

CARBIDE



Being the best through innovation



V7 Mill STEEL

- 可对HRc40以下的钢进行重切削和无声切削
以不等的螺旋角设计

**Steels in Heavy and Silent Cutting Materials up to HRc40.
Designed as Unequal Leads.**

SELECTION GUIDE

项目	型号	规格	尺寸		页
			最小	最大	
ITEM	MODEL	DESCRIPTION	SIZE		PAGE
			MIN	MAX	
METRIC					
EMD42 EMD43		硬质合金, 4刃 多样螺旋角 短刃 CARBIDE, 4 FLUTE MULTIPLE HELIX SHORT LENGTH	D3.0	D20.0	730
EMD44 EMD45		硬质合金, 4刃 多样螺旋角 短刃 圆鼻铣刀 CARBIDE, 4 FLUTE MULTIPLE HELIX SHORT LENGTH CORNER RADIUS	D3.0	D20.0	731
EMD38 EMD39		硬质合金, 4刃 多样螺旋角 长刃 CARBIDE, 4 FLUTE MULTIPLE HELIX LONG LENGTH	D3.0	D25.0	732
EMD40 EMD41		硬质合金, 4刃 多样螺旋角 长刃 圆鼻铣刀 CARBIDE, 4 FLUTE MULTIPLE HELIX LONG LENGTH CORNER RADIUS	D3.0	D25.0	733
INCH					
EMD46 EMD47		硬质合金, 4刃 多样螺旋角 普通刃 CARBIDE, 4 FLUTE MULTIPLE HELIX REGULAR LENGTH	D1/8"	D1"	734
EMD48 EMD49		硬质合金, 4刃 多样螺旋角 普通刃 圆鼻铣刀 CARBIDE, 4 FLUTE MULTIPLE HELIX REGULAR LENGTH CORNER RADIUS	D1/8"	D1"	735
推荐的切削条件 RECOMMENDED CUTTING CONDITIONS					736

V7 Mill STEEL END MILLS

◎ : 优(Excellent) ○ : 良(Good)

碳钢	合金钢	预硬钢	硬化钢		高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍铬合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							

◎	◎	◎	○					○		○		
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◎	◎	◎	○					○		○		
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V7 Mill STEEL END MILLS

EMD42 SERIES

PLAIN SHANK

EMD43 SERIES

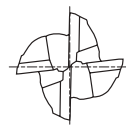
FLAT SHANK

硬质合金, 4刃 多样螺旋角 短刃

CARBIDE, 4 FLUTE MULTIPLE HELIX SHORT LENGTH

- ▶ 特殊的沟槽几何形状和多样的螺旋角可以消除振动
- ▶ 设计用于加工低碳钢, 铸铁, 工具钢和硬度在H Rc40以下的低硬化钢
- ▶ 卓越的工件的表面粗糙度
- ▶ 高速度, 较深切削和高材料切除率

- ▶ Special flute geometry and multiple helix eliminate vibrations.
- ▶ Designed to machine mild steels, cast irons, tool steels, and low hardened steels up to HRC 40.
- ▶ Excellent work piece finishes.
- ▶ Higher speeds, deeper cuts, and higher metal removal rates.



MG HM DIN 6527 4 PLAIN FLAT P.736

单位(Unit) : mm

型号		刃部直径	柄部直径	刃长	全长
EDP No.		Mill Diameter	Shank Diameter	Length of Cut	Overall Length
PLAIN	FLAT				
EMD42030	EMD43030	3.0	6	5	50
EMD42040	EMD43040	4.0	6	8	54
EMD42050	EMD43050	5.0	6	9	54
EMD42060	EMD43060	6.0	6	10	54
EMD42080	EMD43080	8.0	8	12	58
EMD42100	EMD43100	10.0	10	14	66
EMD42120	EMD43120	12.0	12	16	73
EMD42140	EMD43140	14.0	14	18	75
EMD42160	EMD43160	16.0	16	22	82
EMD42180	EMD43180	18.0	18	24	84
EMD42200	EMD43200	20.0	20	26	92

刃部公差 Mill Dia. Tolerance(mm)	柄部公差 Shank Dia. Tolerance
0~-0.03	h6

◎ : 优(Excellent) ○ : 良(Good)

碳钢	合金钢	预硬钢	硬化钢		高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍铬铁合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
~HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70							
◎	◎	◎	○					○		○		

CBN END MILLS

i-Xmill END MILLS

X5070 END MILLS

X-POWER END MILLS

JET-POWER END MILLS

V7 Mill INOX END MILLS

V7 Mill STEEL END MILLS

ALU-POWER END MILLS

CRX S

D-POWER END MILLS

K-2 CARBIDE END MILLS

GENERAL CARBIDE END MILLS

TANK-POWER END MILLS

GENERAL HSS END MILLS

MILLING CUTTERS

TECHNICAL DATA

YG V7 Mill STEEL END MILLS

EMD44 SERIES PLAIN SHANK
EMD45 SERIES FLAT SHANK

HSS

硬质合金, 4刃 多样螺旋角 短刃 圆鼻铣刀
CARBIDE, 4 FLUTE MULTIPLE HELIX SHORT LENGTH CORNER RADIUS

- ▶ 特殊的沟槽几何形状和多样的螺旋角可以消除振动
- ▶ 设计用于加工低碳钢, 铸铁, 工具钢和硬度在H Rc40以下的低硬化钢
- ▶ 卓越的工件的表面粗糙度
- ▶ 高速度, 较深切削和高材料切除率

- ▶ Special flute geometry and multiple helix eliminate vibrations.
- ▶ Designed to machine mild steels, cast irons, tool steels, and low hardened steels up to HRc 40.
- ▶ Excellent work piece finishes.
- ▶ Higher speeds, deeper cuts, and higher metal removal rates.



MG HM DIN 6527 4 PLAIN FLAT P.736

单位(Unit) : mm

型号 EDP No.		圆弧半径 Corner Radius R	刃部直径 Mill Diameter	柄部直径 Shank Diameter	刃长 Length of Cut	全长 Overall Length
PLAIN	FLAT	R				
EMD44030	EMD45030	RO.3	3.0	6	5	50
EMD44040	EMD45040	RO.3	4.0	6	8	54
EMD44050	EMD45050	RO.3	5.0	6	9	54
EMD44060	EMD45060	RO.4	6.0	6	10	54
EMD44080	EMD45080	RO.4	8.0	8	12	58
EMD44100	EMD45100	RO.4	10.0	10	14	66
EMD44120	EMD45120	RO.6	12.0	12	16	73
EMD44140	EMD45140	RO.6	14.0	14	18	75
EMD44160	EMD45160	RO.8	16.0	16	22	82
EMD44180	EMD45180	RO.8	18.0	18	24	84
EMD44200	EMD45200	RO.8	20.0	20	26	92

刃部公差 Mill Dia. Tolerance(mm)	柄部公差 Shank Dia. Tolerance
0~-0.03	h6

◎ : 优(Excellent) ○ : 良(Good)

碳钢 Carbon Steels	合金钢 Alloy Steels	预硬钢 Prehardened Steels	硬化钢 Hardened Steels		高硬钢 High Hardened Steels	铜 Copper	石墨 Graphite	铸铁 Cast Iron	铝 Aluminum	不锈钢 Stainless Steels	钛 Titanium	镍铁合金 Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
◎	◎	◎	○					○		○		

CBN END MILLS

i-Xmill END MILLS

X5070 END MILLS

X-POWER END MILLS

JET-POWER END MILLS

V7 Mill INOX END MILLS

V7 Mill STEEL END MILLS

ALU-POWER END MILLS

CRX S

D-POWER END MILLS

K-2 CARBIDE END MILLS

GENERAL CARBIDE END MILLS

TANK-POWER END MILLS

GENERAL HSS END MILLS

MILLING CUTTERS

TECHNICAL DATA



**V7 Mill STEEL
END MILLS**

EMD38 SERIES

PLAIN SHANK

EMD39 SERIES

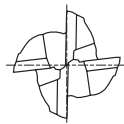
FLAT SHANK

硬质合金, 4刃 多样螺旋角 长刃

CARBIDE, 4 FLUTE MULTIPLE HELIX LONG LENGTH

- ▶ 特殊的沟槽几何形状和多样的螺旋角可以消除振动
- ▶ 设计用于加工低碳钢, 铸铁, 工具钢和硬度在H Rc40以下的低硬化钢
- ▶ 卓越的工件的表面粗糙度
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单位(Unit) : mm

型号 EDP No.		刃部直径 Mill Diameter	柄部直径 Shank Diameter	刃长 Length of Cut	全长 Overall Length
PLAIN	FLAT				
EMD38030	EMD39030	3.0	6	8	57
EMD38040	EMD39040	4.0	6	11	57
EMD38050	EMD39050	5.0	6	13	57
EMD38060	EMD39060	6.0	6	13	57
EMD38080	EMD39080	8.0	8	19	63
EMD38100	EMD39100	10.0	10	22	72
EMD38120	EMD39120	12.0	12	26	83
EMD38140	EMD39140	14.0	14	26	83
EMD38160	EMD39160	16.0	16	32	92
EMD38180	EMD39180	18.0	18	32	92
EMD38200	EMD39200	20.0	20	38	104
EMD38250	EMD39250	25.0	25	38	104

刃部公差 Mill Dia. Tolerance(mm)	柄部公差 Shank Dia. Tolerance
0~-0.03	h6

◎ : 优(Excellent) ○ : 良(Good)

碳钢 Carbon Steels	合金钢 Alloy Steels	预硬钢 Prehardened Steels	硬化钢 Hardened Steels		高硬钢 High Hardened Steels	铜 Copper	石墨 Graphite	铸铁 Cast Iron	铝 Aluminum	不锈钢 Stainless Steels	钛 Titanium	镍铬铁合金 Inconel
~HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70							
◎	◎	◎	○					○		○		

YG V7 Mill STEEL END MILLS

EMD40 SERIES PLAIN SHANK
EMD41 SERIES FLAT SHANK

HSS

硬质合金, 4刃 多样螺旋角 长刃 圆鼻铣刀
CARBIDE, 4 FLUTE MULTIPLE HELIX LONG LENGTH CORNER RADIUS

- ▶ 特殊的沟槽几何形状和多样的螺旋角可以消除振动
- ▶ 设计用于加工低碳钢, 铸铁, 工具钢和硬度在H Rc40以下的低硬化钢
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MG HM DIN 6527 4 PLAIN FLAT P.736

单位(Unit) : mm

型号 EDP No.		圆弧半径 Corner Radius	刃部直径 Mill Diameter	柄部直径 Shank Diameter	刃长 Length of Cut	全长 Overall Length
PLAIN	FLAT	R				
EMD40030	EMD41030	RO.3	3.0	6	8	57
EMD40040	EMD41040	RO.3	4.0	6	11	57
EMD40050	EMD41050	RO.3	5.0	6	13	57
EMD40060	EMD41060	RO.4	6.0	6	13	57
EMD40080	EMD41080	RO.4	8.0	8	19	63
EMD40100	EMD41100	RO.4	10.0	10	22	72
EMD40120	EMD41120	RO.6	12.0	12	26	83
EMD40140	EMD41140	RO.6	14.0	14	26	83
EMD40160	EMD41160	RO.8	16.0	16	32	92
EMD40180	EMD41180	RO.8	18.0	18	32	92
EMD40200	EMD41200	RO.8	20.0	20	38	104
EMD40250	EMD41250	RO.8	25.0	25	38	104

刃部公差 Mill Dia. Tolerance(mm)	柄部公差 Shank Dia. Tolerance
0~-0.03	h6

◎ : 优(Excellent) ○ : 良(Good)

碳钢	合金钢	预硬钢	硬化钢		高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍铁合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
◎	◎	◎	○					○		○		

CBN END MILLS

i-Xmill END MILLS

X5070 END MILLS

X-POWER END MILLS

JET-POWER END MILLS

V7 Mill INOX END MILLS

V7 Mill STEEL END MILLS

ALU-POWER END MILLS

CRX S

D-POWER END MILLS

K-2 CARBIDE END MILLS

GENERAL CARBIDE END MILLS

TANK-POWER END MILLS

GENERAL HSS END MILLS

MILLING CUTTERS

TECHNICAL DATA



V7 Mill STEEL END MILLS

EMD46 SERIES

PLAIN SHANK

EMD47 SERIES

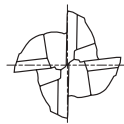
FLAT SHANK

硬质合金, 4刃 多样螺旋角 普通刃

CARBIDE, 4 FLUTE MULTIPLE HELIX REGULAR LENGTH

- ▶ 特殊的沟槽几何形状和多样的螺旋角可以消除振动
- ▶ 设计用于加工低碳钢, 铸铁, 工具钢和硬度在H Rc40以下的低硬化钢
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MG HM

4

PLAIN

FLAT



P.736

单位(Unit) : inch

型号		刃部直径	柄部直径	刃长	全长
EDP No.		Mill Diameter	Shank Diameter	Length of Cut	Overall Length
PLAIN	FLAT				
EMD46008	-	1/8	1/8	3/8	1-1/2
EMD46010	-	5/32	3/16	7/16	2
EMD46012	-	3/16	3/16	7/16	2
EMD46014	-	7/32	1/4	7/16	2-1/2
EMD46016	-	1/4	1/4	1/2	2-1/2
EMD46018	-	9/32	5/16	5/8	2-1/2
EMD46020	-	5/16	5/16	13/16	2-1/2
EMD46022	EMD47022	11/32	3/8	13/16	2-1/2
EMD46024	EMD47024	3/8	3/8	7/8	2-1/2
EMD46026	EMD47026	13/32	7/16	15/16	2-3/4
EMD46028	EMD47028	7/16	7/16	1	2-3/4
EMD46030	EMD47030	15/32	1/2	1	3
EMD46032	EMD47032	1/2	1/2	1	3
EMD46036	EMD47036	9/16	9/16	1-1/8	3-1/2
EMD46040	EMD47040	5/8	5/8	1-1/4	3-1/2
EMD46048	EMD47048	3/4	3/4	1-1/2	4
EMD46064	EMD47064	1	1	1-1/2	4

刃部公差 Mill Dia. Tolerance(mm)	柄部公差 Shank Dia. Tolerance
0 ~ -.0012	0 ~ -.0003

◎ : 优(Excellent) ○ : 良(Good)

碳钢 Carbon Steels	合金钢 Alloy Steels	预硬钢 Prehardened Steels	硬化钢 Hardened Steels		高硬钢 High Hardened Steels	铜 Copper	石墨 Graphite	铸铁 Cast Iron	铝 Aluminum	不锈钢 Stainless Steels	钛 Titanium	镍铁合金 Inconel
~HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70							
◎	◎	◎	○					○		○		



硬质合金, 4刃 多样螺旋角 普通刃 圆鼻铣刀
 CARBIDE, 4 FLUTE MULTIPLE HELIX REGULAR LENGTH CORNER RADIUS

- ▶ 特殊的沟槽几何形状和多样的螺旋角可以消除振动
- ▶ 设计用于加工低碳钢, 铸铁, 工具钢和硬度在H Rc40以下的低硬化钢
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单位(Unit) : inch

型号 EDP No.		圆弧半径 Corner Radius R	刃部直径 Mill Diameter	柄部直径 Shank Diameter	刃长 Length of Cut	全长 Overall Length
PLAIN	FLAT	R				
EMD48008	-	R.010	1/8	1/8	3/8	1-1/2
EMD48012	-	R.010	3/16	3/16	7/16	2
EMD48016	-	R.015	1/4	1/4	1/2	2-1/2
EMD48020	-	R.015	5/16	5/16	13/16	2-1/2
EMD48024	EMD49024	R.015	3/8	3/8	7/8	2-1/2
EMD48028	EMD49028	R.015	7/16	7/16	1	2-3/4
EMD48032	EMD49032	R.025	1/2	1/2	1	3
EMD48036	EMD49036	R.025	9/16	9/16	1-1/8	3-1/2
EMD48040	EMD49040	R.035	5/8	5/8	1-1/4	3-1/2
EMD48048	EMD49048	R.035	3/4	3/4	1-1/2	4
EMD48064	EMD49064	R.035	1	1	1-1/2	4

刃部公差 Mill Dia. Tolerance(mm)	柄部公差 Shank Dia. Tolerance
0 ~ -.0012	0 ~ -.0003

◎ : 优(Excellent) ○ : 良(Good)

碳钢 Carbon Steels	合金钢 Alloy Steels	预硬钢 Prehardened Steels	硬化钢 Hardened Steels		高硬钢 High Hardened Steels	铜 Copper	石墨 Graphite	铸铁 Cast Iron	铝 Aluminum	不锈钢 Stainless Steels	钛 Titanium	镍铁合金 Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
◎	◎	◎	○					○		○		

HSS

CBN
END MILLS

i-Xmill
END MILLS

X5070
END MILLS

X-POWER
END MILLS

JET-POWER
END MILLS

V7 Mill INOX
END MILLS

V7 Mill STEEL
END MILLS

ALU-POWER
END MILLS

CRX S

D-POWER
END MILLS

K-2 CARBIDE
END MILLS

GENERAL
CARBIDE
END MILLS

TANK-POWER
END MILLS

GENERAL
HSS
END MILLS

MILLING
CUTTERS

TECHNICAL
DATA



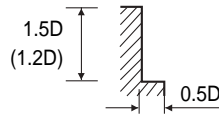
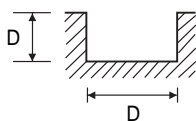
**V7 Mill STEEL
END MILLS**

推荐的切削条件
RECOMMENDED CUTTING CONDITIONS

硬质合金, 4刃
CARBIDE, 4 FLUTE

EMD42, EMD43, EMD44, EMD45, EMD38, EMD39, EMD40, EMD41, EMD46, EMD47, EMD48, EMD49 SERIES

材质	合金钢, 铸铁		合金钢, 铸铁	
MATERIAL	ALLOY STEELS CAST IRON		ALLOY STEELS CAST IRON	
HARDNESS	~ HB 300		HB 300 ~ HB 380	
STRENGTH	~ 1000N/mm ²		1000 ~ 1300N/mm ²	
DIAMETER	RPM	FEED	RPM	FEED
3.0	13475	275	9430	190
4.0	10105	330	7070	230
5.0	8085	370	5660	260
6.0	6735	435	4715	305
8.0	5050	555	3535	385
10.0	4455	690	3115	480
12.0	3710	695	2600	485
14.0	3180	620	2225	435
16.0	2785	590	1950	410
18.0	2475	585	1730	410
20.0	2225	580	1560	405
25.0	1780	450	1245	315



1.2D 轴向切削深度应该使用在刃径超过8mm的短刃系列。
1.2 x D Axial cutting depth should be applied for Short length series DIA over 8mm.

RPM = rev./min. (转速/分钟)
FEED = mm/min. (进给量)

CBN
END MILLS

i-Xmill
END MILLS

X5070
END MILLS

X-POWER
END MILLS

JET-POWER
END MILLS

V7 Mill INOX
END MILLS

V7 Mill STEEL
END MILLS

ALU-POWER
END MILLS

CRX S

D-POWER
END MILLS

K-2 CARBIDE
END MILLS

GENERAL
CARBIDE
END MILLS

TANK-POWER
END MILLS

GENERAL
HSS
END MILLS

MILLING
CUTTERS

TECHNICAL
DATA