 0~0.020

F

Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PGM010450	1	3	4	50	4	/
PGM010475	1	3	4	75	4	/
PGM0104100	1	3	4	100	4	/
PGM0150450	1.5	4	4	50	4	/
PGM0150475	1.5	4	4	75	4	/
PGM01504100	1.5	4	4	100	4	/
PGM020450	2	5	4	50	4	/
PGM020475	2	5	4	75	4	/
PGM0204100	2	5	4	100	4	/
PGM0250450	2.5	7	4	50	4	/
PGM030350	3	8	3	50	4	/
PGM030375	3	9	3	75	4	/
PGM0303100	3	12	3	100	4	/
PGM030450	3	8	4	50	4	/
PGM030475	3	9	4	75	4	/
PGM0304100	3	12	4	100	4	/
PGM0350450	3.5	9	4	50	4	/
PGM040450	4	10	4	50	4	/
PGM040475	4	16	4	75	4	/
PGM0404100	4	20	4	100	4	/
PGM0404150	4	20	4	150	4	/
PGM050550	5	13	5	50	4	/
PGM050575	5	18	5	75	4	/
PGM0505100	5	20	5	100	4	/
PGM0505150	5	20	5	150	4	/
PGM060650	6	15	6	50	4	/
PGM060675	6	24	6	75	4	/
PGM0606100	6	30	6	100	4	/
PGM0606150	6	45	6	150	4	/
PGM0606200	6	45	6	200	4	/
PGM080860	8	20	8	60	4	/
PGM080875	8	25	8	75	4	/

► **End Mill-4F**

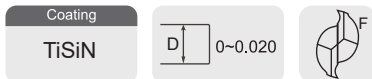
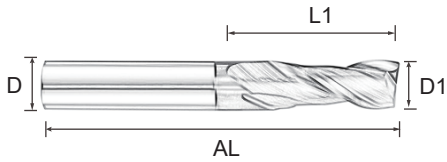


Coating
TiSiN

D 0-0.020

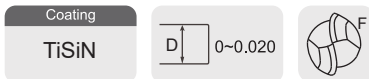
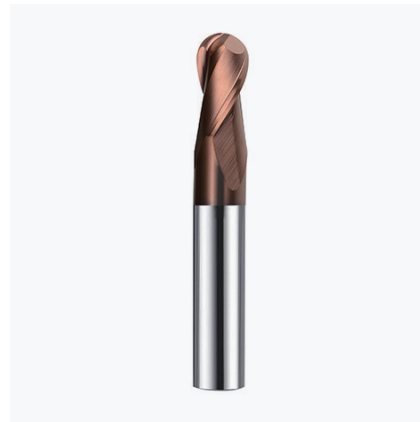
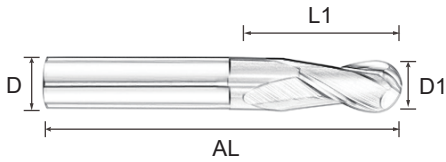
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PGM0808150	8	50	8	150	4	/
PGM0808200	8	50	8	200	4	/
PGM101075	10	25	10	75	4	/
PGM1010100	10	40	10	100	4	/
PGM1010150	10	55	10	150	4	/
PGM1010200	10	55	10	200	4	/
PGM1010250	10	55	10	250	4	/
PGM121275	12	30	12	75	4	/
PGM1212100	12	45	12	100	4	/
PGM1212150	12	55	12	150	4	/
PGM1212200	12	55	12	200	4	/
PGM1212250	12	55	12	250	4	/
PGM1414100	14	45	14	100	4	/
PGM1414150	14	60	14	150	4	/
PGM1414200	14	60	14	200	4	/
PGM1616100	16	45	16	100	4	/
PGM1616150	16	70	16	150	4	/
PGM1616200	16	70	16	200	4	/
PGM1616250	16	70	16	250	4	/
PGM1818100	18	45	18	100	4	/
PGM1818150	18	70	18	150	4	/
PGM1818200	18	70	18	200	4	/
PGM2020100	20	45	20	100	4	/
PGM2020150	20	70	20	150	4	/
PGM2020200	20	70	20	200	4	/
PGM2020250	20	70	20	250	4	/
PGM2222100	22	45	22	100	4	/
PGM2525100	25	45	25	100	4	/

► End Mill-2F



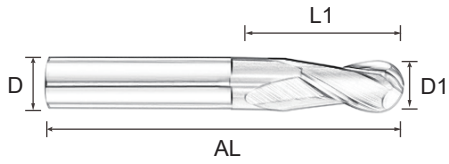
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PGM010475-2	1	3	4	75	2	/
PGM0150450-2	1.5	4	4	50	2	/
PGM0150475-2	1.5	4	4	75	2	/
PGM020450-2	2	5	4	50	2	/
PGM020470-2	2	5	4	75	2	/
PGM0250450-2	2.5	7	4	50	2	/
PGM0250475-2	2.5	7	4	75	2	/
PGM030350-2	3	8	3	50	2	/
PGM0303100-2	3	12	3	100	2	/
PGM030450-2	3	8	4	50	2	/
PGM030475-2	3	9	4	75	2	/
PGM0350450-2	3.5	9	4	50	2	/
PGM0350475-2	3.5	9	4	75	2	/
PGM040450-2	4	10	4	50	2	/
PGM040475-2	4	16	4	75	2	/
PGM0404100-2	4	20	4	100	2	/
PGM050550-2	5	13	5	50	2	/
PGM050575-2	5	18	5	75	2	/
PGM0505100-2	5	20	5	100	2	/
PGM060650-2	6	15	6	50	2	/
PGM060675-2	6	24	6	75	2	/
PGM0606100-2	6	30	6	100	2	/
PGM0606150-2	6	45	6	150	2	/
PGM080860-2	8	20	8	60	2	/
PGM080875-2	8	25	8	75	2	/
PGM0808100-2	8	35	8	100	2	/
PGM0808150-2	8	50	8	150	2	/
PGM101075-2	10	25	10	75	2	/
PGM1010100-2	10	40	10	100	2	/
PGM1010150-2	10	55	10	150	2	/
PGM121275-2	12	30	12	75	2	/
PGM1212100-2	12	45	12	100	2	/
PGM1212150-2	12	55	12	150	2	/
PGM1414100-2	14	45	14	100	2	/
PGM1616100-2	16	45	16	100	2	/
PGM1818100-2	18	45	18	100	2	/
PGM2020100-2	20	45	20	100	2	/

► **Ball Nose End Mill**



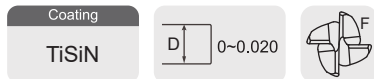
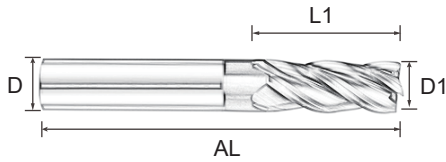
Part No.	DIMENSION					
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PGBM0475R05	1	2	4	75	2	R0.5
PGBM04100R05	1	2	4	100	2	R0.5
PGBM0450R075	1.5	3	4	50	2	R0.75
PGBM0475R075	1.5	3	4	75	2	R0.75
PGBM04100R075	1.5	3	4	100	2	R0.75
PGBM0450R10	2	4	4	50	2	R1
PGBM0475R10	2	4	4	75	2	R1
PGBM04100R10	2	4	4	100	2	R1
PGBM0450R125	2.5	5	4	50	2	R1.25
PGBM0475R125	2.5	5	4	75	2	R1.25
PGBM0350R15	3	6	3	50	2	R1.5
PGBM0375R15	3	6	3	75	2	R1.5
PGBM03100R15	3	6	3	100	2	R1.5
PGBM0450R15	3	6	4	50	2	R1.5
PGBM0475R15	3	6	4	75	2	R1.5
PGBM04100R15	3	6	4	100	2	R1.5
PGBM0450R175	3.5	7	4	50	2	R1.75
PGBM0450R20	4	8	4	50	2	R2
PGBM0475R20	4	8	4	75	2	R2
PGBM04100R20	4	8	4	100	2	R2
PGBM0550R25	5	10	5	50	2	R2.5
PGBM0575R25	5	10	5	75	2	R2.5
PGBM05100R25	5	10	5	100	2	R2.5
PGBM0650R25	5	10	6	50	2	R2.5
PGBM0675R25	5	10	6	75	2	R2.5
PGBM06100R25	5	10	6	100	2	R2.5
PGBM0650R30	6	12	6	50	2	R3
PGBM0675R30	6	12	6	75	2	R3
PGBM06100R30	6	12	6	100	2	R3
PGBM06150R30	6	12	6	150	2	R3
PGBM0860R40	8	16	8	60	2	R4
PGBM0875R40	8	16	8	75	2	R4
PGBM08100R40	8	16	8	100	2	R4
PGBM08150R40	8	16	8	150	2	R4
PGBM1075R50	10	20	10	75	2	R5
PGBM10100R50	10	20	10	100	2	R5
PGBM10150R50	10	20	10	150	2	R5
PGBM1275R60	12	24	12	75	2	R6
PGBM12100R60	12	24	12	100	2	R6
PGBM12150R60	12	24	12	150	2	R6
PGBM14100R70	14	28	14	100	2	R7

► Ball Nose End Mill



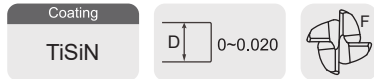
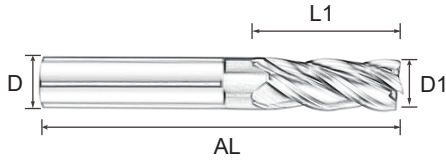
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PGBM14150R70	14	28	14	150	2	R7
PGBM16100R80	16	32	16	100	2	R8
PGBM16150R80	16	32	16	150	2	R8
PGBM18100R90	18	36	18	100	2	R9
PGBM20100R100	20	40	20	100	2	R10
PGBM20150R100	20	40	20	150	2	R10

► **Corner Radius End Mill**



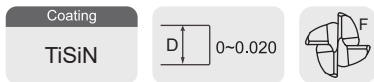
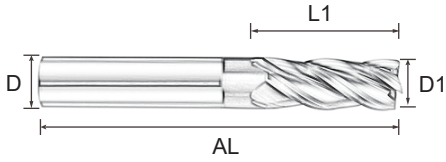
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PGRM0150450R02	1.5	4	4	50	4	0.2
PGRM020450R02	2	5	4	50	4	0.2
PGRM0250450R02	2.5	6	4	50	4	0.2
PGRM030350R02	3	8	3	50	4	0.2
PGRM030450R02	3	8	4	50	4	0.2
PGRM040450R02	4	10	4	50	4	0.2
PGRM040475R02	4	16	4	75	4	0.2
PGRM0404100R02	4	20	4	100	4	0.2
PGRM050550R02	5	13	5	50	4	0.2
PGRM060650R02	6	15	6	50	4	0.2
PGRM060675R02	6	20	6	75	4	0.2
PGRM0606100R02	6	25	6	100	4	0.2
PGRM080860R02	8	20	8	60	4	0.2
PGRM080875R02	8	25	8	75	4	0.2
PGRM0808100R02	8	30	8	100	4	0.2
PGRM101075R02	10	25	10	75	4	0.2
PGRM1010100R02	10	30	10	100	4	0.2
PGRM121275R02	12	30	12	75	4	0.2
PGRM0150450R05	1.5	4	4	50	4	0.5
PGRM020450R05	2	5	4	50	4	0.5
PGRM0250450R05	2.5	6	4	50	4	0.5
PGRM030450R05	3	8	4	50	4	0.5
PGRM030350R05	3	8	3	50	4	0.5
PGRM030375R05	3	9	3	75	4	0.5
PGRM0303100R05	3	12	3	100	4	0.5
PGRM0350450R05	3.5	9	4	50	4	0.5
PGRM040450R05	4	10	4	50	4	0.5
PGRM040475R05	4	16	4	75	4	0.5
PGRM0404100R05	4	20	4	100	4	0.5
PGRM050550R05	5	13	5	50	4	0.5
PGRM050650R05	5	13	6	50	4	0.5
PGRM060650R05	6	15	6	50	4	0.5
PGRM060675R05	6	20	6	75	4	0.5
PGRM0606100R05	6	25	6	100	4	0.5
PGRM0606150R05	6	40	6	150	4	0.5
PGRM080860R05	8	20	8	60	4	0.5
PGRM080875R05	8	25	8	75	4	0.5
PGRM0808100R05	8	30	8	100	4	0.5
PGRM08045150	8	45	8	150	4	0.5
PGRM101075R05	10	25	10	75	4	0.5

► Corner Radius End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PGRM1010100R05	10	30	10	100	4	0.5
PGRM1010150R05	10	50	10	150	4	0.5
PGRM121275R05	12	30	12	75	4	0.5
PGRM1212100R05	12	35	12	100	4	0.5
PGRM1212150R05	12	55	12	150	4	0.5
PGRM1414100R05	14	35	14	100	4	0.5
PGRM1616100R05	16	40	16	100	4	0.5
PGRM1616150R05	16	65	16	150	4	0.5
PGRM2020100R05	20	40	20	100	4	0.5
PGRM2020150R05	20	70	20	150	4	0.5
PGRM030450R10	3	8	4	50	4	R1
PGRM040450R10	4	10	4	50	4	R1
PGRM040475R10	4	16	4	75	4	R1
PGRM0404100R10	4	20	4	100	4	R1
PGRM050550R10	5	13	5	50	4	R1
PGRM050575R10	5	15	5	75	4	R1
PGRM050650R10	5	13	6	50	4	R1
PGRM060650R10	6	15	6	50	4	R1
PGRM060675R10	6	20	6	75	4	R1
PGRM0606100R10	6	25	6	100	4	R1
PGRM0606150R10	6	40	6	150	4	R1
PGRM080860R10	8	20	8	60	4	R1
PGRM080875R10	8	25	8	75	4	R1
PGRM0808100R10	8	30	8	100	4	R1
PGRM0808150R10	8	45	8	150	4	R1
PGRM101075R10	10	25	10	75	4	R1
PGRM1010100R10	10	30	10	100	4	R1
PGRM1010150R10	10	50	10	150	4	R1
PGRM121275R10	12	30	12	75	4	R1
PGRM1212100R10	12	35	12	100	4	R1
PGRM1212150R10	12	55	12	150	4	R1
PGRM1414100R10	14	35	14	100	4	R1
PGRM1616100R10	16	40	16	100	4	R1
PGRM1616150R10	16	65	16	150	4	R1
PGRM2020100R10	20	40	20	100	4	R1
PGRM2020150R10	20	70	20	150	4	R1
PGRM060650R15	6	15	6	50	4	R1.5
PGRM080860R15	8	20	8	60	4	R1.5
PGRM080875R15	8	25	8	75	4	R1.5
PGRM101075R15	10	25	10	75	4	R1.5
PGRM1010100R15	10	30	10	100	4	R1.5

► **Corner Radius End Mill**

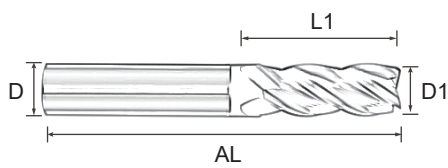


Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PGRM1010150R15	10	50	10	150	4	R1.5
PGRM121275R15	12	30	12	75	4	R1.5
PGRM1212100R15	12	35	12	100	4	R1.5
PGRM2020100R15	20	40	20	100	4	R1.5
PGRM060650R20	6	15	6	50	4	R2
PGRM060675R20	6	20	6	75	4	R2
PGRM080860R20	8	20	8	60	4	R2
PGRM080875R20	8	25	8	75	4	R2
PGRM0808100R20	8	30	8	100	4	R2
PGRM0808150R20	8	45	8	150	4	R2
PGRM101075R20	10	25	10	75	4	R2
PGRM1010100R20	10	30	10	100	4	R2
PGRM1010150R20	10	50	10	150	4	R2
PGRM121275R20	12	30	12	75	4	R2
PGRM1212100R20	12	35	12	100	4	R2
PGRM1212150R20	12	55	12	150	4	R2
PGRM1616100R20	16	40	16	100	4	R2
PGRM1616150R20	16	65	16	150	4	R2
PGRM2020100R20	20	40	20	100	4	R2
PGRM121275R25	12	30	12	75	4	R2.5
PGRM1212100R25	12	35	12	100	4	R2.5
PGRM101075R30	10	25	10	75	4	R3
PGRM1010100R30	10	30	10	100	4	R3
PGRM121275R30	12	30	12	75	4	R3
PGRM1212100R30	12	35	12	100	4	R3
PGRM1212150R30	12	55	12	150	4	R3
PGRM1616100R30	16	40	16	100	4	R3
PGRM1616150R30	16	65	16	150	4	R3
PGRM2020100R30	20	40	20	100	4	R3
PGRM2020150R30	20	70	20	150	4	R3

G1 HRC60 General Purpose

- Applicable materials: ≤HRC60, pre hardened steel, hardened steel, cast iron, ductile iron, etc.
- Characteristic: The high coating hardness and excellent high-temperature oxidation resistance are more suitable for high hardness materials and high-speed machining fields. Antique copper dot matrix heterogeneous coating, higher coating hardness and excellent high temperature oxidation resistance, more closely combined with the substrate. Special surface post-treatment can effectively reduce friction, discharge chips more smoothly, and the quality of machined surface is better.

► End Mill



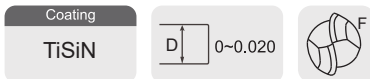
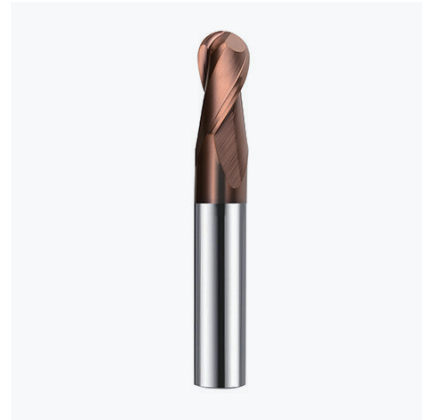
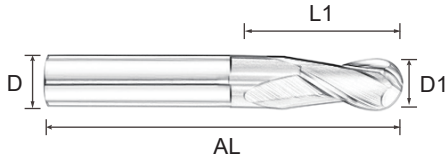
Coating
TiSiN

D 0-0.020

F

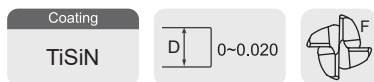
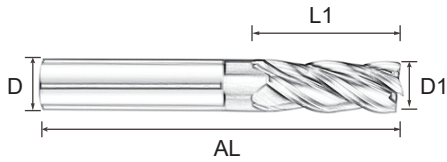
Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PG1M010450	1	3	4	50	4	/
PG1M0150450	1.5	4	4	50	4	/
PG1M020450	2	5	4	50	4	/
PG1M0250450	2.5	7	4	50	4	/
PG1M030350	3	8	3	50	4	/
PG1M030450	3	8	4	50	4	/
PG1M030375	3	9	3	75	4	/
PG1M0303100	3	12	3	100	4	/
PG1M0350450	3.5	9	4	50	4	/
PG1M040450	4	10	4	50	4	/
PG1M040475	4	16	4	75	4	/
PG1M0404100	4	20	4	100	4	/
PG1M050550	5	13	5	50	4	/
PG1M050650	5	13	6	50	4	/
PG1M050575	5	18	5	75	4	/
PG1M0505100	5	20	5	100	4	/
PG1M060650	6	15	6	50	4	/
PG1M060675	6	24	6	75	4	/
PG1M0606100	6	30	6	100	4	/
PG1M0808060	8	20	8	60	4	/
PG1M080875	8	25	8	75	4	/
PG1M0808100	8	35	8	100	4	/
PG1M0808150	8	50	8	150	4	/
PG1M101075	10	25	10	75	4	/
PG1M1010100	10	40	10	100	4	/
PG1M1010150	10	55	10	150	4	/
PG1M121275	12	30	12	75	4	/
PG1M1212100	12	45	12	100	4	/
PG1M1212150	12	55	12	150	4	/
PG1M1414100	14	45	14	100	4	/
PG1M1414150	14	60	14	150	4	/
PG1M1616100	16	45	16	100	4	/
PG1M1616150	16	70	16	150	4	/
PG1M1818100	18	45	18	100	4	/
PG1M2020100	20	45	20	100	4	/
PG1M2020150	20	70	20	150	4	/

► **Ball Nose End Mill**



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PG1BM0450R05	1	2	4	50	2	R0.5
PG1BM0450R075	1.5	3	4	50	2	R0.75
PG1BM0450R10	2	4	4	50	2	R1
PG1BM0450R115	2.5	5	4	50	2	R1.15
PG1BM0450R15	3	6	4	50	2	R1.5
PG1BM0350R15	3	6	3	50	2	R1.5
PG1BM0375R15	3	6	3	75	2	R1.5
PG1BM03100R15	3	6	3	100	2	R1.5
PG1BM0450R20	4	8	4	50	2	R2
PG1BM0475R20	4	8	4	75	2	R2
PG1BM04100R20	4	8	4	100	2	R2
PG1BM0550R25	5	10	5	50	2	R2.5
PG1BM0575R25	5	10	5	75	2	R2.5
PG1BM05100R25	5	10	5	100	2	R2.5
PG1BM0650R25	5	10	6	50	2	R2.5
PG1BM0675R25	5	10	6	75	2	R2.5
PG1BM06100R25	5	10	6	100	2	R2.5
PG1BM0650R30	6	12	6	50	2	R3
PG1BM0675R30	6	12	6	75	2	R3
PG1BM06100R30	6	12	6	100	2	R3
PG1BM0860R40	8	16	8	60	2	R4
PG1BM0875R40	8	16	8	75	2	R4
PG1BM08100R40	8	16	8	100	2	R4
PG1BM1075R50	10	20	10	75	2	R5
PG1BM10100R50	10	20	10	100	2	R5
PG1BM10150R50	10	20	10	150	2	R5
PG1BM1275R60	12	24	12	75	2	R6
PG1BM12100R60	12	24	12	100	2	R6
PG1BM16100R80	16	32	16	100	2	R8
PG1BM16150R80	16	32	16	150	2	R8
PG1BM20100R100	20	40	20	100	2	R10

► Corner Radius End Mill

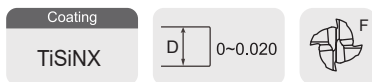
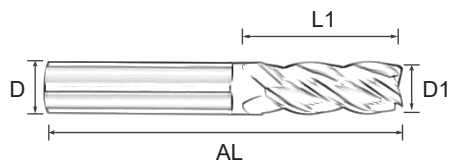


Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PG1RM010450R02	1	3	4	50	4	0.2
PG1RM0150450R02	1.5	4	4	50	4	0.2
PG1RM020450R02	2	5	4	50	4	0.2
PG1RM0250450R02	2.5	6	4	50	4	0.2
PG1RM030350R02	3	8	3	50	4	0.2
PG1RM030450R02	3	8	4	50	4	0.2
PG1RM030475R02	3	9	4	75	4	0.2
PG1RM040450R02	4	10	4	50	4	0.2
PG1RM060450R02	6	15	4	50	4	0.2
PG1RM060475R02	6	20	4	75	4	0.2
PG1RM080460R02	8	20	4	60	4	0.2
PG1RM0150450R05	1.5	4	4	50	4	0.5
PG1RM020450R05	2	5	4	50	4	0.5
PG1RM0250450R05	2.5	6	4	50	4	0.5
PG1RM030450R05	3	8	4	50	4	0.5
PG1RM030350R05	3	8	3	50	4	0.5
PG1RM040450R05	4	10	4	50	4	0.5
PG1RM040475R05	4	16	4	75	4	0.5
PG1RM0404100R05	4	20	4	100	4	0.5
PG1RM060650R05	6	15	6	50	4	0.5
PG1RM060675R05	6	20	6	75	4	0.5
PG1RM0606100R05	6	25	6	100	4	0.5
PG1RM080860R05	8	20	8	60	4	0.5
PG1RM080875R05	8	25	8	75	4	0.5
PG1RM0808100R05	8	30	8	100	4	0.5
PG1RM101075R05	10	25	10	75	4	0.5
PG1RM1010100R05	10	30	10	100	4	0.5
PG1RM121275R05	12	30	12	75	4	0.5
PG1RM1212100R05	12	35	12	100	4	0.5
PG1RM040450R10	4	10	4	50	4	R1
PG1RM0404100R10	4	20	4	100	4	R1
PG1RM060650R10	6	15	6	50	4	R1
PG1RM060675R10	6	20	6	75	4	R1
PG1RM0606100R10	6	25	6	100	4	R1
PG1RM080860R10	8	20	8	60	4	R1
PG1RM080875R10	8	25	8	75	4	R1
PG1RM0808100R10	8	30	8	100	4	R1
PG1RM101075R10	10	25	10	75	4	R1
PG1RM1010100R10	10	30	10	100	4	R1
PG1RM1010150R10	10	50	10	150	4	R1
PG1RM121275R10	12	30	12	75	4	R1
PG1RM1212100R10	12	35	12	100	4	R1

H HRC65 General Purpose

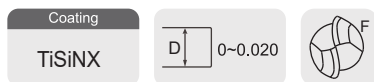
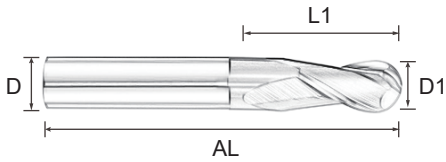
- Applicable materials: ≤HRC65, pre hardened steel, hardened steel, cast iron, ductile iron, etc.
- Characteristic: The high coating hardness and excellent high-temperature oxidation resistance are more suitable for high hardness materials and high-speed machining fields. Special surface post-treatment can effectively reduce friction, discharge chips more smoothly, and the quality of machined surface is better.

► End Mill



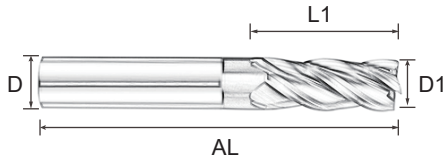
Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PHM010450	1	3	4	50	4	/
PHM0150450	1.5	4	4	50	4	/
PHM020450	2	5	4	50	4	/
PHM0250450	2.5	7	4	50	4	/
PHM030450	3	8	4	50	4	/
PHM030350	3	8	3	50	4	/
PHM0304100	3	12	4	100	4	/
PHM0350450	3.5	9	4	50	4	/
PHM040450	4	10	4	50	4	/
PHM040475	4	16	4	75	4	/
PHM0404100	4	20	4	100	4	/
PHM050550	5	13	5	50	4	/
PHM050575	5	18	5	75	4	/
PHM0505100	5	20	5	100	4	/
PHM050650	5	13	6	50	4	/
PHM050675	5	18	6	75	4	/
PHM060650	6	15	6	50	4	/
PHM060675	6	24	6	75	4	/
PHM0606100	6	30	6	100	4	/
PHM080860	8	20	8	60	4	/
PHM080875	8	25	8	75	4	/
PHM0808100	8	35	8	100	4	/
PHM0808150	8	50	8	150	4	/
PHM101075	10	25	10	75	4	/
PHM1010100	10	40	10	100	4	/
PHM1010150	10	55	10	150	4	/
PHM121275	12	30	12	75	4	/
PHM1212100	12	45	12	100	4	/
PHM1212150	12	55	12	150	4	/
PHM1414150	14	60	14	150	4	/
PHM1616100	16	45	16	100	4	/
PHM1616150	16	70	16	150	4	/
PHM1818100	18	45	18	100	4	/
PHM2020100	20	45	20	100	4	/
PHM2020150	20	70	20	150	4	/

► Ball Nose End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PHBM0450R05	0.5	2	4	50	2	R0.5
PHBM0450R075	0.75	3	4	50	2	R0.75
PHBM0450R10	1	4	4	50	2	R1
PHBM0450R125	1.25	5	4	50	2	R1.25
PHBM0450R15	1.5	6	4	50	2	R1.5
PHBM0350R15	1.5	6	3	50	2	R1.5
PHBM0450R175	1.75	7	4	50	2	R1.75
PHBM0450R20	2	8	4	50	2	R2
PHBM0475R20	2	8	4	75	2	R2
PHBM04100R20	2	8	4	100	2	R2
PHBM0550R25	2.5	10	5	50	2	R2.5
PHBM05100R25	2.5	10	5	100	2	R2.5
PHBM0650R25	2.5	10	6	50	2	R2.5
PHBM0650R30	3	12	6	50	2	R3
PHBM0675R30	3	12	6	75	2	R3
PHBM06100R30	3	12	6	100	2	R3
PHBM0860R40	4	16	8	60	2	R4
PHBM0875R40	4	16	8	75	2	R4
PHBM08100R40	4	16	8	100	2	R4
PHBM1075R50	5	20	10	75	2	R5
PHBM10100R50	5	20	10	100	2	R5
PHBM10150R50	5	20	10	150	2	R5
PHBM1275R60	6	24	12	75	2	R6
PHBM12100R60	6	24	12	100	2	R6
PHBM16100R80	8	32	16	100	2	R8

► **Corner Radius End Mill**



Coating
TiSiN_X

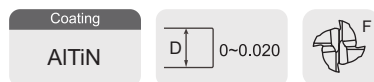
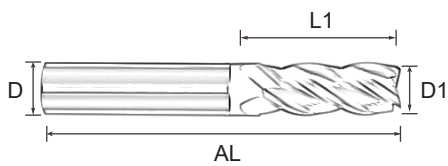
D 0~0.020

Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PHRM010450R02	1	3	4	50	4	R0.2
PHRM0150450R02	1.5	4	4	50	4	R0.2
PHRM020450R02	2	5	4	50	4	R0.2
PHRM030450R02	3	8	4	50	4	R0.2
PHRM040450R02	4	10	4	50	4	R0.2
PHRM040475R02	4	16	4	75	4	R0.2
PHRM060650R02	6	15	6	50	4	R0.2
PHRM060675R02	6	20	6	75	4	R0.2
PHRM080860R02	8	20	8	60	4	R0.2
PHRM080875R02	8	25	8	75	4	R0.2
PHRM020450R05	2	5	4	50	4	R0.5
PHRM030450R05	3	8	4	50	4	R0.5
PHRM030350R05	3	8	3	50	4	R0.5
PHRM040450R05	4	10	4	50	4	R0.5
PHRM040475R05	4	16	4	75	4	R0.5
PHRM0404100R05	4	20	4	100	4	R0.5
PHRM050650R05	5	13	6	50	4	R0.5
PHRM060650R05	6	15	6	50	4	R0.5
PHRM060675R05	6	20	6	75	4	R0.5
PHRM0606100R05	6	25	6	100	4	R0.5
PHRM080860R05	8	20	8	60	4	R0.5
PHRM080875R05	8	25	8	75	4	R0.5
PHRM0808100R05	8	30	8	100	4	R0.5
PHRM101075R05	10	25	10	75	4	R0.5
PHRM121275R05	12	30	12	75	4	R0.5
PHRM1212100R05	12	35	12	100	4	R0.5
PHRM040450R10	4	10	4	50	4	R1
PHRM060650R10	6	15	6	50	4	R1
PHRM060675R10	6	20	6	75	4	R1
PHRM0606100R10	6	25	6	100	4	R1
PHRM080860R10	8	20	8	60	4	R1
PHRM080875R10	8	25	8	75	4	R1
PHRM101075R10	10	25	10	75	4	R1
PHRM1010100R10	10	30	10	100	4	R1
PHRM1212100R10	12	30	12	100	4	R1

K (Ductile) Cast Iron Type Purpose

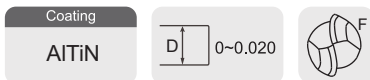
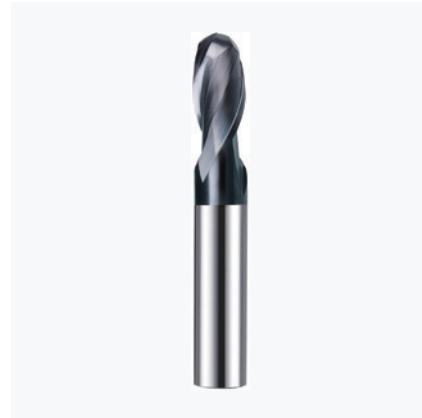
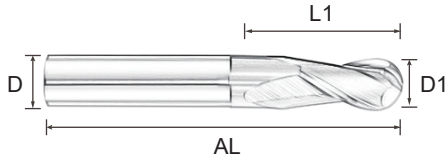
- Suitable for machining pre-hardened steel, hardened steel, cast iron, ductile iron, and other materials with a hardness of \leq HRC 60.
- The AITiN coating is highly resistant to high temperatures and oxidation, offering a combination of high hardness and low cutting resistance, providing high-performance capabilities.

► End Mill



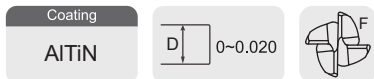
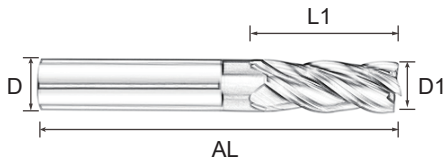
Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PKM010450	1	3	4	50	4	/
PKM0150450	1.5	4	4	50	4	/
PKM020450	2	5	4	50	4	/
PKM0250450	2.5	7	4	50	4	/
PKM030450	3	8	4	50	4	/
PKM030350	3	8	3	50	4	/
PKM030375	3	9	3	75	4	/
PKM040450	4	10	4	50	4	/
PKM040475	4	16	4	75	4	/
PKM0404100	4	20	4	100	4	/
PKM050550	5	13	5	50	4	/
PKM050575	5	18	5	75	4	/
PKM050650	5	13	6	50	4	/
PKM060650	6	15	6	50	4	/
PKM060675	6	24	6	75	4	/
PKM0606100	6	30	6	100	4	/
PKM080860	8	20	8	60	4	/
PKM080875	8	25	8	75	4	/
PKM0808100	8	35	8	100	4	/
PKM0808150	8	50	8	150	4	/
PKM101075	10	25	10	75	4	/
PKM1010100	10	40	10	100	4	/
PKM121275	12	30	12	75	4	/
PKM1212100	12	45	12	100	4	/
PKM1212150	12	55	12	150	4	/
PKM1414100	14	45	14	100	4	/
PKM1414150	14	60	14	150	4	/
PKM1616100	16	45	16	100	4	/
PKM1616150	16	70	16	150	4	/

► **Ball Nose End Mill**



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PKBM0450R05	1	2	4	50	2	R0.5
PKBM0450R075	1.5	3	4	50	2	R0.75
PKBM0450R10	2	4	4	50	2	R1
PKBM0350R15	3	6	3	50	2	R1.5
PKBM030450R15	3	6	4	50	2	R1.5
PKBM0450R20	4	8	4	50	2	R2
PKBM0475R20	4	8	4	75	2	R2
PKBM04100R20	4	8	4	100	2	R2
PKBM0650R25	5	10	6	50	2	R2.5
PKBM0650R30	6	12	6	50	2	R3
PKBM0675R30	6	12	6	75	2	R3
PKBM06100R30	6	12	6	100	2	R3
PKBM0860R40	8	16	8	60	2	R4
PKBM0875R40	8	16	8	75	2	R4
PKBM08100R40	8	16	8	100	2	R4
PKBM1075R50	10	20	10	75	2	R5
PKBM10100R50	10	20	10	100	2	R5
PKBM1275R60	12	24	12	75	2	R6
PKBM12100R60	12	24	12	100	2	R6

► Corner Radius End Mill

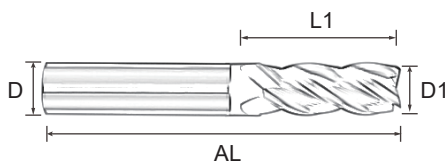


Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PKRM010450R02	1	3	4	50	4	0.2
PKRM0150450R02	1.5	4	4	50	4	0.2
PKRM020450R02	2	5	4	50	4	0.2
PKRM030450R02	3	8	4	50	4	0.2
PKRM040450R02	4	10	4	50	4	0.2
PKRM060650R02	6	15	6	50	4	0.2
PKRM020450R05	2	5	4	50	4	0.5
PKRM030450R05	3	8	4	50	4	0.5
PKRM040450R05	4	10	4	50	4	0.5
PKRM060650R05	6	15	6	50	4	0.5
PKRM060675R05	6	20	6	75	4	0.5
PKRM0606100R05	6	25	6	100	4	0.5
PKRM080860R05	8	20	8	60	4	0.5
PKRM080875R05	8	25	8	75	4	0.5
PKRM0808100R5	8	30	8	100	4	0.5
PKRM101075R05	10	25	10	75	4	0.5
PKRM1010100R05	10	30	10	100	4	0.5
PKRM121275R05	12	30	12	75	4	0.5
PKRM1212100R05	12	35	12	100	4	0.5

S HRC50 Toughness Type

- Suitable for machining carbon steel, alloy steel, cast iron, stainless steel, and other materials with a hardness of ≤ HRC 50.
- The TiAlN coating is highly resistant to high temperatures and wear, offering a combination of hardness and toughness for versatile performance.

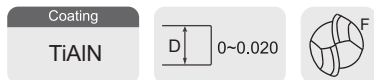
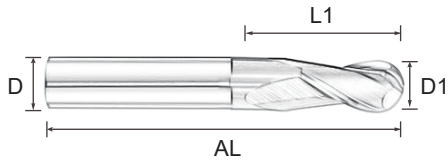
► **End Mill**



Coating	D 0-0.020	F
TiAlN		

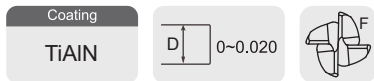
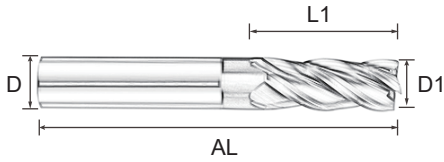
Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PSM010450	1	3	4	50	4	/
PSM0150450	1.5	4	4	50	4	/
PSM020450	2	5	4	50	4	/
PSM0250450	2.5	7	4	50	4	/
PSM030350	3	8	3	50	4	/
PSM030450	3	8	4	50	4	/
PSM0350450	3.5	9	4	50	4	/
PSM040450	4	10	4	50	4	/
PSM040475	4	16	4	75	4	/
PSM0404100	4	20	4	100	4	/
PSM050550	5	13	5	50	4	/
PSM050650	5	13	6	50	4	/
PSM060650	6	15	6	50	4	/
PSM060675	6	24	6	75	4	/
PSM0606100	6	30	6	100	4	/
PSM080860	8	20	8	60	4	/
PSM080875	8	25	8	75	4	/
PSM0808100	8	35	8	100	4	/
PSM101075	10	25	10	75	4	/
PSM1010100	10	40	10	100	4	/
PSM1010150	10	55	10	150	4	/
PSM121275	12	30	12	75	4	/
PSM1212100	12	45	12	100	4	/
PSM1212150	12	55	12	150	4	/
PSM1414100	14	45	14	100	4	/
PSM1414150	14	60	14	150	4	/
PSM1616100	16	45	16	100	4	/
PSM1616150	16	70	16	150	4	/
PSM1818100	18	45	18	100	4	/
PSM2020100	20	45	20	100	4	/

► Ball Nose End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PSBM0450R05	1	2	4	50	2	R0.5
PSBM0450R075	1.5	3	4	50	2	R0.75
PSBM0450R10	2	4	4	50	2	R1
PSBM0350R15	3	6	3	50	2	R1.5
PSBM0450R15	3	6	4	50	2	R1.5
PSBM0450R20	4	8	4	50	2	R2
PSBM0475R20	4	8	4	75	2	R2
PSBM04100R20	4	8	4	100	2	R2
PSBM0550R25	5	10	5	50	2	R2.5
PSBM0550R25	5	10	6	50	2	R2.5
PSBM0650R30	6	12	6	50	2	R3
PSBM0675R30	6	12	6	75	2	R3
PSBM06100R30	6	12	6	100	2	R3
PSBM0860R40	8	16	8	60	2	R4
PSBM0875R40	8	16	8	75	2	R4
PSBM08100R40	8	16	8	100	2	R4
PSBM1075R50	10	20	10	75	2	R5
PSBM10100R50	10	20	10	100	2	R5
PSBM10200R20	10	20	10	200	2	R5
PSBM1275R60	12	24	12	75	2	R6
PSBM12100R60	12	24	12	100	2	R6
PSBM12150R60	12	24	12	150	2	R6

► **Corner Radius End Mill**

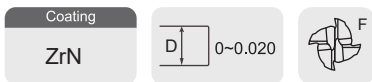
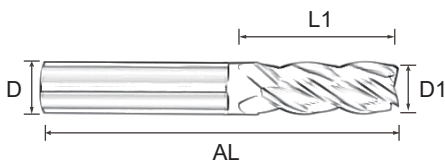


Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PSRM010450R02	1	3	4	50	4	R0.2
PSRM0150450R02	1.5	4	4	50	4	R0.2
PSRM020450R02	2	5	4	50	4	R0.2
PSRM0250450R02	2.5	6	4	50	4	R0.2
PSRM030450R02	3	8	4	50	4	R0.2
PSRM040450R02	4	10	4	50	4	R0.2
PSRM060650R02	6	15	6	50	4	R0.2
PSRM020450R05	2	5	4	50	4	R0.5
PSRM030450R05	3	8	4	50	4	R0.5
PSRM030350R05	3	8	3	50	4	R0.5
PSRM040450R05	4	10	4	50	4	R0.5
PSRM040475R05	4	16	4	75	4	R0.5
PSRM0404100R05	4	20	4	100	4	R0.5
PSRM060650R05	6	15	6	50	4	R0.5
PSRM060675R05	6	20	6	75	4	R0.5
PSRM0606100R05	6	25	6	100	4	R0.5
PSRM080860R05	8	20	8	60	4	R0.5
PSRM080875R05	8	25	8	75	4	R0.5
PSRM0808100R05	8	30	8	100	4	R0.5
PSRM101075R05	10	25	10	75	4	R0.5
PSRM1010100R05	10	30	10	100	4	R0.5
PSRM1010150R05	10	50	10	150	4	R0.5
PSRM121275R05	12	30	12	75	4	R0.5
PSRM1212100R05	12	35	12	100	4	R0.5
PSRM1212150R05	12	55	12	150	4	R0.5
PSRM1414100R05	14	35	14	100	4	R0.5

T Titanium Type Purpose

- Suitable for stainless steel (both rough and finish machining), titanium alloys, Kovar alloys, and materials with a hardness of ≤ 45 HRC. It excels particularly in rough machining.
- The unequal division design enhances tool stability and anti-vibration effects during high-speed machining. The low-friction nano-composite coating effectively reduces adhesion issues when machining stainless steel.

► End Mill

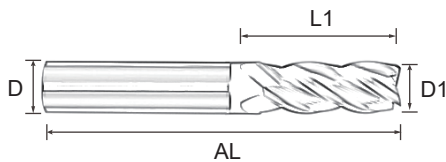


Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PTM010450	1	3	4	50	4	/
PTM0150450	1.5	4	4	50	4	/
PTM020450	2	5	4	50	4	/
PTM0250450	2.5	7	4	50	4	/
PTM030450	3	8	4	50	4	/
PTM030350	3	8	3	50	4	/
PTM040450	4	10	4	50	4	/
PTM040475	4	16	4	75	4	/
PTM0404100	4	20	4	100	4	/
PTM050550	5	13	5	50	4	/
PTM050650	5	13	6	50	4	/
PTM060650	6	15	6	50	4	/
PTM060675	6	24	6	75	4	/
PTM0606100	6	30	6	100	4	/
PTM080860	8	20	8	60	4	/
PTM080875	8	25	8	75	4	/
PTM0808100	8	35	8	100	4	/
PTM101075	10	25	10	75	4	/
PTM1010100	10	40	10	100	4	/
PTM121275	12	30	12	75	4	/
PTM1212100	12	45	12	100	4	/
PTM1616100	16	45	16	100	4	/

SS Special for SUS

- Applicable materials: stainless steel SUS303, SUS304, SUS316L, etc. (<280HB).and materials with a hardness of ≤ 45 HRC. It excels particularly in rough machining.
- Characteristic: The high coating hardness and excellent high-temperature oxidation resistance are more suitable for high hardness materials and high-speed machining fields. Special surface post-treatment can effectively reduce friction, discharge chips more smoothly, and the quality of machined surface is better.

► **End Mill**



Coating
AlTiSiN

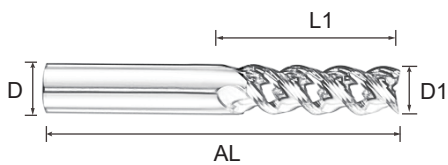
D 0~0.020

Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PSSM010450	1	3	4	50	4	/
PSSM0150450	1.5	4	4	50	4	/
PSSM020450	2	5	4	50	4	/
PSSM0250450	2.5	7	4	50	4	/
PSSM030350	3	8	3	50	4	/
PSSM030450	3	8	4	50	4	/
PSSM0350450	3.5	9	4	50	4	/
PSSM040450	4	10	4	50	4	/
PSSM050550	5	13	5	50	4	/
PSSM050650	5	13	6	50	4	/
PSSM060650	6	15	6	50	4	/
PSSM060675	6	24	6	75	4	/
PSSM080860	8	20	8	60	4	/
PSSM080875	8	25	8	75	4	/
PSSM0808100	8	35	8	100	4	/
PSSM101075	10	25	10	75	4	/
PSSM1010100	10	40	10	100	4	/
PSSM121275	12	30	12	75	4	/
PSSM1212100	12	45	12	100	4	/
PSSM2020100	20	45	20	100	4	/

L *Alu Classic Type*

- Applicable materials: aluminum alloy AL5052, AL6063, AL6061, AL7075, etc; General processing of aluminum alloy (Si ≤ 12%) and copper alloy (<200HB).
- Characteristic: The special cutting edge design effectively prevents vibration and solves the problem of chip sticking on the cutting edge; Water cooling is the best cooling method.

► End Mill



Coating
UNCOATED

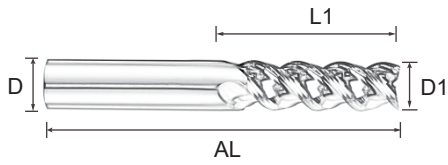
D 0~0.020

F



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PLM020450-3	2	6	4	50	3	/
PLM030450-3	3	9	4	50	3	/
PLM040450-3	4	12	4	50	3	/
PLM050650-3	5	15	6	50	3	/
PLM060650-3	6	18	6	50	3	/
PLM080860-3	8	24	8	60	3	/
PLM101075-3	10	30	10	75	3	/
PLM121275-3	12	36	12	75	3	/

► **End Mill**



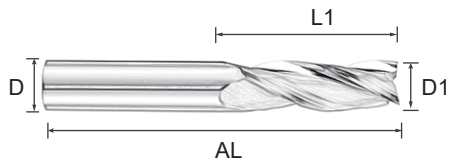
Coating	D 0-0.020	F
DLC		

Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PCLM010450-3	1	3	4	50	3	/
PCLM020450-3	2	6	4	50	3	/
PCLM030350-3	3	9	3	50	3	/
PCLM030450-3	3	9	4	50	3	/
PCLM040450-3	4	12	4	50	3	/
PCLM060650-3	6	18	6	50	3	/
PCLM060675-3	6	25	6	75	3	/
PCLM0606100-3	6	30	6	100	3	/
PCLM080860-3	8	24	8	60	3	/
PCLM0808750-3	8	30	8	75	3	/
PCLM0808100-3	8	35	8	100	3	/
PCLM101075-3	10	30	10	75	3	/
PCLM1010100-3	10	40	10	100	3	/
PCLM121275-3	12	36	12	75	3	/
PCLM1212100-3	12	45	12	100	3	/
PCLM1414150-3	14	60	14	150	3	/

PL *Fiberglass, Plastic, Alu Sharp Type*

- Suitable for machining aluminum, copper, and fiberglass materials.
- The unequal division design and polished rake face ensure high surface finish and smoother chip evacuation.

► **End Mill**



Coating
UNCOATED

D 0~0.020

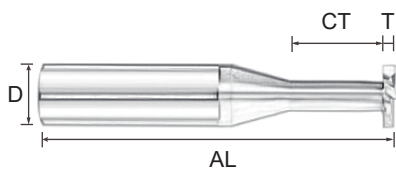
F

Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PPLM010450	1	3	4	50	3	/
PPLM010450	1.5	5	4	50	3	/
PPLM010450	2	6	4	50	3	/
PPLM010450	2.5	7	4	50	3	/
PPLM010450	3	9	4	50	3	/
PPLM010450	3	9	3	50	3	/
PPLM010450	3	12	4	75	3	/
PPLM010450	3.5	11	4	50	3	/
PPLM010450	4	12	4	50	3	/
PPLM010450	4	16	4	75	3	/
PPLM010450	4	20	4	100	3	/
PPLM010450	5	15	5	50	3	/
PPLM010450	5	15	6	50	3	/
PPLM010450	6	18	6	50	3	/
PPLM010450	6	25	6	75	3	/
PPLM010450	6	30	6	100	3	/
PPLM010450	8	24	8	60	3	/
PPLM010450	8	30	8	75	3	/
PPLM010450	8	35	8	100	3	/
PPLM010450	10	30	10	75	3	/
PPLM010450	10	40	10	100	3	/
PPLM010450	12	36	12	75	3	/
PPLM010450	12	45	12	100	3	/
PPLM010450	14	45	14	100	3	/
PPLM010450	16	45	16	100	3	/

TS T Slot Tye

- PTSLM-Applicable materials: aluminum, non-ferrous metals.non-metallic. (Uncoated tools)
- PTSM-Applicable materials: carbon steel, alloy steel, quenchedandtempered steel, sus, mold steel, other steel, ductile iro

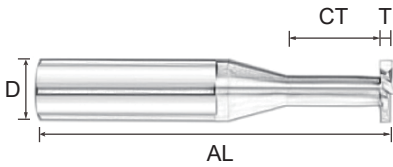
► **PTSLM**



Part No.	DIMENSION						
	D1	D	AL	F	CD	CL	T
PTSLM030450T05	3	4	50	4T	1.5	6	0.5
PTSLM030450T10	3	4	50	4T	1.5	6	1
PTSLM030450T15	3	4	50	4T	1.5	6	1.5
PTSLM030450T20	3	4	50	4T	1.5	6	2
PTSLM030450T25	3	4	50	4T	1.5	6	2.5
PTSLM030450T30	3	4	50	4T	1.5	6	3
PTSLM030450T35	3	4	50	4T	1.5	6	3.5
PTSLM030450T40	3	4	50	4T	1.5	6	4
PTSLM040450T05	4	4	50	4T	2	8	0.5
PTSLM040450T10	4	4	50	4T	2	8	1
PTSLM040450T15	4	4	50	4T	2	8	1.5
PTSLM040450T20	4	4	50	4T	2	8	2
PTSLM040450T25	4	4	50	4T	2	8	2.5
PTSLM040450T30	4	4	50	4T	2	8	3
PTSLM040450T35	4	4	50	4T	2	8	3.5
PTSLM040450T40	4	4	50	4T	2	8	4
PTSLM060650T05	6	6	50	4T	3	10	0.5
PTSLM060650T10	6	6	50	4T	3	10	1
PTSLM060650T15	6	6	50	4T	3	10	1.5
PTSLM060650T20	6	6	50	4T	3	10	2
PTSLM060650T25	6	6	50	4T	3	10	2.5
PTSLM060650T30	6	6	50	4T	3	10	3
PTSLM060650T35	6	6	50	4T	3	10	3.5
PTSLM060650T40	6	6	50	4T	3	10	4
PTSLM080850T05	8	8	50	4T	3	12	0.5
PTSLM080850T10	8	8	50	4T	3	12	1
PTSLM080850T15	8	8	50	4T	3	12	1.5
PTSLM080850T20	8	8	50	4T	3	12	2
PTSLM080850T25	8	8	50	4T	3	12	2.5
PTSLM080850T30	8	8	50	4T	3	12	3
PTSLM080850T35	8	8	50	4T	3	12	3.5
PTSLM080850T40	8	8	50	4T	3	12	4
PTSLM101060T05	10	10	60	4T	5	15	0.5
PTSLM101060T10	10	10	60	4T	5	15	1
PTSLM101060T15	10	10	60	4T	5	15	1.5
PTSLM101060T20	10	10	60	4T	5	15	2
PTSLM101060T25	10	10	60	4T	5	15	2.5
PTSLM101060T30	10	10	60	4T	5	15	3
PTSLM101060T35	10	10	60	4T	5	15	3.5
PTSLM101060T40	10	10	60	4T	5	15	4
PTSLM121260T05	12	12	60	4T	6	15	0.5
PTSLM121260T10	12	12	60	4T	6	15	1

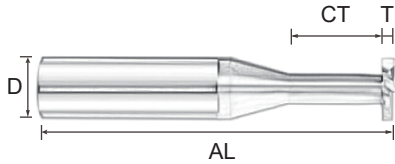
MILLING

► PTSLM



Part No.	DIMENSION						
	D1	D	AL	F	CD	CL	T
PTSLM121260T15	12	12	60	4T	6	15	1.5
PTSLM121260T20	12	12	60	4T	6	15	2
PTSLM121260T25	12	12	60	4T	6	15	2.5
PTSLM121260T30	12	12	60	4T	6	15	3
PTSLM121260T35	12	12	60	4T	6	15	3.5
PTSLM121260T40	12	12	60	4T	6	15	4
PTSLM161675T10	16	16	75	6T	8	20	1
PTSLM161675T20	16	16	75	6T	8	20	2
PTSLM161675T30	16	16	75	6T	8	20	3
PTSLM161675T40	16	16	75	6T	8	20	4
PTSLM161675T50	16	16	75	6T	8	20	5
PTSLM202075T10	20	20	75	6T	10	20	1
PTSLM202075T20	20	20	75	6T	10	20	2
PTSLM202075T30	20	20	75	6T	10	20	3
PTSLM202075T40	20	20	75	6T	10	20	4
PTSLM202075T50	20	20	75	6T	10	20	5

► **PTSM**

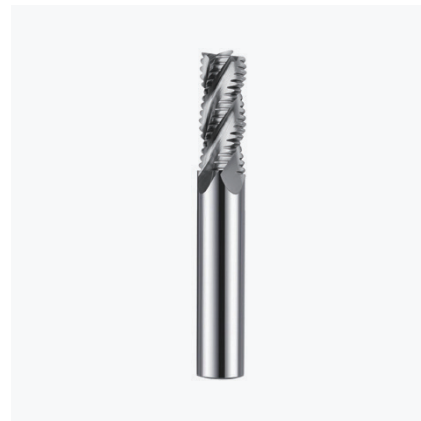
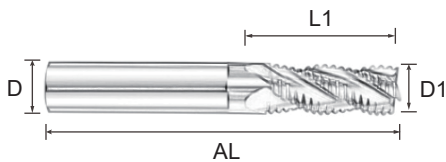


Part No.	DIMENSION						
	D1	D	AL	F	CD	CL	T
PTSM030450T05	3	4	50	4T	1.5	6	0.5
PTSM030450T10	3	4	50	4T	1.5	6	1
PTSM030450T15	3	4	50	4T	1.5	6	1.5
PTSM030450T20	3	4	50	4T	1.5	6	2
PTSM030450T25	3	4	50	4T	1.5	6	2.5
PTSM030450T30	3	4	50	4T	1.5	6	3
PTSM030450T35	3	4	50	4T	1.5	6	3.5
PTSM030450T40	3	4	50	4T	1.5	6	4
PTSM040450T05	4	4	50	4T	2	8	0.5
PTSM040450T10	4	4	50	4T	2	8	1
PTSM040450T15	4	4	50	4T	2	8	1.5
PTSM040450T20	4	4	50	4T	2	8	2
PTSM040450T25	4	4	50	4T	2	8	2.5
PTSM040450T30	4	4	50	4T	2	8	3
PTSM040450T35	4	4	50	4T	2	8	3.5
PTSM040450T40	4	4	50	4T	2	8	4
PTSM060650T05	6	6	50	4T	3	10	0.5
PTSM060650T10	6	6	50	4T	3	10	1
PTSM060650T15	6	6	50	4T	3	10	1.5
PTSM060650T20	6	6	50	4T	3	10	2
PTSM060650T25	6	6	50	4T	3	10	2.5
PTSM060650T30	6	6	50	4T	3	10	3
PTSM060650T35	6	6	50	4T	3	10	3.5
PTSM060650T40	6	6	50	4T	3	10	4
PTSM080850T05	8	8	50	4T	3	12	0.5
PTSM080850T10	8	8	50	4T	3	12	1
PTSM080850T15	8	8	50	4T	3	12	1.5
PTSM080850T20	8	8	50	4T	3	12	2
PTSM080850T25	8	8	50	4T	3	12	2.5
PTSM080850T30	8	8	50	4T	3	12	3
PTSM080850T35	8	8	50	4T	3	12	3.5
PTSM080850T40	8	8	50	4T	3	12	4
PTSM101060T05	10	10	60	4T	5	15	0.5
PTSM101060T10	10	10	60	4T	5	15	1
PTSM101060T15	10	10	60	4T	5	15	1.5
PTSM101060T20	10	10	60	4T	5	15	2
PTSM101060T25	10	10	60	4T	5	15	2.5
PTSM101060T30	10	10	60	4T	5	15	3
PTSM101060T35	10	10	60	4T	5	15	3.5
PTSM101060T40	10	10	60	4T	5	15	4
PTSM121260T05	12	12	60	4T	6	15	0.5
PTSM121260T10	12	12	60	4T	6	15	1
PTSM121260T15	12	12	60	4T	6	15	1.5
PTSM121260T20	12	12	60	4T	6	15	2
PTSM121260T25	12	12	60	4T	6	15	2.5
PTSM121260T30	12	12	60	4T	6	15	3
PTSM121260T35	12	12	60	4T	6	15	3.5
PTSM121260T40	12	12	60	4T	6	15	4
PTSM161675T10	16	16	75	6T	8	20	1
PTSM161675T20	16	16	75	6T	8	20	2
PTSM161675T30	16	16	75	6T	8	20	3
PTSM161675T40	16	16	75	6T	8	20	4
PTSM161675T50	16	16	75	6T	8	20	5
PTSM202075T10	20	20	75	6T	10	20	1
PTSM202075T20	20	20	75	6T	10	20	2
PTSM202075T30	20	20	75	6T	10	20	3
PTSM202075T40	20	20	75	6T	10	20	4
PTSM202075T50	20	20	75	6T	10	20	5

R Rough Type

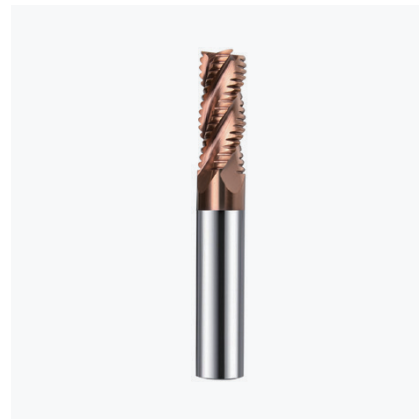
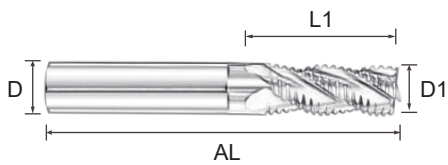
- PRLM-Applicable materials: aluminum, non-ferrous metals, non-metallic. (Uncoated tools)
- PRM-Applicable materials: carbon steel, alloy steel, quenched and tempered steel, stainless steel, mold steel, other steel, ductile iron

► PRLM



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PRLM040450	4	10	4	50	4	/
PRLM050550	5	13	5	50	4	/
PRLM060650	6	15	6	50	4	/
PRLM060675	6	24	6	75	4	/
PRLM0606100	6	30	6	100	4	/
PRLM080860	8	20	8	60	4	/
PRLM080875	8	25	8	75	4	/
PRLM0808100	8	35	8	100	4	/
PRLM101075	10	25	10	75	4	/
PRLM1010100	10	40	10	100	4	/
PRLM121275	12	30	12	75	4	/
PRLM1212100	12	45	12	100	4	/
PRLM1414100	14	45	14	100	4	/
PRLM1616100	16	45	16	100	4	/
PRLM1616150	16	70	16	150	4	/
PRLM1818100	18	45	18	100	4	/
PRLM2020100	20	45	20	100	4	/
PRLM2020150	20	70	20	150	4	/

► **PRM**

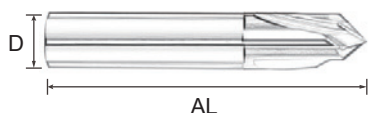


Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PRM040450	4	10	4	50	4	/
PRM050550	5	13	5	50	4	/
PRM060650	6	15	6	50	4	/
PRM060675	6	24	6	75	4	/
PRM0606100	6	30	6	100	4	/
PRM080860	8	20	8	60	4	/
PRM080875	8	25	8	75	4	/
PRM0808100	8	35	8	100	4	/
PRM101075	10	25	10	75	4	/
PRM1010100	10	40	10	100	4	/
PRM121275	12	30	12	75	4	/
PRM1212100	12	45	12	100	4	/
PRM1414100	14	45	14	100	4	/
PRM1616100	16	45	16	100	4	/
PRM1616150	16	70	16	150	4	/
PRM1818100	18	45	18	100	4	/
PRM2020100	20	45	20	100	4	/
PRM2020150	20	70	20	150	4	/

D Common

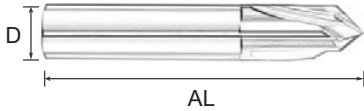
- PDML-Applicable materials: aluminum, non-ferrous metals.non-metallic. (Uncoated tools)
- PDM-Applicable materials: carbon steel, alloy steel, quenchedandtempered steel, sus, mold steel, other steel, ductile iro

► PDML



Part No.	DIMENSION			
	A	D	AL	F
PDML0450A60	60°	4	50	3
PDML04100A60	60°	4	100	3
PDML0650A60	60°	6	50	3
PDML06100A60	60°	6	100	3
PDML0860A60	60°	8	60	3
PDML008100A60	60°	8	100	3
PDML1075A60	60°	10	75	3
PDML10100A60	60°	10	100	3
PDML1275A60	60°	12	75	3
PDML12100A60	60°	12	100	3
PDML14100A60	60°	14	100	3
PDML16100A60	60°	16	100	3
PDML0450A90	90°	4	50	3
PDML04100A90	90°	4	100	3
PDML0650A90	90°	6	50	3
PDML06100A90	90°	6	100	3
PDML0860A90	90°	8	60	3
PDML08100A90	90°	8	100	3
PDML1075A90	90°	10	75	3
PDML10100A90	90°	10	100	3
PDML1275A90	90°	12	75	3
PDML12100A90	90°	12	100	3
PDML14100A90	90°	14	100	3
PDML16100A90	90°	16	100	3
PDML20100A90	90°	20	100	3
PDML0450A120	120°	4	50	3

► **PDML**



Part No.	DIMENSION			
	A	D	AL	F
PDML04100A120	120°	4	100	3
PDML0650A120	120°	6	50	3
PDML06100A120	120°	6	100	3
PDML860A120	120°	8	60	3
PDML08100A120	120°	8	100	3
PDML1075A120	120°	10	75	3
PDML10100A120	120°	10	100	3
PDML1275A120	120°	12	75	3
PDML12100A120	120°	12	100	3
PDML14100A120	120°	14	100	3
PDML16100A120	120°	16	100	3

► PDM

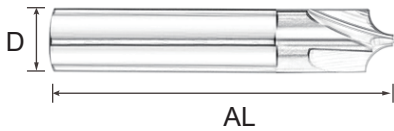


Part No.	DIMENSION			
	A	D	AL	F
PDM0450A60	60°	4	50	3
PDM04100A60	60°	4	100	3
PDM0650A60	60°	6	50	3
PDM06100A60	60°	6	100	3
PDM0860A60	60°	8	60	3
PDM008100A60	60°	8	100	3
PDM1075A60	60°	10	75	3
PDM10100A60	60°	10	100	3
PDM1275A60	60°	12	75	3
PDM12100A60	60°	12	100	3
PDM14100A60	60°	14	100	3
PDM16100A60	60°	16	100	3
PDM0450A90	90°	4	50	3
PDM04100A90	90°	4	100	3
PDM0650A90	90°	6	50	3
PDM06100A90	90°	6	100	3
PDM0860A90	90°	8	60	3
PDM08100A90	90°	8	100	3
PDM1075A90	90°	10	75	3
PDM10100A90	90°	10	100	3
PDM1275A90	90°	12	75	3
PDM12100A90	90°	12	100	3
PDM14100A90	90°	14	100	3
PDM16100A90	90°	16	100	3
PDM20100A90	90°	20	100	3
PDM0450A120	120°	4	50	3
PDM04100A120	120°	4	100	3
PDM0650A120	120°	6	50	3
PDM06100A120	120°	6	100	3
PDM860A120	120°	8	60	3
PDM08100A120	120°	8	100	3
PDM1075A120	120°	10	75	3
PDM10100A120	120°	10	100	3
PDM1275A120	120°	12	75	3
PDM12100A120	120°	12	100	3
PDM14100A120	120°	14	100	3
PDM16100A120	120°	16	100	3

RD Inner Radius

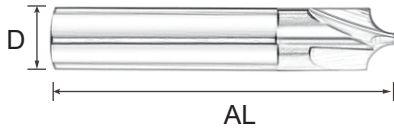
- PRDML-Applicable materials: aluminum, non-ferrous metals.non-metallic. (Uncoated tools)
- PRDM-Applicable materials: carbon steel, alloy steel, quenchedandtempered steel, sus, mold steel, other steel, ductile iro

► **PRDML**



Part No.	DIMENSION			
	D	AL	F	R
PRDML0450R05	4	50	4	R0.5
PRDML0450R075	4	50	4	R0.75
PRDML0450R10	4	50	4	R1
PRDML0450R15	4	50	4	R1.5
PRDML0650R15	6	50	4	R1.5
PRDML0650R10	6	50	4	R1
PRDML0650R20	6	50	4	R2
PRDML0650R25	6	50	4	R2.5
PRDML0850R25	8	50	4	R2.5
PRDML0850R30	8	50	4	R3
PRDML1060R40	10	60	4	R4
PRDML1260R50	12	60	4	R5
PRDML1680R60	16	80	4	R6
PRDML1880R70	18	80	4	R7
PRDML2080R80	20	80	4	R8
PRDML0450R02	4	50	4	R0.2
PRDML0450R03	4	50	4	R0.3
PRDML0450R04	4	50	4	R0.4
PRDML0450R06	4	50	4	R0.6
PRDML0450R07	4	50	4	R0.7
PRDML0450R08	4	50	4	R0.8
PRDML0450R09	4	50	4	R0.9

► PRDM

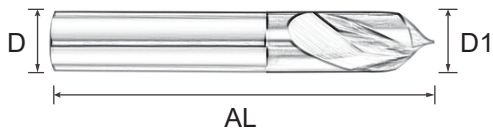


Part No.	DIMENSION			
	D	AL	F	R
PRDM0450R05	4	50	4	R0.5
PRDM0450R075	4	50	4	R0.75
PRDM0450R10	4	50	4	R1
PRDM0450R15	4	50	4	R1.5
PRDM0650R15	6	50	4	R1.5
PRDM0650R10	6	50	4	R1
PRDM0650R20	6	50	4	R2
PRDM0650R25	6	50	4	R2.5
PRDM0850R25	8	50	4	R2.5
PRDM0850R30	8	50	4	R3
PRDM1060R40	10	60	4	R4
PRDM1260R50	12	60	4	R5
PRDM1680R60	16	80	4	R6
PRDM1880R70	18	80	4	R7
PRDM2080R80	20	80	4	R8
PRDM0450R02	4	50	4	R0.2
PRDM0450R03	4	50	4	R0.3
PRDM0450R04	4	50	4	R0.4
PRDM0450R06	4	50	4	R0.6
PRDM0450R07	4	50	4	R0.7
PRDM0450R08	4	50	4	R0.8
PRDM0450R09	4	50	4	R0.9

SD Spiral Center Drill

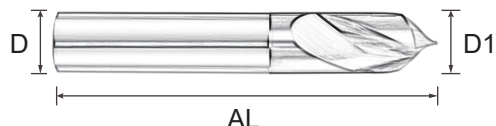
- PSDML-Applicable materials: aluminum, non-ferrous metals.non-metallic. (Uncoated tools)
- PSDM-Applicable materials: carbon steel, alloy steel, quenchedandtempered steel, sus, mold steel, other steel, ductile iro

► **PSDML**



Part No.	DIMENSION				
	D1	D	AL	F	A
PSDML010450	1	4	50	2	90°
PSDML0150450	1.5	4	50	2	90°
PSDML020450	2	4	50	2	90°
PSDML0250450	2.5	4	50	2	90°
PSDML030350	3	3	50	2	90°
PSDML0303100	3	3	100	2	90°
PSDML030450	3	4	50	2	90°
PSDML040450	4	4	50	2	90°
PSDML040475	4	4	75	2	90°
PSDML0404100	4	4	100	2	90°
PSDML0404150	4	4	150	2	90°
PSDML050550	5	5	50	2	90°
PSDML0505100	5	5	100	2	90°
PSDML060650	6	6	50	2	90°
PSDML060675	6	6	75	2	90°
PSDML0606100	6	6	100	2	90°
PSDML0606150	6	6	150	2	90°
PSDML080860	8	8	60	2	90°
PSDML080875	8	8	75	2	90°
PSDML0808100	8	8	100	2	90°
PSDML0808150	8	8	150	2	90°
PSDML101075	10	10	75	2	90°
PSDML1010100	10	10	100	2	90°
PSDML1010150	10	10	150	2	90°
PSDML121275	12	12	75	2	90°
PSDML1212100	12	12	100	2	90°
PSDML1212150	12	12	150	2	90°
PSDML1414100	14	14	100	2	90°
PSDML1616100	16	16	100	2	90°
PSDML2020100	20	20	100	2	90°

► PSDM

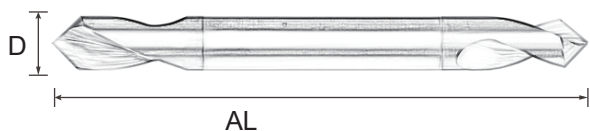


Part No.	DIMENSION				
	D1	D	AL	F	A
PSDM010450	1	4	50	2	90°
PSDM0150450	1.5	4	50	2	90°
PSDM020450	2	4	50	2	90°
PSDM0250450	2.5	4	50	2	90°
PSDM030350	3	3	50	2	90°
PSDM0303100	3	3	100	2	90°
PSDM030450	3	4	50	2	90°
PSDM040450	4	4	50	2	90°
PSDM040475	4	4	75	2	90°
PSDM0404100	4	4	100	2	90°
PSDM0404150	4	4	150	2	90°
PSDM050550	5	5	50	2	90°
PSDM0505100	5	5	100	2	90°
PSDM060650	6	6	50	2	90°
PSDM060675	6	6	75	2	90°
PSDM0606100	6	6	100	2	90°
PSDM0606150	6	6	150	2	90°
PSDM080860	8	8	60	2	90°
PSDM080875	8	8	75	2	90°
PSDM0808100	8	8	100	2	90°
PSDM0808150	8	8	150	2	90°
PSDM101075	10	10	75	2	90°
PSDM1010100	10	10	100	2	90°
PSDM1010150	10	10	150	2	90°
PSDM121275	12	12	75	2	90°
PSDM1212100	12	12	100	2	90°
PSDM1212150	12	12	150	2	90°
PSDM1414100	14	14	100	2	90°
PSDM1616100	16	16	100	2	90°
PSDM2020100	20	20	100	2	90°

2SD *Double Spiral Center Drill*

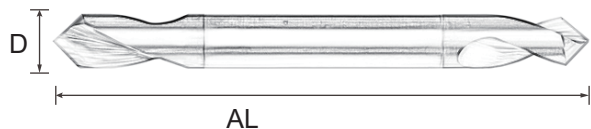
- PSDML-Applicable materials: aluminum, non-ferrous metals.non-metallic. (Uncoated tools)
- PSDM-Applicable materials: carbon steel, alloy steel, quenchedandtempered steel, sus, mold steel, other steel, ductile iro

► P2SDML



Part No.	DIMENSION			
	D	AL	F	R
P2SDML04100	4	100	2	90°
P2SDML06100	6	100	2	90°
P2SDML08100	8	100	2	90°
P2SDML10100	10	100	2	90°
P2SDML12100	12	100	2	90°

► P2SDM

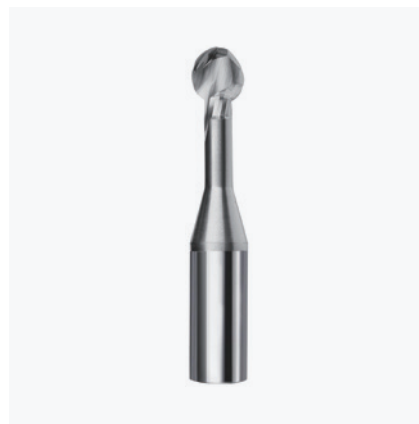
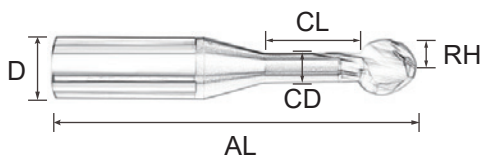


Part No.	DIMENSION			
	D	AL	F	R
P2SDM04100	4	100	2	90°
P2SDM06100	6	100	2	90°
P2SDM08100	8	100	2	90°
P2SDM10100	10	100	2	90°
P2SDM12100	12	100	2	90°

UD Undercutting

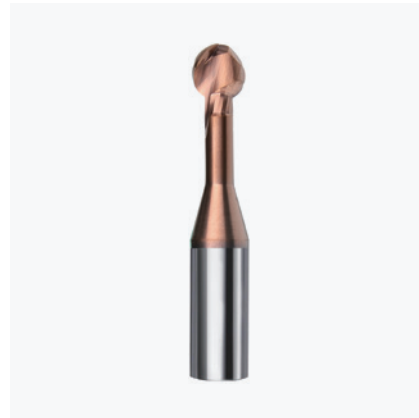
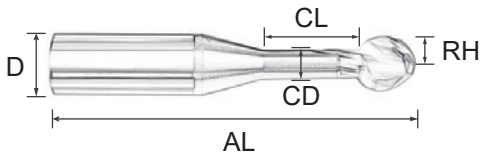
- PUDML-Applicable materials: aluminum, non-ferrous metals.non-metallic. (Uncoated tools)
- PUDM-Applicable materials: carbon steel, alloy steel, quenchedandtempered steel, sus, mold steel, other steel, ductile iro

► **PUDML**



Part No.	DIMENSION					
	D	AL	F	CD	CL	RH
PUDML0450R05	4	50	2	0.5	2	R0.5
PUDML0450R075	4	50	2	0.75	3	R0.75
PUDML0450R10	4	50	2	1	4	R1
PUDML0450R05	4	50	2	1.5	6	R1.5
PUDML0450R05	4	50	2	2	6	R2
PUDML0450R05	6	50	2	2.5	10	R2.5
PUDML0450R05	6	50	2	3	10	R3
PUDML0450R05	8	60	2	4	12	R4
PUDML0450R05	10	60	2	5	15	R5
PUDML0450R05	12	60	2	6	15	R6
PUDML0450R05	16	75	2	8	25	R8
PUDML0450R05	18	75	2	9	25	R9

► PUDM

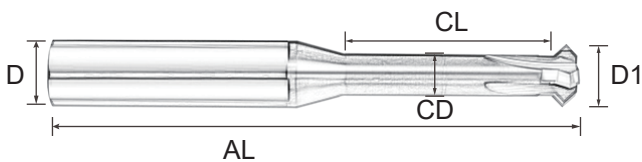


Part No.	DIMENSION					
	D	AL	F	CD	CL	RH
PUDM0450R05	4	50	2	0.5	2	R0.5
PUDM0450R075	4	50	2	0.75	3	R0.75
PUDM0450R10	4	50	2	1	4	R1
PUDM0450R05	4	50	2	1.5	6	R1.5
PUDM0450R05	4	50	2	2	6	R2
PUDM0450R05	6	50	2	2.5	10	R2.5
PUDM0450R05	6	50	2	3	10	R3
PUDM0450R05	8	60	2	4	12	R4
PUDM0450R05	10	60	2	5	15	R5
PUDM0450R05	12	60	2	6	15	R6
PUDM0450R05	16	75	2	8	25	R8
PUDM0450R05	18	75	2	9	25	R9

2UD Forward / Reverse

- P2UDML-Applicable materials: aluminum, non-ferrous metals.non-metallic. (Uncoated tools)
- P2UDM-Applicable materials: carbon steel, alloy steel, quenchedandtempered steel, sus, mold steel, other steel, ductile iro

► P2UDML

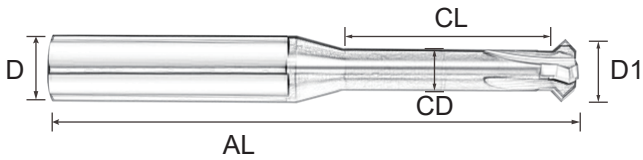


Part No.	DIMENSION						
	D1	AL	D	F	CD	CL	A
P2UDML020450	2	50	4	4	1.2	8	90°
P2UDML0250450	2.5	50	4	4	1.5	10	90°
P2UDML030450	3	50	4	4	1.8	12	90°
P2UDML040450	4	50	4	4	2.4	16	90°
P2UDML050650	5	50	6	4	2.8	20	90°
P2UDML060650	6	50	6	4	3	25	90°
P2UDML080860	8	60	8	4	4.8	28	90°
P2UDML101075	10	75	10	4	6.3	35	90°
P2UDML121275	12	75	12	4	7	42	90°

CHAMFERING&DEBURRING

PRECOLLET®

► **P2UDM**

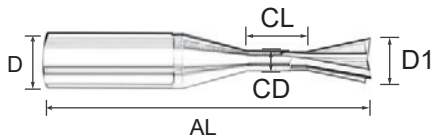


Part No.	DIMENSION						
	D1	AL	D	F	CD	CL	A
P2UDM020450	2	50	4	4	1.2	8	90°
P2UDM0250450	2.5	50	4	4	1.5	10	90°
P2UDM030450	3	50	4	4	1.8	12	90°
P2UDM040450	4	50	4	4	2.4	16	90°
P2UDM050650	5	50	6	4	2.8	20	90°
P2UDM060650	6	50	6	4	3	25	90°
P2UDM080860	8	60	8	4	4.8	28	90°
P2UDM101075	10	75	10	4	6.3	35	90°
P2UDM121275	12	75	12	4	7	42	90°

YD Dovetail

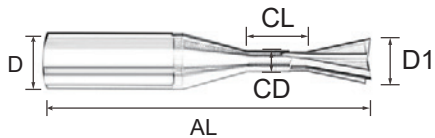
- PYDML-Applicable materials: aluminum, non-ferrous metals.non-metallic. (Uncoated tools)
- PYDM-Applicable materials: carbon steel, alloy steel, quenchedandtempered steel, sus, mold steel, other steel, ductile iro

► **PYDML**



Part No.	DIMENSION						
	D1	D	AL	F	CD	CL	A
PYDML0150450A30	1.5	4	50	4	0.75	3	30°
PYDML020450A30	2	4	50	4	1	4	30°
PYDML0250450A30	2.5	4	50	4	1.25	5	30°
PYDML030450A30	3	4	50	4	1.5	6	30°
PYDML040450A30	4	4	50	4	2	6	30°
PYDML050650A30	5	6	50	4	2.5	10	30°
PYDML060650A30	6	6	50	4	3	10	30°
PYDML080850A30	8	8	50	4	4	12	30°
PYDML101060A30	10	10	60	4	5	15	30°
PYDML121260A30	12	12	60	4	6	15	30°
PYDML0150450A60	1.5	4	50	4	0.75	3	60°
PYDML020450A60	2	4	50	4	1	4	60°
PYDML0250450A60	2.5	4	50	4	1.25	5	60°
PYDML030450A60	3	4	50	4	1.5	6	60°
PYDML040450A60	4	4	50	4	2	6	60°
PYDML050650A60	5	6	50	4	2.5	10	60°
PYDML060650A60	6	6	50	4	3	10	60°
PYDML080850A60	8	8	50	4	4	12	60°
PYDML101060A60	10	10	60	4	5	15	60°
PYDML121260A60	12	12	60	4	6	15	60°
PYDML010450A90	1	4	50	4	0.5	2	90°
PYDML0150450A90	1.5	4	50	4	0.75	3	90°
PYDML020450A90	2	4	50	4	1	4	90°
PYDML0250450A90	2.5	4	50	4	1.25	5	90°
PYDML030450A90	3	4	50	4	1.5	6	90°
PYDML040450A90	4	4	50	4	2	6	90°
PYDML050650A90	5	6	50	4	2.5	10	90°
PYDML060650A90	6	6	50	4	3	10	90°
PYDML080850A90	8	8	50	4	4	12	90°
PYDML101060A90	10	10	60	4	5	15	90°
PYDML121260A90	12	12	60	4	6	15	90°

► PYDM



Part No.	DIMENSION						
	D1	D	AL	F	CD	CL	A
PYDML0150450A30	1.5	4	50	4	0.75	3	30°
PYDML020450A30	2	4	50	4	1	4	30°
PYDML0250450A30	2.5	4	50	4	1.25	5	30°
PYDML030450A30	3	4	50	4	1.5	6	30°
PYDML040450A30	4	4	50	4	2	6	30°
PYDML050650A30	5	6	50	4	2.5	10	30°
PYDML060650A30	6	6	50	4	3	10	30°
PYDML080850A30	8	8	50	4	4	12	30°
PYDML101060A30	10	10	60	4	5	15	30°
PYDML121260A30	12	12	60	4	6	15	30°
PYDML0150450A60	1.5	4	50	4	0.75	3	60°
PYDML020450A60	2	4	50	4	1	4	60°
PYDML0250450A60	2.5	4	50	4	1.25	5	60°
PYDML030450A60	3	4	50	4	1.5	6	60°
PYDML040450A60	4	4	50	4	2	6	60°
PYDML050650A60	5	6	50	4	2.5	10	60°
PYDML060650A60	6	6	50	4	3	10	60°
PYDML080850A60	8	8	50	4	4	12	60°
PYDML101060A60	10	10	60	4	5	15	60°
PYDML121260A60	12	12	60	4	6	15	60°
PYDML010450A90	1	4	50	4	0.5	2	90°
PYDML0150450A90	1.5	4	50	4	0.75	3	90°
PYDML020450A90	2	4	50	4	1	4	90°
PYDML0250450A90	2.5	4	50	4	1.25	5	90°
PYDML030450A90	3	4	50	4	1.5	6	90°
PYDML040450A90	4	4	50	4	2	6	90°
PYDML050650A90	5	6	50	4	2.5	10	90°
PYDML060650A90	6	6	50	4	3	10	90°
PYDML080850A90	8	8	50	4	4	12	90°
PYDML101060A90	10	10	60	4	5	15	90°
PYDML121260A90	12	12	60	4	6	15	90°

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