

CARBIDE



Being the best through innovation



CARBIDE

- 普通用途,没有涂层,但可进行任何涂层

General Purposes, Non-coated, Any Coating Available

SELECTION GUIDE

项目	型号	规格	尺寸		页
			最小	最大	
ITEM	MODEL	DESCRIPTION	SIZE		PAGE
			MIN	MAX	
E5452		硬质合金, 2刃 超长刃 CARBIDE, 2 FLUTE EXTRA LONG LENGTH	D3.0	D20.0	884
E5553 E5410		硬质合金, 3刃 短刃 一次性 CARBIDE, 3 FLUTE SHORT LENGTH THROW AWAY	D0.5	D20.0	885
E5882		硬质合金, 3刃 35度螺旋角 圆鼻铣刀 CARBIDE, 3 FLUTE 35° HELIX CORNER RADIUS	D3.0	D20.0	887
E5423 E5415		硬质合金, 3刃 45度螺旋角 短刃 CARBIDE, 3 FLUTE 45° HELIX SHORT LENGTH	D3.0	D20.0	888
E5453		硬质合金, 4刃 超长刃 CARBIDE, 4 FLUTE EXTRA LONG LENGTH	D3.0	D20.0	889
E5455		硬质合金, 2刃 超长刃 球头 CARBIDE, 2 FLUTE EXTRA LONG LENGTH BALL NOSE	R1.5	R10.0	890
E5634 E5524		硬质合金, 4刃 短刃 球头 CARBIDE, 4 FLUTE SHORT LENGTH BALL NOSE	R1.0	R10.0	891
E5742 E5711		硬质合金, 3刃 长刃 粗加工 CARBIDE, 3 FLUTE LONG LENGTH ROUGHING	D6.0	D25.0	892
E5400		硬质合金, 钻铣刀 CARBIDE, DRILL MILLS	D3.0	D20.0	893
E5401		硬质合金, 2刃 标准 CARBIDE, 2 FLUTE STANDARD	D0.4	D20.0	894
E5402		硬质合金, 4刃 标准 CARBIDE, 4 FLUTE STANDARD	D1.5	D20.0	895
E5414		硬质合金, 2刃 球头 CARBIDE, 2 FLUTE BALL NOSE	R0.2	R12.5	896
推荐的切削条件 RECOMMENDED CUTTING CONDITIONS					897

GENERAL CARBIDE 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	铬镍铁合金
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							
◎	◎	◎				○		○	○	○		
◎	◎	◎				○		○	○	○		
○	◎	○				○		○	○	◎		
◎	◎	◎				○		○	○	○		
◎	◎	◎				○		○	○	○		
◎	◎	◎	○			○		○	○			
◎	◎	◎	○			○		○	○			
○	○							○	◎			
○	◎	◎						○	○	○		
◎	◎	◎				○		○	○	○		
◎	◎	◎				○		○	○	○		
○	◎	◎	○			○		○	○			

硬质合金, 2刃 超长刃
CARBIDE, 2 FLUTE EXTRA LONG LENGTH

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

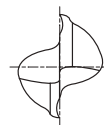
GENERAL CARBIDE END MILLS

TANK-POWER END MILLS

GENERAL HSS END MILLS

MILLING CUTTERS

TECHNICAL DATA



单位(Unit) : mm

型号 EDP No.	刃部直径 Mill Diameter h10	柄部直径 Shank Diameter h6	刃长 Length of Cut	全长 Overall Length
E5452030	3.0	3	30	75
E5452040	4.0	4	30	75
E5452050	5.0	5	40	100
E5452060	6.0	6	50	150
E5452080	8.0	8	50	150
E5452100	10.0	10	60	150
E5452120	12.0	12	75	150
E5452140	14.0	14	65	150
E5452160	16.0	16	65	150
E5452180	18.0	18	65	150
E5452200	20.0	20	65	150

▶ TiN, TiCN涂层 & TiAlN涂层可根据您的要求加工
TiN, TiCN-COATING & TiAlN-COATING are available on your request.

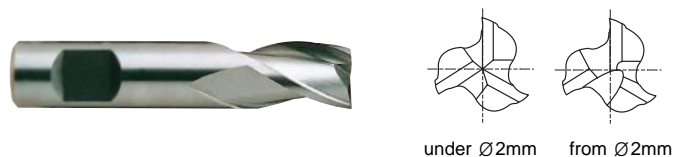
DIN 7160 & 7161规定的精度
Tolerances according to DIN 7160 & 7161

精度范围单位 / Tolerance range in μm					
公称直径单位 / Nominal-Diameter in mm					
	from 1 to 3	over 3 to 6	over 6 to 10	over 10 to 18	over 18 to 30
h10	0 - 40	0 - 48	0 - 58	0 - 70	0 - 84
h6	0 - 6	0 - 8	0 - 9	0 - 11	0 - 13

◎ : 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							
◎	◎	◎				○		○	○	○		

硬质合金, 3刃 短刃 一次性
CARBIDE, 3 FLUTE SHORT LENGTH THROW AWAY



MG HM YG STD N 3 30° DIN 6535HB P.898, 899

单位(Unit) : mm

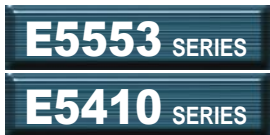
型号 EDP No.	系列号 ITEM No.	刃部直径 Mill Diameter h10	柄部直径 Shank Diameter h6	刃长 Length of Cut	全长 Overall Length
FLAT	FLAT				
E5553005	T3FSC-005KS	0.5	● 3	1.5	38
E5553006	T3FSC-006KS	0.6	● 3	1.5	38
E5553008	T3FSC-008KS	0.8	● 3	2	38
E5553010	T3FSC-010KS	1.0	● 3	2	38
E5553012	T3FSC-012KS	1.2	● 3	2	38
E5553015	T3FSC-015KS	1.5	● 3	2	38
E5553018	T3FSC-018KS	1.8	● 3	2	38
E5410020	T3FSQ-020AF	2.0	6	4	35
E5410025	T3FSQ-025AF	2.5	6	5	36
E5410030	T3FSQ-030AF	3.0	6	5	36
E5410035	T3FSQ-035AF	3.5	6	6	37
E5410040	T3FSQ-040AF	4.0	6	7	38
E5410045	T3FSQ-045AF	4.5	6	8	38
E5410050	T3FSQ-050AF	5.0	6	8	39
E5410055	T3FSQ-055AF	5.5	6	8	39
E5410957	T3FSQ-0575AF	5.75	6	8	39
E5410060	T3FSQ-060AF	6.0	6	8	39
E5410967	T3FSQ-0675BF	6.75	8	10	42
E5410070	T3FSQ-070BF	7.0	8	10	42
E5410977	T3FSQ-0775BF	7.75	8	10	42
E5410080	T3FSQ-080BF	8.0	8	11	43

● 直柄 / with plain shank

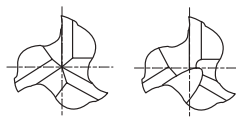
◎ : 优(Excellent) ○ : 良(Good)

碳钢	合金钢	预硬钢	硬化钢		高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
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



硬质合金, 3刃 短刃 一次性
CARBIDE, 3 FLUTE SHORT LENGTH THROW AWAY



under Ø2mm from Ø2mm



P.898, 899

型号 EDP No.	系列号 ITEM No.	刃部直径 Mill Diameter h10	柄部直径 Shank Diameter h6	刃长 Length of Cut	全长 Overall Length
E5410087	T3FSQ-087TF	8.7	10	11	48
E5410090	T3FSQ-090TF	9.0	10	11	48
E5410097	T3FSQ-097TF	9.7	10	11	48
E5410100	T3FSQ-100TF	10.0	10	13	50
E5410120	T3FSQ-120DF	12.0	12	15	55
E5410140	T3FSQ-140ZF	14.0	14	15	58
E5410160	T3FSQ-160EF	16.0	16	18	62
E5410180	T3FSQ-180ZF	18.0	18	20	70
E5410200	T3FSQ-200FF	20.0	20	22	75

单位(Unit) : mm

► TiN, TiCN涂层 & TiAlN涂层可根据您的要求加工
TiN, TiCN-COATING & TiAlN-COATING are available on your request.

DIN 7160 & 7161规定的精度
Tolerances according to DIN 7160 & 7161

	精度范围单位 / Tolerance range in μm				
	公称直径单位 / Nominal-Diameter in mm				
	from 1 to 3	over 3 to 6	over 6 to 10	over 10 to 18	over 18 to 30
h10	0 - 40	0 - 48	0 - 58	0 - 70	0 - 84
h6	0 - 6	0 - 8	0 - 9	0 - 11	0 - 13

SET 订单号 : E5SET410
SET ORDERING No.: E5SET410

- * 12PCS. SET
 - 每个尺寸两根
2PCS. OF EACH SIZE
2, 3, 4, 5, 6mm (T3FSC)
 - 每个尺寸一根
1PC. OF EACH SIZE
8, 10mm (T3FSC)
- * 1刃过中心
1 Tooth Over Center

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							
◎	◎	◎				○		○	○	○		

◎ : 优(Excellent) ○ : 良(Good)

硬质合金, 3刃 35度螺旋角 圆鼻铣刀

CARBIDE, 3 FLUTE 35° HELIX CORNER RADIUS

用于不锈钢
for STAINLESS STEELS



单位(Unit) : mm

型号 EDP No.	圆弧半径 Corner Radius R	刃部直径 Mill Diameter h10	柄部直径 Shank Diameter h6	刃长 Length of Cut	全长 Overall Length
E5882030	0.20~0.25	3.0	3	4	38
E5882040	0.20~0.25	4.0	6	5	54
E5882050	0.20~0.25	5.0	6	6	54
E5882060	0.40~0.50	6.0	6	7	54
E5882080	0.40~0.50	8.0	8	9	58
E5882100	0.40~0.50	10.0	10	11	66
E5882120	0.75~0.85	12.0	12	12	73
E5882160	0.75~0.85	16.0	16	16	82
E5882200	0.75~0.85	20.0	20	20	92

▶ TiN, TiCN涂层及TiAlN涂层可根据您的要求加工
TiN, TiCN-COATING & TiAlN-COATING are available on your request.

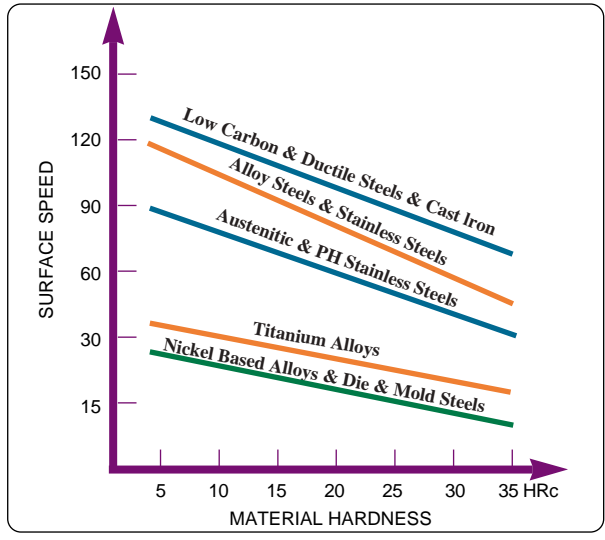
FEED CHART

MILL DIAMETER(mm)	3	5	6	8	10	12	16	20
FEED(mm)/TOOTH	0.008 ~ 0.015	0.010 ~ 0.050	0.025 ~ 0.065	0.040 ~ 0.075	0.040 ~ 0.090	0.050 ~ 0.100	0.065 ~ 0.130	0.075 ~ 0.150

DIN 7160 & 7161规定的精度

Tolerances according to DIN 7160 & 7161

精度范围单位 / Tolerance range in μ m					
公称直径单位 / Nominal-Diameter in mm					
	from 1 to 3	over 3 to 6	over 6 to 10	over 10 to 18	over 18 to 30
h10	0 -40	0 -48	0 -58	0 -70	0 -84
h6	0 -6	0 -8	0 -9	0 -11	0 -13



◎ : 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	镍钴铁合金
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



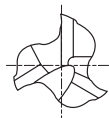
E5423 SERIES

PLAIN SHANK

E5415 SERIES

FLAT SHANK

硬质合金, 3刃 45度螺旋角 短刃
CARBIDE, 3 FLUTE 45° HELIX SHORT LENGTH



P.900, 901

单位(Unit) : mm

型号 EDP No.	系列号 ITEM No.	型号 EDP No.	系列号 ITEM No.	刃部直径 Mill Diameter h10	柄部直径 Shank Diameter h6	刃长 Length of Cut	全长 Overall Length
PLAIN	PLAIN	FLAT	FLAT				
E5423030	T3ERS-030A	E5415030	T3ERS-030AF	3.0	6	8	45
E5423040	T3ERS-040A	E5415040	T3ERS-040AF	4.0	6	11	45
E5423050	T3ERS-050A	E5415050	T3ERS-050AF	5.0	6	13	50
E5423060	T3ERS-060Z	E5415060	T3ERS-060ZF	6.0	6	13	50
E5423080	T3ERS-080Z	E5415080	T3ERS-080ZF	8.0	8	19	60
E5423100	T3ERS-100Z	E5415100	T3ERS-100ZF	10.0	10	22	70
E5423120	T3ERS-120Z	E5415120	T3ERS-120ZF	12.0	12	26	75
E5423140	T3ERS-140Z	E5415140	T3ERS-140ZF	14.0	14	26	75
E5423160	T3ERS-160Z	E5415160	T3ERS-160ZF	16.0	16	25	75
E5423200	T3ERS-200Z	E5415200	T3ERS-200ZF	20.0	20	32	100

▶ TiN, TiCN涂层 & TiAlN涂层可根据您的要求加工
TiN, TiCN-COATING & TiAlN-COATING are available on your request.

DIN 7160 & 7161规定的精度
Tolerances according to DIN 7160 & 7161

精度范围单位 / Tolerance range in μm					
公称直径单位 / Nominal-Diameter in mm					
	from 1 to 3	over 3 to 6	over 6 to 10	over 10 to 18	over 18 to 30
h10	0 - 40	0 - 48	0 - 58	0 - 70	0 - 84
h6	0 - 6	0 - 8	0 - 9	0 - 11	0 - 13

◎ : 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							
◎	◎	◎				○	○	○	○	○		



E5453 SERIES PLAIN SHANK

硬质合金, 4刃 超长刃
CARBIDE, 4 FLUTE EXTRA LONG LENGTH



MG HM YG STD N 4 30° DIN 6535HA P.902

单位(Unit) : mm

型号 EDP No.	刃部直径 Mill Diameter h10	柄部直径 Shank Diameter h6	刃长 Length of Cut	全长 Overall Length
E5453030	3.0	3	30	75
E5453040	4.0	4	30	75
E5453050	5.0	5	40	100
E5453060	6.0	6	50	150
E5453080	8.0	8	50	150
E5453100	10.0	10	60	150
E5453120	12.0	12	75	150
E5453140	14.0	14	65	150
E5453160	16.0	16	65	150
E5453180	18.0	18	65	150
E5453200	20.0	20	65	150

▶ TiN, TiCN涂层&TiAlN涂层可根据您的要求加工
TiN, TiCN-COATING & TiAlN-COATING are available on your request.

DIN 7160 & 7161规定的精度
Tolerances according to DIN 7160 & 7161

精度范围单位 / Tolerance range in μ m					
公称直径单位 / Nominal-Diameter in mm					
	from 1 to 3	over 3 to 6	over 6 to 10	over 10 to 18	over 18 to 30
h10	0 - 40	0 - 48	0 - 58	0 - 70	0 - 84
h6	0 - 6	0 - 8	0 - 9	0 - 11	0 - 13

◎ : 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							
◎	◎	◎				○		○	○	○		

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

硬质合金, 2刃 超长刃 球头

CARBIDE, 2 FLUTE EXTRA LONG LENGTH BALL NOSE

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



单位(Unit) : mm

型号 EDP No.	球头半径 Radius of Ball Nose R (±0.02)	刃部直径 Mill Diameter h10	柄部直径 Shank Diameter h6	刃长 Length of Cut	全长 Overall Length
E5455030	R1.5	3.0	3	30	75
E5455040	R2.0	4.0	4	30	75
E5455050	R2.5	5.0	5	40	100
E5455060	R3.0	6.0	6	50	150
E5455080	R4.0	8.0	8	50	150
E5455100	R5.0	10.0	10	60	150
E5455120	R6.0	12.0	12	75	150
E5455140	R7.0	14.0	14	75	150
E5455160	R8.0	16.0	16	75	150
E5455180	R9.0	18.0	18	75	150
E5455200	R10.0	20.0	20	75	150

► TiN, TiCN涂层 & TiAlN涂层可根据您的要求加工
TiN, TiCN-COATING & TiAlN-COATING are available on your request.

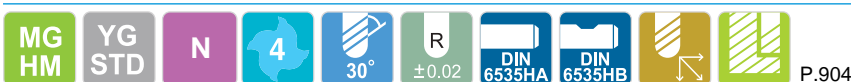
DIN 7160 & 7161规定的精度
Tolerances according to DIN 7160 & 7161

精度范围单位 / Tolerance range in μm					
公称直径单位 / Nominal-Diameter in mm					
	from 1 to 3	over 3 to 6	over 6 to 10	over 10 to 18	over 18 to 30
h10	0 - 40	0 - 48	0 - 58	0 - 70	0 - 84
h6	0 - 6	0 - 8	0 - 9	0 - 11	0 - 13

◎ : 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 短刃 球头
CARBIDE, 4 FLUTE SHORT LENGTH BALL NOSE



单位(Unit) : mm

型号 EDP No. PLAIN	系列号 ITEM No. PLAIN	型号 EDP No. FLAT	系列号 ITEM No. FLAT	球头半径 Radius of Ball Nose R (±0.02)	刃部直径 Mill Diameter h10	柄部直径 Shank Diameter h6	刃长 Length of Cut	全长 Overall Length
E5634020	T4GRB-020A	E5524020	T4GRB-020AF	R1.0	2.0	6	4	48
E5634030	T4GRB-030A	E5524030	T4GRB-030AF	R1.5	3.0	6	4	48
E5634040	T4GRB-040A	E5524040	T4GRB-040AF	R2.0	4.0	6	6	50
E5634050	T4GRB-050A	E5524050	T4GRB-050AF	R2.5	5.0	6	7	51
E5634060	T4GRB-060Z	E5524060	T4GRB-060ZF	R3.0	6.0	6	7	51
E5634080	T4GRB-080Z	E5524080	T4GRB-080ZF	R4.0	8.0	8	9	59
E5634100	T4GRB-100Z	E5524100	T4GRB-100ZF	R5.0	10.0	10	10	60
E5634120	T4GRB-120Z	E5524120	T4GRB-120ZF	R6.0	12.0	12	14	71
E5634140	T4GRB-140Z	E5524140	T4GRB-140ZF	R7.0	14.0	14	14	71
E5634160	T4GRB-160Z	E5524160	T4GRB-160ZF	R8.0	16.0	16	16	76
E5634180	T4GRB-180Z	E5524180	T4GRB-180ZF	R9.0	18.0	18	18	76
E5634200	T4GRB-200Z	E5524200	T4GRB-200ZF	R10.0	20.0	20	20	82

► TiN, TiCN涂层&TiAlN涂层可根据您的要求加工
 TiN, TiCN-COATING & TiAlN-COATING are available on your request.

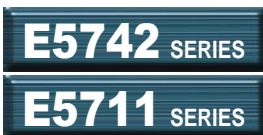
DIN 7160 & 7161规定的精度
Tolerances according to DIN 7160 & 7161

精度范围单位 / Tolerance range in μm					
公称直径单位 / Nominal-Diameter in mm					
	from 1 to 3	over 3 to 6	over 6 to 10	over 10 to 18	over 18 to 30
h10	0 - 40	0 - 48	0 - 58	0 - 70	0 - 84
h6	0 - 6	0 - 8	0 - 9	0 - 11	0 - 13

◎ : 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	镍钴铁合金 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



PLAIN SHANK

FLAT SHANK

硬质合金, 3刃 长刃 粗加工
CARBIDE, 3 FLUTE LONG LENGTH ROUGHING

铝加工用
for ALUMINUM



单位(Unit) : mm

型号 EDP No.		刃部直径 Mill Diameter h10	柄部直径 Shank Diameter h6	刃长 Length of Cut	全长 Overall Length
PLAIN	FLAT				
E5742060	E5711060	6.0	6	16	57
E5742070	E5711070	7.0	8	16	63
E5742080	E5711080	8.0	8	16	63
E5742090	E5711090	9.0	10	19	72
E5742100	E5711100	10.0	10	22	72
E5742120	E5711120	12.0	12	26	83
E5742140	E5711140	14.0	14	26	83
E5742160	E5711160	16.0	16	32	92
E5742180	E5711180	18.0	18	32	92
E5742200	E5711200	20.0	20	38	104
E5742250	E5711250	25.0	25	45	121

▶ TiN, TiCN涂层 & TiAlN涂层可根据您的要求加工
TiN, TiCN-COATING & TiAlN-COATING are available on your request.

DIN 7160 & 7161规定的精度
Tolerances according to DIN 7160 & 7161

精度范围单位 / Tolerance range in μm					
公称直径单位 / Nominal-Diameter in mm					
	from 1 to 3	over 3 to 6	over 6 to 10	over 10 to 18	over 18 to 30
h10	0 - 40	0 - 48	0 - 58	0 - 70	0 - 84
h6	0 - 6	0 - 8	0 - 9	0 - 11	0 - 13

◎ : 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	钴镍铁合金 Inconel
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
○	○							○	◎			

硬质合金, 钻铣刀
CARBIDE, 2 FLUTE DRILL MILLS

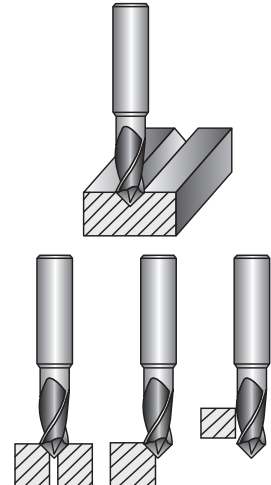
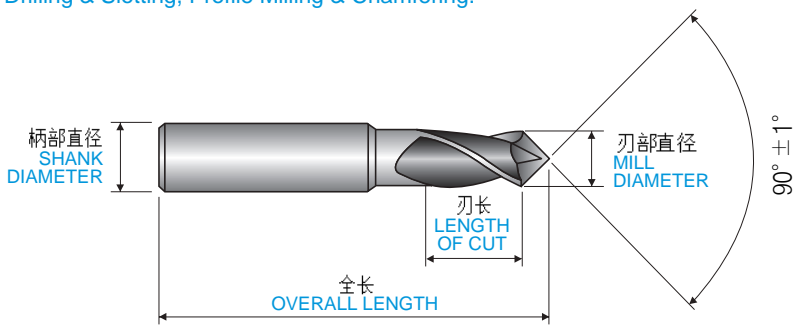

MG HM YG STD N 2 30° DIN 6535HA P.906, 907, 908

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
E5400030	3.0	4	6	50
E5400040	4.0	5	8	50
E5400050	5.0	6	10	50
E5400060	6.0	8	12	60
E5400080	8.0	10	16	70
E5400100	10.0	12	18	70
E5400120	12.0	12	20	70
E5540140	14.0	14	24	80
E5400160	16.0	16	26	80
E5400200	20.0	20	32	100

单位(Unit) : mm

▶ TiN, TiCN涂层&TiAlN涂层可根据您的要求加工
 TiN, TiCN-COATING & TiAlN-COATING are available on your request.

- 现在许多钻孔和铣削加工时, 不使用标准铣刀
 Performs many drilling and milling operations not presently done with the standard end mill.
- 在许多立式铣床加工中, 钻铣刀的作用是: 钻孔, 铣立槽, 数控铣削, 钻孔并铣立槽, 仿形铣和倒角。
 Among the many vertical milling machine operations the Drill Mill performs are : Drilling, Slotting, NC Milling Drilling & Slotting, Profile Milling & Chamfering.



刃部公差 Mill Dia. Tolerance(mm)	柄部公差 Shank Dia. Tolerance
Ø3 ~ Ø10=h9 Ø12 ~ Ø20=d9	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	镍钴铁合金 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



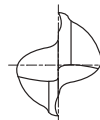
E5401 SERIES

PLAIN SHANK

硬质合金, 2刃 标准
CARBIDE, 2 FLUTE STANDARD

▶ 这种微粒硬质合金具有很好的耐磨性, 同时也具有普通硬质合金一样的韧性和刚性, 适于切削高硬度合金钢, 铸铁, 冷铸件, 可锻铸铁, 铬镍合金, 青铜, 黄铜, 硅含量大的铝和耐磨塑料。

▶ The raw materials in micro grain grade has excellent wear resistance as well as great toughness and rigidity which is the same as normal carbide. Designed for cutting hardened & high alloy steels, steel casting, chill casting, malleable cast iron, CrNi-steels, brass, copper, aluminum with a high percentage of silicon and abrasive plastics.



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
E5401004	0.4	3	1	38
E5401005	0.5	3	1.5	38
E5401006	0.6	3	1.5	38
E5401007	0.7	3	1.5	38
E5401008	0.8	3	2	38
E5401009	0.9	3	2	38
E5401010	1.0	4	3	40
E5401910	1.0	6	3	40
E5401014	1.4	4	5	40
E5401015	1.5	4	5	40
E5401915	1.5	6	5	40
E5401020	2.0	4	6	40
E5401920	2.0	6	6	40
E5401025	2.5	4	8	40
E5401925	2.5	6	8	40
E5401030	3.0	6	8	45
E5401035	3.5	6	10	45
E5401040	4.0	6	11	45
E5401045	4.5	6	11	45
E5401050	5.0	6	13	50
E5401055	5.5	6	13	50
E5401060	6.0	6	13	50
E5401065	6.5	8	16	60
E5401070	7.0	8	16	60
E5401080	8.0	8	19	60
E5401090	9.0	10	19	70
E5401100	10.0	10	22	70
E5401110	11.0	12	22	75
E5401120	12.0	12	26	75
E5401140	14.0	14	26	75
E5401160	16.0	16	25	75
E5401180	18.0	18	32	100
E5401200	20.0	20	32	100

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

▶ TiCN涂层&TiAlN涂层可根据您的要求加工
TiCN-COATING & TiAlN-COATING are available on your request.

◎ : 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 标准 CARBIDE, 4 FLUTE STANDARD

▶ 这种微粒硬质合金具有很好的耐磨性, 同时也具有普通硬质合金一样的韧性和刚性, 适于切削高硬质合金钢, 铸铁, 冷铸件, 可锻铸铁, 铬镍合金, 青铜, 黄铜, 硅含量大的铝和耐磨塑料。

▶ The raw materials in micro grain grade has excellent wear resistance as well as great toughness and rigidity which is the same as normal carbide. Designed for cutting hardened & high alloy steels, steel casting, chill casting, malleable cast iron, CrNi-steels, brass, copper, aluminum with a high percentage of silicon and abrasive plastics.



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
E5402015	1.5	4	5	40
E5402020	2.0	4	6	40
E5402025	2.5	4	8	40
E5402030	3.0	6	8	45
E5402035	3.5	6	10	45
E5402040	4.0	6	11	45
E5402045	4.5	6	11	45
E5402050	5.0	6	13	50
E5402055	5.5	6	13	50
E5402060	6.0	6	13	50
E5402070	7.0	8	16	60
E5402080	8.0	8	19	60
E5402090	9.0	10	19	70
E5402100	10.0	10	22	70
E5402110	11.0	12	22	75
E5402120	12.0	12	26	75
E5402140	14.0	14	26	75
E5402160	16.0	16	25	75
E5402180	18.0	18	32	100
E5402200	20.0	20	32	100

▶ TiCN涂层 & TiAlN涂层可根据您的要求加工
TiCN-COATING & TiAlN-COATING are available on your request.

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

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	铬镍铁合金 Inconel
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
◎	◎	◎				○		○	○	○		

**硬质合金, 2刃 球头
CARBIDE, 2 FLUTE BALL NOSE**

▶ 这种微粒硬质合金具有很好的耐磨性, 同时也具有普通硬质合金一样的韧性和刚性, 适于切削高硬质合金钢, 铸铁, 冷铸件, 可锻铸铁, 铬镍合金, 青铜, 黄铜, 硅含量大的铝和耐磨塑料。

▶ The raw materials in micro grain grade has excellent wear resistance as well as great toughness and rigidity which is the same as normal carbide. Designed for cutting hardened & high alloy steels, steel casting, chill casting, malleable cast iron, CrNi-steels, brass, copper, aluminum with a high percentage of silicon and abrasive plastics.



MG HM 2 30° ±0.02 PLAIN P.903

单位(Unit) : mm

型号 EDP No.	球头半径 Radius of Ball Nose R (±0.02)	刃部直径 Mill Diameter	柄部直径 Shank Diameter	刃长 Length of Cut	全长 Overall Length
E5414004	RO.2	0.4	3	0.8	50
E5414006	RO.3	0.6	3	1.2	50
E5414008	RO.4	0.8	3	1.6	50
E5414901	RO.5	1.0	6	3	50
E5414902	R1.0	2.0	6	6	50
E5414030	R1.5	3.0	6	8	60
E5414040	R2.0	4.0	6	11	70
E5414050	R2.5	5.0	6	13	80
E5414060	R3.0	6.0	6	13	80
E5414070	R3.5	7.0	8	16	90
E5414080	R4.0	8.0	8	19	90
E5414090	R4.5	9.0	10	19	100
E5414100	R5.0	10.0	10	22	100
E5414120	R6.0	12.0	12	26	110
E5414140	R7.0	14.0	14	26	120
E5414160	R8.0	16.0	16	30	120
E5414200	R10.0	20.0	20	38	130
E5414250	R12.5	25.0	25	50	150

▶ TiCN涂层 & TiAlN涂层可根据您的要求加工
TiCN-COATING & TiAlN-COATING are available on your request.

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							
○	◎	◎	○			○		○	○			



推荐的切削条件
RECOMMENDED CUTTING CONDITIONS

HSS

硬质合金, 2刃 - 开槽
CARBIDE, 2 FLUTE - SLOTTING

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

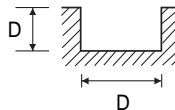
GENERAL
HSS
END MILLS

MILLING
CUTTERS

TECHNICAL
DATA

E5452, E5401 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		不锈钢, 钛合金		铸铁		铝合金		铜黄铜 非铁制金属	
MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		STAINLESS STEELS TITANIUM ALLOYS		CAST IRON		ALUMINUM ALLOYS		COPPER. BRASS NON-FERROUS METALS	
HARDNESS	~ HRc 20		HRc 20 ~ HRc 30		HRc 30 ~ HRc 40									
STRENGTH	500 ~ 800N/mm ²		800 ~ 1000N/mm ²		1000 ~ 1300N/mm ²									
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
2.0	5500	80	4800	70	4000	55	8000	65	6500	150	16000	320	12000	240
3.0	3700	90	3200	80	2600	60	5300	65	4200	150	11000	320	8000	240
4.0	2800	90	2400	80	2000	60	4000	65	3200	150	8000	320	6000	240
5.0	2200	90	1900	80	1600	60	3200	65	2500	150	6400	320	4800	240
6.0	1800	90	1600	80	1300	60	2600	65	2100	180	5300	340	4000	260
8.0	1400	90	1200	80	1000	60	2000	65	1600	190	4000	340	3000	260
10.0	1100	90	950	80	800	60	1600	65	1300	200	3200	340	2400	260
12.0	900	90	800	80	660	60	1300	65	1000	210	2600	340	2000	260
14.0	800	90	700	80	570	60	1100	65	900	220	2300	340	1700	260
16.0	700	100	600	85	500	75	1000	75	800	225	2000	340	1500	260
20.0	550	100	480	85	400	75	800	80	640	240	1600	340	1200	260



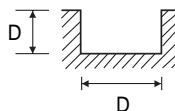
* 对长和超长型进给应减少约50%
The Feed, in long & extra long types, should be reduced by around 50%.

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

硬质合金, 2刃 TiAlN 涂层 - 开槽
CARBIDE, 2 FLUTE TiAlN-COATED - SLOTTING

E5452, E5401 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		不锈钢, 钛合金		铸铁		铝合金		铜黄铜 非铁制金属	
MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		STAINLESS STEELS TITANIUM ALLOYS		CAST IRON		ALUMINUM ALLOYS		COPPER. BRASS NON-FERROUS METALS	
HARDNESS	~ HRc 20		HRc 20 ~ HRc 30		HRc 30 ~ HRc 40									
STRENGTH	500 ~ 800N/mm ²		800 ~ 1000N/mm ²		1000 ~ 1300N/mm ²									
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
2.0	7700	110	6720	100	5600	75	11200	90	9100	210	22400	450	16800	335
3.0	5180	125	4480	110	3640	85	7420	90	5880	210	15400	450	11200	335
4.0	3920	125	3360	110	2800	85	5600	90	4480	210	11200	450	8400	335
5.0	3080	125	2660	110	2240	85	4480	90	3500	210	8960	450	6720	335
6.0	2520	125	2240	110	1820	85	3640	90	2940	250	7420	475	5600	365
8.0	1960	125	1680	110	1400	85	2800	90	2240	265	5600	475	4200	365
10.0	1540	125	1330	110	1120	85	2240	90	1820	280	4480	475	3360	365
12.0	1260	125	1120	110	924	85	1820	90	1400	295	3640	475	2800	365
14.0	1120	125	980	110	798	85	1540	90	1260	310	3220	475	2380	365
16.0	980	140	840	120	700	105	1400	105	1120	315	2800	475	2100	365
20.0	770	140	672	120	560	105	1120	110	900	335	2240	475	1680	365



* 对长和超长型进给应减少约50%
The Feed, in long & extra long types, should be reduced by around 50%.

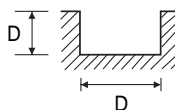
RPM = rev./min. (转速/分钟)
FEED = mm/min. (进给量)



硬质合金, 3刃 - 开槽
CARBIDE, 3 FLUTE - SLOTTING

E5553, E5410 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		不锈钢, 钛合金		铸铁		铝合金		铜, 黄铜, 非铁制金属	
MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		STAINLESS STEELS TITANIUM ALLOYS		CAST IRON		ALUMINUM ALLOYS		COPPER, BRASS NON-FERROUS METALS	
HARDNESS	~ HRc 20		HRc 20 ~ HRc 30		HRc 30 ~ HRc 40									
STRENGTH	500 ~ 800N/mm ²		800 ~ 1000N/mm ²		1000 ~ 1300N/mm ²									
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
2.0	5500	70	4800	60	4000	50	8000	55	6500	140	16000	290	12000	220
3.0	3700	80	3200	75	2600	55	5300	55	4200	140	11000	300	8000	220
4.0	2800	80	2400	75	2000	55	4000	55	3200	130	8000	290	6000	220
5.0	2200	80	1900	70	1600	55	3200	55	2500	135	6400	290	4800	220
6.0	1800	80	1600	70	1300	55	2600	60	2100	160	5300	305	4000	240
8.0	1400	80	1200	70	1000	55	2000	60	1600	170	4000	310	3000	230
10.0	1100	80	950	70	800	55	1600	60	1300	180	3200	305	2400	230
12.0	900	80	800	70	660	55	1300	60	1000	190	2600	300	2000	230
14.0	800	80	700	70	570	55	1100	60	900	200	2300	300	1700	230
16.0	700	90	600	75	500	65	1000	70	800	200	2000	300	1500	230
20.0	550	90	480	75	400	65	800	70	640	215	1600	300	1200	230



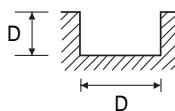
* 对长和超长型进给应减少约50%
The Feed, in long & extra long types, should be reduced by around 50%.

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

硬质合金, 3刃 TiAlN 涂层 - 开槽
CARBIDE, 3 FLUTE TiAlN-COATED - SLOTTING

E5553, E5410 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		不锈钢, 钛合金		铸铁		铝合金		铜, 黄铜, 非铁制金属	
MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		STAINLESS STEELS TITANIUM ALLOYS		CAST IRON		ALUMINUM ALLOYS		COPPER, BRASS NON-FERROUS METALS	
HARDNESS	~ HRc 20		HRc 20 ~ HRc 30		HRc 30 ~ HRc 40									
STRENGTH	500 ~ 800N/mm ²		800 ~ 1000N/mm ²		1000 ~ 1300N/mm ²									
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
2.0	7700	100	6720	85	5600	70	11200	75	9100	195	22400	405	16800	310
3.0	5180	110	4480	105	3640	75	7420	75	5880	195	15400	420	11200	310
4.0	3920	110	3360	105	2800	75	5600	75	4480	180	11200	405	8400	310
5.0	3080	110	2660	100	2240	75	4480	75	3500	190	8960	405	6720	310
6.0	2520	110	2240	100	1820	75	3640	85	2940	225	7420	425	5600	335
8.0	1960	110	1680	100	1400	75	2800	85	2240	240	5600	435	4200	320
10.0	1540	110	1330	100	1120	75	2240	85	1820	250	4480	425	3360	320
12.0	1260	110	1120	100	920	75	1820	85	1400	265	3640	420	2800	320
14.0	1120	110	980	100	800	75	1540	85	1260	280	3220	420	2380	320
16.0	980	125	840	105	700	90	1400	100	1120	280	2800	420	2100	320
20.0	770	125	670	105	560	90	1120	100	900	300	2240	420	1680	320



* 对长和超长型进给应减少约50%
The Feed, in long & extra long types, should be reduced by around 50%.

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

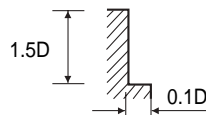
硬质合金, 3刃 - 侧铣
 CARBIDE, 3 FLUTE - SIDE CUTTING
CBN
END MILLSi-Xmill
END MILLSX5070
END MILLSX-POWER
END MILLSJET-POWER
END MILLSV7 Mill INOX
END MILLSV7 Mill STEEL
END MILLSALU-POWER
END MILLS

CRX S

D-POWER
END MILLSK-2 CARBIDE
END MILLSGENERAL
CARBIDE
END MILLSTANK-POWER
END MILLSGENERAL
HSS
END MILLSMILLING
CUTTERSTECHNICAL
DATA

E5553, E5410 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		不锈钢, 钛合金		铸铁		铝合金		铜黄铜 非铁制金属	
MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		STAINLESS STEELS TITANIUM ALLOYS		CAST IRON		ALUMINUM ALLOYS		COPPER, BRASS NON-FERROUS METALS	
HARDNESS	~ HRc 20		HRc 20 ~ HRc 30		HRc 30 ~ HRc 40									
STRENGTH	500 ~ 800N/mm ²		800 ~ 1000N/mm ²		1000 ~ 1300N/mm ²									
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
2.0	5500	180	4800	160	4000	120	8000	140	6500	330	16000	720	12000	540
3.0	3700	200	3200	170	2600	130	5300	140	4200	330	11000	690	8000	530
4.0	2800	200	2400	180	2000	130	4000	140	3200	340	8000	720	6000	540
5.0	2200	200	1900	180	1600	130	3200	140	2500	340	6400	710	4800	530
6.0	1800	200	1600	180	1300	130	2600	150	2100	400	5300	760	4000	580
8.0	1400	200	1200	180	1000	130	2000	150	1600	430	4000	760	3000	580
10.0	1100	200	950	180	800	130	1600	150	1300	450	3200	760	2400	580
12.0	900	200	800	180	660	130	1300	150	1000	470	2600	760	2000	580
14.0	800	200	700	180	570	130	1100	150	900	490	2300	760	1700	580
16.0	700	220	600	190	500	160	1000	170	800	510	2000	760	1500	580
20.0	550	220	480	190	400	160	800	180	640	540	1600	760	1200	580



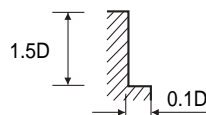
* 对长和超长型进给应减少约50%
 The Feed, in long & extra long types, should be reduced by around 50%.

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

 硬质合金, 3刃 TiAlN 涂层 - 侧铣
 CARBIDE, 3 FLUTE TiAlN-COATED - SIDE CUTTING

E5553, E5410 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		不锈钢, 钛合金		铸铁		铝合金		铜黄铜 非铁制金属	
MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		STAINLESS STEELS TITANIUM ALLOYS		CAST IRON		ALUMINUM ALLOYS		COPPER, BRASS NON-FERROUS METALS	
HARDNESS	~ HRc 20		HRc 20 ~ HRc 30		HRc 30 ~ HRc 40									
STRENGTH	500 ~ 800N/mm ²		800 ~ 1000N/mm ²		1000 ~ 1300N/mm ²									
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
2.0	7700	250	6720	225	5600	170	11200	195	9100	460	22400	1010	16800	755
3.0	5180	280	4480	240	3640	180	7420	195	5880	460	15400	965	11200	740
4.0	3920	280	3360	250	2800	180	5600	195	4480	475	11200	1010	8400	755
5.0	3080	280	2660	250	2240	180	4480	195	3500	475	8960	995	6720	740
6.0	2520	280	2240	250	1820	180	3640	210	2940	560	7420	1065	5600	810
8.0	1960	280	1680	250	1400	180	2800	210	2240	600	5600	1065	4200	810
10.0	1540	280	1330	250	1120	180	2240	210	1820	630	4480	1065	3360	810
12.0	1260	280	1120	250	920	180	1820	210	1400	660	3640	1065	2800	810
14.0	1120	280	980	250	800	180	1540	210	1260	685	3220	1065	2380	810
16.0	980	310	840	265	700	225	1400	240	1120	715	2800	1065	2100	810
20.0	770	310	670	265	560	225	1120	250	900	755	2240	1065	1680	810



* 对长和超长型进给应减少约50%
 The Feed, in long & extra long types, should be reduced by around 50%.

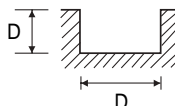
RPM = rev./min. (转速/分钟)
 FEED = mm/min. (进给量)



硬质合金, 3刃 45度螺旋角 - 开槽
CARBIDE, 3 FLUTE 45° HELIX - SLOTTING

E5423, E5415 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		铸铁		铝合金		铜, 黄铜, 非铁制金属	
MATERIAL	CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		CAST IRON		ALUMINUM ALLOYS		COPPER, BRASS, NON-FERROUS METALS	
HARDNESS	~ HRC30		HRC30 ~ HRC40							
STRENGTH	~ 1000N/mm ²		1000 ~ 1300N/mm ²							
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
6.0	1600	95	1300	65	2100	220	5300	410	4000	310
8.0	1200	95	1000	65	1600	230	4000	410	3000	310
10.0	950	95	800	65	1300	240	3200	410	2400	310
12.0	800	95	660	65	1000	250	2600	410	2000	310
14.0	700	95	570	65	900	260	2300	410	1700	310
16.0	600	100	500	80	800	270	2000	410	1500	310
20.0	480	100	400	80	640	290	1600	410	1200	310



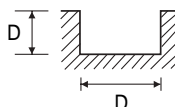
* 对长和超长型进给应减少约50%
The Feed, in long & extra long types, should be reduced by around 50%.

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

硬质合金, 3刃 45度螺旋角 TiAlN 涂层 - 开槽
CARBIDE, 3 FLUTE 45° HELIX TiAlN-COATED - SLOTTING

E5423, E5415 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		铸铁		铝合金		铜, 黄铜, 非铁制金属	
MATERIAL	CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		CAST IRON		ALUMINUM ALLOYS		COPPER, BRASS, NON-FERROUS METALS	
HARDNESS	~ HRC30		HRC30 ~ HRC40							
STRENGTH	~ 1000N/mm ²		1000 ~ 1300N/mm ²							
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
6.0	2240	135	1820	90	2940	310	7420	575	5600	435
8.0	1680	135	1400	90	2240	320	5600	575	4200	435
10.0	1330	135	1120	90	1820	335	4480	575	3360	435
12.0	1120	135	925	90	1400	350	3640	575	2800	435
14.0	980	135	800	90	1260	365	3220	575	2380	435
16.0	840	140	700	110	1120	380	2800	575	2100	435
20.0	670	140	560	110	895	405	2240	575	1680	435



* 对长和超长型进给应减少约50%
The Feed, in long & extra long types, should be reduced by around 50%.

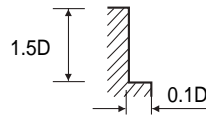
RPM = rev./min. (转速/分钟)
FEED = mm/min. (进给量)

硬质合金, 3刃 45度螺旋角 - 侧铣
CARBIDE, 3 FLUTE 45° HELIX - SIDE CUTTING
CBN
END MILLSi-Xmill
END MILLSX5070
END MILLSX-POWER
END MILLSJET-POWER
END MILLSV7 Mill INOX
END MILLSV7 Mill STEEL
END MILLSALU-POWER
END MILLS

CRX S

D-POWER
END MILLSK-2 CARBIDE
END MILLSGENERAL
CARBIDE
END MILLSTANK-POWER
END MILLSGENERAL
HSS
END MILLSMILLING
CUTTERSTECHNICAL
DATA
E5423, E5415 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		铸铁		铝合金		铜, 黄铜, 非铁制金属	
MATERIAL	CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		CAST IRON		ALUMINUM ALLOYS		COPPER, BRASS NON-FERROUS METALS	
HARDNESS	~ HRC30		HRC30 ~ HRC40							
STRENGTH	~ 1000N/mm ²		1000 ~ 1300N/mm ²							
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
6.0	1600	190	1300	130	2100	440	5300	820	4000	620
8.0	1200	190	1000	130	1600	460	4000	820	3000	620
10.0	950	190	800	130	1300	480	3200	820	2400	620
12.0	800	190	660	130	1000	500	2600	820	2000	620
14.0	700	190	570	130	900	520	2300	820	1700	620
16.0	600	200	500	160	800	540	2000	820	1500	620
20.0	480	200	400	160	640	580	1600	820	1200	620

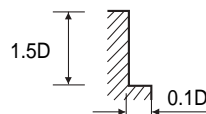


* 对长和超长型进给应减少约50%
 The Feed, in long & extra long types, should be reduced by around 50%.

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

硬质合金, 3刃 45度螺旋角 TiAlN 涂层 - 侧铣
CARBIDE, 3 FLUTE 45° HELIX TiAlN-COATED - SIDE CUTTING
E5423, E5415 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		铸铁		铝合金		铜, 黄铜, 非铁制金属	
MATERIAL	CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		CAST IRON		ALUMINUM ALLOYS		COPPER, BRASS NON-FERROUS METALS	
HARDNESS	~ HRC30		HRC30 ~ HRC40							
STRENGTH	~ 1000N/mm ²		1000 ~ 1300N/mm ²							
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
6.0	2240	265	1820	180	2940	615	7420	1150	5600	870
8.0	1680	265	1400	180	2240	645	5600	1150	4200	870
10.0	1330	265	1120	180	1820	670	4480	1150	3360	870
12.0	1120	265	925	180	1400	700	3640	1150	2800	870
14.0	980	265	800	180	1260	730	3220	1150	2380	870
16.0	840	280	700	225	1120	755	2800	1150	2100	870
20.0	670	280	560	225	895	810	2240	1150	1680	870



* 对长和超长型进给应减少约50%
 The Feed, in long & extra long types, should be reduced by around 50%.

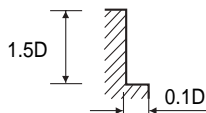
RPM = rev./min. (转速/分钟)
 FEED = mm/min. (进给量)



硬质合金, 4刃 - 侧铣
CARBIDE, 4 FLUTE - SIDE CUTTING

E5453, E5402 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		不锈钢, 钛合金		铸铁		铝合金		铜, 黄铜, 非铁制金属	
MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		STAINLESS STEELS TITANIUM ALLOYS		CAST IRON		ALUMINUM ALLOYS		COPPER, BRASS NON-FERROUS METALS	
HARDNESS	~ HRc 20		HRc 20 ~ HRc 30		HRc 30 ~ HRc 40									
STRENGTH	500 ~ 800N/mm ²		800 ~ 1000N/mm ²		1000 ~ 1300N/mm ²									
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
2.0	5500	240	4800	210	4000	160	8000	200	6500	450	16000	960	12000	720
3.0	3700	270	3200	240	2600	180	5300	200	4200	450	11000	960	8000	720
4.0	2800	270	2400	240	2000	180	4000	200	3200	450	8000	960	6000	720
5.0	2200	270	1900	240	1600	180	3200	200	2500	450	6400	960	4800	720
6.0	1800	270	1600	240	1300	180	2600	200	2100	540	5300	1020	4000	780
8.0	1400	270	1200	240	1000	180	2000	200	1600	570	4000	1020	3000	780
10.0	1100	270	950	240	800	180	1600	200	1300	600	3200	1020	2400	780
12.0	900	270	800	240	660	180	1300	200	1000	630	2600	1020	2000	780
14.0	800	270	700	240	570	180	1100	200	900	660	2300	1020	1700	780
16.0	700	300	600	260	500	220	1000	225	800	680	2000	1020	1500	780
20.0	550	300	480	260	400	220	800	240	640	720	1600	1020	1200	780



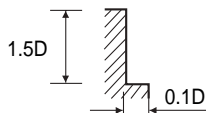
* 对长和超长型进给应减少约50%
The Feed, in long & extra long types, should be reduced by around 50%.

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

硬质合金, 4刃 TiAlN 涂层 - 侧铣
CARBIDE, 4 FLUTE TiAlN-COATED - SIDE CUTTING

E5453, E5402 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		不锈钢, 钛合金		铸铁		铝合金		铜, 黄铜, 非铁制金属	
MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		STAINLESS STEELS TITANIUM ALLOYS		CAST IRON		ALUMINUM ALLOYS		COPPER, BRASS NON-FERROUS METALS	
HARDNESS	~ HRc 20		HRc 20 ~ HRc 30		HRc 30 ~ HRc 40									
STRENGTH	500 ~ 800N/mm ²		800 ~ 1000N/mm ²		1000 ~ 1300N/mm ²									
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
2.0	7700	335	6720	295	5600	225	11200	280	9100	630	22400	1345	16800	1010
3.0	5180	380	4480	335	3640	250	7420	280	5880	630	15400	1345	11200	1010
4.0	3920	380	3360	335	2800	250	5600	280	4480	630	11200	1345	8400	1010
5.0	3080	380	2660	335	2240	250	4480	280	3500	630	8960	1345	6720	1010
6.0	2520	380	2240	335	1820	250	3640	280	2940	755	7420	1430	5600	1090
8.0	1960	380	1680	335	1400	250	2800	280	2240	800	5600	1430	4200	1090
10.0	1540	380	1330	335	1120	250	2240	280	1820	840	4480	1430	3360	1090
12.0	1260	380	1120	335	920	250	1820	280	1400	880	3640	1430	2800	1090
14.0	1120	380	980	335	800	250	1540	280	1260	925	3220	1430	2380	1090
16.0	980	420	840	365	700	310	1400	315	1120	950	2800	1430	2100	1090
20.0	770	420	670	365	560	310	1120	335	900	1010	2240	1430	1680	1090



* 对长和超长型进给应减少约50%
The Feed, in long & extra long types, should be reduced by around 50%.

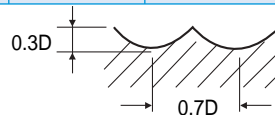
RPM = rev./min. (转速/分钟)
FEED = mm/min. (进给量)

硬质合金, 2刃 球头
CARBIDE, 2 FLUTE BALL NOSE
CBN
END MILLSi-Xmill
END MILLSX5070
END MILLSX-POWER
END MILLSJET-POWER
END MILLSV7 Mill INOX
END MILLSV7 Mill STEEL
END MILLSALU-POWER
END MILLS

CRX S

D-POWER
END MILLSK-2 CARBIDE
END MILLSGENERAL
CARBIDE
END MILLSTANK-POWER
END MILLSGENERAL
HSS
END MILLSMILLING
CUTTERSTECHNICAL
DATA
E5455, E5414 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		铸铁		铝合金	
MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		CAST IRON		ALUMINUM ALLOYS	
HARDNESS	~ HRC30		HRC30 ~ HRC40					
STRENGTH	~ 1000N/mm ²		1000 ~ 1300N/mm ²					
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
R1.0 × 2.0	5200	90	4400	45	7300	150	21500	280
R1.5 × 3.0	3500	100	2900	45	4900	160	14300	280
R2.0 × 4.0	2600	100	2100	45	3600	200	10900	280
R2.5 × 5.0	2100	105	1700	45	2900	230	8800	330
R3.0 × 6.0	1700	100	1430	45	2400	250	7260	330
R4.0 × 8.0	1270	95	1100	45	1800	320	5500	380
R5.0 × 10.0	1000	95	870	45	1430	320	4300	380
R6.0 × 12.0	870	85	730	45	1200	320	3600	440
R7.0 × 14.0	750	85	620	45	1000	325	3000	440
R8.0 × 16.0	650	85	540	45	920	325	2700	380
R9.0 × 18.0	580	85	480	45	810	325	2400	380
R10.0 × 20.0	500	85	430	45	730	290	2100	380

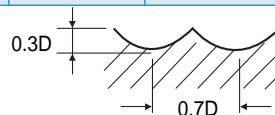


* 对长和超长型进给应减少约50%
 The Feed, in long & extra long types, should be reduced by around 50%.

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

硬质合金, 2刃 球头 TiAlN 涂层
CARBIDE, 2 FLUTE BALL NOSE TiAlN-COATED
E5455, E5414 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		铸铁		铝合金	
MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		CAST IRON		ALUMINUM ALLOYS	
HARDNESS	~ HRC30		HRC30 ~ HRC40					
STRENGTH	~ 1000N/mm ²		1000 ~ 1300N/mm ²					
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
R1.0 × 2.0	7280	125	6160	65	10220	210	30100	390
R1.5 × 3.0	4900	140	4060	65	6860	225	20020	390
R2.0 × 4.0	3640	140	2940	65	5040	280	15260	390
R2.5 × 5.0	2940	145	2380	65	4060	320	12320	460
R3.0 × 6.0	2380	140	2000	65	3360	350	10165	460
R4.0 × 8.0	1780	135	1540	65	2520	450	7700	530
R5.0 × 10.0	1400	135	1220	65	2000	450	6020	530
R6.0 × 12.0	1220	120	1020	65	1680	450	5040	615
R7.0 × 14.0	1050	120	870	65	1400	455	4200	615
R8.0 × 16.0	910	120	755	65	1290	455	3780	530
R9.0 × 18.0	810	120	670	65	1135	455	3360	530
R10.0 × 20.0	700	120	600	65	1020	405	2940	530



* 对长和超长型进给应减少约50%
 The Feed, in long & extra long types, should be reduced by around 50%.

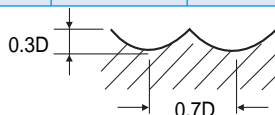
RPM = rev./min. (转速/分钟)
 FEED = mm/min. (进给量)



**硬质合金, 4刃 球头
CARBIDE, 4 FLUTE BALL NOSE**

E5634, E5524 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		铸铁		铝合金	
MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		CAST IRON		ALUMINUM ALLOYS	
HARDNESS	~ HRC30		HRC30 ~ HRC40					
STRENGTH	~ 1000N/mm ²		1000 ~ 1300N/mm ²					
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
R1.0 × 2.0	5200	140	4400	70	7300	230	21500	420
R1.5 × 3.0	3500	150	2900	70	4900	240	14300	420
R2.0 × 4.0	2600	150	2100	70	3600	300	10900	420
R2.5 × 5.0	2100	160	1700	70	2900	350	8800	500
R3.0 × 6.0	1700	150	1430	70	2400	380	7260	500
R4.0 × 8.0	1270	140	1100	70	1800	480	5500	570
R5.0 × 10.0	1000	140	870	70	1430	480	4300	570
R6.0 × 12.0	870	130	730	70	1200	480	3600	660
R7.0 × 14.0	750	130	620	70	1000	490	3000	660
R8.0 × 16.0	650	130	540	70	920	490	2700	570
R9.0 × 18.0	580	130	480	70	810	490	2400	570
R10.0 × 20.0	500	130	430	70	730	440	2100	570



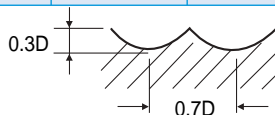
* 对长和超长型进给应减少约50%
The Feed, in long & extra long types, should be reduced by around 50%.

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

**硬质合金, 4刃 球头 TiAlN 涂层
CARBIDE, 4 FLUTE BALL NOSE TiAlN-COATED**

E5634, E5524 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		铸铁		铝合金	
MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS		CARBON STEELS ALLOY STEELS TOOL STEELS		CAST IRON		ALUMINUM ALLOYS	
HARDNESS	~ HRC30		HRC30 ~ HRC40					
STRENGTH	~ 1000N/mm ²		1000 ~ 1300N/mm ²					
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
R1.0 × 2.0	7280	195	6160	100	10220	320	30100	590
R1.5 × 3.0	4900	210	4060	100	6860	335	20020	590
R2.0 × 4.0	3640	210	2940	100	5040	420	15260	590
R2.5 × 5.0	2940	225	2380	100	4060	490	12320	700
R3.0 × 6.0	2380	210	2000	100	3360	530	10165	700
R4.0 × 8.0	1780	195	1540	100	2520	670	7700	800
R5.0 × 10.0	1400	195	1220	100	2000	670	6020	800
R6.0 × 12.0	1220	180	1020	100	1680	670	5040	925
R7.0 × 14.0	1050	180	870	100	1400	685	4200	925
R8.0 × 16.0	910	180	755	100	1290	685	3780	800
R9.0 × 18.0	810	180	670	100	1135	685	3360	800
R10.0 × 20.0	700	180	600	100	1020	615	2940	800



* 对长和超长型进给应减少约50%
The Feed, in long & extra long types, should be reduced by around 50%.

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

硬质合金, 3刃 粗加工 CARBIDE, 3 FLUTE ROUGHING

CBN
END MILLSi-Xmill
END MILLSX5070
END MILLSX-POWER
END MILLSJET-POWER
END MILLSV7 Mill INOX
END MILLSV7 Mill STEEL
END MILLSALU-POWER
END MILLS

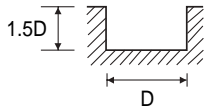
CRX S

D-POWER
END MILLSK-2 CARBIDE
END MILLSGENERAL
CARBIDE
END MILLSTANK-POWER
END MILLSGENERAL
HSS
END MILLSMILLING
CUTTERSTECHNICAL
DATA

E5742, E5711 SERIES

开槽
Slotting

材质	铝, 非铁制金属	
MATERIAL	ALUMINUM NONFERROUS METALS	
DIAMETER	RPM	FEED
6.0	10500	800
8.0	8000	700
10.0	6500	750
12.0	5250	800
16.0	4000	800
20.0	3200	800

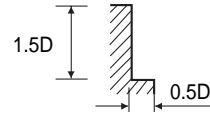


RPM = rev./min. (转速/分钟)
FEED = mm/min. (进给量)

E5742, E5711 SERIES

侧铣
Side Cutting

材质	铝, 非铁制金属	
MATERIAL	ALUMINUM NONFERROUS METALS	
DIAMETER	RPM	FEED
6.0	10500	800
8.0	8000	700
10.0	6500	750
12.0	5250	800
16.0	4000	800
20.0	3200	800



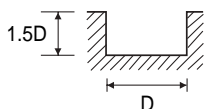
RPM = rev./min. (转速/分钟)
FEED = mm/min. (进给量)

硬质合金, 3刃 粗加工 TiCN 涂层 CARBIDE, 3 FLUTE ROUGHING TiCN-COATED

E5742, E5711 SERIES

开槽
Slotting

材质	铝, 非铁制金属	
MATERIAL	ALUMINUM NONFERROUS METALS	
DIAMETER	RPM	FEED
6.0	13500	1050
8.0	10500	900
10.0	8500	1000
12.0	6800	1050
16.0	5200	1050
20.0	4200	1050

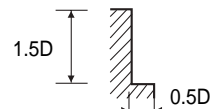


RPM = rev./min. (转速/分钟)
FEED = mm/min. (进给量)

E5742, E5711 SERIES

侧铣
Side Cutting

材质	铝, 非铁制金属	
MATERIAL	ALUMINUM NONFERROUS METALS	
DIAMETER	RPM	FEED
6.0	13500	1050
8.0	10500	900
10.0	8500	950
12.0	6800	1050
16.0	5200	1050
20.0	4200	1050



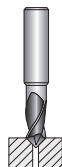
RPM = rev./min. (转速/分钟)
FEED = mm/min. (进给量)



硬质合金, 2刃 - 倒角
CARBIDE, 2 FLUTE - CHAMFERING

E5400 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		不锈钢, 钛合金		铝合金	
MATERIAL	CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		STAINLESS STEELS TITANIUM ALLOYS		ALUMINUM ALLOYS	
HARDNESS	~ HRC20		HRC20 ~ HRC30		HRC30 ~ HRC40					
STRENGTH	500 ~ 800N/mm ²		800 ~ 1000N/mm ²		1000 ~ 1300N/mm ²					
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
	3.0	4400	220	3500	160	3000	140	2400	100	11000
4.0	3600	220	3000	160	2500	140	2000	100	9000	580
5.0	2860	230	2400	170	2000	140	1760	105	6900	620
6.0	2300	240	2000	170	1600	140	1400	105	5600	640
8.0	1760	250	1540	180	1200	145	1000	110	4400	660
10.0	1500	250	1300	190	1100	145	870	110	4000	680
12.0	1300	260	1100	200	900	150	730	115	3500	700
10.0	1000	250	950	200	700	160	550	120	2750	740
20.0	950	260	750	210	600	160	530	130	2200	770



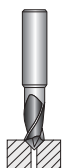
* 对长和超长型进给应减少约50%
The Feed, in long & extra long types, should be reduced by around 50%.

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

硬质合金, 2刃 TiAlN 涂层 - 倒角
CARBIDE, 2 FLUTE TiAlN-COATED - CHAMFERING

E5400 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		不锈钢, 钛合金		铝合金	
MATERIAL	CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		STAINLESS STEELS TITANIUM ALLOYS		ALUMINUM ALLOYS	
HARDNESS	~ HRC20		HRC20 ~ HRC30		HRC30 ~ HRC40					
STRENGTH	500 ~ 800N/mm ²		800 ~ 1000N/mm ²		1000 ~ 1300N/mm ²					
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
	3.0	6160	310	4900	225	4200	195	3360	140	15400
4.0	5040	310	4200	225	3500	195	2800	140	12600	810
5.0	4005	320	3360	240	2800	195	2465	145	9660	870
6.0	3220	335	2800	240	2240	195	1960	145	7840	895
8.0	2465	350	2155	250	1680	2030	1400	155	6160	925
10.0	2100	350	1820	265	1540	2030	1220	155	5600	950
12.0	1820	365	1540	280	1260	210	1020	160	4900	980
16.0	1400	350	1330	280	980	225	770	170	3850	1035
20.0	1330	365	1050	295	840	225	740	180	3080	1080



* 对长和超长型进给应减少约50%
The Feed, in long & extra long types, should be reduced by around 50%.

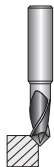
RPM = rev./min. (转速/分钟)
FEED = mm/min. (进给量)

硬质合金, 2刃 - 倒角 & 侧铣
CARBIDE, 2 FLUTE - CHAMFERING & SIDE CUTTING
CBN
END MILLSi-Xmill
END MILLSX5070
END MILLSX-POWER
END MILLSJET-POWER
END MILLSV7 Mill INOX
END MILLSV7 Mill STEEL
END MILLSALU-POWER
END MILLS

CRX S

D-POWER
END MILLSK-2 CARBIDE
END MILLSGENERAL
CARBIDE
END MILLSTANK-POWER
END MILLSGENERAL
HSS
END MILLSMILLING
CUTTERSTECHNICAL
DATA
E5400 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		不锈钢, 钛合金		铝合金	
MATERIAL	CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		STAINLESS STEELS TITANIUM ALLOYS		ALUMINUM ALLOYS	
HARDNESS	~ HRC20		HRC20 ~ HRC30		HRC30 ~ HRC40					
STRENGTH	500 ~ 800N/mm ²		800 ~ 1000N/mm ²		1000 ~ 1300N/mm ²					
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
3.0	5900	95	3900	65	3300	50	2400	40	14000	230
4.0	4800	95	3200	65	2800	50	2000	40	12000	240
5.0	3800	100	2500	65	2200	55	1760	45	9500	250
6.0	3000	110	2000	70	1800	60	1400	50	7700	300
8.0	2300	115	1540	75	1300	65	1100	55	5800	350
10.0	2000	120	1300	80	1200	65	1000	55	5100	380
12.0	1760	130	1100	90	1000	70	840	60	4400	400
16.0	1300	140	900	90	770	70	660	60	3300	330
20.0	1100	140	700	90	600	70	440	60	2640	340



* 对长和超长型进给应减少约50%
 The Feed, in long & extra long types, should be reduced by around 50%.

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

硬质合金, 2刃 TiAlN 涂层 - 倒角 & 侧铣
CARBIDE, 2 FLUTE TiAlN-COATED - CHAMFERING & SIDE CUTTING
E5400 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		不锈钢, 钛合金		铝合金	
MATERIAL	CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		STAINLESS STEELS TITANIUM ALLOYS		ALUMINUM ALLOYS	
HARDNESS	~ HRC20		HRC20 ~ HRC30		HRC30 ~ HRC40					
STRENGTH	500 ~ 800N/mm ²		800 ~ 1000N/mm ²		1000 ~ 1300N/mm ²					
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
3.0	8260	135	5460	90	4620	70	3360	55	19600	320
4.0	6720	135	4480	90	3920	70	2800	55	16800	335
5.0	5320	140	3500	90	3080	75	2465	65	13300	350
6.0	4200	155	2800	100	2520	85	1960	70	10780	420
8.0	3220	160	2155	105	1820	90	1540	75	8120	490
10.0	2800	170	1820	110	1680	90	1400	75	7140	530
12.0	2465	180	1540	125	1400	100	1175	85	6160	560
16.0	1820	195	1260	125	1080	100	925	85	4620	460
20.0	1540	195	980	125	840	100	615	85	3695	475



* 对长和超长型进给应减少约50%
 The Feed, in long & extra long types, should be reduced by around 50%.

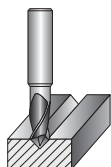
RPM = rev./min. (转速/分钟)
 FEED = mm/min. (进给量)



硬质合金, 2刃 - V型槽
CARBIDE, 2 FLUTE - V-GROOVING

E5400 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		不锈钢, 钛合金		铝合金	
MATERIAL	CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		STAINLESS STEELS TITANIUM ALLOYS		ALUMINUM ALLOYS	
HARDNESS	~ HRC20		HRC20 ~ HRC30		HRC30 ~ HRC40					
STRENGTH	500 ~ 800N/mm ²		800 ~ 1000N/mm ²		1000 ~ 1300N/mm ²					
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
	3.0	5900	60	4000	30	3300	25	2400	20	14000
4.0	4800	60	3300	30	2800	25	2000	20	11800	230
5.0	3800	60	2500	30	2200	25	1760	20	9500	240
6.0	3000	60	2000	30	1800	30	1400	20	7700	250
8.0	2300	65	1540	35	1300	35	1100	20	5800	260
10.0	2000	65	1300	35	1200	35	1000	20	5000	260
12.0	1760	65	1000	40	1000	35	840	20	4400	260
16.0	1400	65	900	40	770	35	660	25	3300	270
20.0	1100	65	700	40	600	35	440	25	2600	270



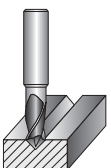
* 对长和超长型进给应减少约50%
The Feed, in long & extra long types, should be reduced by around 50%.

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

硬质合金, 2刃 TiAlN 涂层 - V型槽
CARBIDE, 2 FLUTE TiAlN-COATED - V-GROOVING

E5400 SERIES

材质	碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		碳钢, 合金钢, 工具钢		不锈钢, 钛合金		铝合金	
MATERIAL	CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		CARBON STEELS, ALLOY STEELS, TOOL STEELS		STAINLESS STEELS TITANIUM ALLOYS		ALUMINUM ALLOYS	
HARDNESS	~ HRC20		HRC20 ~ HRC30		HRC30 ~ HRC40					
STRENGTH	500 ~ 800N/mm ²		800 ~ 1000N/mm ²		1000 ~ 1300N/mm ²					
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
	3.0	8260	85	5600	40	4620	35	3360	30	19600
4.0	6720	85	4620	40	3920	35	2800	30	16520	320
5.0	5320	85	3500	40	3080	35	2465	30	13300	335
6.0	4200	85	2800	40	2520	40	1960	30	10780	350
8.0	3220	90	2155	50	1820	50	1540	30	8120	365
10.0	2800	90	1820	50	1680	50	1400	30	7000	365
12.0	2465	90	1400	55	1400	50	1175	30	6160	365
16.0	1960	90	1260	55	1080	50	925	35	4620	380
20.0	1540	90	980	55	840	50	615	35	3640	380



* 对长和超长型进给应减少约50%
The Feed, in long & extra long types, should be reduced by around 50%.

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