

HIGH PERFORMANCE TOOL CATALOG

AEROSPACE • MEDICAL • DIE & MOLD • ENGINEERING



2016



MELIN HIGH PERFORMANCE CATALOG

- » Aluminum Alloys
- » Titanium Alloys
- » Stainless & Steel Alloys
- » Nickel & Cobalt Based Alloys
- » Hardened Material > 45 HRc
- » Graphite & Composite Materials



www.melintool.com

Spherical Ball



2 Flute, 220° Spherical Ball End Mill
Series: VBMG2



2 Flute, 220° Spherical Ball End Mill
Series: VBMG2-M_M_ (metric)



4 Flute, 220° Spherical Ball End Mill
Series: VBMG4



4 Flute, 220° Spherical Ball End Mill
Series: VBMG4-M_M_ (metric)



Multi Flute, 270° Spherical Ball End Mill
Series: VBMG_-_-270 - New



Multi Flute, 300° Spherical Ball End Mill
Series: VBMG_-_-300 - New

High Feed Cutters



2 Flute, High Feed Carbide End Mills
Series: HXMG2 (inch & metric) - New



4 Flute, High Feed Carbide End Mills
Series: HXMG4 - New



4 Flute, High Feed Carbide End Mills
Series: HXMG4-M_M_ (metric) - New



4 Flute, High Feed Carbide End Mills
Series: HXMG4-_-HM (hard milling) - New



4 Flute, High Feed Carbide End Mills
Series: HXMG4-M_M_-HM (hard milling) - New

VARIOUS MATERIAL

Drills



2 Flute, 140° Pt Carbide Drill Coolant Hole
Series: CDR



2 Flute, 140° Pt Carbide Drill without Coolant Hole
Series: MDR

Thread Mills



Multi Flute, 60° Straight Flute, UN Thread
Series: TM-_-S



Multi Flute, 60° Helical Flute, UN Thread
Series: TM-_-H



Multi Flute, 60° Helical Flute, UN Thread
Series: TM-M_-H (metric)



Multi Flute, NPT Thread, Straight & Helical FL
Series: TM-_-NPT-_-



Multi Flute, NPTF Thread, Straight & Helical FL
Series: TM-_-NPTF-_-

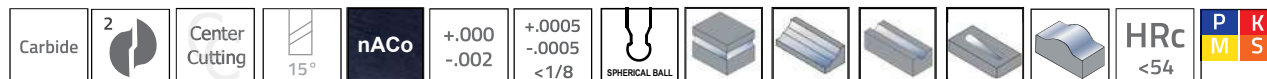


Multi Flute, Single Form Thread
Series: TM

TECHNICAL INFO:
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on Page 136

QUICK REFERENCE:
Page 167

2 FLUTE • 220° SPHERICAL BALL END MILLS



- Designed for multi axis cavity work in die & mold applications
- For undercutting & deburring applications on multi-axis CNC machines
- Effective on hardened materials
- Available with 220°, 270° or 300° arc cutting capacity (see next page)

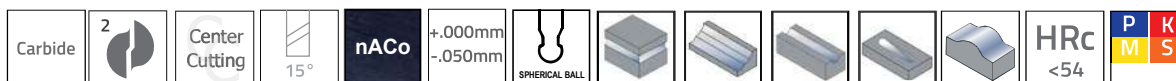


SERIES: VBMG2 ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	Neck DIA	Neck Lgth L ₃	OAL	FLUTE	PART NAME	nAco EDP	nAco Price
1/16	1/8	0.042	0.047	0.150	1-1/2	2	VBMG2-402	12231	24.27
3/32	1/8	0.063	0.070	0.150	1-1/2	2	VBMG2-403	12233	24.27
1/8	1/8	0.084	0.094	0.150	1-1/2	2	VBMG2-404	10041	18.69
1/8	1/8	0.084	0.094	0.150	3	2	VBMG2-404-L	10321	20.70
3/16	3/16	0.126	0.141	0.150	2	2	VBMG2-606	10043	23.65
3/16	3/16	0.126	0.141	0.150	3	2	VBMG2-606-L	10323	26.29
1/4	1/4	0.168	0.188	0.200	2-1/2	2	VBMG2-808	10045	34.20
1/4	1/4	0.168	0.188	0.200	4	2	VBMG2-808-L	10325	37.43
3/8	3/8	0.252	0.281	0.200	2-1/2	2	VBMG2-1212	10047	49.06
3/8	3/8	0.252	0.281	0.200	4	2	VBMG2-1212-L	10327	54.46
1/2	1/2	0.336	0.375	0.250	3	2	VBMG2-1616	10049	72.69
1/2	1/2	0.336	0.375	0.250	6	2	VBMG2-1616-L	10329	104.31

Speed & Feed: page 162

2 FLUTE • 220° SPHERICAL BALL END MILLS



SERIES: VBMG2-M_M_ ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	Neck DIA	Neck Lgth L ₃	OAL	FLUTE	PART NAME	nAco EDP	nAco Price
4mm	4mm	2.7mm	3mm	3.8mm	51mm	2	VBMG2-M4M4	11477	24.03
6mm	6mm	4.0mm	4.5mm	3.8mm	63mm	2	VBMG2-M6M6	11479	34.67
8mm	8mm	5.4mm	6mm	5.1mm	63mm	2	VBMG2-M8M8	11481	42.06
10mm	10mm	6.7mm	7.5mm	5.1mm	70mm	2	VBMG2-M10M10	11483	62.79
12mm	12mm	8.1mm	9mm	6.3mm	76mm	2	VBMG2-M12M12	11485	76.14

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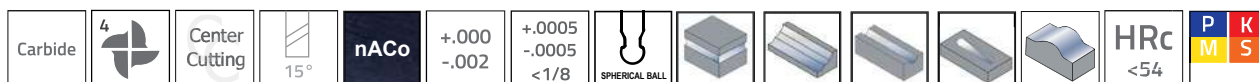




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VARIOUS MATERIAL

4 FLUTE • 220° SPHERICAL BALL END MILLS



- Designed for multi axis cavity work in die & mold applications
- For undercutting & deburring applications on multi-axis CNC machines
- Effective on hardened materials
- Available with 220°, 270° or 300° arc cutting capacity (see next page)

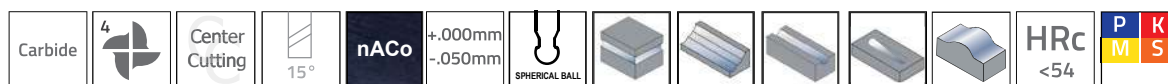
SERIES: VBMG4 ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	Neck DIA	Neck Lgth L ₃	OAL	FLUTE	PART NAME	nAco EDP	nAco Price
1/16	1/8	0.042	0.047	0.150	1-1/2	4	VBMG4-402	11942	24.27
3/32	1/8	0.063	0.070	0.150	1-1/2	4	VBMG4-403	11943	24.27
1/8	1/8	0.084	0.094	0.150	1-1/2	4	VBMG4-404	10051	18.69
1/8	1/8	0.084	0.094	0.150	3	4	VBMG4-404-L	10331	20.70
1/8	1/8	0.084	0.094	1.000	3	4	VBMG4-404-L1	H7357	43.89
1/8	1/8	0.084	0.094	1.500	3	4	VBMG4-404-L2	H7358	52.44
1/8	1/8	0.084	0.094	0.500	1-1/2	4	VBMG4-404-M	H7167	22.69
3/16	3/16	0.126	0.141	0.150	2	4	VBMG4-606	10053	23.65
3/16	3/16	0.126	0.141	0.150	3	4	VBMG4-606-L	10333	26.29
3/16	3/16	0.126	0.141	0.500	2	4	VBMG4-606-M	H7168	27.65
3/16	3/16	0.126	0.141	1.000	3	4	VBMG4-606-L1	H7359	54.33
1/4	1/4	0.168	0.188	0.200	2-1/2	4	VBMG4-808	10055	34.20
1/4	1/4	0.168	0.188	0.200	4	4	VBMG4-808-L	10335	37.43
1/4	1/4	0.168	0.188	0.750	2-1/2	4	VBMG4-808-M	H7169	39.20
1/4	1/4	0.168	0.188	1.500	4	4	VBMG4-808-L1	H7356	69.56
1/4	1/4	0.168	0.188	2.250	4	4	VBMG4-808-L2	H7368	88.67
5/16	5/16	0.210	0.234	0.750	2-1/2	4	VBMG4-1010-L1	H7362	77.00
5/16	5/16	0.210	0.234	1.500	4	4	VBMG4-1010-L2	H7363	92.56
3/8	3/8	0.252	0.281	0.200	2-1/2	4	VBMG4-1212	10057	49.06
3/8	3/8	0.252	0.281	0.200	4	4	VBMG4-1212-L	10337	54.46
3/8	3/8	0.252	0.281	0.750	2-1/2	4	VBMG4-1212-M	H7170	55.06
3/8	3/8	0.252	0.281	1.500	4	4	VBMG4-1212-L1	H7364	98.22
3/8	3/8	0.252	0.281	2.250	4	4	VBMG4-1212-L2	H7365	132.89
1/2	1/2	0.336	0.375	0.250	3	4	VBMG4-1616	10059	72.69
1/2	1/2	0.336	0.375	0.250	6	4	VBMG4-1616-L	10339	104.31
1/2	1/2	0.336	0.375	1.000	3	4	VBMG4-1616-M	H7366	118.22
1/2	1/2	0.336	0.375	2.000	6	4	VBMG4-1616-L1	H7367	186.33



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4 FLUTE • 220° SPHERICAL BALL END MILLS

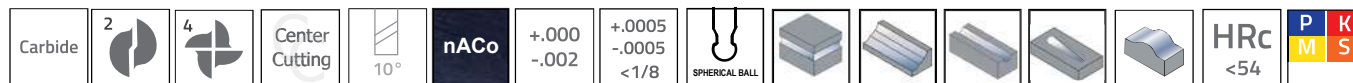
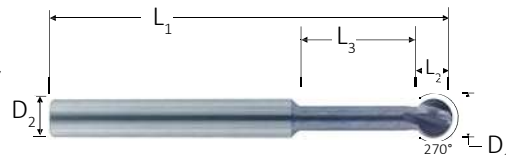


SERIES: VBMG4-M_M_ ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	Neck DIA	Neck Lgth L ₃	OAL	FLUTE	PART NAME	nAco EDP	nAco Price
4mm	4mm	2.7mm	3mm	3.8mm	51mm	4	VBMG4-M4M4	11423	24.03
6mm	6mm	4.0mm	4.5mm	3.8mm	63mm	4	VBMG4-M6M6	11425	34.67
8mm	8mm	5.4mm	6mm	5.1mm	63mm	4	VBMG4-M8M8	11427	42.06
10mm	10mm	6.7mm	7.5mm	5.1mm	70mm	4	VBMG4-M10M10	11428	62.79
12mm	12mm	8.1mm	9mm	6.3mm	76mm	4	VBMG4-M12M12	11429	76.14

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MULTI FLUTE • 270° SPHERICAL BALL END MILLS



- Designed for multi axis cavity work in die & mold applications
- For undercutting & deburring applications on multi-axis CNC machines
- Effective on hardened materials

SERIES: VBMG_ - _ -270 ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	Neck DIA	Neck Lgth L ₃	OAL	FLUTE	PART NAME	nAco EDP	nAco Price
1/32	1/8	0.027	0.016	0.062	1-1/2	2	VBMG2-401-270	H7322	53.33
1/32	1/8	0.027	0.016	0.093	1-1/2	2	VBMG2-401-270L1	H7323	56.89
1/32	1/8	0.027	0.016	0.125	1-1/2	2	VBMG2-401-270L2	H7324	64.11
1/32	1/8	0.027	0.016	0.187	1-1/2	2	VBMG2-401-270L3	H7325	64.11
3/64	1/8	0.040	0.029	0.093	1-1/2	2	VBMG2-401-1/2-270	H7060	57.20
1/16	1/8	0.053	0.037	0.093	1-1/2	2	VBMG2-402-270	H7061	38.49
1/16	1/8	0.053	0.037	0.125	1-1/2	2	VBMG2-402-270 L2	H7326	39.78
1/16	1/8	0.053	0.037	0.187	1-1/2	2	VBMG2-402-270 L3	H7327	39.78
1/16	1/8	0.053	0.037	0.250	1-1/2	2	VBMG2-402-270L1	H7062	49.46
1/16	1/8	0.053	0.037	0.312	1-1/2	2	VBMG2-402-270 L4	H7328	48.44
5/64	1/8	0.067	0.045	0.125	1-1/2	2	VBMG2-402-1/2-270	H7063	38.97
3/32	1/8	0.079	0.054	0.312	1-1/2	2	VBMG2-403-270L3	H7329	42.33
3/32	1/8	0.079	0.054	0.500	2	2	VBMG2-403-270L4	H7330	49.11
3/32	1/8	0.079	0.054	0.625	2	2	VBMG2-403-270L5	H7331	55.44
3/32	1/8	0.079	0.054	0.125	1-1/2	2	VBMG2-403-270	H7064	38.97
3/32	1/8	0.079	0.054	0.250	1-1/2	2	VBMG2-403-270L1	H7065	38.97
3/32	1/8	0.079	0.054	0.375	1-1/2	2	VBMG2-403-270L2	H7066	42.59
1/8	1/8	0.107	0.076	0.125	1-1/2	4	VBMG4-404-270	H7067	33.60
1/8	1/8	0.107	0.076	0.375	1-1/2	4	VBMG4-404-270L3	H7332	36.78
1/8	1/8	0.107	0.076	0.500	1-1/2	4	VBMG4-404-270L1	H7068	38.97
1/8	1/8	0.107	0.076	0.625	2	4	VBMG4-404-270L4	H7333	41.33
1/8	1/8	0.107	0.076	0.750	2	4	VBMG4-404-270L5	H7334	41.33
1/8	1/8	0.107	0.076	1.000	3	4	VBMG4-404-270L2	H7069	45.08
1/8	1/8	0.107	0.076	1.250	3	4	VBMG4-404-270L6	H7335	47.33
1/8	1/8	0.107	0.076	1.500	3	4	VBMG4-404-270L7	H7336	50.22
9/64	3/16	0.119	0.084	0.250	2	4	VBMG4-604-1/2-270	H7337	43.44
9/64	3/16	0.119	0.084	0.500	2	4	VBMG4-604-1/2-270L1	H7338	48.33
3/16	3/16	0.160	0.117	0.125	2	4	VBMG4-606-270	H7070	40.09
3/16	3/16	0.160	0.117	0.375	2	4	VBMG4-606-270 L3	H7339	45.33
3/16	3/16	0.160	0.117	0.500	2	4	VBMG4-606-270L1	H7071	47.58
3/16	3/16	0.160	0.117	0.750	2	4	VBMG4-606-270 L4	H7340	51.56
3/16	3/16	0.160	0.117	1.000	3	4	VBMG4-606-270 L5	H7341	55.22
3/16	3/16	0.160	0.117	1.250	3	4	VBMG4-606-270 L6	H7342	57.44
3/16	3/16	0.160	0.117	1.500	3	4	VBMG4-606-270 L7	H7343	59.33
3/16	3/16	0.160	0.117	1.750	3	4	VBMG4-606-270 L8	H7344	69.11
1/4	1/4	0.213	0.158	0.375	2-1/2	4	VBMG4-808-270	H6850	56.70
1/4	1/4	0.213	0.158	0.500	2-1/2	4	VBMG4-808-270L3	H7345	58.67
1/4	1/4	0.213	0.158	0.625	2-1/2	4	VBMG4-808-270L4	H7346	59.22
1/4	1/4	0.213	0.158	0.750	2-1/2	4	VBMG4-808-270L1	H6852	62.07
1/4	1/4	0.213	0.158	1.125	2-1/2	4	VBMG4-808-270L5	H7347	64.11
1/4	1/4	0.213	0.158	1.500	4	4	VBMG4-808-270L2	H6854	71.93
1/4	1/4	0.213	0.158	2.000	4	4	VBMG4-808-270L6	H7348	74.56
1/4	1/4	0.213	0.158	2.250	4	4	VBMG4-808-270L7	H7349	78.67
1/4	1/4	0.213	0.158	2.500	4	4	VBMG4-808-270L8	H7350	101.56

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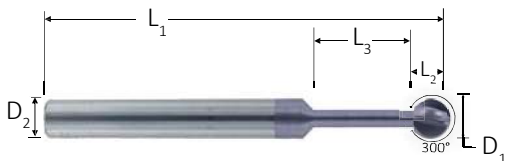
MULTI FLUTE • 270° SPHERICAL BALL END MILLS

SERIES: VBMG_--_-270

DIA D ₁	SHK D ₂	LOC L ₂	Neck DIA	Neck Lgth L ₃	OAL	FLUTE	PART NAME	nACo EDP	nACo Price
5/16	5/16	0.266	0.201	0.375	2-1/2	4	VBMG4-1010-270	H7072	74.31
5/16	5/16	0.266	0.201	0.750	2-1/2	4	VBMG4-1010-270L2	H7351	78.33
5/16	5/16	0.266	0.201	1.125	4	4	VBMG4-1010-270L3	H7352	88.78
5/16	5/16	0.266	0.201	1.500	4	4	VBMG4-1010-270L1	H7073	97.28
5/16	5/16	0.266	0.201	2.000	4	4	VBMG4-1010-270L4	H7353	99.67
5/16	5/16	0.266	0.201	2.250	4	4	VBMG4-1010-270L5	H7354	101.33
3/8	3/8	0.320	0.241	0.187	2-1/2	4	VBMG4-1212-270	H7074	77.05
3/8	3/8	0.320	0.241	0.750	2-1/2	4	VBMG4-1212-270L1	H7075	80.17
3/8	3/8	0.320	0.241	1.500	4	4	VBMG4-1212-270L2	H7076	102.15
3/8	3/8	0.320	0.241	2.000	4	4	VBMG4-1212-270L3	H7355	102.89
1/2	1/2	0.427	0.323	0.500	3	4	VBMG4-1616-270	H7077	111.77
1/2	1/2	0.427	0.323	1.000	6	4	VBMG4-1616-270L1	H7078	194.69



Speed & Feed: page 162


MULTI FLUTE • 300° SPHERICAL BALL END MILLS

Carbide	2	4	Center Cutting	10°	nACo	+.000 -.002	+.0005 -.0005 <1/8	SPHERICAL BALL							HRC <54	P M K S
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- Designed for multi axis cavity work in die & mold applications
- For undercutting & deburring applications on multi-axis CNC machines
- Effective on hardened materials

 SERIES: VBMG_--_-300 ✓ **Check Stock Online**

DIA D ₁	SHK D ₂	LOC L ₂	Neck DIA	Neck Lgth L ₃	OAL	FLUTE	PART NAME	nACo EDP	nACo Price
1/16	1/8	0.057	0.024	0.078	1-1/2	2	VBMG2-402-300	H7079	46.33
5/64	1/8	0.072	0.031	0.093	1-1/2	2	VBMG2-402-1/2-300	H7080	46.33
3/32	1/8	0.086	0.038	0.125	1-1/2	2	VBMG2-403-300	H7081	46.33
1/8	1/8	.116	0.053	0.093	1-1/2	4	VBMG4-404-300	H7082	37.97
1/8	1/8	.116	0.053	0.281	1-1/2	4	VBMG4-404-300L1	H7083	49.21
5/32	3/16	.145	0.071	0.250	2	4	VBMG4-605-300	H7084	54.2
3/16	3/16	.174	0.082	0.125	2	4	VBMG4-606-300	H7085	47.71
3/16	3/16	.174	0.082	0.437	2	4	VBMG4-606-300L1	H7086	62.32
1/4	1/4	.233	0.112	0.187	2-1/2	4	VBMG4-808-300	H6800	63.82
1/4	1/4	.233	0.112	0.625	2-1/2	4	VBMG4-808-300L1	H6802	85.04
5/16	5/16	.291	0.143	0.250	2-1/2	4	VBMG4-1010-300	H7087	87.17
5/16	5/16	.291	0.143	0.437	2-1/2	4	VBMG4-1010-300L1	H7088	103.4
3/8	3/8	.349	0.172	0.250	2-1/2	4	VBMG4-1212-300	H7089	91.79
3/8	3/8	.349	0.172	1.000	3	4	VBMG4-1212-300L1	H7090	130.37
1/2	1/2	.466	0.230	0.312	3	4	VBMG4-1616-300	H7091	141.61
1/2	1/2	.466	0.230	1.250	4	4	VBMG4-1616-300L1	H7092	196.68



Speed & Feed: page 162

2 FLUTE • HIGH FEED CARBIDE END MILL



Carbide	2	Center Cutting	10°	nACRo	+0.000 -0.002	Radius		HRC	P M K S
								<56	



- Designed for use in High Feed milling processes that reduce total machining time by 3-4 times over conventional methods.
- Enables high feed per tooth with shallow depth of cut for highest metal removal rates
- Cutting forces are directed at the machine spindle in the axial direction which means less vibration and greater tool life.
- Especially suited for small molds and medical work

SERIES: HXMG2 ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	FLUTE	PART NAME	nACRo EDP	nACRo Price
3/32	1/4	0.09	0.500	3	0.023	2	HXMG2-803	14553	65.31
1/8	1/4	0.095	0.650	3	0.031	2	HXMG2-804	14555	65.31
3/16	1/4	0.125	0.750	3	0.047	2	HXMG2-806	14557	65.31
1/4	1/4	0.150	1.000	3	0.062	2	HXMG2-808	H7226	57.31
5/16	5/16	0.155	1.187	3	0.078	2	HXMG2-1010	H7227	69.58
3/8	3/8	0.175	1.250	4	0.094	2	HXMG2-1212	H7228	104.06
1/2	1/2	0.200	1.500	4	0.125	2	HXMG2-1616	H7229	146.60

Speed & Feed: page 163

2 FLUTE • HIGH FEED CARBIDE END MILL

Carbide	2	Center Cutting	10°	nACRo	+0.000mm -0.050mm	Radius		HRC	P M K S
								<56	



SERIES: HXMG2-M_M_ (metric) ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	FLUTE	PART NAME	nACRo EDP	nACRo Price
2mm	6mm	2.2mm	12mm	75mm	0.5mm	2	HXMG2-M6M2	14558	65.31
3mm	6mm	2.8mm	16mm	75mm	0.75mm	2	HXMG2-M6M3	14559	65.31
4mm	6mm	3.5mm	20mm	75mm	1mm	2	HXMG2-M6M4	14560	65.31
5mm	6mm	3.5mm	20mm	75mm	1.25mm	2	HXMG2-M6M5	H7230	65.31
6mm	6mm	3.8mm	25mm	75mm	1.5mm	2	HXMG2-M6M6	H7231	57.31
8mm	8mm	4mm	30mm	75mm	2mm	2	HXMG2-M8M8	H7232	69.58
10mm	10mm	4.3mm	33mm	100mm	2.5mm	2	HXMG2-M10M10	H7233	109.25

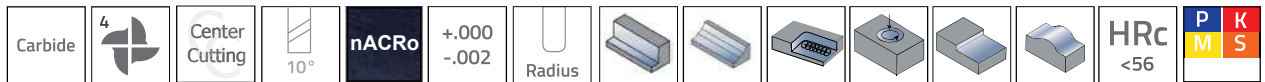
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VARIOUS MATERIAL

4 FLUTE • HIGH FEED CARBIDE END MILL



- Designed for use in High Feed milling processes that reduce total machining time by 3-4 times over conventional methods.
- Enables high feed per tooth with shallow depth of cut for highest metal removal rates
- Cutting forces are directed at the machine spindle in the axial direction which means less vibration and greater tool life.
- Especially suited for small molds and medical work

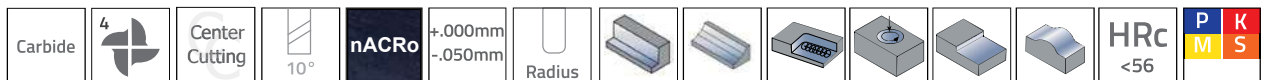
SERIES: HXMG4 ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	FLUTE	PART NAME	nACRo EDP	nACRo Price
3/32	1/4	0.090	0.500	3	0.023	4	HXMG4-803	14550	65.31
1/8	1/4	0.095	0.650	3	0.031	4	HXMG4-804	14551	65.31
3/16	1/4	0.125	0.750	3	0.047	4	HXMG4-806	14552	65.31
1/4	1/4	0.150	1.000	3	0.062	4	HXMG4-808	14546	57.31
5/16	5/16	0.155	1.187	3	0.078	4	HXMG4-1010	14554	69.58
3/8	3/8	0.175	1.250	4	0.094	4	HXMG4-1212	14548	104.06
1/2	1/2	0.200	1.500	4	0.125	4	HXMG4-1616	14549	146.60
5/8	5/8	0.250	1.500	4	0.156	4	HXMG4-2020	14852	185.25



Speed & Feed: page 163

4 FLUTE • HIGH FEED CARBIDE END MILL



SERIES: HXMG4-M_M_ (metric) ✓ [Check Stock Online](#)

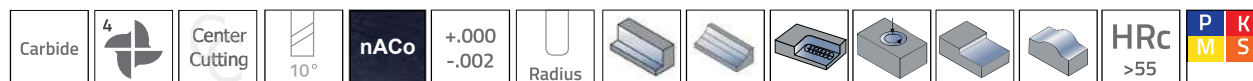
DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	FLUTE	PART NAME	nACRo EDP	nACRo Price
2mm	6mm	2mm	12mm	75mm	0.5mm	4	HXMG4-M6M2	14843	65.31
3mm	6mm	2.8mm	16mm	75mm	0.75mm	4	HXMG4-M6M3	14844	65.31
4mm	6mm	3.5mm	20mm	75mm	1mm	4	HXMG4-M6M4	14845	65.31
5mm	6mm	3.5mm	20mm	75mm	1.25mm	4	HXMG4-M6M5	14846	65.31
6mm	6mm	3.8mm	25mm	75mm	1.5mm	4	HXMG4-M6M6	14847	57.31
8mm	8mm	4mm	30mm	75mm	2mm	4	HXMG4-M8M8	14848	69.58
10mm	10mm	4.3mm	33mm	100mm	2.5mm	4	HXMG4-M10M10	14849	109.25
12mm	12mm	4.6mm	38mm	100mm	3mm	4	HXMG4-M12M12	14850	146.60

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4 FLUTE • HIGH FEED CARBIDE FOR HARDENED MATERIAL END MILL



- Designed for use in High Feed milling processes that reduce total machining time by 3-4 times over conventional methods.
- Enables high feed per tooth with shallow depth of cut for highest metal removal rates
- Cutting forces are directed at the machine spindle in the axial direction which means less vibration and greater tool life.
- Especially suited for small molds and medical work

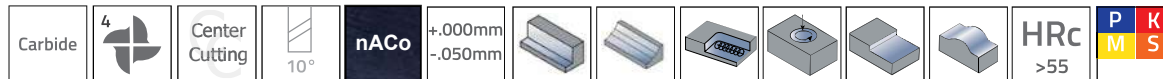
SERIES: HXMG4-__-HM (HARDENED MATERIAL)

[✓ Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	FLUTE	PART NAME	nAco EDP	nAco Price
1/8	1/4	0.095	0.625	2-1/2	0.031	4	HXMG4-804-HM	H6732	68.59
3/16	1/4	0.125	0.650	2-1/2	0.047	4	HXMG4-806-HM	H6733	68.59
1/4	1/4	0.150	0.750	2-1/2	0.062	4	HXMG4-808-HM	H6734	60.32
5/16	5/16	0.155	0.800	2-1/2	0.078	4	HXMG4-1010-HM	H6735	73.02
3/8	3/8	0.175	1.000	2-1/2	0.094	4	HXMG4-1212-HM	H6736	108.70
1/2	1/2	0.200	1.250	3	0.125	4	HXMG4-1616-HM	H6737	152.09
5/8	5/8	0.250	1.250	3-1/2	0.156	4	HXMG4-2020-HM	H6738	195.73

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4 FLUTE • HIGH FEED CARBIDE FOR HARDENED MATERIAL END MILL

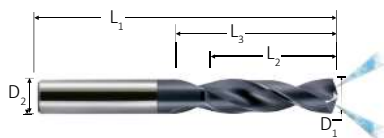


SERIES: HXMG4-M_M_-HM (HARDENED MATERIAL - metric)

[✓ Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	FLUTE	PART NAME	nAco EDP	nAco Price
3mm	6mm	2.8mm	14mm	63mm	0.75mm	4	HXMG4-M6M3-HM	H6739	68.60
4mm	6mm	3.5mm	16mm	63mm	1mm	4	HXMG4-M6M4-HM	H6740	68.60
5mm	6mm	3.5mm	18mm	63mm	1.25mm	4	HXMG4-M6M5-HM	H6741	68.60
6mm	6mm	3.8mm	20mm	63mm	1.5mm	4	HXMG4-M6M6-HM	H6742	60.32
8mm	8mm	4mm	20mm	63mm	2mm	4	HXMG4-M8M8-HM	H6743	73.02
10mm	10mm	4.3mm	25mm	70mm	2.5mm	4	HXMG4-M10M10-HM	H6744	114.07
12mm	12mm	4.6mm	25mm	76mm	3mm	4	HXMG4-M12M12-HM	H6745	152.73

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VARIOUS MATERIAL

2 FLUTE • 140° POINT COOLANT HOLE DRILL



Carbide



Center Cutting



nAco

+0.0000
-0.0005



HRC
<48



- › Designed for use in Steel & Stainless Alloys and Cast Iron
- › Available with 3x, 5x & 7x diameter drill depths
- › Coolant hole is centered in the helix through each flute
- › Has a Self-Centering drill point
- › Unique geometry & honed edge prep minimizes need for pecking
- › Proprietary nAco coating provides extended tool life over conventional coatings

SERIES: CDR ✓ **Check Stock Online**

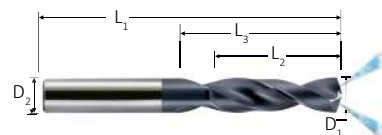
DIAMETER D ₁		SHK D ₂	DRILL LENGTH L ₂	FLUTE LENGTH L ₃	OAL L ₁	PART NAME	nACo EDP	nACo Price
1/16	0.0625	3mm	0.188	0.234	2.362	CDR-1/16-3X	13166	74.82
1/16	0.0625	3mm	0.313	0.391	2.677	CDR-1/16-5X	13212	86.14
1/16	0.0625	3mm	0.438	0.547	2.992	CDR-1/16-7X	13258	99.69
50	0.0700	3mm	0.394	0.492	2.677	CDR-50-5X	19420	86.14
2mm	0.0787	3mm	6.0mm	7.5mm	60mm	CDR-2mm-3X	13167	72.48
2mm	0.0787	3mm	10.0mm	12.5mm	68mm	CDR-2mm-5X	13213	83.02
2mm	0.0787	3mm	14.0mm	17.5mm	76mm	CDR-2mm-7X	13259	95.32
2.1mm	0.0827	3mm	10.5mm	13.1mm	68mm	CDR-2.1mm-5X	14500	83.02
2.2mm	0.0866	3mm	11.0mm	13.8mm	68mm	CDR-2.2mm-5X	14501	83.02
# 43	0.0890	3mm	0.445	0.556	2.670	CDR-43-5X	19510	83.02
2.3mm	0.0906	3mm	11.5mm	14.4mm	68mm	CDR-2.3mm-5X	14502	80.79
3/32	0.0938	3mm	0.281	0.352	2.362	CDR-3/32-3X	13168	70.80
3/32	0.0938	3mm	0.469	0.586	2.677	CDR-3/32-5X	13214	80.79
3/32	0.0938	3mm	0.657	0.821	2.992	CDR-3/32-7X	13260	92.19
2.4mm	0.0945	3mm	12.0mm	15.0mm	68mm	CDR-2.4mm-5X	14503	78.07
# 40	0.0980	3mm	0.294	0.368	2.362	CDR-40-3X	13169	68.77
# 40	0.0980	3mm	0.490	0.613	2.677	CDR-40-5X	13215	78.07
# 40	0.0980	3mm	0.686	0.858	2.992	CDR-40-7X	13261	88.39
2.5mm	0.0984	3mm	7.5mm	9.4mm	60mm	CDR-2.5mm-3X	13170	67.00
2.5mm	0.0984	3mm	12.5mm	15.6mm	68mm	CDR-2.5mm-5X	13216	75.72
2.5mm	0.0984	3mm	17.5mm	21.9mm	76mm	CDR-2.5mm-7X	13262	85.09
# 38	0.1015	3mm	0.508	0.634	2.677	CDR-38-5X	19511	63.06
2.6mm	0.1024	3mm	13.0mm	16.3mm	68mm	CDR-2.6mm-5X	14504	63.06
2.7mm	0.1063	3mm	13.5mm	16.9mm	68mm	CDR-2.7mm-5X	14505	63.06
# 36	0.1065	3mm	0.320	0.399	2.362	CDR-36-3X	13171	61.06
# 36	0.1065	3mm	0.533	0.666	2.677	CDR-36-5X	13217	63.06
# 36	0.1065	3mm	0.746	0.932	2.992	CDR-36-7X	13263	73.79
7/64	0.1094	3mm	0.328	0.410	2.362	CDR-7/64-3X	13172	60.25
7/64	0.1094	3mm	0.547	0.684	2.677	CDR-7/64-5X	13218	66.43
7/64	0.1094	3mm	0.766	0.957	2.992	CDR-7/64-7X	13264	72.28
2.8mm	0.1102	3mm	14.0mm	17.5mm	68mm	CDR-2.8mm-5X	14506	65.64
2.9mm	0.1142	3mm	14.5mm	18.1mm	68mm	CDR-2.9mm-5X	14507	65.64
# 32	0.1160	3mm	0.348	0.435	2.362	CDR-32-3X	13173	59.66
# 32	0.1160	3mm	0.580	0.725	2.677	CDR-32-5X	13219	65.64
# 32	0.1160	3mm	0.812	1.015	2.992	CDR-32-7X	13265	71.18
3mm	0.1181	3mm	9.0mm	11.3mm	60mm	CDR-3mm-3X	13174	55.83
3mm	0.1181	3mm	15.0mm	18.8mm	68mm	CDR-3mm-5X	13220	60.87
3mm	0.1181	3mm	21.0mm	26.3mm	76mm	CDR-3mm-7X	13266	64.94



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2 FLUTE • 140° POINT COOLANT HOLE DRILL



SERIES: CDR

✓ **Check Stock Online**

DIAMETER D ₁		SHK D ₂	DRILL LENGTH L ₂	FLUTE LENGTH L ₃	OAL L ₁	PART NAME	nACo EDP	nACo Price
# 31	0.1200	1/8	0.358	0.407	2.362	CDR-31-3X	13175	56.09
# 31	0.1200	1/8	0.600	0.750	2.677	CDR-31-5X	13221	61.22
# 31	0.1200	1/8	0.990	1.050	2.992	CDR-31-7X	13267	65.42
3.1mm	0.1220	4mm	15.5mm	19.4mm	68mm	CDR-3.1mm-5X	14508	72.51
1/8	0.1250	1/8	0.375	0.469	2.362	CDR-1/8-3X	13176	56.09
1/8	0.1250	1/8	0.625	0.781	2.677	CDR-1/8-5X	13222	61.22
1/8	0.1250	1/8	0.875	1.094	2.992	CDR-1/8-7X	13268	65.42
3.2mm	0.1260	4mm	16.0mm	20.0mm	72mm	CDR-3.2mm-5X	14509	72.51
# 30	0.1285	4mm	0.386	0.482	2.441	CDR-30-3X	13177	60.65
# 30	0.1285	4mm	0.643	0.803	2.835	CDR-30-5X	13223	72.51
# 30	0.1285	4mm	0.900	1.124	3.189	CDR-30-7X	13269	83.42
3.3mm	0.1299	4mm	16.5mm	20.6mm	72mm	CDR-3.3mm-5X	14510	72.51
3.4mm	0.1339	4mm	17.0mm	21.3mm	72mm	CDR-3.4mm-5X	14511	72.51
# 29	0.1360	4mm	0.409	0.512	2.441	CDR-29-3X	13178	60.65
# 29	0.1360	4mm	0.782	0.850	2.835	CDR-29-5X	13224	72.51
# 29	0.1360	4mm	0.952	1.190	3.189	CDR-29-7X	13270	83.42
3.5mm	0.1378	4mm	17.5mm	21.9mm	72mm	CDR-3.5mm-5X	19512	72.51
9/64	0.1406	4mm	0.422	0.527	2.441	CDR-9/64-3X	13179	60.65
9/64	0.1406	4mm	0.703	0.879	2.835	CDR-9/64-5X	13225	72.51
9/64	0.1406	4mm	0.984	1.230	3.189	CDR-9/64-7X	13271	83.42
3.6mm	0.1417	4mm	18.0mm	22.5mm	72mm	CDR-3.6mm-5X	14512	72.51
3.7mm	0.1457	4mm	18.5mm	23.1mm	72mm	CDR-3.7mm-5X	14513	72.51
# 25	0.1495	4mm	0.748	0.934	2.835	CDR-25-5X	19513	72.51
3.8mm	0.1496	4mm	19.0mm	23.8mm	72mm	CDR-3.8mm-5X	14514	72.51
3.9mm	0.1535	4mm	19.5mm	24.4mm	72mm	CDR-3.9mm-5X	14515	72.51
5/32	0.1563	4mm	0.469	0.586	2.441	CDR-5/32-3X	13180	60.65
5/32	0.1563	4mm	0.781	0.977	2.835	CDR-5/32-5X	13226	72.51
5/32	0.1563	4mm	1.094	1.367	3.189	CDR-5/32-7X	13272	83.42
4mm	0.1575	4mm	12.0mm	15.0mm	62mm	CDR-4mm-3X	13181	60.65
4mm	0.1575	4mm	20.0mm	25.0mm	72mm	CDR-4mm-5X	13227	72.51
4mm	0.1575	4mm	28.0mm	35.0mm	81mm	CDR-4mm-7X	13273	83.42
# 21	0.1590	5mm	0.795	0.994	3.189	CDR-21-5X	19514	77.12
4.1mm	0.1614	5mm	20.5mm	25.6mm	81mm	CDR-4.1mm-5X	14516	67.46
4.2mm	0.1654	5mm	21.0mm	26.3mm	81mm	CDR-4.2mm-5X	14517	67.46
4.3mm	0.1693	5mm	21.5mm	26.9mm	81mm	CDR-4.3mm-5X	14518	67.46
11/64	0.1719	5mm	0.516	0.630	2.520	CDR-11/64-3X	19790	67.46
11/64	0.1719	5mm	0.860	1.074	3.189	CDR-11/64-5X	19791	77.12
11/64	0.1719	5mm	1.203	1.530	3.780	CDR-11/64-7X	19792	95.95
4.4mm	0.1732	5mm	22.0mm	27.5mm	81mm	CDR-4.4mm-5X	14520	67.46
# 16	0.1770	5mm	0.885	1.106	3.189	CDR-16-5X	19515	77.12
4.5mm	0.1772	5mm	13.5mm	16.9mm	64mm	CDR-4.5mm-3X	13182	67.46
4.5mm	0.1772	5mm	22.5mm	25.0mm	81mm	CDR-4.5mm-5X	13228	77.12
4.5mm	0.1772	5mm	31.5mm	35.0mm	96mm	CDR-4.5mm-7X	13274	95.03
4.6mm	0.1811	5mm	23.0mm	28.8mm	81mm	CDR-4.6mm-5X	14521	77.13
4.7mm	0.1850	5mm	23.5mm	29.4mm	81mm	CDR-4.7mm-5X	14522	77.13

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2 FLUTE • 140° POINT COOLANT HOLE DRILL

SERIES: CDR

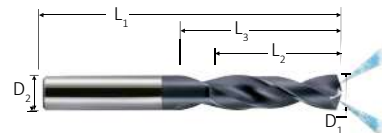
✓ Check Stock Online

DIAMETER D ₁		SHK D ₂	DRILL LENGTH L ₂	FLUTE LENGTH L ₃	OAL L ₁	PART NAME	nACo EDP	nACo Price
3/16	0.1875	5mm	0.563	0.703	2.520	CDR-3/16-3X	13183	67.46
3/16	0.1875	5mm	0.938	1.172	3.189	CDR-3/16-5X	13229	77.13
3/16	0.1875	5mm	1.313	1.641	3.780	CDR-3/16-7X	13275	95.03
4.8mm	0.1890	5mm	24.0mm	30.0mm	81mm	CDR-4.8mm-5X	14523	77.13
4.9mm	0.1929	5mm	24.5mm	30.6mm	81mm	CDR-4.9mm-5X	14524	77.13
5mm	0.1969	5mm	15.0mm	18.8mm	64mm	CDR-5mm-3X	13184	67.46
5mm	0.1969	5mm	25.0mm	31.3mm	81mm	CDR-5mm-5X	13230	77.13
5mm	0.1969	5mm	35.0mm	43.8mm	96mm	CDR-5mm-7X	13276	95.03
5.1mm	0.2008	6mm	25.5mm	31.9mm	81mm	CDR-5.1mm-5X	14525	86.64
# 7	0.2010	6mm	1.004	1.256	3.189	CDR-7-5X	19516	86.64
13/64	0.2031	6mm	0.609	0.762	2.559	CDR-13/64-3X	13185	74.97
13/64	0.2031	6mm	1.016	1.270	3.189	CDR-13/64-5X	13231	86.64
13/64	0.2031	6mm	1.422	1.777	3.780	CDR-13/64-7X	13277	107.83
5.2mm	0.2047	6mm	26.0mm	32.5mm	81mm	CDR-5.2mm-5X	14526	86.64
5.3mm	0.2087	6mm	26.5mm	33.1mm	81mm	CDR-5.3mm-5X	14527	86.64
5.4mm	0.2126	6mm	27.0mm	33.8mm	81mm	CDR-5.4mm-5X	14528	86.64
# 3	0.2130	6mm	1.065	1.331	3.189	CDR-3-5X	19517	86.64
5.5mm	0.2165	6mm	27.5mm	34.4mm	81mm	CDR-5.5mm-5X	14529	86.64
7/32	0.2188	6mm	0.656	0.820	2.559	CDR-7/32-3X	13186	74.97
7/32	0.2188	6mm	1.094	1.367	3.189	CDR-7/32-5X	13232	86.64
7/32	0.2188	6mm	1.531	1.914	3.780	CDR-7/32-7X	13278	107.83
5.6mm	0.2205	6mm	28.0mm	35.0mm	81mm	CDR-5.6mm-5X	14530	86.64
5.7mm	0.2244	6mm	28.5mm	35.6mm	81mm	CDR-5.7mm-5X	14531	86.64
5.8mm	0.2283	6mm	33.4mm	36.3mm	81mm	CDR-5.8mm-5X	14532	86.64
5.9mm	0.2323	6mm	34mm	36.9mm	81mm	CDR-5.9mm-5X	14533	86.64
6mm	0.2362	6mm	18.0mm	22.5mm	65mm	CDR-6mm-3X	13187	74.97
6mm	0.2362	6mm	30.0mm	37.5mm	81mm	CDR-6mm-5X	13233	86.64
6mm	0.2362	6mm	42.0mm	52.5mm	96mm	CDR-6mm-7X	13279	107.83
6.1mm	0.2402	8mm	30.5mm	38.1mm	96mm	CDR-6.1mm-5X	14534	86.64
6.2mm	0.2441	8mm	31.0mm	38.8mm	96mm	CDR-6.2mm-5X	14535	86.64
6.3mm	0.2480	8mm	31.5mm	39.4mm	96mm	CDR-6.3mm-5X	14536	86.64
1/4	0.2500	8mm	0.750	0.938	2.992	CDR-1/4-3X	13188	99.94
1/4	0.2500	8mm	1.250	1.563	3.780	CDR-1/4-5X	13234	130.90
1/4	0.2500	8mm	1.750	2.188	4.567	CDR-1/4-7X	13280	157.80
6.4mm	0.2520	8mm	32.0mm	40.0mm	96mm	CDR-6.4mm-5X	14537	130.90
6.5mm	0.2559	8mm	32.5mm	40.6mm	96mm	CDR-6.5mm-5X	14538	130.90
F	0.2570	8mm	1.285	1.606	3.780	CDR-F-5X	19518	130.90
6.6mm	0.2598	8mm	33.0mm	41.3mm	96mm	CDR-6.6mm-5X	14539	130.90
6.7mm	0.2638	8mm	33.5mm	41.9mm	96mm	CDR-6.7mm-5X	14540	130.90
6.8mm	0.2677	8mm	34.0mm	42.5mm	96mm	CDR-6.8mm-5X	14541	130.90
6.9mm	0.2717	8mm	34.5mm	43.1mm	96mm	CDR-6.9mm-5X	14542	130.90
I	0.2720	8mm	1.360	1.700	3.780	CDR-I-5X	19519	130.90
7mm	0.2756	8mm	21.0mm	26.3mm	76mm	CDR-7mm-3X	13189	99.94
7mm	0.2756	8mm	35.0mm	43.8mm	96mm	CDR-7mm-5X	13235	130.90
7mm	0.2756	8mm	49.0mm	61.3mm	116mm	CDR-7mm-7X	13281	157.80



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2 FLUTE • 140° POINT COOLANT HOLE DRILL

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SERIES: CDR

DIAMETER D ₁		SHK D ₂	DRILL LENGTH L ₂	FLUTE LENGTH L ₃	OAL L ₁	PART NAME	nACo EDP	nACo Price
9/32	0.2813	8mm	0.844	1.055	2.992	CDR-9/32-3X	13190	99.94
9/32	0.2813	8mm	1.406	1.758	3.780	CDR-9/32-5X	13236	130.90
9/32	0.2813	8mm	1.969	2.461	4.567	CDR-9/32-7X	13282	157.80
7.5mm	0.2953	8mm	37.5mm	46.9mm	96mm	CDR-7.5mm-5X	14547	130.90
5/16	0.3125	8mm	0.938	1.172	2.992	CDR-5/16-3X	13191	99.94
5/16	0.3125	8mm	1.563	1.953	3.780	CDR-5/16-5X	13237	130.90
5/16	0.3125	8mm	2.188	2.734	4.567	CDR-5/16-7X	13283	157.80
8mm	0.3150	8mm	24.0mm	30.0mm	76mm	CDR-8mm-3X	13192	99.94
8mm	0.3150	8mm	40.0mm	50.0mm	96mm	CDR-8mm-5X	13238	130.90
8mm	0.3150	8mm	56.0mm	70.0mm	116mm	CDR-8mm-7X	13284	157.80
Q	0.3320	10mm	1.660	2.075	4.252	CDR-Q-5X	19520	160.07
8.5mm	0.3346	10mm	42.5mm	53.1mm	108mm	CDR-8.5mm-5X	14556	160.07
11/32	0.3438	10mm	1.031	1.289	3.504	CDR-11/32-3X	13193	142.86
11/32	0.3438	10mm	1.719	2.148	4.252	CDR-11/32-5X	13239	160.07
11/32	0.3438	10mm	2.406	3.008	5.512	CDR-11/32-7X	13285	209.80
9mm	0.3543	10mm	27.0mm	33.8mm	89mm	CDR-9mm-3X	13194	142.86
9mm	0.3543	10mm	45.0mm	56.3mm	108mm	CDR-9mm-5X	13240	160.07
9mm	0.3543	10mm	63.0mm	78.8mm	140mm	CDR-9mm-7X	13286	209.80
U	0.3680	10mm	1.84	2.300	4.252	CDR-U-5X	19521	160.07
9.5mm	0.3740	10mm	47.5mm	59.4mm	108mm	CDR-9.5mm-5X	14561	160.07
3/8	0.375	10mm	1.125	1.406	3.504	CDR-3/8-3X	13195	142.86
3/8	0.375	10mm	1.875	2.344	4.252	CDR-3/8-5X	13241	160.07
3/8	0.375	10mm	2.625	3.281	5.512	CDR-3/8-7X	13287	209.80
25/64	0.3906	10mm	1.953	2.441	4.252	CDR-25/64-5X	19522	160.07
10mm	0.3937	10mm	30.0mm	37.5mm	89mm	CDR-10mm-3X	13196	142.86
10mm	0.3937	10mm	50.0mm	62.5mm	108mm	CDR-10mm-5X	13242	160.07
10mm	0.3937	10mm	70.0mm	87.5mm	140mm	CDR-10mm-7X	13288	209.80
10.5mm	0.4134	12mm	52.5mm	65.6mm	132mm	CDR-10.5mm-5X	14562	231.97
27/64	0.4219	12mm	2.110	2.707	5.197	CDR-27/64-5X	14563	231.97
11mm	0.4331	12mm	33.0mm	41.3mm	102mm	CDR-11mm-3X	13197	173.88
11mm	0.4331	12mm	55.0mm	68.8mm	132mm	CDR-11mm-5X	13243	231.97
11mm	0.4331	12mm	77.0mm	96.3mm	162mm	CDR-11mm-7X	13289	272.16
7/16	0.4375	12mm	1.313	1.641	4.016	CDR-7/16-3X	13198	173.88
7/16	0.4375	12mm	2.188	2.734	5.197	CDR-7/16-5X	13244	231.97
7/16	0.4375	12mm	3.063	3.828	6.378	CDR-7/16-7X	13290	272.16
11.5mm	0.4528	12mm	57.5mm	71.9mm	132mm	CDR-11.5mm-5X	14564	231.97
29/64	0.4621	12mm	2.311	2.888	5.197	CDR-29/64-5X	19524	231.97
12mm	0.4724	12mm	36.0mm	45mm	102mm	CDR-12mm-3X	13199	173.88
12mm	0.4724	12mm	60.0mm	75mm	132mm	CDR-12mm-5X	13245	231.97
12mm	0.4724	12mm	84.0mm	105mm	162mm	CDR-12mm-7X	13291	272.16
12.5mm	0.4921	14mm	37.5mm	46.9mm	102mm	CDR-12.5mm-3X	11773	227.93
12.5mm	0.4921	14mm	62.5mm	78.1mm	138mm	CDR-12.5mm-5X	14565	301.98
1/2	0.5000	14mm	1.500	1.875	4.016	CDR-1/2-3X	13200	227.93
1/2	0.5000	14mm	2.500	3.125	5.433	CDR-1/2-5X	13246	301.98
1/2	0.5000	14mm	3.500	4.375	6.457	CDR-1/2-7X	13292	335.96

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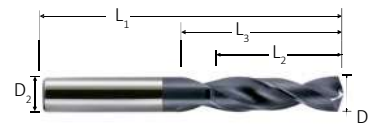
2 FLUTE • 140° POINT COOLANT HOLE DRILL

SERIES: CDR

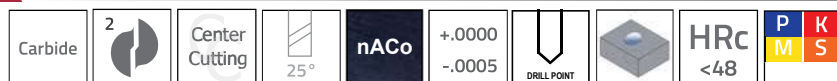
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DIAMETER D ₁		SHK D ₂	DRILL LENGTH L ₂	FLUTE LENGTH L ₃	OAL L ₁	PART NAME	nACo EDP	nACo Price
13mm	0.5118	14mm	39.0mm	48.8mm	102mm	CDR-13mm-3X	13201	227.93
13mm	0.5118	14mm	65.0mm	81.3mm	138mm	CDR-13mm-5X	13247	301.98
13mm	0.5118	14mm	91.0mm	113.8mm	164mm	CDR-13mm-7X	13293	335.96
14mm	0.5512	14mm	39.0mm	52.5mm	102mm	CDR-14mm-3X	13202	235.98
14mm	0.5512	14mm	70.0mm	87.5mm	138mm	CDR-14mm-5X	13248	301.98
14mm	0.5512	14mm	98.0mm	122.5mm	175mm	CDR-14mm-7X	13294	359.94
9/16	0.5625	16mm	1.688	2.109	4.252	CDR-9/16-3X	13203	275.88
9/16	0.5625	16mm	2.813	3.516	5.906	CDR-9/16-5X	13249	367.23
9/16	0.5625	16mm	3.938	4.922	7.480	CDR-9/16-7X	13295	506.53
15mm	0.5906	16mm	45.0mm	56.3mm	108mm	CDR-15mm-3X	13204	275.88
15mm	0.5906	16mm	75.0mm	93.8mm	150mm	CDR-15mm-5X	13250	367.23
15mm	0.5906	16mm	105.0mm	131.3mm	190mm	CDR-15mm-7X	13296	506.53
5/8	0.6250	16mm	1.875	2.344	4.252	CDR-5/8-3X	13205	275.88
5/8	0.6250	16mm	3.125	3.906	5.906	CDR-5/8-5X	13251	367.23
5/8	0.6250	16mm	4.375	5.469	7.480	CDR-5/8-7X	13297	506.53
16mm	0.6299	16mm	48.0mm	60mm	108mm	CDR-16mm-3X	13206	275.88
16mm	0.6299	16mm	80.0mm	100mm	150mm	CDR-16mm-5X	13252	367.23
16mm	0.6299	16mm	112.0mm	140mm	190mm	CDR-16mm-7X	13298	506.53
17mm	0.6693	18mm	51.0mm	63.8mm	124mm	CDR-17mm-3X	13207	403.89
17mm	0.6693	18mm	85.0mm	106.3mm	164mm	CDR-17mm-5X	13253	482.21
17mm	0.6693	18mm	119.0mm	148.8mm	215mm	CDR-17mm-7X	13299	699.51
18mm	0.7087	18mm	54.0mm	67.5mm	124mm	CDR-18mm-3X	13208	403.89
18mm	0.7087	18mm	90.0mm	112.5mm	164mm	CDR-18mm-5X	13254	482.21
18mm	0.7087	18mm	126.0mm	157.5mm	215mm	CDR-18mm-7X	13300	731.29
19mm	0.7480	20mm	57.0mm	71.3mm	128mm	CDR-19mm-3X	13209	487.88
19mm	0.7480	20mm	95.0mm	118.8mm	178mm	CDR-19mm-5X	13255	703.72
19mm	0.7480	20mm	133.0mm	166.3mm	228mm	CDR-19mm-7X	13301	874.37
3/4	0.7500	20mm	2.250	2.813	5.039	CDR-3/4-3X	13210	487.88
3/4	0.7500	20mm	3.750	4.688	7.008	CDR-3/4-5X	13256	703.72
3/4	0.7500	20mm	5.250	6.563	8.976	CDR-3/4-7X	13302	874.37
20mm	0.7874	20mm	60.0mm	75mm	128mm	CDR-20mm-3X	13211	487.88
20mm	0.7874	20mm	100.0mm	125mm	178mm	CDR-20mm-5X	13257	703.72
20mm	0.7874	20mm	140.0mm	175mm	228mm	CDR-20mm-7X	13303	874.37

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2 FLUTE • 140° POINT WITHOUT COOLANT HOLE DRILL



- Designed for use most Ferrous Materials
- Has a Self-Centering drill point
- Unique geometry & honed edge prep minimizes need for pecking
- Proprietary nACo coating provides extended tool life over conventional coatings

SERIES: MDR ✓ **Check Stock Online**



DIAMETER D ₁		SHK D ₂	DRILL LENGTH L ₂	FLUTE LENGTH L ₃	OAL L ₁	PART NAME	nACo EDP	nACo Price
3/64	0.0469	1/8	0.2810	0.3520	1-1/2	MDR-3/64	14257	20.61
# 55	0.0520	1/8	0.3090	0.3870	1-1/2	MDR-55	14258	20.61
# 54	0.0550	1/8	0.3250	0.4060	1-1/2	MDR-54	14259	20.65
1.5mm	0.0591	3mm	8.8mm	11mm	38mm	MDR-1.5MM	14309	19.76
# 53	0.0595	1/8	0.3480	0.4350	1-1/2	MDR-53	14260	20.65
1/16	0.0625	1/8	0.3630	0.4530	1-1/2	MDR-1/16	10292	17.66
# 52	0.0635	1/8	0.3650	0.4560	1-1/2	MDR-52	14261	20.72
# 50	0.0700	1/8	0.3990	0.4990	2	MDR-50	14262	20.76
# 49	0.0730	1/8	0.4120	0.5160	2	MDR-49	14263	20.78
# 48	0.0760	1/8	0.4260	0.5320	2	MDR-48	14264	20.84
5/64	0.0781	1/8	0.4330	0.5420	2	MDR-5/64	14265	20.84
2mm	0.0787	3mm	10.9mm	13.5mm	38mm	MDR-2MM	14310	19.95
# 46	0.0810	1/8	0.4460	0.5570	2	MDR-46	14266	20.84
# 45	0.0820	1/8	0.4470	0.5590	2	MDR-45	14267	20.99
# 44	0.0860	1/8	0.4640	0.5810	2	MDR-44	14268	21.03
# 43	0.0890	1/8	0.4760	0.5950	2	MDR-43	14269	21.06
# 42	0.0935	1/8	0.4960	0.6190	2	MDR-42	14270	21.12
3/32	0.0938	1/8	0.4920	0.6160	2	MDR-3/32	10294	18.19
# 41	0.0960	1/8	0.4990	0.6240	2	MDR-41	14271	21.17
# 40	0.0980	1/8	0.5050	0.6310	2	MDR-40	14272	21.27
2.5mm	0.0984	3mm	12.5mm	15.5mm	38mm	MDR-2.5MM	14311	20.35
# 39	0.0995	1/8	0.5070	0.6340	2	MDR-39	14273	21.27
# 38	0.1015	1/8	0.5130	0.6410	2	MDR-38	14274	21.43
# 37	0.1040	1/8	0.5200	0.6500	2	MDR-37	14275	21.44
# 36	0.1065	1/8	0.5270	0.6590	2	MDR-36	14276	21.51
7/64	0.1094	1/8	0.5360	0.6700	2	MDR-7/64	14277	21.50
#32	0.1160	1/8	0.5630	0.7040	2	MDR-32	14566	21.50
3mm	0.1181	3mm	14.1mm	17.5mm	38mm	MDR-3MM	10290	20.79
# 31	0.1200	1/8	0.5820	0.7280	2	MDR-31	14278	21.75
1/8	0.1250	1/8	0.6000	0.7500	2	MDR-1/8	14279	21.50
# 30	0.1285	3/16	0.6100	0.7630	2	MDR-30	14280	29.01
# 29	0.1360	3/16	0.6390	0.7990	2	MDR-29	14281	29.08
3.5mm	0.1378	4mm	15.6mm	19.5mm	50mm	MDR-3.5MM	14312	29.20
# 28	0.1405	3/16	0.6530	0.8170	2	MDR-28	14282	29.31
9/64	0.1406	3/16	0.6470	0.8080	2	MDR-9/64	14283	28.87
# 25	0.1495	3/16	0.6800	0.8500	2.5	MDR-25	14284	29.49
5/32	0.1562	3/16	0.7030	0.8790	2.5	MDR-5/32	14285	29.01
4mm	0.1575	4mm	16.8mm	21mm	50mm	MDR-4MM	14313	29.82
# 21	0.1590	3/16	0.7080	0.8840	2.5	MDR-21	14286	29.98

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SERIES: MDR

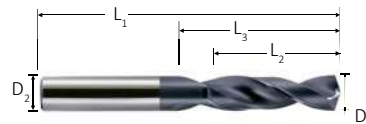
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DIAMETER D ₁		SHK D ₂	DRILL LENGTH L ₂	FLUTE LENGTH L ₃	OAL L ₁	PART NAME	nACo EDP	nACo Price
# 20	0.1610	3/16	0.6440	0.8050	2.5	MDR-20	14287	30.28
11/64	0.1719	3/16	0.6880	0.8600	2.5	MDR-11/64	14288	30.24
16	0.1770	3/16	0.7080	0.8850	2.5	MDR-16	14289	30.87
4.5mm	0.1772	5mm	18mm	22.5mm	50mm	MDR-4.5MM	14314	30.76
3/16	0.1875	3/16	0.7500	0.9380	2.5	MDR-3/16	14290	30.24
11	0.1910	1/4	0.7640	0.9550	2.5	MDR-11	14291	37.01
10	0.1935	1/4	0.7740	0.9680	2.5	MDR-10	14292	37.01
5mm	0.1969	5mm	20mm	25mm	50mm	MDR-5MM	14315	38.56
7	0.2010	1/4	0.8040	1.0050	2.5	MDR-7	14293	37.53
13/64	0.2031	1/4	0.8120	1.0160	2.5	MDR-13/64	14294	37.14
5	0.2055	1/4	0.8220	1.0280	2.5	MDR-5	14295	37.87
3	0.2130	1/4	0.8520	1.0650	2.5	MDR-3	14296	38.27
7/32	0.2188	1/4	0.8750	1.0940	2.5	MDR-7/32	14297	37.14
15/64	0.2344	1/4	0.9380	1.1720	2.5	MDR-15/64	14298	38.99
6mm	0.2362	6mm	24mm	30mm	63mm	MDR-6MM	14316	40.47
1/4	0.2500	1/4	1	1.25	2.5	MDR-1/4	10296	38.48
6.5mm	0.2559	8mm	26mm	33mm	75mm	MDR-6.5MM	19810	54.91
F	0.2570	5/16	1.0280	1.2850	3	MDR-F	14299	54.58
17/64	0.2656	5/16	1.0620	1.3280	3	MDR-17/64	14300	55.15
I	0.2720	5/16	1.0880	1.3600	3	MDR-I	14301	55.40
7mm	0.2756	8mm	28mm	35mm	75mm	MDR-7MM	14317	54.91
9/32	0.2812	5/16	1.1250	1.4060	3	MDR-9/32	14302	55.59
7.5mm	0.2953	8mm	30mm	38mm	75mm	MDR-7.5MM	19811	70.87
19/64	0.2969	5/16	1.1880	1.4840	3	MDR-19/64	19793	55.59
5/16	0.3125	5/16	1.2500	1.5630	3	MDR-5/16	10298	51.11
8mm	0.3150	8mm	32mm	40mm	75mm	MDR-8MM	14318	70.87
21/64	0.3281	3/8	1.3130	1.5750	3	MDR-21/64	19794	73.74
Q	0.3320	3/8	1.3280	1.5940	3	MDR-Q	19795	73.74
8.5mm	0.3346	10mm	34mm	41mm	100mm	MDR-8.5MM	19812	74.67
11/32	0.3438	3/8	1.3750	1.6500	3	MDR-11/32	14303	73.74
9mm	0.3543	10mm	36mm	43mm	100mm	MDR-9MM	14319	74.67
23/64	0.3594	3/8	1.4380	1.7250	3	MDR-23/64	19796	77.48
U	0.3680	3/8	1.4720	1.7660	3	MDR-U	19797	77.48
9.5mm	0.3740	10mm	38mm	45mm	100mm	MDR-9.5MM	19813	103.01
3/8	0.3750	3/8	1.5000	1.8	3	MDR-3/8	10302	77.48
25/64	0.3906	7/16	1.5630	1.9	4	MDR-25/64	19798	104.26
10mm	0.3937	10mm	40mm	47mm	100mm	MDR-10MM	14320	103.01
13/32	0.4063	7/16	1.6250	1.8690	4	MDR-13/32	19799	104.26
10.5mm	0.4134	12mm	42mm	48mm	100mm	MDR-10.5MM	19814	132.34
27/64	0.4219	7/16	1.6880	1.9410	4	MDR-27/64	19800	104.26
11mm	0.4331	12mm	44mm	49mm	100mm	MDR-11MM	19815	132.34
7/16	0.4375	7/16	1.7500	2.0130	4	MDR-7/16	14304	104.26
11.5mm	0.4528	12mm	46mm	51mm	100mm	MDR-11.5MM	19816	132.34
29/64	0.4531	1/2	1.8130	1.9940	4	MDR-29/64	19801	121.43
12mm	0.4724	12mm	48mm	53mm	100mm	MDR-12MM	14321	132.34
31/64	0.4844	1/2	1.9380	2.1310	4	MDR-31/64	19802	121.43



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DIAMETER D ₁	SHK D ₂	DRILL LENGTH L ₂	FLUTE LENGTH L ₃	OAL L ₁	PART NAME	nACo EDP	nACo Price
12.5mm	0.4921	14mm	50mm	56mm	MDR-12.5MM	19817	169.03
1/2	0.5000	1/2	2.0000	2.2	MDR-1/2	14305	121.43
13mm	0.5118	14mm	52mm	58mm	MDR-13MM	19818	169.03
33/64	0.5156	9/16	2.0630	2.2690	MDR-33/64	19803	169.03
17/32	0.5313	9/16	2.1250	2.3380	MDR-17/32	19804	169.03
13.5mm	0.5315	14mm	54mm	60mm	MDR-13.5MM	19819	169.03
35/64	0.5469	9/16	2.1880	2.4060	MDR-35/64	19805	169.03
14mm	0.5512	14mm	56mm	62mm	MDR-14MM	19151	169.03
9/16	0.5625	9/16	2.2500	2.4750	MDR-9/16	14306	169.03
37/64	0.5781	5/8	2.3130	2.5440	MDR-37/64	19806	203.84
15mm	0.5906	16mm	60mm	66mm	MDR-15MM	19152	203.84
19/32	0.5938	5/8	2.3750	2.6130	MDR-19/32	19807	203.84
5/8	0.6250	5/8	2.5000	2.7500	MDR-5/8	14307	203.84
16mm	0.6299	16mm	64mm	70mm	MDR-16MM	19153	285.08
21/32	0.6563	3/4	2.4280	2.6710	MDR-21/32	19808	285.08
11/16	0.6875	3/4	2.5440	2.7980	MDR-11/16	19809	285.08
3/4	0.7500	3/4	2.7750	3.0530	MDR-3/4	14308	285.08

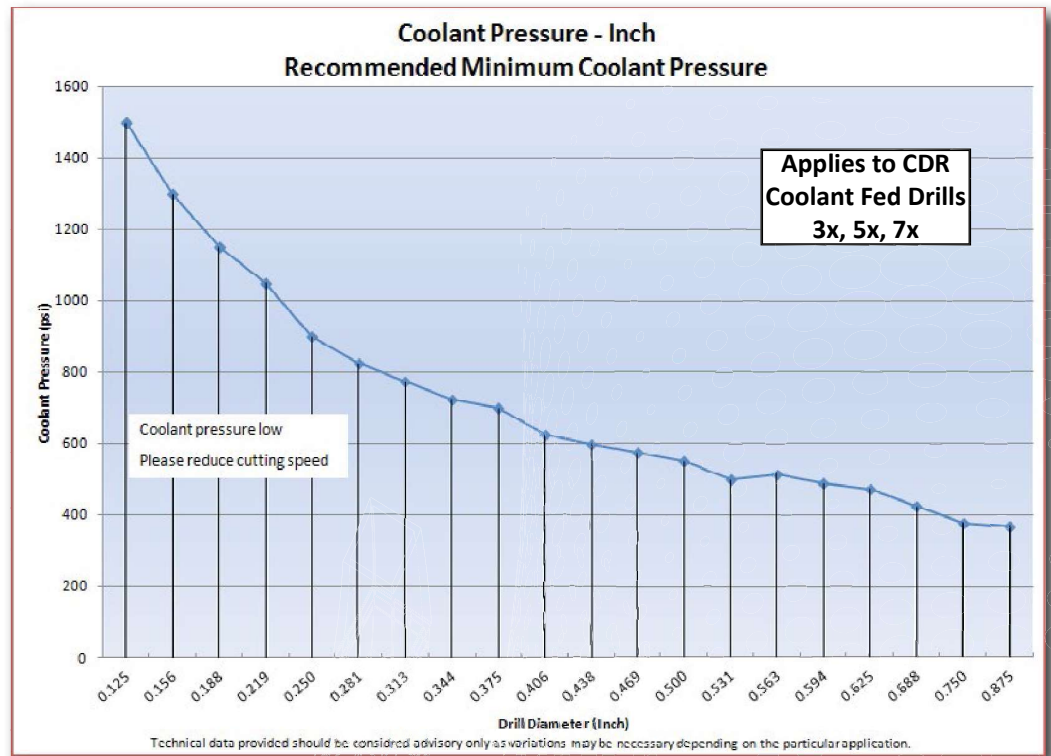
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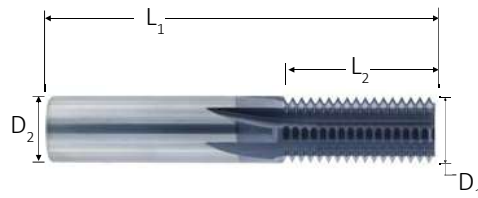
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- Eliminate Steps
- Evaluate Alternative Processes
- Optimize Tool Design
- Significantly Reduce Chatter & Vibrations



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- Threads large diameter holes faster and more accurately than conventional or high performance taps
- Reduces chatter

SERIES: TM-__-S ✓ [Check Stock Online](#)

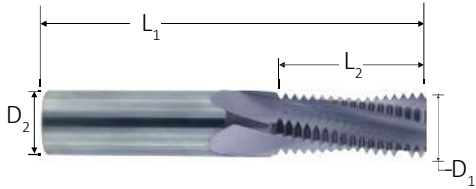
MIN THREAD DIA./PITCH	CUTTER DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	FLUTE	PART NAME	AITiN EDP	AITiN Price
6-32	0.085	1/8	7/32	2	2	TM-6-32-S	17500	106.67
8-32	0.120	1/8	1/4	2	3	TM-8-32-S	17501	106.67
10-24	0.140	3/16	5/16	2-1/2	3	TM-10-24-S	17502	117.78
10-28	0.140	3/16	5/16	2-1/2	3	TM-10-28-S	17503	117.78
10-32	0.140	3/16	5/16	2-1/2	3	TM-10-32-S	17504	117.78
1/4-20	0.180	3/16	1/2	2-1/2	3	TM-1/4-20-S	17505	128.89
1/4-28	0.180	3/16	1/2	2-1/2	3	TM-1/4-28-S	17506	128.89
1/4-32	0.180	3/16	1/2	2-1/2	3	TM-1/4-32-S	17507	128.89
5/16-18	0.235	1/4	5/8	2-1/2	3	TM-5/16-18-S	17508	138.89
5/16-24	0.235	1/4	5/8	2-1/2	3	TM-5/16-24-S	17509	138.89
5/16-32	0.235	1/4	5/8	2-1/2	3	TM-5/16-32-S	17510	138.89
3/8-16	0.300	5/16	3/4	3	4	TM-3/8-16-S	17511	165.56
3/8-24	0.300	5/16	3/4	3	4	TM-3/8-24-S	17512	165.56
7/16-14	0.345	3/8	3/4	3-1/2	4	TM-7/16-14-S	17513	183.33
7/16-20	0.345	3/8	3/4	3-1/2	4	TM-7/16-20-S	17514	183.33
1/2-13	0.370	3/8	7/8	3-1/2	4	TM-1/2-13-S	17515	183.33
1/2-20	0.370	3/8	7/8	3-1/2	4	TM-1/2-20-S	17516	183.33
1/2-28	0.370	3/8	7/8	3-1/2	4	TM-1/2-28-S	17517	183.33
9/16-12	0.450	1/2	7/8	3-1/2	4	TM-9/16-12-S	17518	221.11
9/16-18	0.450	1/2	7/8	3-1/2	4	TM-9/16-18-S	17519	221.11
5/8-10	0.490	1/2	1-1/4	3-1/2	6	TM-5/8-10-S	17520	221.11
5/8-11	0.490	1/2	1-1/4	3-1/2	6	TM-5/8-11-S	17521	221.11
5/8-12	0.490	1/2	1-1/4	3-1/2	6	TM-5/8-12-S	17522	221.11
5/8-18	0.490	1/2	1-1/4	3-1/2	6	TM-5/8-18-S	17523	221.11
3/4-12	0.600	5/8	1-1/4	3-1/2	6	TM-3/4-12-S	17524	276.67
3/4-16	0.600	5/8	1-1/4	3-1/2	6	TM-3/4-16-S	17525	276.67
3/4-20	0.600	5/8	1-1/4	3-1/2	6	TM-3/4-20-S	17526	276.67
7/8-9	0.620	5/8	1-1/4	3-1/2	6	TM-7/8-9-S	17527	276.67
7/8-12	0.620	5/8	1-1/4	3-1/2	6	TM-7/8-12-S	17528	276.67
7/8-14	0.620	5/8	1-1/4	3-1/2	6	TM-7/8-14-S	17529	276.67
7/8-16	0.620	5/8	1-1/4	3-1/2	6	TM-7/8-16-S	17530	276.67
7/8-20	0.620	5/8	1-1/4	3-1/2	6	TM-7/8-20-S	17531	276.67
1-8	0.735	3/4	1-3/8	5	4	TM-1-8-S	17532	366.27
1-12	0.735	3/4	1-3/8	5	4	TM-1-12-S	17533	366.27
1-16	0.735	3/4	1-3/8	5	4	TM-1-16-S	17534	366.27
1-20	0.735	3/4	1-3/8	5	4	TM-1-20-S	17535	366.27

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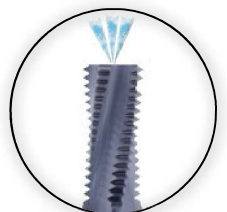
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- Threads large diameter holes faster and more accurately than conventional or high performance taps
- Reduces chatter

SERIES: TM-__-H ✓ **Check Stock Online**

MIN THREAD DIA./PITCH	CUTTER DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	FLUTE	PART NAME	AITiN EDP	AITiN Price
2-56	0.065	1/8	0.125	2	3	TM-2-56-H	14647	112.54
3-48	0.075	1/8	0.167	2	3	TM-3-48-H	14649	111.47
4-40	0.085	1/8	0.175	2	3	TM-4-40-H	14650	110.40
6-32	0.085	1/8	7/32	2	3	TM-6-32-H	17536	106.67
8-32	0.120	1/8	1/4	2	3	TM-8-32-H	17537	106.67
10-24	0.140	3/16	5/16	2-1/2	3	TM-10-24-H	17538	117.78
10-28	0.140	3/16	5/16	2-1/2	3	TM-10-28-H	17539	117.78
10-32	0.140	3/16	5/16	2-1/2	3	TM-10-32-H	17540	117.78
1/4-20	0.180	3/16	1/2	2-1/2	3	TM-1/4-20-H	17541	128.89
1/4-28	0.180	3/16	1/2	2-1/2	3	TM-1/4-28-H	17542	128.89
1/4-32	0.180	3/16	1/2	2-1/2	3	TM-1/4-32-H	17543	128.89
5/16-18	0.235	1/4	5/8	2-1/2	3	TM-5/16-18-H	17544	138.89
5/16-24	0.235	1/4	5/8	2-1/2	3	TM-5/16-24-H	17545	138.89
5/16-32	0.235	1/4	5/8	2-1/2	3	TM-5/16-32-H	17546	138.89
3/8-16	0.300	5/16	3/4	3	4	TM-3/8-16-H	17547	165.56
3/8-24	0.300	5/16	3/4	3	4	TM-3/8-24-H	17548	165.56
7/16-14	0.345	3/8	3/4	3-1/2	4	TM-7/16-14-H	17549	183.33
7/16-20	0.345	3/8	3/4	3-1/2	4	TM-7/16-20-H	17550	183.33
1/2-13	0.370	3/8	7/8	3-1/2	4	TM-1/2-13-H	17551	183.33
1/2-20	0.370	3/8	7/8	3-1/2	4	TM-1/2-20-H	17552	183.33
1/2-28	0.370	3/8	7/8	3-1/2	4	TM-1/2-28-H	17553	183.33
9/16-12	0.450	1/2	7/8	3-1/2	4	TM-9/16-12-H	17554	221.11
9/16-18	0.450	1/2	7/8	3-1/2	4	TM-9/16-18-H	17555	221.11
5/8-10	0.490	1/2	1-1/4	3-1/2	4	TM-5/8-10-H	17556	221.11
5/8-11	0.490	1/2	1-1/4	3-1/2	4	TM-5/8-11-H	17557	221.11
5/8-12	0.490	1/2	1-1/4	3-1/2	4	TM-5/8-12-H	17558	221.11
5/8-18	0.490	1/2	1-1/4	3-1/2	4	TM-5/8-18-H	17559	221.11
3/4-12	0.600	5/8	1-1/4	3-1/2	4	TM-3/4-12-H	17560	276.67
3/4-16	0.600	5/8	1-1/4	3-1/2	4	TM-3/4-16-H	17561	276.67
3/4-20	0.600	5/8	1-1/4	3-1/2	4	TM-3/4-20-H	17562	276.67
7/8-9	0.620	5/8	1-1/4	3-1/2	4	TM-7/8-9-H	17563	276.67
7/8-12	0.620	5/8	1-1/4	3-1/2	4	TM-7/8-12-H	17564	276.67
7/8-14	0.620	5/8	1-1/4	3-1/2	4	TM-7/8-14-H	17565	276.67
7/8-16	0.620	5/8	1-1/4	3-1/2	4	TM-7/8-16-H	17566	276.67
7/8-20	0.620	5/8	1-1/4	3-1/2	4	TM-7/8-20-H	17567	276.67
1-8	0.735	3/4	1-3/8	5	4	TM-1-8-H	17568	366.27
1-12	0.735	3/4	1-3/8	5	4	TM-1-12-H	17569	366.27
1-16	0.735	3/4	1-3/8	5	4	TM-1-16-H	17570	366.27
1-20	0.735	3/4	1-3/8	5	4	TM-1-20-H	17571	366.27



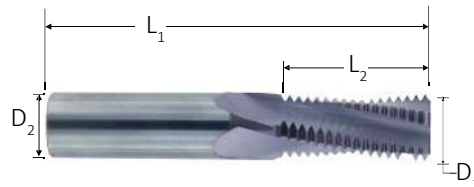
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- Threads large diameter holes faster and more accurately than conventional or high performance taps
- Reduces chatter

SERIES: TM-M__-H ✓ **Check Stock Online**

MIN THREAD DIA./PITCH	CUTTER DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	FLUTE	PART NAME	AITiN EDP	AITiN Price
m3-.5	2.2mm	3mm	6mm	57mm	2	TM-M3-.5-H	17585	114.44
m3.5-.6	2.4mm	3mm	6mm	57mm	2	TM-M3.5-.6-H	17586	114.44
m4-.7	2.9mm	3mm	6.5mm	57mm	2	TM-M4-.7-H	17587	114.44
m4.5-.75	3.1mm	4mm	6.5mm	63mm	2	TM-M4.5-.75-H	17588	132.78
m5-.8	3.7mm	6mm	8mm	63mm	3	TM-M5-.8-H	17589	144.33
m6-1	4.3mm	6mm	12mm	63mm	3	TM-M6-1-H	17590	144.33
m8-1	5.9mm	6mm	16mm	63mm	3	TM-M8-1-H	17591	155.33
m8-1.25	5.9mm	6mm	16mm	63mm	3	TM-M8-1.25-H	17592	155.33
m10-1.25	7.6mm	8mm	19mm	63mm	4	TM-M10-1.25-H	17593	199.18
m10-1.5	7.6mm	8mm	19mm	63mm	4	TM-M10-1.5-H	17594	199.18
m12-1.25	9.4mm	10mm	22mm	70mm	4	TM-M12-1.25-H	17595	206.00
m12-1.75	9.4mm	10mm	22mm	70mm	4	TM-M12-1.75-H	17596	206.00
m14-1.25	11.4mm	12mm	24mm	76mm	4	TM-M14-1.25-H	17597	231.67
m14-1.5	11.4mm	12mm	24mm	76mm	4	TM-M14-1.5-H	17598	231.67
m14-2	11.4mm	12mm	24mm	76mm	4	TM-M14-2-H	17599	231.67
m18-2.5	12.7mm	16mm	30mm	89mm	4	TM-M18-2.5-H	17600	274.71
m20-1.5	15.7mm	16mm	30mm	89mm	4	TM-M20-1.5-H	17601	297.58
m20-2	15.7mm	16mm	30mm	89mm	4	TM-M20-2-H	17602	297.58
m24-1.5	19.1mm	20mm	40mm	100mm	4	TM-M24-1.5-H	17603	366.27
m24-2	19.1mm	20mm	40mm	100mm	4	TM-M24-2-H	17604	366.27
m24-2.5	19.1mm	20mm	40mm	100mm	4	TM-M24-2.5-H	17605	366.27
m24-3	19.1mm	20mm	40mm	100mm	4	TM-M24-3-H	17606	366.27

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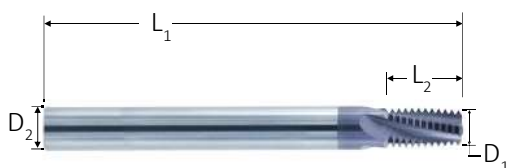


MIN THREAD DIA./PITCH	CUTTER DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	FLUTE	PART NAME	AITiN EDP	AITiN Price
1/16-27NPT	0.218	1/4	1/2	2-1/2	4	TM-1/16-27NPT-S	17572	141.09
1/8-27NPT	0.300	5/16	19/32	3	4	TM-1/8-27NPT-S	17573	176.53
1/4-18NPT	0.360	3/8	5/8	3-1/2	4	TM-1/4-18NPT-S	17574	194.29
3/8-18NPT	0.425	7/16	3/4	4	4	TM-3/8-18NPT-S	17575	215.44
1/2-14NPT	0.490	1/2	1	4	6	TM-1/2-14NPT-S	17576	264.89
1-11.5NPT	0.620	5/8	1-1/8	4	6	TM-1-11.5NPT-S	17577	450.19
2.5-8NPT	0.990	1	1-1/2	5	6	TM-2.5-8NPT-S	17578	450.19

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SERIES: TM-__NPT-H ✓ [Check Stock Online](#)

MIN THREAD DIA./PITCH	CUTTER DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	FLUTE	PART NAME	AITiN EDP	AITiN Price
1/16-27NPT	0.218	1/4	1/2	2-1/2	3	TM-1/16-27NPT-H	17579	141.09
1/8-27NPT	0.300	5/16	19/32	3	3	TM-1/8-27NPT-H	17580	176.53
1/4-18NPT	0.360	3/8	5/8	3-1/2	4	TM-1/4-18NPT-H	17581	194.29
3/8-18NPT	0.425	7/16	3/4	4	4	TM-3/8-18NPT-H	17582	215.44
1/2-14NPT	0.490	1/2	1	4	4	TM-1/2-14NPT-H	17583	264.89
1-11.5NPT	0.620	5/8	1-1/8	4	4	TM-1-11.5NPT-H	17584	450.19

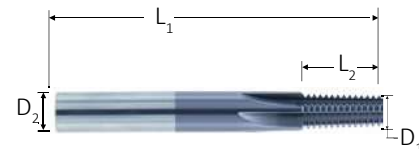
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MIN THREAD DIA./PITCH	CUTTER DIA D_1	SHK D_2	LOC L_2	OAL L_1	FLUTE	PART NAME	AITiN EDP	AITiN Price
1/8-27NPTF	0.300	5/16	19/32	3	4	TM-1/8-27NPTF-S	11607	176.53
1/4-18NPTF	0.360	3/8	5/8	3-1/2	4	TM-1/4-18NPTF-S	11609	194.29
1/2-14NPTF	0.490	1/2	1	4	6	TM-1/2-14NPTF-S	11611	264.89
1-11.5NPTF	0.620	5/8	1-1/8	4	6	TM-1-11.5NPTF-S	11613	450.19

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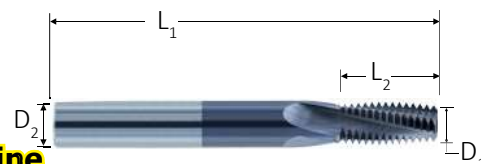


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SERIES: TM-__NPTF-H ✓ [Check Stock Online](#)

MIN THREAD DIA./PITCH	CUTTER DIA D_1	SHK D_2	LOC L_2	OAL L_1	FLUTE	PART NAME	AITiN EDP	AITiN Price
1/8-27NPTF	0.300	5/16	19/32	3	3	TM-1/8-27NPTF-H	11615	176.53
1/4-18NPTF	0.360	3/8	5/8	3-1/2	4	TM-1/4-18NPTF-H	11616	194.29
1/2-14NPTF	0.490	1/2	1	4	4	TM-1/2-14NPTF-H	11617	264.89
1-11.5NPTF	0.620	5/8	1-1/8	4	4	TM-1-11.5NPTF-H	11619	450.19

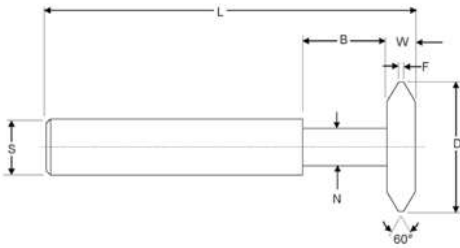
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- Designed for milling precision I.D. & O.D threads in all types of steels, non-ferrous metals, & exotic metals
- Single form thread can be used for a wide range of thread pitches

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CUTTER DIA (D)	SHK DIA (S)	OAL (L)	WIDTH (W)	FLAT (F)	NECK DIA (N)	NECK WIDTH (B)	FLUTE	MIN TPI	MAX PITCH	PART NAME	BRIGHT EDP	AITiN EDP	BRIGHT EDP	AITiN EDP
0.080	0.1875	2	0.026	0.001	0.040	0.250	3	40	64	TM-4-L1	15820	55820	44.12	46.92
0.080	0.1875	2	0.026	0.001	0.040	0.375	3	40	64	TM-4-L2	15824	55824	45.64	48.44
0.098	0.1875	2	0.032	0.001	0.050	0.375	3	32	64	TM-6-L1	15826	55826	42.33	45.13
0.098	0.1875	2	0.032	0.001	0.050	0.500	3	32	64	TM-6-L2	15828	55828	43.85	46.65
0.250	0.2500	2.500	0.062	.0020	0.150	1.000	4	16	48	TM-1/4	12311	52311	44.65	48.50
0.375	0.2500	2.593	0.093	.0020	0.220	0.600	4	12	32	TM-3/8	12313	52313	51.17	56.99
0.500	0.3125	2.625	0.125	.0035	0.295	0.600	5	11	32	TM-1/2	12309	52309	64.21	72.11
0.750	0.3750	2.656	0.156	.0045	----	----	6	8	16	TM-3/4	12312	52312	82.67	98.82
1.000	0.5000	3.187	0.187	.0090	----	----	7	6	12	TM-1	12308	52308	120.16	151.76

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