



株洲优佳精密合金有限公司
ZHUSHOU UKO PRECISION CARBIDE CO LTD





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ZHUZHOU UKO PRECISION CARBIDE CO LTD

Zhuzhou UKO Precision Carbide Co., Ltd. , independently develops and produces end mill, carbide-coated turning and milling inserts, cermet inserts, threading inserts, inserts for aluminum and copper cutting, widely used in CNC lathe, CNC machining center, mould base, die-set, mold, precision metals, machinery manufacturing, injection molding machinery, metal casting, geological mine, woodworking machinery and other industries. At the same time, we can make special non-standard cutting tools according to customers' requirements.

We have advanced and reliable production lines of various cutting tools, with high quality, high precision, high efficiency, and excellent cutting performance. In the meantime, we continue to pursue more excellent and stable performance, fast service, timely, to the maximum extent to meet the demands of customers.

Technology leads the development, service creates value! Since its establishment in 2009, UKO has taken hard work as its foundation and continuous innovation as its development policy. With high quality products and thoughtful service to win a good reputation and preferred of customers, business coverage in domestic market and Asia, Europe, America, Africa, Oceania countries. The company has always been adhering to the business philosophy of "quality first, credit first, sincere service, mutual benefit and fast supply" and seeks common development with new and old customers. With excellent quality, practical service and preferential prices, we have a good reputation among customers.

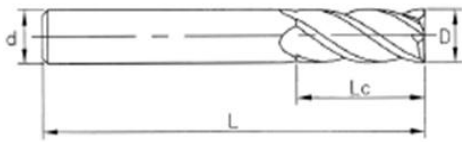


Milling

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65度平底4刃钨钢铣刀

HRC65 Carbide 4 Flutes Standard Length End Mills



Raw Material: Use GU25UF with 12% Co content and 0.4um grain size

Coating: AlTiSiN, with the hardness and thermal stability are up to 4000HV and 1200°C, respectively

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

采用金鹭GU25UF料，具有高强度和高韧性

AlTiSiN，纳米技术涂层，硬度高达4000HV，热稳定性达1200°C

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

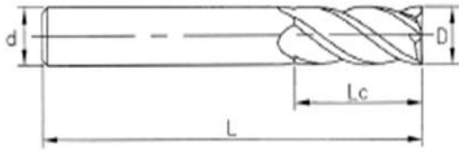
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
EM6503008030504F	3	8	3	50	4
EM6501003040504F	1	3	4	50	4
EM6501504040504F	1.5	4	4	50	4
EM6502006040504F	2	6	4	50	4
EM6502507040504F	2.5	7	4	50	4
EM6503008040504F	3	8	4	50	4
EM6504010040504F	4	10	4	50	4
EM6505013050504F	5	13	5	50	4
EM6505013060504F	5	13	6	50	4
EM6506015060504F	6	15	6	50	4
EM6507018080604F	7	18	8	60	4
EM6508020080604F	8	20	8	60	4
EM6510025100754F	10	25	10	75	4
EM6512030120754F	12	30	12	75	4
EM6514035140804F	14	35	14	80	4
EM6514045141004F	14	45	14	100	4
EM6516045161004F	16	45	16	100	4
EM6518045181004F	18	45	18	100	4
EM6520045201004F	20	45	20	100	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y			Y	Y

Y 适合 Suitable

65度长柄平底4刃钨钢铣刀

HRC65 Carbide Long Shank 4 Flutes Square End Mills



Raw Material: Use GU25UF with 12% Co content and 0.4um grain size

Coating: AlTiSiN, with the hardness and thermal stability are up to 4000HV and 1200°C, **respectively**

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

采用金鹭GU25UF料，具有高强度和高韧性

AlTiSiN，纳米技术涂层，硬度高达4000HV，热稳定性达1200°C

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

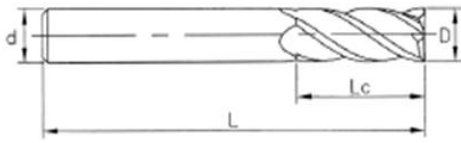
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
EM6504016040754 F	4	16	4	75	4
EM6504020041004 F	4	20	4	100	4
EM6505020050754 F	5	20	5	75	4
EM6505025051004 F	5	25	5	100	4
EM6506020060754 F	6	20	6	75	4
EM6506030061004 F	6	30	6	100	4
EM6506040061504 F	6	40	6	150	4
EM6508025080754 F	8	25	8	75	4
EM6508035081004 F	8	35	8	100	4
EM6508050081504 F	8	50	8	150	4
EM6510040101004 F	10	40	10	100	4
EM6510050101504 F	10	50	10	150	4
EM6512045121004 F	12	45	12	100	4
EM6512055121504 F	12	55	12	150	4
EM6514060141504 F	14	60	14	150	4
EM6516060161504 F	16	60	16	150	4
EM6518060181504 F	18	60	18	150	4
EM6520070201504 F	20	70	20	150	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened
Y	Y	Y			Y	Y

Y 适合 Suitable

60度平底4刃钨钢铣刀

HRC60 Carbide 4 Flutes Standard Length End Mills



Raw Material: Use ZK40SF with 12% Co content and 0.6um grain size

Coating: AlTiSiN, with the hardness and thermal stability are up to 4000HV and 1200°C, respectively

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

采用自贡ZK40SF料，具有高强度和高韧性

AlTiSiN，纳米技术涂层，硬度高达4000HV，热稳定性达1200°C

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

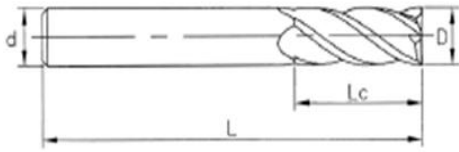
Order No.	Diameter	Cutting Length	Shank Diameter	Overall Length	Flutes
EM6003008030504F	3	8	3	50	4
EM6001003040504F	1	3	4	50	4
EM6001504040504F	1.5	4	4	50	4
EM6002006040504F	2	6	4	50	4
EM6002507040504F	2.5	7	4	50	4
EM6003008040504F	3	8	4	50	4
EM6004010040504F	4	10	4	50	4
EM6005013050504F	5	13	5	50	4
EM6005013060504F	5	13	6	50	4
EM6006015060504F	6	15	6	50	4
EM6007018080604F	7	18	8	60	4
EM6008020080604F	8	20	8	60	4
EM6010025100754F	10	25	10	75	4
EM6012030120754F	12	30	12	75	4
EM6014035140804F	14	35	14	80	4
EM6014045141004F	14	45	14	100	4
EM6016045161004F	16	45	16	100	4
EM6018045181004F	18	45	18	100	4
EM6020045201004F	20	45	20	100	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened
Y	Y	Y			Y	Y

Y 适合 Suitable

60度长柄平底4刃钨钢铣刀

HRC60 Carbide Long Shank 4 Flutes Square End Mills



Raw Material: Use ZK40SF with 12% Co content and 0.6um grain size

Coating: AlTiSiN, with the hardness and thermal stability are up to 4000HV and 1200°C, respectively

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

采用自贡ZK40SF料，具有高强度和高韧性

AlTiSiN，纳米技术涂层，硬度高达4000HV，热稳定性达1200°C

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

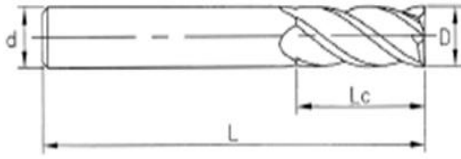
Order No.	Diameter	Cutting Length	Shank Diameter	Overall Length	Flutes
EM6004016040754F	4	16	4	75	4
EM6004020041004F	4	20	4	100	4
EM6005020050754F	5	20	5	75	4
EM6005025051004F	5	25	5	100	4
EM6006020060754F	6	20	6	75	4
EM6006030061004F	6	30	6	100	4
EM6006040061504F	6	40	6	150	4
EM6008025080754F	8	25	8	75	4
EM6008035081004F	8	35	8	100	4
EM6008050081504F	8	50	8	150	4
EM6010040101004F	10	40	10	100	4
EM6010050101504F	10	50	10	150	4
EM6012045121004F	12	45	12	100	4
EM6012055121504F	12	55	12	150	4
EM6014060141504F	14	60	14	150	4
EM6016060161504F	16	60	16	150	4
EM6018060181504F	18	60	18	150	4
EM6020070201504F	20	70	20	150	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened
Y	Y	Y			Y	Y

Y 适合 Suitable

55度平底4刃钨钢铣刀

HRC55 Carbide 4 Flutes Standard Length End Mills



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6 -0.010 \sim -0.030$; $6 < D \leq 10 -0.015 \sim -0.040$; $10 < D \leq 20 -0.020 \sim -0.050$

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

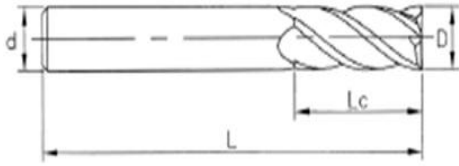
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
EM5503008030504F	3	8	3	50	4
EM5501003040504F	1	3	4	50	4
EM5501504040504F	1.5	4	4	50	4
EM5502006040504F	2	6	4	50	4
EM5502507040504F	2.5	7	4	50	4
EM5503008040504F	3	8	4	50	4
EM5503510040504F	3.5	10	4	50	4
EM5504010040504F	4	10	4	50	4
EM5505013050504F	5	13	5	50	4
EM5502507060504F	2.5	7	6	50	4
EM5503008060504F	3	8	6	50	4
EM5503510060504F	3.5	10	6	50	4
EM5504010060504F	4	10	6	50	4
EM5504512060504F	4.5	12	6	50	4
EM5505013060504F	5	13	6	50	4
EM5506015060504F	6	15	6	50	4
EM5507018080604F	7	18	8	60	4
EM5508020080604F	8	20	8	60	4
EM5509023100754F	9	23	10	75	4
EM5510025100754F	10	25	10	75	4
EM5511028120754F	11	28	12	75	4
EM5512030120754F	12	30	12	75	4
EM5514035140804F	14	35	14	80	4
EM5514045141004F	14	45	14	100	4
EM5516045161004F	16	45	16	100	4
EM5518045181004F	18	45	18	100	4
EM5520045201004F	20	45	20	100	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

55度长柄平底4刃钨钢铣刀

HRC55 Carbide 4 Flutes Long Shank Square End Mills



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

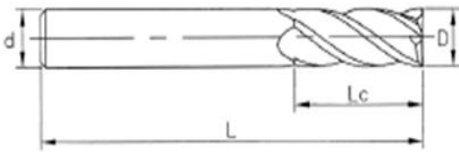
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
EM5503012030754F	3	12	3	75	4
EM5503012031004F	3	12	3	100	4
EM5504016040754F	4	16	4	75	4
EM5504020041004F	4	20	4	100	4
EM5505020050754F	5	20	5	75	4
EM5505025051004F	5	25	5	100	4
EM5506020060754F	6	20	6	75	4
EM5506030061004F	6	30	6	100	4
EM5506040061504F	6	40	6	150	4
EM5508025080754F	8	25	8	75	4
EM5508035081004F	8	35	8	100	4
EM5508050081504F	8	50	8	150	4
EM5510040101004F	10	40	10	100	4
EM5510050101504F	10	50	10	150	4
EM5512045121004F	12	45	12	100	4
EM5512055121504F	12	55	12	150	4
EM5514060141504F	14	60	14	150	4
EM5516060161504F	16	60	16	150	4
EM5518060181504F	18	60	18	150	4
EM5520070201504F	20	70	20	150	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

45度平底4刃钨钢铣刀

HRC45 Carbide 4 Flute Standard Length End Mills



Raw Material: Use YG10X with 10% Co content and 0.8um grain size.

Coating: AITiN, High aluminum content provides excellent hot hardness and oxidation resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

采用高硬度的自贡 YG10X，具有良好的耐磨性和抗腐蚀性

AITiN 涂层，高铝含量提供了优异的红硬性和抗氧化温度

4 刃，刚性高，广泛用于浅槽、侧铣和精加工

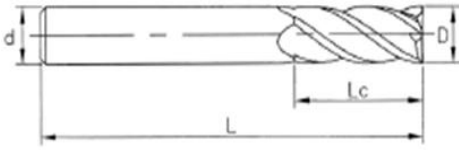
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
EM4503008030504 F	3	8	3	50	4
EM4501003040504 F	1	3	4	50	4
EM4501504040504 F	1.5	4	4	50	4
EM4502006040504 F	2	6	4	50	4
EM4502507040504 F	2.5	7	4	50	4
EM4503008040504 F	3	8	4	50	4
EM4503510040504 F	3.5	10	4	50	4
EM4504010040504 F	4	10	4	50	4
EM4505013050504 F	5	13	5	50	4
EM4502507060504 F	2.5	7	6	50	4
EM4503008060504 F	3	8	6	50	4
EM4503510060504 F	3.5	10	6	50	4
EM4504010060504 F	4	10	6	50	4
EM4504512060504 F	4.5	12	6	50	4
EM4505013060504 F	5	13	6	50	4
EM4506015060504 F	6	15	6	50	4
EM4507018080604 F	7	18	8	60	4
EM4508020080604 F	8	20	8	60	4
EM4509023100754 F	9	23	10	75	4
EM4510025100754 F	10	25	10	75	4
EM4511028120754 F	11	28	12	75	4
EM4512030120754 F	12	30	12	75	4
EM4514035140804 F	14	35	14	80	4
EM4514045141004 F	14	45	14	100	4
EM4516045161004 F	16	45	16	100	4
EM4518045181004 F	18	45	18	100	4
EM4520045201004 F	20	45	20	100	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				

Y 适合 Suitable

45度长柄平底4刃钨钢铣刀

HRC45 Carbide 4 Flute Long Length End Mills



Raw Material: Use YG10X with 10% Co content and 0.8um grain size.

Coating: AlTiN, High aluminum content provides excellent hot hardness and oxidation resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

采用高硬度的自贡 YG10X，具有良好的耐磨性和抗腐蚀性

AlTiN 涂层，高铝含量提供了优异的红硬性和抗氧化温度

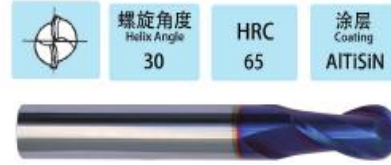
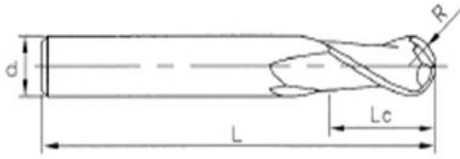
4 刃，刚性高，广泛用于浅槽、侧铣和精加工

Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
EM4503012030754F	3	12	3	75	4
EM4503012031004F	3	12	3	100	4
EM4504016040754F	4	16	4	75	4
EM4504020041004F	4	20	4	100	4
EM4505020050754F	5	20	5	75	4
EM4505025051004F	5	25	5	100	4
EM4506020060754F	6	20	6	75	4
EM4506030061004F	6	30	6	100	4
EM4506040061504F	6	40	6	150	4
EM4508025080754F	8	25	8	75	4
EM4508035081004F	8	35	8	100	4
EM4508050081504F	8	50	8	150	4
EM4510040101004F	10	40	10	100	4
EM4510050101504F	10	50	10	150	4
EM4512045121004F	12	45	12	100	4
EM4512055121504F	12	55	12	150	4
EM4514060141504F	14	60	14	150	4
EM4516060161504F	16	60	16	150	4
EM4518060181504F	18	60	18	150	4
EM4520070201504F	20	70	20	150	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				

65度2刃钨钢球头铣刀

HRC65 Carbide 2 Flute Standard Length Ball Nose End Mills



Raw Material: Use GU25UF with 12% Co content and 0.4um grain size

Coating: AlTiSiN, with the hardness and thermal stability are up to 4000HV and 1200°C, respectively

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

采用金鹭GU25UF料，具有高强度和高韧性

AlTiSiN，纳米技术涂层，硬度高达4000HV，热稳定性达1200°C

双刃带设计，有效提高刃带刚性和工件表面光洁度；刃口过中心，有效减少切削阻力；大容量排屑槽，方便顺畅排屑，提高加工效率；二刃设计，广泛应用于沟槽，孔加工

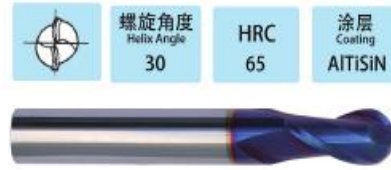
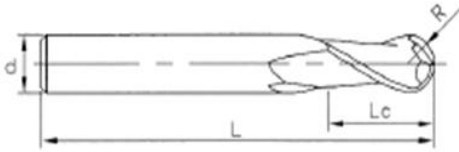
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BN6501002040502F	1	2	4	50	2
BN6501503040502F	1.5	3	4	50	2
BN6502004040502F	2	4	4	50	2
BN6502505040502F	2.5	5	4	50	2
BN6503006040502F	3	6	4	50	2
BN6504008040502F	4	8	4	50	2
BN6505010050502F	5	10	5	50	2
BN6506012060502F	6	12	6	50	2
BN6508016080602F	8	16	8	60	2
BN6510020100752F	10	20	10	75	2
BN6512024120752F	12	24	12	75	2
BN6514028141002F	14	28	14	100	2
BN6516032161002F	16	32	16	100	2
BN6518036181002F	18	36	18	100	2
BN6520040201002F	20	40	20	100	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y			Y	Y

Y 适合 Suitable

65度2刃长柄钨钢球头铣刀

HRC65 Carbide 2 Flute Long Length Ball Nose End Mills



Raw Material: Use GU25UF with 12% Co content and 0.4um grain size

Coating: AlTiSiN, with the hardness and thermal stability are up to 4000HV and 1200°C, respectively

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

采用金鹭GU25UF料，具有高强度和高韧性

AlTiSiN，纳米技术涂层，硬度高达4000HV，热稳定性达1200°C

双刃带设计，有效提高刃带刚性和工件表面光洁度；刃口过中心，有效减少切削阻力；大容量排屑槽，方便顺畅排屑，提高加工效率；二刃设计，广泛应用于沟槽，孔加工

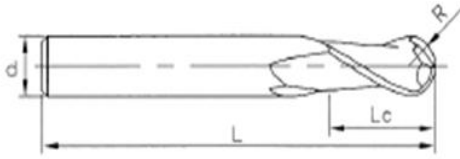
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
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BN6505010050752F	5	10	5	75	2
BN6505010051002F	5	10	5	100	2
BN6506012060752F	6	12	6	75	2
BN6506012061002F	6	12	6	100	2
BN6506012061502F	6	12	6	150	2
BN6508016080752F	8	16	8	75	2
BN6508016081002F	8	16	8	100	2
BN6508016081502F	8	16	8	150	2
BN6510020101002F	10	20	10	100	2
BN6510020101502F	10	20	10	150	2
BN6512024121002F	12	24	12	100	2
BN6512024121502F	12	24	12	150	2
BN6514028141502F	14	28	14	150	2
BN6516032161502F	16	32	16	150	2
BN6518036181502F	18	36	18	150	2
BN6520040201502F	20	40	20	150	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y			Y	Y

Y 适合 Suitable

60度2刃钨钢球头铣刀

HRC60 Carbide 2 Flute Standard Length Ball Nose End Mills



Raw Material: Use ZK40SF with 12% Co content and 0.6um grain size

Coating: AlTiSiN, with the hardness and thermal stability are up to 4000HV and 1200°C, respectively

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

采用自贡ZK40SF料，具有高强度和高韧性

AlTiSiN，纳米技术涂层，硬度高达4000HV，热稳定性达1200°C

双刃带设计，有效提高刃带刚性和工件表面光洁度；刃口过中心，有效减少切削阻力；大容量排屑槽，方便顺畅排屑，提高加工效率；二刃设计，广泛应用于沟槽，孔加工

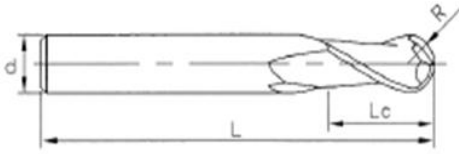
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
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BN6002505040502F	2.5	5	4	50	2
BN6003006040502F	3	6	4	50	2
BN6004008040502F	4	8	4	50	2
BN6005010050502F	5	10	5	50	2
BN6006012060502F	6	12	6	50	2
BN6008016080602F	8	16	8	60	2
BN6010020100752F	10	20	10	75	2
BN6012024120752F	12	24	12	75	2
BN6014028141002F	14	28	14	100	2
BN6016032161002F	16	32	16	100	2
BN6018036181002F	18	36	18	100	2
BN6020040201002F	20	40	20	100	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y			Y	Y

Y 适合 Suitable

60度2刃长柄钨钢球头铣刀

HRC60 Carbide 2 Flute Long Length Ball Nose End Mills



Raw Material: Use ZK40SF with 12% Co content and 0.6um grain size

Coating: AlTiSiN, with the hardness and thermal stability are up to 4000HV and 1200°C, respectively

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

采用金鹭ZK40SF具有高强度和高韧性

AlTiSiN, 纳米技术涂层, 硬度高达4000HV, 热稳定性达1200°C

双刃带设计, 有效提高刃带刚性和工件表面光洁度; 刃口过中心, 有效减少切削阻力; 大容量排屑槽, 方便顺畅排屑, 提高加工效率; 二刃设计, 广泛应用于沟槽, 孔加工

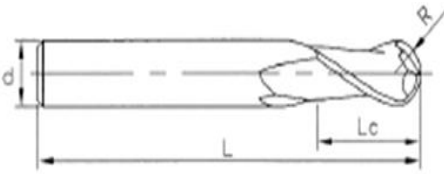
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
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BN6004008041002F	4	8	4	100	2
BN6005010050752F	5	10	5	75	2
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BN6006012060752F	6	12	6	75	2
BN6006012061002F	6	12	6	100	2
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BN6012024121502F	12	24	12	150	2
BN6014028141502F	14	28	14	150	2
BN6016032161502F	16	32	16	150	2
BN6018036181502F	18	36	18	150	2
BN6020040201502F	20	40	20	150	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y			Y	Y

Y 适合 Suitable

55度2刃钨钢球头铣刀

HRC55 Carbide 2 Flute Standard Length Ball Nose End Mills



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6$ $-0.010 \sim -0.030$; $6 < D \leq 10$ $-0.015 \sim -0.040$; $10 < D \leq 20$ $-0.020 \sim -0.050$

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

双刃带设计，有效提高刃带刚性和工件表面光洁度；刃口过中心，有效减少切削阻力；大容量排屑槽，方便顺畅排屑，提高加工效率；二刃设计，广泛应用于沟槽，孔加工

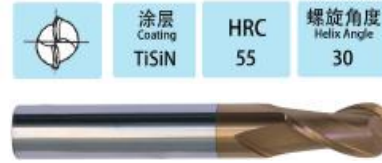
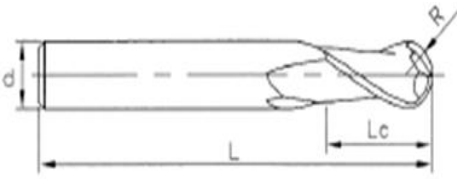
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
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BN5501503040502F	1.5	3	4	50	2
BN5502004040502F	2	4	4	50	2
BN5502505040502F	2.5	5	4	50	2
BN5503006040502F	3	6	4	50	2
BN5504008040502F	4	8	4	50	2
BN5505010050502F	5	10	5	50	2
BN5506012060502F	6	12	6	50	2
BN5507014080602F	7	14	8	60	2
BN5508016080602F	8	16	8	60	2
BN5509018100752F	9	18	10	75	2
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BN5516032161002F	16	32	16	100	2
BN5518036181002F	18	36	18	100	2
BN5520040201002F	20	40	20	100	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

55度2刃长柄钨钢球头铣刀

HRC55 Carbide 2 Flute Long Length Ball Nose End Mills



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6$ $-0.010 \sim -0.030$; $6 < D \leq 10$ $-0.015 \sim -0.040$; $10 < D \leq 20$ $-0.020 \sim -0.050$

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

双刃带设计，有效提高刃带刚性和工件表面光洁度；刃口过中心，有效减少切削阻力；大容量排屑槽，方便顺畅排屑，提高加工效率；二刃设计，广泛应用于沟槽，孔加工

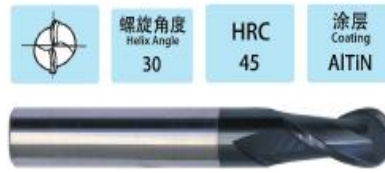
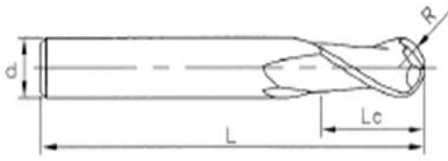
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
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BN5504008041002F	4	8	4	100	2
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BN5506012060752F	6	12	6	75	2
BN5506012061002F	6	12	6	100	2
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BN5516032161502F	16	32	16	150	2
BN5518036181502F	18	36	18	150	2
BN5520040201502F	20	40	20	150	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

45度2刃钨钢球头铣刀

HRC45 Carbide 2 Flute Standard Length Ball Nose End Mills



Raw Material: Use YG10X with 10% Co content and 0.8um grain size.

Coating: AlTiN, High aluminum content provides excellent hot hardness and oxidation resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

采用高硬度的自贡 YG10X，具有良好的耐磨性和抗腐蚀性

AlTiN 涂层，高铝含量提供了优异的红硬性和抗氧化温度

双刃带设计，有效提高刃带刚性和工件表面光洁度；刃口过中心，有效减少切削阻力；大容量排屑槽，方便顺畅排屑，提高加工效率；二刃设计，广泛应用于沟槽，孔加工

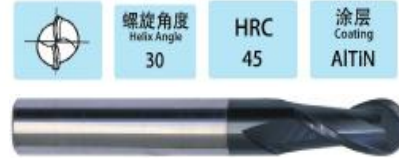
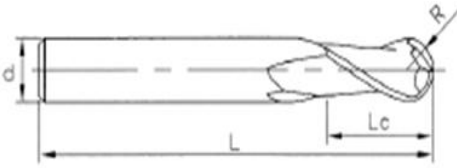
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
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BN4501503040502F	1.5	3	4	50	2
BN4502004040502F	2	4	4	50	2
BN4502505040502F	2.5	5	4	50	2
BN4503006040502F	3	6	4	50	2
BN4504008040502F	4	8	4	50	2
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BN4514028141002F	14	28	14	100	2
BN4516032161002F	16	32	16	100	2
BN4518036181002F	18	36	18	100	2
BN4520040201002F	20	40	20	100	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				

Y 适合 Suitable

45度2刃长柄钨钢球头铣刀

HRC45 Carbide 2 Flute Long Length Ball Nose End Mills



Raw Material: Use YG10X with 10% Co content and 0.8um grain size.

Coating: AlTiN, High aluminum content provides excellent hot hardness and oxidation resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

采用高硬度的自贡 YG10X，具有良好的耐磨性和抗腐蚀性

AlTiN 涂层，高铝含量提供了优异的红硬性和抗氧化温度

双刃带设计，有效提高刃带刚性和工件表面光洁度；刃口过中心，有效减少切削阻力；大容量排屑槽，方便顺畅排屑，提高加工效率；二刃设计，广泛应用于沟槽，孔加工

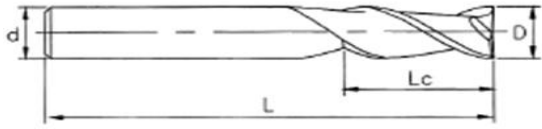
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
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BN4503006031002F	3	6	3	100	2
BN4504008040752F	4	8	4	75	2
BN4504008041002F	4	8	4	100	2
BN4505010050752F	5	10	5	75	2
BN4505010051002F	5	10	5	100	2
BN4506012060752F	6	12	6	75	2
BN4506012061002F	6	12	6	100	2
BN4506012061502F	6	12	6	150	2
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BN4508016081002F	8	16	8	100	2
BN4508016081502F	8	16	8	150	2
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BN4510020101502F	10	20	10	150	2
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BN4512024121502F	12	24	12	150	2
BN4514028141502F	14	28	14	150	2
BN4516032161502F	16	32	16	150	2
BN4518036181502F	18	36	18	150	2
BN4520040201502F	20	40	20	150	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				

Y 适合 Suitable

55度平底2刃钨钢铣刀

HRC55 Carbide 2 Flute Standard Length End Mills



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6 -0.010 \sim -0.030$; $6 < D \leq 10 -0.015 \sim -0.040$; $10 < D \leq 20 -0.020 \sim -0.050$

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

2 刃排削顺畅，纵向进给加工容易，广泛用于切槽和孔加工

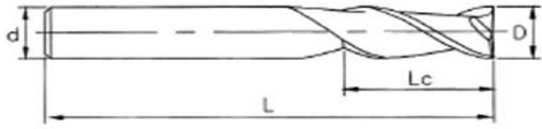
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
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EM5501504040502F	1.5	4	4	50	2
EM5502006040502F	2	6	4	50	2
EM5502507040502F	2.5	7	4	50	2
EM5503008040502F	3	8	4	50	2
EM5503510040502F	3.5	10	4	50	2
EM5504010040502F	4	10	4	50	2
EM5505013050502F	5	13	5	50	2
EM5502507060502F	2.5	7	6	50	2
EM5503008060502F	3	8	6	50	2
EM5503510060502F	3.5	10	6	50	2
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EM5506015060502F	6	15	6	50	2
EM5507018080602F	7	18	8	60	2
EM5508020080602F	8	20	8	60	2
EM5509023100752F	9	23	10	75	2
EM5510025100752F	10	25	10	75	2
EM5511028120752F	11	28	12	75	2
EM5512030120752F	12	30	12	75	2
EM5514035140802F	14	35	14	80	2
EM5514045141002F	14	45	14	100	2
EM5516045161002F	16	45	16	100	2
EM5518045181002F	18	45	18	100	2
EM5520045201002F	20	45	20	100	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

55度平底长柄2刃钨钢铣刀

HRC55 Carbide 2 Flute Long Length End Mills



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6$ $-0.010 \sim -0.030$; $6 < D \leq 10$ $-0.015 \sim -0.040$; $10 < D \leq 20$ $-0.020 \sim -0.050$

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

2 刃排削顺畅，纵向进给加工容易，广泛用于切槽和孔加工

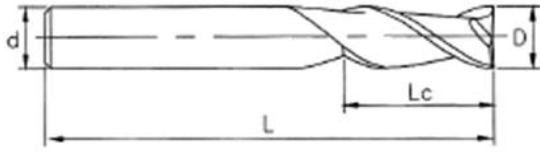
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
EM5503012030752F	3	12	3	75	2
EM5503012031002F	3	12	3	100	2
EM5504016040752F	4	16	4	75	2
EM5504020041002F	4	20	4	100	2
EM5505020050752F	5	20	5	75	2
EM5505025051002F	5	25	5	100	2
EM5506020060752F	6	20	6	75	2
EM5506030061002F	6	30	6	100	2
EM5506040061502F	6	40	6	150	2
EM5508025080752F	8	25	8	75	2
EM5508035081002F	8	35	8	100	2
EM5508050081502F	8	50	8	150	2
EM5510040101002F	10	40	10	100	2
EM5510050101502F	10	50	10	150	2
EM5512045121002F	12	45	12	100	2
EM5512055121502F	12	55	12	150	2
EM5514060141502F	14	60	14	150	2
EM5516060161502F	16	60	16	150	2
EM5518060181502F	18	60	18	150	2
EM5520070201502F	20	70	20	150	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

45度平底2刃钨钢铣刀

HRC45 Carbide 2 Flute Standard Length End Mills



Raw Material: Use YG10X with 10% Co content and 0.8um grain size.

Coating: AlTiN, High aluminum content provides excellent hot hardness and oxidation resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

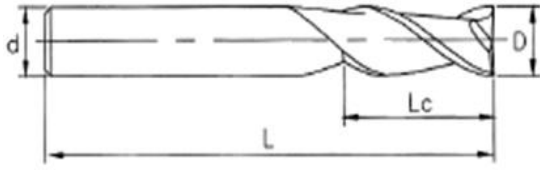
采用高硬度的自贡 YG10X，具有良好的耐磨性和抗腐蚀性
AlTiN 涂层，高铝含量提供了优异的红硬性和抗氧化温度
2 刃排削顺畅，纵向进给加工容易， 广泛用于切槽和孔加工

Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
EM4503008030502F	3	8	3	50	2
EM4501003040502F	1	3	4	50	2
EM4501504040502F	1.5	4	4	50	2
EM4502006040502F	2	6	4	50	2
EM4502507040502F	2.5	7	4	50	2
EM4503008040502F	3	8	4	50	2
EM4503510040502F	3.5	10	4	50	2
EM4504010040502F	4	10	4	50	2
EM4505013050502F	5	13	5	50	2
EM4502507060502F	2.5	7	6	50	2
EM4503008060502F	3	8	6	50	2
EM4503510060502F	3.5	10	6	50	2
EM4504010060502F	4	10	6	50	2
EM4504512060502F	4.5	12	6	50	2
EM4505013060502F	5	13	6	50	2
EM4506015060502F	6	15	6	50	2
EM4507018080602F	7	18	8	60	2
EM4508020080602F	8	20	8	60	2
EM4509023100752F	9	23	10	75	2
EM4510025100752F	10	25	10	75	2
EM4511028120752F	11	28	12	75	2
EM4512030120752F	12	30	12	75	2
EM4514035140802F	14	35	14	80	2
EM4514045141002F	14	45	14	100	2
EM4516045161002F	16	45	16	100	2
EM4518045181002F	18	45	18	100	2
EM4520045201002F	20	45	20	100	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				

45度平底长柄2刃钨钢铣刀

HRC45 Carbide 2 Flute Long Length End Mills



Raw Material: Use YG10X with 10% Co content and 0.8um grain size.

Coating: AlTiN, High aluminum content provides excellent hot hardness and oxidation resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -0.050

采用高硬度的自贡 YG10X，具有良好的耐磨性和抗腐蚀性
AlTiN 涂层，高铝含量提供了优异的红硬性和抗氧化温度
2 刃排削顺畅，纵向进给加工容易，广泛用于切槽和孔加工

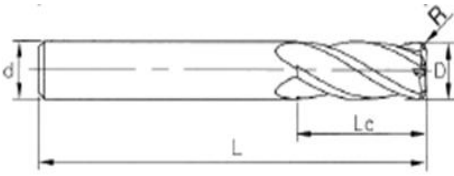
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
EM4503012030752F	3	12	3	75	2
EM4503012031002F	3	12	3	100	2
EM4504016040752F	4	16	4	75	2
EM4504020041002F	4	20	4	100	2
EM4505020050752F	5	20	5	75	2
EM4505025051002F	5	25	5	100	2
EM4506020060752F	6	20	6	75	2
EM4506030061002F	6	30	6	100	2
EM4506040061502F	6	40	6	150	2
EM4508025080752F	8	25	8	75	2
EM4508035081002F	8	35	8	100	2
EM4508050081502F	8	50	8	150	2
EM4510040101002F	10	40	10	100	2
EM4510050101502F	10	50	10	150	2
EM4512045121002F	12	45	12	100	2
EM4512055121502F	12	55	12	150	2
EM4514060141502F	14	60	14	150	2
EM4516060161502F	16	60	16	150	2
EM4518060181502F	18	60	18	150	2
EM4520070201502F	20	70	20	150	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				

Y 适合 Suitable

65度4刃钨钢圆鼻铣刀

HRC65 Carbide 4 Flute Standard Length Corner Radius End Mills



Raw Material: Use GU25UF with 12% Co content and 0.4um grain size

Coating: AITiSiN, with the hardness and thermal stability are up to 4000HV and 1200°C, respectively

Tolerance of End Mill Diameter: $1 < D \leq 6 -0.010 \sim -0.030$; $6 < D \leq 10 -0.015 \sim -0.040$; $10 < D \leq 20 -0.020 \sim -$

Cutting Edge Design: Corner radius, uneasy to cracking, widely used in high speed cutting

采用金鹭GU25UF料, 具有高强度和高韧性

AITiSiN, 纳米技术涂层, 硬度高达4000HV, 热稳定性达1200°C

螺旋角度35度, 对被加工材料的材质和硬度适应性强, 广泛应用于模具和产品加工, 有较高的性价比

刃口倒角, 不易崩裂, 广泛用于高速加工中

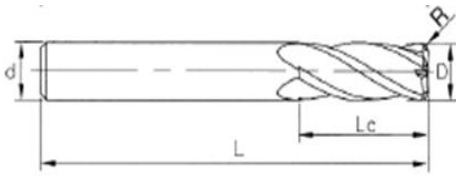
Order No.	Diameter D	R	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
CR650401004050R054F	4	0.5	10	4	50	4
CR650401004050R104F	4	1	10	4	50	4
CR650501305050R054F	5	0.5	13	5	50	4
CR650501305050R104F	5	1	13	5	50	4
CR650601506050R054F	6	0.5	15	6	50	4
CR650601506050R104F	6	1	15	6	50	4
CR650802008060R054F	8	0.5	20	8	60	4
CR650802008060R104F	8	1	20	8	60	4
CR650802008060R204F	8	2	20	8	60	4
CR650802008060R304F	8	3	20	8	60	4
CR651002510075R054F	10	0.5	25	10	75	4
CR651002510075R104F	10	1	25	10	75	4
CR651002510075R204F	10	2	25	10	75	4
CR651002510075R304F	10	3	25	10	75	4
CR651203012075R054F	12	0.5	30	12	75	4
CR651203012075R104F	12	1	30	12	75	4
CR651203012075R204F	12	2	30	12	75	4
CR651203012075R304F	12	3	30	12	75	4
CR651403514100R054F	14	0.5	35	14	100	4
CR651404514100R104F	14	1	45	14	100	4
CR651604516100R054F	16	0.5	45	16	100	4
CR651604516100R104F	16	1	45	16	100	4
CR651804518100R054F	18	0.5	45	18	100	4
CR651804518100R104F	18	1	45	18	100	4
CR652004520100R054F	20	0.5	45	20	100	4
CR652004520100R104F	20	1	45	20	100	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y			Y	Y

Y 适合 Suitable

65度4刃长柄钨钢圆鼻铣刀

HRC65 Carbide 4 Flute Long Length Corner Radius End Mills



Raw Material: Use GU25UF with 12% Co content and 0.4um grain size

Coating: AlTiSiN, with the hardness and thermal stability are up to 4000HV and 1200°C, respectively

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -

Cutting Edge Design: Corner radius, uneasy to cracking, widely used in high speed cutting

采用金鹭GU25UF料，具有高强度和高韧性

AlTiSiN，纳米技术涂层，硬度高达4000HV，热稳定性达1200°C

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

刃口倒角，不易崩裂，广泛用于高速加工中

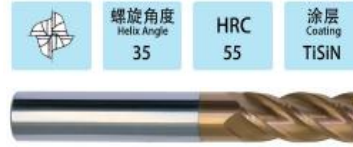
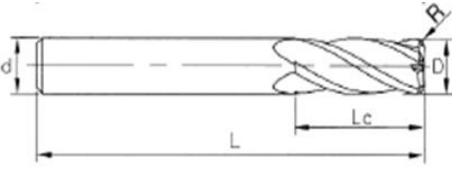
Order No.	Diameter D	R	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
CR650401604075R054F	4	0.5	16	4	75	4
CR650401604075R104F	4	1	16	4	75	4
CR650402004100R054F	4	0.5	20	4	100	4
CR650402004100R104F	4	1	20	4	100	4
CR650502005075R054F	5	0.5	20	5	75	4
CR650502005075R104F	5	1	20	5	75	4
CR650502505100R054F	5	0.5	25	5	100	4
CR650502505100R104F	5	1	25	5	100	4
CR650602006075R054F	6	0.5	20	6	75	4
CR650602006075R104F	6	1	20	6	75	4
CR650603006100R054F	6	0.5	30	6	100	4
CR650603006100R104F	6	1	30	6	100	4
CR650802508075R054F	8	0.5	25	8	75	4
CR650802508075R104F	8	1	25	8	75	4
CR650803508100R054F	8	0.5	35	8	100	4
CR650803508100R104F	8	1	35	8	100	4
CR651004010100R054F	10	0.5	40	10	100	4
CR651004010100R104F	10	1	40	10	100	4
CR651204512100R054F	12	0.5	45	12	100	4
CR651204512100R104F	12	1	45	12	100	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y			Y	Y

Y 适合 Suitable

55度4刃钨钢圆鼻铣刀

HRC55 Carbide 4 Flute Standard Length Corner Radius End Mills



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6$ $-0.010 \sim -0.030$; $6 < D \leq 10$ $-0.015 \sim -0.040$; $10 < D \leq 20$ $-0.020 \sim -$

Cutting Edge Design: Corner radius, uneasy to cracking, widely used in high speed cutting

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

刃口倒角，不易崩裂，广泛用于高速加工中

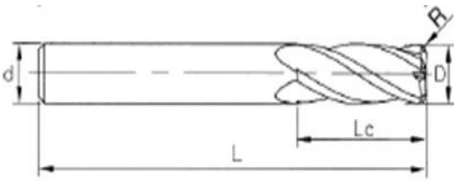
Order No.	Diameter D	R	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
CR550300803050R054F	3	0.5	8	3	50	4
CR550300803050R104F	3	1	8	3	50	4
CR550300804050R054F	3	0.5	8	4	50	4
CR550300804050R104F	3	1	8	4	50	4
CR550401004050R054F	4	0.5	10	4	50	4
CR550401004050R104F	4	1	10	4	50	4
CR550501305050R054F	5	0.5	13	5	50	4
CR550501305050R104F	5	1	13	5	50	4
CR550601506050R054F	6	0.5	15	6	50	4
CR550601506050R104F	6	1	15	6	50	4
CR550802008060R054F	8	0.5	20	8	60	4
CR550802008060R104F	8	1	20	8	60	4
CR550802008060R204F	8	2	20	8	60	4
CR550802008060R304F	8	3	20	8	60	4
CR551002510075R054F	10	0.5	25	10	75	4
CR551002510075R104F	10	1	25	10	75	4
CR551002510075R204F	10	2	25	10	75	4
CR551002510075R304F	10	3	25	10	75	4
CR551203012075R054F	12	0.5	30	12	75	4
CR551203012075R104F	12	1	30	12	75	4
CR551203012075R204F	12	2	30	12	75	4
CR551203012075R304F	12	3	30	12	75	4
CR551403514100R054F	14	0.5	35	14	100	4
CR551404514100R104F	14	1	45	14	100	4
CR551604516100R054F	16	0.5	45	16	100	4
CR551604516100R104F	16	1	45	16	100	4
CR551804518100R054F	18	0.5	45	18	100	4
CR551804518100R104F	18	1	45	18	100	4
CR552004520100R054F	20	0.5	45	20	100	4
CR552004520100R104F	20	1	45	20	100	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

55度4刃长柄钨钢圆鼻铣刀

HRC55 Carbide 4 Flute Long Length Corner Radius End Mills



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6$ $-0.010 \sim -0.030$; $6 < D \leq 10$ $-0.015 \sim -0.040$; $10 < D \leq 20$ $-0.020 \sim$

Cutting Edge Design: Corner radius, uneasy to cracking, widely used in high speed cutting

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

螺旋角度35度，对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

刃口倒角，不易崩裂，广泛用于高速加工中

Order No.	Diameter D	R	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
CR550301203075R054F	3	0.5	12	3	75	4
CR550301203075R104F	3	1	12	3	75	4
CR550301203100R054F	3	0.5	12	3	100	4
CR550301203100R104F	3	1	12	3	100	4
CR550401604075R054F	4	0.5	16	4	75	4
CR550401604075R104F	4	1	16	4	75	4
CR550402004100R054F	4	0.5	20	4	100	4
CR550402004100R104F	4	1	20	4	100	4
CR550502005075R054F	5	0.5	20	5	75	4
CR550502005075R104F	5	1	20	5	75	4
CR550502505100R054F	5	0.5	25	5	100	4
CR550502505100R104F	5	1	25	5	100	4
CR550602006075R054F	6	0.5	20	6	75	4
CR550602006075R104F	6	1	20	6	75	4
CR550603006100R054F	6	0.5	30	6	100	4
CR550603006100R104F	6	1	30	6	100	4
CR550604006150R054F	6	0.5	40	6	150	4
CR550604006150R104F	6	1	40	6	150	4
CR550802508075R054F	8	0.5	25	8	75	4
CR550802508075R104F	8	1	25	8	75	4
CR550803508100R054F	8	0.5	35	8	100	4
CR550803508100R104F	8	1	35	8	100	4
CR550805008150R054F	8	0.5	50	8	150	4
CR550805008150R104F	8	1	50	8	150	4
CR551004010100R054F	10	0.5	40	10	100	4
CR551004010100R104F	10	1	40	10	100	4
CR551005010150R054F	10	0.5	50	10	150	4
CR551005010150R104F	10	1	50	10	150	4
CR551204512100R054F	12	0.5	45	12	100	4
CR551204512100R104F	12	1	45	12	100	4
CR551205512150R054F	12	0.5	55	12	150	4
CR551205512150R104F	12	1	55	12	150	4

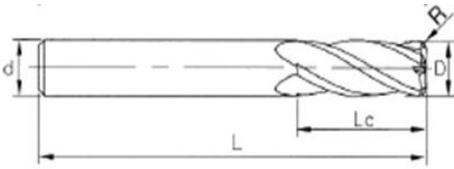
工件材料 Workpiece Material

碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

45度4刃钨钢圆鼻铣刀

HRC45 Carbide 4 Flute Standard Length Corner Radius End Mills



Raw Material: Use YG10X with 10% Co content and 0.8um grain size.

Coating: ALTiN, High aluminum content provides excellent hot hardness and oxidation resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6$ $-0.010 \sim -0.030$; $6 < D \leq 10$ $-0.015 \sim -0.040$; $10 < D \leq 20$ $-0.020 \sim$

Cutting Edge Design: Corner radius, uneasy to cracking, widely used in high speed cutting

采用高硬度的自贡 YG10X，具有良好的耐磨性和抗腐蚀性

TiSiN，含硅，具有极高的表面硬度和极高的热阻

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

刃口倒角，不易崩裂，广泛用于高速加工中

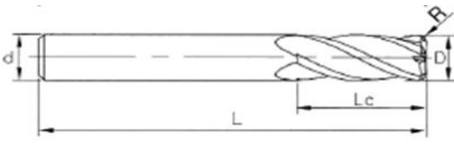
Order No.	Diameter D	R	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
CR450300803050R054F	3	0.5	8	3	50	4
CR450300803050R104F	3	1	8	3	50	4
CR450300804050R054F	3	0.5	8	4	50	4
CR450300804050R104F	3	1	8	4	50	4
CR450401004050R054F	4	0.5	10	4	50	4
CR450401004050R104F	4	1	10	4	50	4
CR450501305050R054F	5	0.5	13	5	50	4
CR450501305050R104F	5	1	13	5	50	4
CR450601506050R054F	6	0.5	15	6	50	4
CR450601506050R104F	6	1	15	6	50	4
CR450802008060R054F	8	0.5	20	8	60	4
CR450802008060R104F	8	1	20	8	60	4
CR450802008060R204F	8	2	20	8	60	4
CR450802008060R304F	8	3	20	8	60	4
CR451002510075R054F	10	0.5	25	10	75	4
CR451002510075R104F	10	1	25	10	75	4
CR451002510075R204F	10	2	25	10	75	4
CR451002510075R304F	10	3	25	10	75	4
CR451203012075R054F	12	0.5	30	12	75	4
CR451203012075R104F	12	1	30	12	75	4
CR451203012075R204F	12	2	30	12	75	4
CR451203012075R304F	12	3	30	12	75	4
CR451403514100R054F	14	0.5	35	14	100	4
CR451404514100R104F	14	1	45	14	100	4
CR451604516100R054F	16	0.5	45	16	100	4
CR451604516100R104F	16	1	45	16	100	4
CR451804518100R054F	18	0.5	45	18	100	4
CR451804518100R104F	18	1	45	18	100	4
CR452004520100R054F	20	0.5	45	20	100	4
CR452004520100R104F	20	1	45	20	100	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				

Y 适合 Suitable

45度4刃长柄钨钢圆鼻铣刀

HRC45 Carbide 4 Flute Long Length Corner Radius End Mills



Raw Material: Use YG10X with 10% Co content and 0.8um grain size.

Coating: AlTiN, High aluminum content provides excellent hot hardness and oxidation resistance.

Tolerance of End Mill Diameter: $1 < D \leq 6$ -0.010 ~ -0.030; $6 < D \leq 10$ -0.015 ~ -0.040; $10 < D \leq 20$ -0.020 ~ -

Cutting Edge Design: Corner radius, uneasy to cracking, widely used in high speed cutting

采用高硬度的自贡 YG10X, 具有良好的耐磨性和抗腐蚀性

TiSiN, 含硅, 具有极高的表面硬度和极高的热阻

螺旋角度35度, 对被加工材料的材质和硬度适应性强, 广泛应用于模具和产品加工, 有较高的性价比

刃口倒角, 不易崩裂, 广泛用于高速加工中

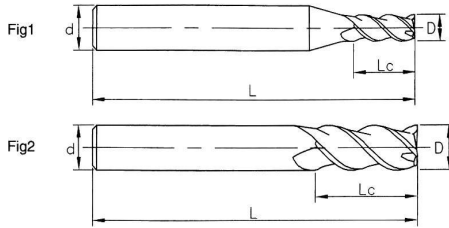
Order No.	Diameter D	R	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
CR450301203075R054F	3	0.5	12	3	75	4
CR450301203075R104F	3	1	12	3	75	4
CR450301203100R054F	3	0.5	12	3	100	4
CR450301203100R104F	3	1	12	3	100	4
CR450401604075R054F	4	0.5	16	4	75	4
CR450401604075R104F	4	1	16	4	75	4
CR450402004100R054F	4	0.5	20	4	100	4
CR450402004100R104F	4	1	20	4	100	4
CR450502005075R054F	5	0.5	20	5	75	4
CR450502005075R104F	5	1	20	5	75	4
CR450502505100R054F	5	0.5	25	5	100	4
CR450502505100R104F	5	1	25	5	100	4
CR450602006075R054F	6	0.5	20	6	75	4
CR450602006075R104F	6	1	20	6	75	4
CR450603006100R054F	6	0.5	30	6	100	4
CR450603006100R104F	6	1	30	6	100	4
CR450604006150R054F	6	0.5	40	6	150	4
CR450604006150R104F	6	1	40	6	150	4
CR450802508075R054F	8	0.5	25	8	75	4
CR450802508075R104F	8	1	25	8	75	4
CR450803508100R054F	8	0.5	35	8	100	4
CR450803508100R104F	8	1	35	8	100	4
CR450805008150R054F	8	0.5	50	8	150	4
CR450805008150R104F	8	1	50	8	150	4
CR451004010100R054F	10	0.5	40	10	100	4
CR451004010100R104F	10	1	40	10	100	4
CR451005010150R054F	10	0.5	50	10	150	4
CR451005010150R104F	10	1	50	10	150	4
CR451204512100R054F	12	0.5	45	12	100	4
CR451205512150R054F	12	0.5	55	12	150	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				

Y 适合 Suitable

55度3刃铝用铣刀

HRC55 Carbide 3 Flute Standard Length End Mills for Aluminum



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Flutes: 3 flutes, effectively mitigate vibration and stable cutting

A Type: Double-edge design provides good smooth finish and is suitable for semi-finish and finish machining.

B Type: Single-edge design, sharp blade, good for chip removal, high cutting speed, widely used in rough machining.

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

双后角设计有效去毛刺，用于工件的半精加工和精加工

单后角设计，刀刃锋利，排屑顺畅，切削速度快，广泛应用于工件粗加工中

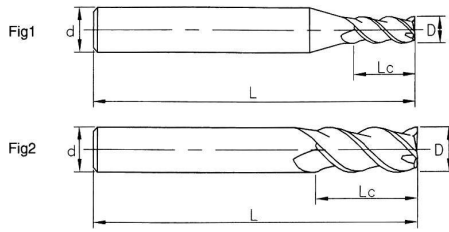
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
AL5503009030503FA	3	9	3	50	3
AL5501003040503FA	1	3	4	50	3
AL5501505040503FA	1.5	5	4	50	3
AL5502006040503FA	2	6	4	50	3
AL5502508040503FA	2.5	8	4	50	3
AL5503009040503FA	3	9	4	50	3
AL5503512040503FA	3.5	12	4	50	3
AL5504012040503FA	4	12	4	50	3
AL5505015050503FA	5	15	5	50	3
AL5502006060503FA	2	6	6	50	3
AL5503009060503FA	3	9	6	50	3
AL5504012060503FA	4	12	6	50	3
AL5505015060503FA	5	15	6	50	3
AL5506018060503FA	6	18	6	50	3
AL5507021080603FA	7	21	8	60	3
AL5508024080603FA	8	24	8	60	3
AL5509027100753FA	9	27	10	75	3
AL5510030100753FA	10	30	10	75	3
AL5511033120753FA	11	33	12	75	3
AL5512036120753FA	12	36	12	75	3
AL5514035140803FA	14	35	14	80	3
AL5514045141003FA	14	45	14	100	3
AL5516045161003FA	16	45	16	100	3
AL5518045181003FA	18	45	18	100	3
AL5520045201003FA	20	45	20	100	3

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
			Y	Y		

Y 适合 Suitable

55 度长柄3 刃铝用铣刀

HRC55 Carbide 3 Flute Long Length End Mills for Aluminum



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Flutes: 3 flutes, effectively mitigate vibration and stable cutting

A Type: Double-edge design provides good smooth finish and is suitable for semi-finish and finish machining.

B Type: Single-edge design, sharp blade, good for chip removal, high cutting speed, widely used in rough machining.

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

双后角设计有效去毛刺，用于工件的半精加工和精加工

单后角设计，刀刃锋利，排屑顺畅，切削速度快，广泛应用于工件粗加工中

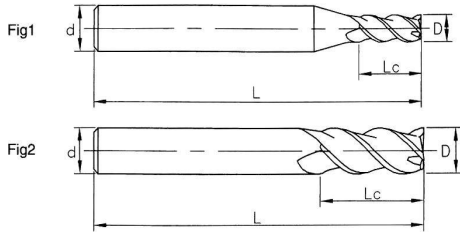
Order No.	Diameter	Cutting Length	Shank Diameter	Overall Length	Flutes
AL5503015030753FA	3	15	3	75	3
AL5503015031003FA	3	15	3	100	3
AL5504020040753FA	4	20	4	75	3
AL5504025051003FA	4	25	5	100	3
AL5505020050753FA	5	20	5	75	3
AL5505025051003FA	5	25	5	100	3
AL5506030060753FA	6	30	6	75	3
AL5506030061003FA	6	30	6	100	3
AL5506040061503FA	6	40	6	150	3
AL5508035080753FA	8	35	8	75	3
AL5508040081003FA	8	40	8	100	3
AL5508050081503FA	8	50	8	150	3
AL5510040101003FA	10	40	10	100	3
AL5510050101503FA	10	50	10	150	3
AL5512045121003FA	12	45	12	100	3
AL5512060121503FA	12	60	12	150	3
AL5514060141503FA	14	60	14	150	3
AL5516060161503FA	16	60	16	150	3
AL5518060181503FA	18	60	18	150	3
AL5520070201503FA	20	70	20	150	3

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
			Y	Y		

Y 适合 Suitable

55 度2 刃铝用铣刀

HRC55 Carbide 2 Flute Standard Length End Mills for Aluminum



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Flutes: 2 flutes, good for chip removal, easy for vertical feed processing, widely used in slot and hole processing

A Type: Double-edge design provides good smooth finish and is suitable for semi-finish and finish machining.

B Type: Single-edge design, sharp blade, good for chip removal, high cutting speed, widely used in rough machining.

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

双后角设计有效去毛刺，用于工件的半精加工和精加工

单后角设计，刀刃锋利，排屑顺畅，切削速度快，广泛应用于工件粗加工中

2 刃排屑顺畅，纵向进给加工容易，广泛用于切槽和孔加工

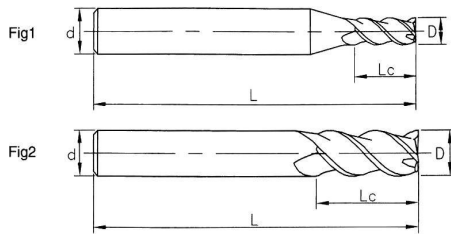
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
AL5503009030502FA	3	9	3	50	2
AL5501003040502FA	1	3	4	50	2
AL5501505040502FA	1.5	5	4	50	2
AL5502006040502FA	2	6	4	50	2
AL5502508040502FA	2.5	8	4	50	2
AL5503009040502FA	3	9	4	50	2
AL5504012040502FA	4	12	4	50	2
AL5505015050502FA	5	15	5	50	2
AL5506018060502FA	6	18	6	50	2
AL5508024080602FA	8	24	8	60	2
AL5510030100752FA	10	30	10	75	2
AL5512036120752FA	12	36	12	75	2
AL5514035140802FA	14	35	14	80	2
AL5514045141002FA	14	45	14	100	2
AL5516045161002FA	16	45	16	100	2
AL5518045181002FA	18	45	18	100	2
AL5520045201002FA	20	45	20	100	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
			Y	Y		

Y 适合 Suitable

45度3刃铝用铣刀

HRC45 Carbide 3 Flute Standard Length End Mills for Aluminum



Raw Material: Use YG10X with 10% Co content and 0.8um grain size.

Flutes: 3 flutes, effectively mitigate vibration and stable cutting

A Type: Double-edge design provides good smooth finish and is suitable for semi-finish and finish machining.

B Type: Single-edge design, sharp blade, good for chip removal, high cutting speed, widely used in rough machining.

采用高硬度的自贡 YG10X，具有良好的耐磨性和抗腐蚀性

双后角设计有效去毛刺，用于工件的半精加工和精加工

单后角设计，刀刃锋利，排屑顺畅，切削速度快，广泛应用于工件粗加工中

Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
AL4503009030503FA	3	9	3	50	3
AL4501003040503FA	1	3	4	50	3
AL4501505040503FA	1.5	5	4	50	3
AL4502006040503FA	2	6	4	50	3
AL4502508040503FA	2.5	8	4	50	3
AL4503009040503FA	3	9	4	50	3
AL4503512040503FA	3.5	12	4	50	3
AL4504012040503FA	4	12	4	50	3
AL4505015050503FA	5	15	5	50	3
AL4502006060503FA	2	6	6	50	3
AL4503009060503FA	3	9	6	50	3
AL4504012060503FA	4	12	6	50	3
AL4505015060503FA	5	15	6	50	3
AL4506018060503FA	6	18	6	50	3
AL4507021080603FA	7	21	8	60	3
AL4508024080603FA	8	24	8	60	3
AL4509027100753FA	9	27	10	75	3
AL4510030100753FA	10	30	10	75	3
AL4511033120753FA	11	33	12	75	3
AL4512036120753FA	12	36	12	75	3
AL4514035140803FA	14	35	14	80	3
AL4514045141003FA	14	45	14	100	3
AL4516045161003FA	16	45	16	100	3
AL4518045181003FA	18	45	18	100	3
AL4520045201003FA	20	45	20	100	3

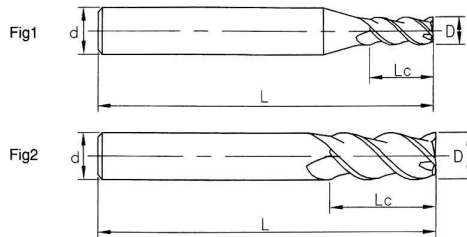
工件材料 Workpiece Material

碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
			Y	Y		

Y 适合 Suitable

45 度 长柄3 刃铝用铣刀

HRC45 Carbide 3 Flute Long Length End Mills for Aluminum



Raw Material: Use YG10X with 10% Co content and 0.8um grain size.

Flutes: 3 flutes, effectively mitigate vibration and stable cutting

A Type: Double-edge design provides good smooth finish and is suitable for semi-finish and finish machining.

B Type: Single-edge design, sharp blade, good for chip removal, high cutting speed, widely used in rough machining.

采用高硬度的自贡 YG10X，具有良好的耐磨性和抗腐蚀性

双后角设计有效去毛刺，用于工件的半精加工和精加工

单后角设计，刀刃锋利，排屑顺畅，切削速度快，广泛应用于工件粗加工中

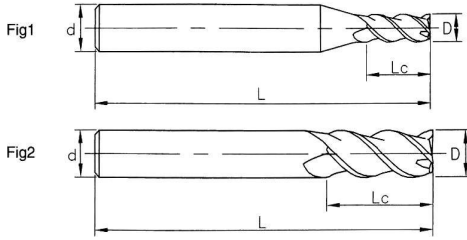
Order No.	Diameter	Cutting Length	Shank Diameter	Overall Length	Flutes
AL4503015030753FA	3	15	3	75	3
AL4503015031003FA	3	15	3	100	3
AL4504020040753FA	4	20	4	75	3
AL4504025051003FA	4	25	5	100	3
AL4505020050753FA	5	20	5	75	3
AL4505025051003FA	5	25	5	100	3
AL4506030060753FA	6	30	6	75	3
AL4506030061003FA	6	30	6	100	3
AL4506040061503FA	6	40	6	150	3
AL4508035080753FA	8	35	8	75	3
AL4508040081003FA	8	40	8	100	3
AL4508050081503FA	8	50	8	150	3
AL4510040101003FA	10	40	10	100	3
AL4510050101503FA	10	50	10	150	3
AL4512045121003FA	12	45	12	100	3
AL4512060121503FA	12	60	12	150	3
AL4514060141503FA	14	60	14	150	3
AL4516060161503FA	16	60	16	150	3
AL4518060181503FA	18	60	18	150	3
AL4520070201503FA	20	70	20	150	3

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
			Y	Y		

Y 适合 Suitable

45度3刃铝用铣刀

HRC45 Carbide 3 Flute Standard Length End Mills for Aluminum



Raw Material: Use YG10X with 10% Co content and 0.8um grain size.

Flutes: 3 flutes, effectively mitigate vibration and stable cutting

A Type: Double-edge design provides good smooth finish and is suitable for semi-finish and finish machining.

B Type: Single-edge design, sharp blade, good for chip removal, high cutting speed, widely used in rough machining.

采用高硬度的自贡 YG10X，具有良好的耐磨性和抗腐蚀性

双后角设计有效去毛刺，用于工件的半精加工和精加工

单后角设计，刀刃锋利，排屑顺畅，切削速度快，广泛应用于工件粗加工中

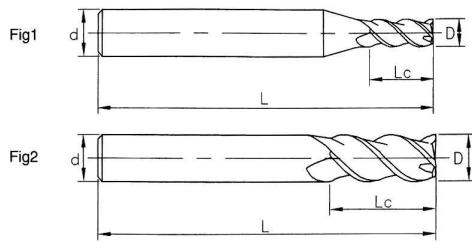
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
AL4503009030503FB	3	9	3	50	3
AL4501003040503FB	1	3	4	50	3
AL4501505040503FB	1.5	5	4	50	3
AL4502006040503FB	2	6	4	50	3
AL4502508040503FB	2.5	8	4	50	3
AL4503009040503FB	3	9	4	50	3
AL4503512040503FB	3.5	12	4	50	3
AL4504012040503FB	4	12	4	50	3
AL4505015050503FB	5	15	5	50	3
AL4505015060503FB	5	15	6	50	3
AL4506018060503FB	6	18	6	50	3
AL4508024080603FB	8	24	8	60	3
AL4510030100753FB	10	30	10	75	3
AL4512036120753FB	12	36	12	75	3
AL4514045141003FB	14	45	14	100	3
AL4516045161003FB	16	45	16	100	3
AL4518045181003FB	18	45	18	100	3
AL4520045201003FB	20	45	20	100	3

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
			Y	Y		

Y 适合 Suitable

45 度2 刃铝用铣刀

HRC45 Carbide 2 Flute Standard Length End Mills for Aluminum



Raw Material: Use YG10X with 10% Co content and 0.8um grain size.

Flutes: 2 flutes, good for chip removal, easy for vertical feed processing, widely used in slot and hole processing

A Type: Double-edge design provides good smooth finish and is suitable for semi-finish and finish machining.

B Type: Single-edge design, sharp blade, good for chip removal, high cutting speed, widely used in rough machining.

采用高硬度的自贡 YG10X，具有良好的耐磨性和抗腐蚀性

双后角设计有效去毛刺，用于工件的半精加工和精加工

单后角设计，刀刃锋利，排屑顺畅，切削速度快，广泛应用于工件粗加工中

2 刃排屑顺畅，纵向进给加工容易，广泛用于切槽和孔加工

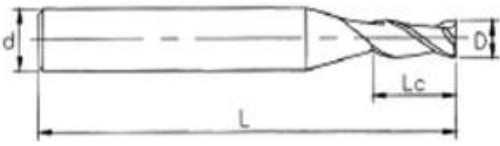
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
AL4503009030502FA	3	9	3	50	2
AL4501003040502FA	1	3	4	50	2
AL4501505040502FA	1.5	5	4	50	2
AL4502006040502FA	2	6	4	50	2
AL4502508040502FA	2.5	8	4	50	2
AL4503009040502FA	3	9	4	50	2
AL4504012040502FA	4	12	4	50	2
AL4505015050502FA	5	15	5	50	2
AL4506018060502FA	6	18	6	50	2
AL4508024080602FA	8	24	8	60	2
AL4510030100752FA	10	30	10	75	2
AL4512036120752FA	12	36	12	75	2
AL4514035140802FA	14	35	14	80	2
AL4514045141002FA	14	45	14	100	2
AL4516045161002FA	16	45	16	100	2
AL4518045181002FA	18	45	18	100	2
AL4520045201002FA	20	45	20	100	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
			Y	Y		

Y 适合 Suitable

55度 2 刃微小径铣刀

HRC55 Carbide 2 Flute Micro End Mill



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance, AlTiN, AlTiSiN is also available

Application: widely used in Machining, aerospace, automobile and other precision manufacturing areas.

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

铣刀直径精度公差：1 < D ≤ 6 -0.010 ~ -0.030; 6 < D ≤ 10 -0.015 ~ -0.040; 10 < D ≤ 20 -0.020 ~ -0.050

Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
ME5500204040502F	0.2	0.4	4	50	2
ME5500306040502F	0.3	0.6	4	50	2
ME5500408040502F	0.4	0.8	4	50	2
ME5500510040502F	0.5	1	4	50	2
ME5500612040502F	0.6	1.2	4	50	2
ME5500714040502F	0.7	1.4	4	50	2
ME5500816040502F	0.8	1.6	4	50	2
ME5500918040502F	0.9	1.8	4	50	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

55度 2 刃微小径球刀

HRC55 Carbide 2 Flute Micro Ball Nose End Mill



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance, AlTiN, AlTiSiN is also available

Application: widely used in Machining, aerospace, automobile and other precision manufacturing areas.

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

铣刀直径精度公差：1 < D ≤ 6 -0.010 ~ -0.030; 6 < D ≤ 10 -0.015 ~ -0.040; 10 < D ≤ 20 -0.020 ~ -0.050

Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
MB5500204040502F	0.2	0.4	4	50	2
MB5500306040502F	0.3	0.6	4	50	2
MB5500408040502F	0.4	0.8	4	50	2
MB5500510040502F	0.5	1	4	50	2
MB5500612040502F	0.6	1.2	4	50	2
MB5500714040502F	0.7	1.4	4	50	2
MB5500816040502F	0.8	1.6	4	50	2
MB5500918040502F	0.9	1.8	4	50	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

55度 4 刃钨钢粗皮铣刀

HRC55 Carbide 4 Flute Roughing End Mill



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance, AlTiN, AlTiSiN is also available

Product Design: Sharp wave and 35 helix angle design improve the chip removal capacity, widely used in slot, profile, rough

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

锋利波纹，35 度螺旋角设计，提高排屑能力，广泛应用于工件槽切屑、侧切屑、粗加工中

Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
RM5506015060504F	6	15	6	50	4
RM5508020080604F	8	20	8	60	4
RM5510025100754F	10	25	10	75	4
RM5512030120754F	12	30	12	75	4
RM5514045141004F	14	45	14	100	4
RM5516045161004F	16	45	16	100	4
RM5518045181004F	18	45	18	100	4
RM5520045201004F	20	45	20	100	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

45度 4 刃钨钢粗皮铣刀

HRC45 Carbide 4 Flute Roughing End Mill



Raw Material: Use YG10X with 10% Co content and 0.8um grain size.

Coating: AlTiN, High aluminum content provides excellent hot hardness and oxidation resistance.

Application: Suitable for roughing milling general steel under hrc 45, cast iron, alloy steel, etc.

采用自贡 YG10X料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

锋利波纹，35 度螺旋角设计，提高排屑能力，广泛应用于工件槽切屑、侧切屑、粗加工中

Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
RM4506015060504F	6	15	6	50	4
RM4508020080604F	8	20	8	60	4
RM4510025100754F	10	25	10	75	4
RM4512030120754F	12	30	12	75	4
RM4514045141004F	14	45	14	100	4
RM4516045161004F	16	45	16	100	4
RM4518045181004F	18	45	18	100	4
RM4520045201004F	20	45	20	100	4

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

55度 3 刃铝用粗皮铣刀

HRC55 Carbide 3 Flute Roughing End Mill for Aluminum



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance, AlTiN, AlTiSiN is also available

Product Design: Sharp wave and 35 helix angle design improve the chip removal capacity, widely used in slot, profile, rough

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

锋利波纹，35 度螺旋角设计，提高排屑能力，广泛应用于工件槽切屑、侧切屑、粗加工中

Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
RA5506018060503F	6	18	6	50	3
RA5508024080603F	8	24	8	60	3
RA5510030100753F	10	30	10	75	3
RA5512036120753F	12	36	12	75	3
RA5514045141003F	14	45	14	100	3
RA5516045161003F	16	45	16	100	3
RA5518045181003F	18	45	18	100	3
RA5520045201003F	20	45	20	100	3

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

45度 3 刃铝用粗皮铣刀

HRC45 Carbide 3 Flute Roughing End Mill for Aluminum



Raw Material: Use YG10X with 10% Co content and 0.8um grain size.

Coating: AlTiN, High aluminum content provides excellent hot hardness and oxidation resistance.

Application: Suitable for roughing milling general steel under hrc 45, cast iron, alloy steel, etc.

采用自贡 YG10X料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

锋利波纹，35 度螺旋角设计，提高排屑能力，广泛应用于工件槽切屑、侧切屑、粗加工中

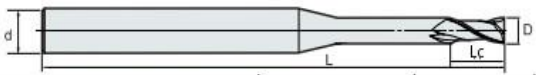
Order No.	Diameter D	Cutting Length Lc	Shank Diameter d	Overall Length L	Flutes
RA4506018060503F	6	18	6	50	3
RA4508024080603F	8	24	8	60	3
RA4510030100753F	10	30	10	75	3
RA4512036120753F	12	36	12	75	3
RA4514045141003F	14	45	14	100	3
RA4516045161003F	16	45	16	100	3
RA4518045181003F	18	45	18	100	3
RA4520045201003F	20	45	20	100	3

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

55 度 两刃平底深沟立铣刀

HRC55 Carbide 2 Flutes Long Neck Short Flutes Square End Mill



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance, AlTiN, AlTiSiN is also available

Application: widely used in Machining, aerospace, automobile and other precision manufacturing areas.

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

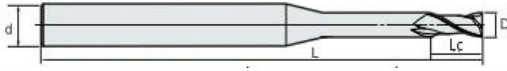
Order No.	Diameter D	Cutting Length Lc	Effective Length	Shank Diameter	Overall Length L	Flutes
0.2*4D*50L-L1	0.2	0.3	1	φ	50	2
0.2*4D*50L-L2	0.2	0.3	2	4	50	2
0.3*4D*50L-L1	0.3	0.6	1	4	50	2
0.3*4D*50L-L2	0.3	0.6	2	4	50	2
0.3*4D*50L-L3	0.3	0.6	3	4	50	2
0.4*4D*50L-L2	0.4	0.6	2	4	50	2
0.4*4D*50L-L3	0.4	0.6	3	4	50	2
0.4*4D*50L-L4	0.4	0.6	4	4	50	2
0.4*4D*50L-L6	0.4	0.6	6	4	50	2
0.5*4D*50L-L2	0.5	0.8	2	4	50	2
0.5*4D*50L-L3	0.5	0.8	3	4	50	2
0.5*4D*50L-L4	0.5	0.8	4	4	50	2
0.5*4D*50L-L5	0.5	0.8	5	4	50	2
0.5*4D*50L-L6	0.5	0.8	6	4	50	2
0.5*4D*50L-L8	0.5	0.8	8	4	50	2
0.6*4D*50L*L2	0.6	1	2	4	50	2
0.6*4D*50L*L3	0.6	1	3	4	50	2
0.6*4D*50L*L4	0.6	1	4	4	50	2
0.6*4D*50L*L5	0.6	1	5	4	50	2
0.6*4D*50L*L6	0.6	1	6	4	50	2
0.6*4D*50L*L8	0.6	1	8	4	50	2
0.7*4D*50L-L3	0.7	1	3	4	50	2
0.7*4D*50L-L4	0.7	1	4	4	50	2
0.7*4D*50L-L5	0.7	1	5	4	50	2
0.7*4D*50L-L6	0.7	1	6	4	50	2
0.7*4D*50L-L8	0.7	1	8	4	50	2
0.7*4D*50L-L10	0.7	1	10	4	50	2
0.8*4D*50L-L3	0.8	1.2	3	4	50	2
0.8*4D*50L-L4	0.8	1.2	4	4	50	2
0.8*4D*50L-L5	0.8	1.2	5	4	50	2
0.8*4D*50L-L6	0.8	1.2	6	4	50	2
0.8*4D*50L-L8	0.8	1.2	8	4	50	2
0.8*4D*50L-L10	0.8	1.2	10	4	50	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

55 度 两刃平底深沟立铣刀

HRC55 Carbide 2 Flutes Long Neck Short Flutes Square End Mill



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance, AlTiN, AlTiSiN is also available

Application: widely used in Machining, aerospace, automobile and other precision manufacturing areas.

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

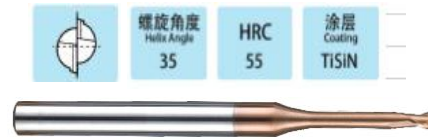
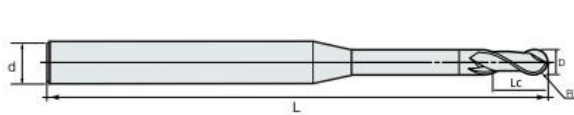
Order No.	Diameter D	Cutting Length Lc	Effective Length	Shank Diameter	Overall Length L	Flutes
1*4D*50L-L5	1	2	5	4	50	2
1*4D*50L-L6	1	2	6	4	50	2
1*4D*50L-L8	1	2	8	4	50	2
1*4D*50L-L10	1	2	10	4	50	2
1*4D*50L-L12	1	2	12	4	50	2
1*4D*50L-L14	1	2	14	4	50	2
1*4D*50L-L16	1	2	16	4	50	2
1*4D*50L-L20	1	2	20	4	50	2
1.5*4D*50L-L6	1.5	3	6	4	50	2
1.5*4D*50L-L8	1.5	3	8	4	50	2
1.5*4D*50L-L10	1.5	3	10	4	50	2
1.5*4D*50L-L12	1.5	3	12	4	50	2
1.5*4D*50L-L14	1.5	3	14	4	50	2
1.5*4D*50L-L16	1.5	3	16	4	50	2
1.5*4D*50L-L20	1.5	3	20	4	50	2
2*4D*50L-L8	2	4	8	4	50	2
2*4D*50L-L10	2	4	10	4	50	2
2*4D*50L-L12	2	4	12	4	50	2
2*4D*50L-L14	2	4	14	4	50	2
2*4D*50L-L16	2	4	16	4	50	2
2*4D*50L-L20	2	4	20	4	50	2
3*4D*50L-L12	3	5	12	4	50	2
3*4D*50L-L16	3	5	16	4	50	2
3*4D*50L-L20	3	5	20	4	50	2
3*6D*50L-L12	3	5	12	6	50	2
3*6D*50L-L16	3	5	16	6	50	2
3*6D*50L-L20	3	5	20	6	50	2
3*6D*75L-L26	3	5	26	6	75	2
3*6D*75L-L30	3	5	30	6	75	2
4*6D*50L-L16	4	6	16	6	50	2
4*6D*50L-L20	4	6	20	6	50	2
4*6D*75L-L26	4	6	26	6	75	2
4*6D*75L-L30	4	6	30	6	75	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel

Y 适合 Suitable

55 度 两刃深沟球头铣刀

HRC55 Carbide 2 Flutes Long Neck Short Flutes Square End Mill



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance, AlTiN, AlTiSiN is also available

Application: widely used in Machining, aerospace, automobile and other precision manufacturing areas.

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

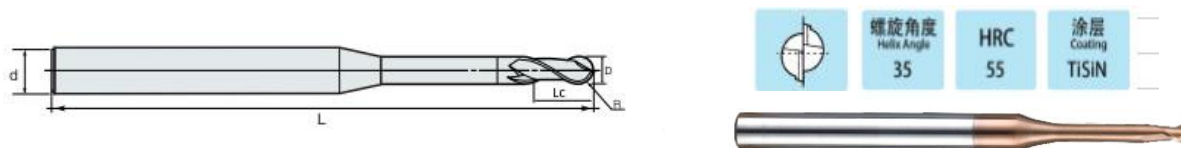
Order No.	Diameter D	Cutting Length Lc	Effective Length	Shank Diameter d	Overall Length L	Flutes
R0.1*4D*50L-L1	R0.1	0.3	1	4	50	2
R0.1*4D*50L-L2	R0.1	0.3	2	4	50	2
R0.15*4D*50L-L1	R0.15	0.6	1	4	50	2
R0.15*4D*50L-L2	R0.15	0.6	2	4	50	2
R0.15*4D*50L-L3	R0.15	0.6	3	4	50	2
R0.2*4D*50L-L2	R0.2	0.6	2	4	50	2
R0.2*4D*50L-L3	R0.2	0.6	3	4	50	2
R0.2*4D*50L-L4	R0.2	0.6	4	4	50	2
R0.2*4D*50L-L6	R0.2	0.6	6	4	50	2
R0.25*4D*50L-L2	R0.25	0.8	2	4	50	2
R0.25*4D*50L-L3	R0.25	0.8	3	4	50	2
R0.25*4D*50L-L4	R0.25	0.8	4	4	50	2
R0.25*4D*50L-L5	R0.25	0.8	5	4	50	2
R0.25*4D*50L-L6	R0.25	0.8	6	4	50	2
R0.25*4D*50L-L8	R0.25	0.8	8	4	50	2
R0.3*4D*50L-L2	R0.3	1	2	4	50	2
R0.3*4D*50L-L3	R0.3	1	3	4	50	2
R0.3*4D*50L-L4	R0.3	1	4	4	50	2
R0.3*4D*50L-L5	R0.3	1	5	4	50	2
R0.3*4D*50L-L6	R0.3	1	6	4	50	2
R0.3*4D*50L-L8	R0.3	1	8	4	50	2
R0.4*4D*50L-L3	R0.4	1.2	3	4	50	2
R0.4*4D*50L-L4	R0.4	1.2	4	4	50	2
R0.4*4D*50L-L5	R0.4	1.2	5	4	50	2
R0.4*4D*50L-L6	R0.4	1.2	6	4	50	2
R0.4*4D*50L-L8	R0.4	1.2	8	4	50	2
R0.4*4D*50L-L10	R0.4	1.2	10	4	50	2
R0.5*4D*50L-L5	R0.5	2	5	4	50	2
R0.5*4D*50L-L6	R0.5	2	6	4	50	2
R0.5*4D*50L-L8	R0.5	2	8	4	50	2
R0.5*4D*50L-L10	R0.5	2	10	4	50	2
R0.5*4D*50L-L12	R0.5	2	12	4	50	2
R0.5*4D*50L-L14	R0.5	2	14	4	50	2
R0.5*4D*50L-L16	R0.5	2	16	4	50	2
R0.5*4D*50L-L20	R0.5	2	20	4	50	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

55 度 两刃深沟球头铣刀

HRC55 Carbide 2 Flutes Long Neck Short Flutes Square End Mill



Raw Material: Use ZK30UF with 10% Co content and 0.6um grain size.

Coating: TiSiN, with very high surface hardness and good wear resistance, AlTiN, AlTiSiN is also available

Application: widely used in Machining, aerospace, automobile and other precision manufacturing areas.

采用自贡 ZK30UF 料，具有高硬度和良好的耐磨度

TiSiN，含硅，具有极高的表面硬度和极高的热阻

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

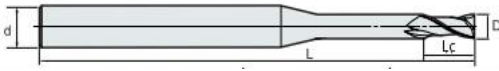
Order No.	Diameter D	Cutting Length Lc	Effective Length	Shank Diameter d	Overall Length L	Flutes
R0.75*4D*50L-L6	R0.75	3	6	4	50	2
R0.75*4D*50L-L8	R0.75	3	8	4	50	2
R0.75*4D*50L-L10	R0.75	3	10	4	50	2
R0.75*4D*50L-L12	R0.75	3	12	4	50	2
R0.75*4D*50L-L14	R0.75	3	14	4	50	2
R0.75*4D*50L-L16	R0.75	3	16	4	50	2
R0.75*4D*50L-L20	R0.75	3	20	4	50	2
R1.0*4D*50L-L8	R1	4	8	4	50	2
R1.0*4D*50L-L10	R1	4	10	4	50	2
R1.0*4D*50L-L12	R1	4	12	4	50	2
R1.0*4D*50L-L14	R1	4	14	4	50	2
R1.0*4D*50L-L16	R1	4	16	4	50	2
R1.0*4D*50L-L20	R1	4	20	4	50	2
R1.5*4D*50L-L12	R1.5	5	12	4	50	2
R1.5*4D*50L-L16	R1.5	5	16	4	50	2
R1.5*4D*50L-L20	R1.5	5	20	4	50	2
R1.5*6D*50L-L12	R1.5	5	12	6	50	2
R1.5*6D*50L-L16	R1.5	5	16	6	50	2
R1.5*6D*50L-L20	R1.5	5	20	6	50	2
R1.5*6D*75L-L26	R1.5	5	26	6	75	2
R1.5*6D*75L-L30	R1.5	5	30	6	75	2
R2.0*6D*50L-L16	R2	6	16	6	50	2
R2.0*6D*50L-L20	R2	6	20	6	50	2
R2.0*6D*75L-L26	R2	6	26	6	75	2
R2.0*6D*75L-L30	R2	6	30	6	75	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y				Y

Y 适合 Suitable

65 度 两刃平底深沟立铣刀

HRC65 Carbide 2 Flutes Long Neck Short Flutes Square End Mill



Raw Material: Use GU25UF with 12% Co content and 0.4um grain size

Coating: AlTiSiN, with the hardness and thermal stability are up to 4000HV and 1200°C, respectively

Application: Suitable for milling stainless steel, hardened steel, titanium alloy, etc.

采用金鹭GU25UF料，具有高强度和高韧性

AlTiSiN，纳米技术涂层，硬度高达4000HV，热稳定性达1200°C

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

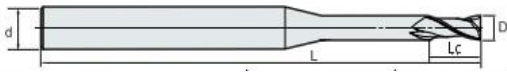
Order No.	Diameter D	Cutting Length Lc	Effective Length	Shank Diameter d	Overall Length L	Flutes
0.2*4D*50L-L1	0.2	0.3	1	4	50	2
0.2*4D*50L-L2	0.2	0.3	2	4	50	2
0.3*4D*50L-L1	0.3	0.6	1	4	50	2
0.3*4D*50L-L2	0.3	0.6	2	4	50	2
0.3*4D*50L-L3	0.3	0.6	3	4	50	2
0.4*4D*50L-L2	0.4	0.6	2	4	50	2
0.4*4D*50L-L3	0.4	0.6	3	4	50	2
0.4*4D*50L-L4	0.4	0.6	4	4	50	2
0.4*4D*50L-L6	0.4	0.6	6	4	50	2
0.5*4D*50L-L2	0.5	0.8	2	4	50	2
0.5*4D*50L-L3	0.5	0.8	3	4	50	2
0.5*4D*50L-L4	0.5	0.8	4	4	50	2
0.5*4D*50L-L5	0.5	0.8	5	4	50	2
0.5*4D*50L-L6	0.5	0.8	6	4	50	2
0.5*4D*50L-L8	0.5	0.8	8	4	50	2
0.6*4D*50L*L2	0.6	1	2	4	50	2
0.6*4D*50L*L3	0.6	1	3	4	50	2
0.6*4D*50L*L4	0.6	1	4	4	50	2
0.6*4D*50L*L5	0.6	1	5	4	50	2
0.6*4D*50L*L6	0.6	1	6	4	50	2
0.6*4D*50L*L8	0.6	1	8	4	50	2
0.7*4D*50L-L3	0.7	1	3	4	50	2
0.7*4D*50L-L4	0.7	1	4	4	50	2
0.7*4D*50L-L5	0.7	1	5	4	50	2
0.7*4D*50L-L6	0.7	1	6	4	50	2
0.7*4D*50L-L8	0.7	1	8	4	50	2
0.7*4D*50L-L10	0.7	1	10	4	50	2
0.8*4D*50L-L3	0.8	1.2	3	4	50	2
0.8*4D*50L-L4	0.8	1.2	4	4	50	2
0.8*4D*50L-L5	0.8	1.2	5	4	50	2
0.8*4D*50L-L6	0.8	1.2	6	4	50	2
0.8*4D*50L-L8	0.8	1.2	8	4	50	2
0.8*4D*50L-L10	0.8	1.2	10	4	50	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y			Y	Y

Y 适合 Suitable

65 度 两刃平底深沟立铣刀

HRC65 Carbide 2 Flutes Long Neck Short Flutes Square End Mill



Raw Material: Use GU25UF with 12% Co content and 0.4um grain size

Coating: AlTiSiN, with the hardness and thermal stability are up to 4000HV and 1200°C, respectively

Application: Suitable for milling stainless steel, hardened steel, titanium alloy, etc.

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AlTiSiN，纳米技术涂层，硬度高达4000HV，热稳定性达1200°C

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

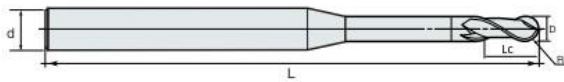
Order No.	Diameter D	Cutting Length Lc	Effective Length	Shank Diameter	Overall Length L	Flutes
1*4D*50L-L5	1	2	5	φ	50	2
1*4D*50L-L6	1	2	6	4	50	2
1*4D*50L-L8	1	2	8	4	50	2
1*4D*50L-L10	1	2	10	4	50	2
1*4D*50L-L12	1	2	12	4	50	2
1*4D*50L-L14	1	2	14	4	50	2
1*4D*50L-L16	1	2	16	4	50	2
1*4D*50L-L20	1	2	20	4	50	2
1.5*4D*50L-L6	1.5	3	6	4	50	2
1.5*4D*50L-L8	1.5	3	8	4	50	2
1.5*4D*50L-L10	1.5	3	10	4	50	2
1.5*4D*50L-L12	1.5	3	12	4	50	2
1.5*4D*50L-L14	1.5	3	14	4	50	2
1.5*4D*50L-L16	1.5	3	16	4	50	2
1.5*4D*50L-L20	1.5	3	20	4	50	2
2*4D*50L-L8	2	4	8	4	50	2
2*4D*50L-L10	2	4	10	4	50	2
2*4D*50L-L12	2	4	12	4	50	2
2*4D*50L-L14	2	4	14	4	50	2
2*4D*50L-L16	2	4	16	4	50	2
2*4D*50L-L20	2	4	20	4	50	2
3*4D*50L-L12	3	5	12	4	50	2
3*4D*50L-L16	3	5	16	4	50	2
3*4D*50L-L20	3	5	20	4	50	2
3*6D*50L-L12	3	5	12	6	50	2
3*6D*50L-L16	3	5	16	6	50	2
3*6D*50L-L20	3	5	20	6	50	2
3*6D*75L-L26	3	5	26	6	75	2
3*6D*75L-L30	3	5	30	6	75	2
4*6D*50L-L16	4	6	16	6	50	2
4*6D*50L-L20	4	6	20	6	50	2
4*6D*75L-L26	4	6	26	6	75	2
4*6D*75L-L30	4	6	30	6	75	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y			Y	Y

Y 适合 Suitable

65 度 两刃深沟球头铣刀

HRC65 Carbide 2 Flutes Long Neck Short Flutes Square End Mill



Raw Material: Use GU25UF with 12% Co content and 0.4um grain size

Coating: AITiSiN, with the hardness and thermal stability are up to 4000HV and 1200°C, respectively

Application: Suitable for milling stainless steel, hardened steel, titanium alloy, etc.

采用金鹭GU25UF料, 具有高强度和高韧性

AITiSiN, 纳米技术涂层, 硬度高达4000HV, 热稳定性达1200°C

螺旋角度35度, 对被加工材料的材质和硬度适应性强, 广泛应用于模具和产品加工, 有较高的性价比

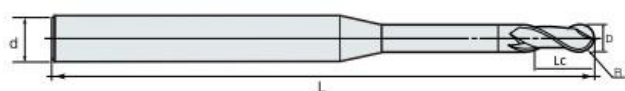
Order No.	Diameter D	Cutting Length Lc	Effective Length	Shank Diameter d	Overall Length L	Flutes
R0.1*4D*50L-L1	R0.1	0.3	1	4	50	2
R0.1*4D*50L-L2	R0.1	0.3	2	4	50	2
R0.15*4D*50L-L1	R0.15	0.6	1	4	50	2
R0.15*4D*50L-L2	R0.15	0.6	2	4	50	2
R0.15*4D*50L-L3	R0.15	0.6	3	4	50	2
R0.2*4D*50L-L2	R0.2	0.6	2	4	50	2
R0.2*4D*50L-L3	R0.2	0.6	3	4	50	2
R0.2*4D*50L-L4	R0.2	0.6	4	4	50	2
R0.2*4D*50L-L6	R0.2	0.6	6	4	50	2
R0.25*4D*50L-L2	R0.25	0.8	2	4	50	2
R0.25*4D*50L-L3	R0.25	0.8	3	4	50	2
R0.25*4D*50L-L4	R0.25	0.8	4	4	50	2
R0.25*4D*50L-L5	R0.25	0.8	5	4	50	2
R0.25*4D*50L-L6	R0.25	0.8	6	4	50	2
R0.25*4D*50L-L8	R0.25	0.8	8	4	50	2
R0.3*4D*50L-L2	R0.3	1	2	4	50	2
R0.3*4D*50L-L3	R0.3	1	3	4	50	2
R0.3*4D*50L-L4	R0.3	1	4	4	50	2
R0.3*4D*50L-L5	R0.3	1	5	4	50	2
R0.3*4D*50L-L6	R0.3	1	6	4	50	2
R0.3*4D*50L-L8	R0.3	1	8	4	50	2
R0.4*4D*50L-L3	R0.4	1.2	3	4	50	2
R0.4*4D*50L-L4	R0.4	1.2	4	4	50	2
R0.4*4D*50L-L5	R0.4	1.2	5	4	50	2
R0.4*4D*50L-L6	R0.4	1.2	6	4	50	2
R0.4*4D*50L-L8	R0.4	1.2	8	4	50	2
R0.4*4D*50L-L10	R0.4	1.2	10	4	50	2
R0.5*4D*50L-L5	R0.5	2	5	4	50	2
R0.5*4D*50L-L6	R0.5	2	6	4	50	2
R0.5*4D*50L-L8	R0.5	2	8	4	50	2
R0.5*4D*50L-L10	R0.5	2	10	4	50	2
R0.5*4D*50L-L12	R0.5	2	12	4	50	2
R0.5*4D*50L-L14	R0.5	2	14	4	50	2
R0.5*4D*50L-L16	R0.5	2	16	4	50	2
R0.5*4D*50L-L20	R0.5	2	20	4	50	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y			Y	Y

Y 适合 Suitable

65 度 两刃深沟球头铣刀

HRC65 Carbide 2 Flutes Long Neck Short Flutes Square End Mill



Raw Material: Use GU25UF with 12% Co content and 0.4um grain size

Coating: AlTiSiN, with the hardness and thermal stability are up to 4000HV and 1200°C, respectively

Application: Suitable for milling stainless steel, hardened steel, titanium alloy, etc.

采用金鹭GU25UF料, 具有高强度和高韧性

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螺旋角度35度, 对被加工材料的材质和硬度适应性强, 广泛应用于模具和产品加工, 有较高的性价比

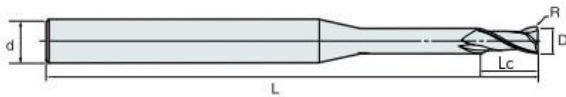
Order No.	Diameter D	Cutting Length Lc	Effective Length	Shank Diameter d	Overall Length L	Flutes
R0.75*4D*50L-L6	R0.75	3	6	4	50	2
R0.75*4D*50L-L8	R0.75	3	8	4	50	2
R0.75*4D*50L-L10	R0.75	3	10	4	50	2
R0.75*4D*50L-L12	R0.75	3	12	4	50	2
R0.75*4D*50L-L14	R0.75	3	14	4	50	2
R0.75*4D*50L-L16	R0.75	3	16	4	50	2
R0.75*4D*50L-L20	R0.75	3	20	4	50	2
R1.0*4D*50L-L8	R1	4	8	4	50	2
R1.0*4D*50L-L10	R1	4	10	4	50	2
R1.0*4D*50L-L12	R1	4	12	4	50	2
R1.0*4D*50L-L14	R1	4	14	4	50	2
R1.0*4D*50L-L16	R1	4	16	4	50	2
R1.0*4D*50L-L20	R1	4	20	4	50	2
R1.5*4D*50L-L12	R1.5	5	12	4	50	2
R1.5*4D*50L-L16	R1.5	5	16	4	50	2
R1.5*4D*50L-L20	R1.5	5	20	4	50	2
R1.5*6D*50L-L12	R1.5	5	12	6	50	2
R1.5*6D*50L-L16	R1.5	5	16	6	50	2
R1.5*6D*50L-L20	R1.5	5	20	6	50	2
R1.5*6D*75L-L26	R1.5	5	26	6	75	2
R1.5*6D*75L-L30	R1.5	5	30	6	75	2
R2.0*6D*50L-L16	R2	6	16	6	50	2
R2.0*6D*50L-L20	R2	6	20	6	50	2
R2.0*6D*75L-L26	R2	6	26	6	75	2
R2.0*6D*75L-L30	R2	6	30	6	75	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y			Y	Y

Y 适合 Suitable

65 度 两刃深沟圆鼻铣刀

HRC65 Carbide 2 Flutes Long Neck Short Flutes Square End Mill



Raw Material: Use GU25UF with 12% Co content and 0.4um grain size

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Application: Suitable for milling stainless steel, hardened steel, titanium alloy, etc.

采用金鹭GU25UF料，具有高强度和高韧性

AlTiSiN，纳米技术涂层，硬度高达4000HV，热稳定性达1200°C

螺旋角度35度,对被加工材料的材质和硬度适应性强，广泛应用于模具和产品加工，有较高的性价比

Order No.	Diameter D	Cutting Length Lc	Effective Length	Shank Diameter	Overall Length L	Flutes
1R0.1*4D*50L-L4	1	2	4	φ	50	2
1R0.1*4D*50L-L6	1	2	6	4	50	2
1R0.1*4D*50L-L8	1	2	8	4	50	2
1R0.2*4D*50L-L4	1	2	4	4	50	2
1R0.2*4D*50L-L6	1	2	6	4	50	2
1R0.2*4D*50L-L8	1	2	8	4	50	2
1R0.2*4D*50L-L10	1	2	10	4	50	2
1.5R0.1*4D*50L-L6	1.5	3	6	4	50	2
1.5R0.1*4D*50L-L8	1.5	3	8	4	50	2
1.5R0.1*4D*50L-L10	1.5	3	10	4	50	2
1.5R0.2*4D*50L-L6	1.5	3	6	4	50	2
1.5R0.2*4D*50L-L8	1.5	3	8	4	50	2
1.5R0.2*4D*50L-L10	1.5	3	10	4	50	2
1.5R0.2*4D*50L-L12	1.5	3	12	4	50	2
2R0.1*4D*50L-L8	2	4	8	4	50	2
2R0.1*4D*50L-L10	2	4	10	4	50	2
2R0.1*4D*50L-L12	2	4	12	4	50	2
2R0.1*4D*50L-L16	2	4	16	4	50	2
2R0.2*4D*50L-L8	2	4	8	4	50	2
2R0.2*4D*50L-L10	2	4	10	4	50	2
2R0.2*4D*50L-L12	2	4	12	4	50	2
2R0.2*4D*50L-L16	2	4	16	4	50	2
3R0.2*4D*50L-L12	3	6	12	4	50	2
3R0.2*4D*50L-L16	3	6	16	4	50	2
3R0.2*4D*50L-L20	3	6	20	4	50	2
3R0.5*4D*50L-L12	3	5	12	4	50	2
3R0.5*4D*50L-L16	3	5	16	4	50	2
3R0.5*4D*50L-L20	3	5	20	4	50	2
3R0.2*6D*50L-L16	3	5	16	6	50	2
3R0.2*6D*50L-L20	3	5	20	6	50	2
3R0.5*6D*50L-L16	3	5	16	6	50	2
3R0.5*6D*50L-L20	3	5	20	6	50	2
3R0.5*6D*75L-L26	3	5	26	6	75	2
3R0.5*6D*75L-L30	3	5	30	6	75	2
4R0.2*6D*50L-L16	4	6	16	6	50	2
4R0.2*6D*50L-L20	4	6	20	6	50	2
4R0.5*6D*50L-L16	4	6	16	6	50	2
4R0.5*6D*50L-L20	4	6	20	6	50	2
4R0.5*6D*75L-L26	4	6	26	6	75	2
4R0.5*6D*75L-L30	4	6	30	6	75	2

工件材料 Workpiece Material						
碳钢 Carbon Steel	合金钢 Alloy Steel	铸铁 Cast Iron	铝合金 Aluminum Alloy	铜合金 Copper Alloy	不锈钢 Stainless Steel	高硬钢 Hardened Steel
Y	Y	Y			Y	Y

Y 适合 Suitable

精磨圆棒

Grinding Carbide Rods



Tolerance: h6

Grade	Content of Cobalt Co %	Grain Size μm	Density g/cm^3	Hardness HRA	TRS N/mm^2
YG10X	10	0.8	14.6	91.5	3800
ZK30UF	10	0.6	14.5	92	4200
GU25UF	12	0.4	14.3	92.5	4300

Recommended Usage

- YG10X** Use widely, with good hot hardness. Suitable for milling and drilling general steel under 45 HRC and Aluminum, etc at a low cutting speed. Recommend use this grade to make the twist drills, end mills, etc.
- ZK30UF** Suitable for milling and drilling general steel under HRC 55, cast iron, stainless steel, aluminum alloy, etc. Recommend to make the drills, milling cutters, reamers and taps.
- GU25UF** Suitable for milling titanium alloy, hardened steel, refractory alloy under HRC 62. Recommend to make end mills with high cutting speed and reamer.

Order No.	Diameter D	Overall Length L	Order No.	Diameter D	Overall Length L
FG02100	2	100	FG16100	16	100
FG03100	3	100	FG18100	18	100
FG04100	4	100	FG20100	20	100
FG05100	5	100	FG06150	6	150
FG06100	6	100	FG08150	8	150
FG07100	7	100	FG10150	10	150
FG08100	8	100	FG12150	12	150
FG09100	9	100	FG14150	14	150
FG10100	10	100	FG16150	16	150
FG12100	12	100	FG18150	18	150

毛坯圆棒

BLANK CEMENTED CARBIDE RODS



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Grade	Content of Cobalt Co %	Grain Size μm	Density g/cm^3	Hardness HRA	TRS N/mm^2
YG10X	10	0.8	14.6	91.5	3800
ZK30UF	10	0.6	14.5	92	4200
GU25UF	12	0.4	14.3	92.5	4300

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