

- 高硬度钢 (HRC62~) 预硬钢类、石墨类、精密加工用铣刀片
- TISIN-S涂层处理刃部, 有卓越的耐磨性。
- 专业的螺旋角设计提高了切削力能力。
- 专业的技术及刃部设计, 使刃口崩损最小化。
- 采用高抗折力、超微粒子超硬合金 (0.3µm) 材料, 刃部损坏最小化。

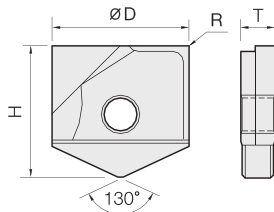
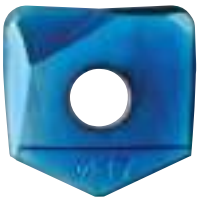
Ball Insert for hardened steel (~HRC62), pre-hardened and graphite materials.

- Optimum for wear resistance by TISIN-S coating.
- Maximize cutting force by applying the new helix edge design.
- Designed for minimizing edge chipping by ball shape.
- Minimize fracturing by ultra fine(0.3 µm) WC grade.

5 - 6.5R 8 - 15R ::10- ::13 ::16- ::30 5 - 15R 374P

单位: mm

Order Number	刃径 Diameter R · D	高度 Height H	厚度 Thickness T	Order Number	刃径 Diameter R · D	高度 Height H	厚度 Thickness T
2HHINB 100	5R X 10	12.1	2.7	2HHINB 210	10.5R X 21	20.9	5.2
2HHINB 110	5.5R X 11	12.6	2.7	2HHINB 250	12.5R X 25	24.1	6.2
2HHINB 120	6R X 12	14.6	3.2	2HHINB 260	13R X 26	24.6	6.2
2HHINB 130	6.5R X 13	15.1	3.2	2HHINB 300	15R X 30	29.1	7.2
2HHINB 160	8R X 16	16.5	4.2				
2HHINB 170	8.5R X 17	17	4.2				
2HHINB 200	10R X 20	20.4	5.2				



- 高硬度钢 (HRC62~) 预硬钢类、石墨类、精密加工用铣刀片
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Ball Insert for hardened steel (~HRC62), pre-hardened and graphite materials.

- Optimum for wear resistance by TISIN-S coating.
- Maximize cutting force by applying the new helix edge design.
- Designed for minimizing edge chipping by ball shape.
- Minimize fracturing by ultra fine(0.3 µm) WC grade.

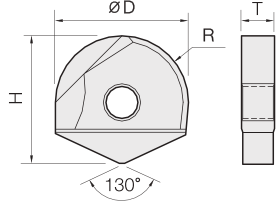
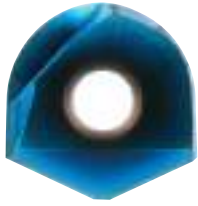
0.5 - 2R ::10- ::13 ::16- ::30 ::10- ::30 374P

单位: mm

Order Number	刃径 Diameter D · R	高度 Height H	厚度 Thickness T	Order Number	刃径 Diameter D · R	高度 Height H	厚度 Thickness T
2HHINC 100 005	10 X R0.5	12.1	2.7	2HHINC 200 005	20 X R0.5	20.4	5.2
2HHINC 100 010	10 X R1	12.1	2.7	2HHINC 200 010	20 X R1	20.4	5.2
2HHINC 110 005	11 X R0.5	12.6	2.7	2HHINC 200 020	20 X R2	20.4	5.2
2HHINC 110 010	11 X R1	12.6	2.7	2HHINC 210 005	21 X R0.5	20.9	5.2
2HHINC 120 005	12 X R0.5	14.6	3.2	2HHINC 210 010	21 X R1	20.9	5.2
2HHINC 120 010	12 X R1	14.6	3.2	2HHINC 210 020	21 X R2	20.9	5.2
2HHINC 120 020	12 X R2	14.6	3.2	2HHINC 250 005	25 X R0.5	24.1	6.2
2HHINC 130 005	13 X R0.5	15.1	3.2	2HHINC 250 010	25 X R1	24.1	6.2
2HHINC 130 010	13 X R1	15.1	3.2	2HHINC 250 020	25 X R2	24.1	6.2
2HHINC 130 020	13 X R2	15.1	3.2	2HHINC 260 005	26 X R0.5	24.6	6.2
2HHINC 160 005	16 X R0.5	16.5	4.2	2HHINC 260 010	26 X R1	24.6	6.2
2HHINC 160 010	16 X R1	16.5	4.2	2HHINC 260 020	26 X R2	24.6	6.2
2HHINC 160 020	16 X R2	16.5	4.2	2HHINC 300 005	30 X R0.5	29.1	7.2
2HHINC 170 005	17 X R0.5	17	4.2	2HHINC 300 010	30 X R1	29.1	7.2
2HHINC 170 010	17 X R1	17	4.2	2HHINC 300 020	30 X R2	29.1	7.2
2HHINC 170 020	17 X R2	17	4.2				

INSERT

JJ系列硬质合金 2刃 高硬度加工用 球头铣刀片



- 高硬度钢 (HRC62~) 预硬钢类、石墨类、精密加工用铣刀片
- TISIN-S涂层处理刃部, 有卓越的耐磨性。
- 刀口特殊设计减少崩损发生。
- 采用高抗折力、超微粒子超硬合金 (0.3 μ m) 材料, 刃部损坏最小化。

• Ball Insert for hardened steel (~HRc62), pre-hardened and graphite materials.

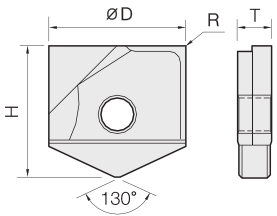
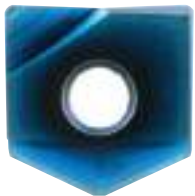
- Optimum for wear resistance by TISIN-S coating.
- Designed for minimizing edge chipping by ball shape.
- Minimize fracturing by ultra fine(0.3 μ m) WC grade.



单位: mm

Order Number	刃径 Diameter R · D	高度 Height H	厚度 Thickness T	Order Number	刃径 Diameter R · D	高度 Height H	厚度 Thickness T
2JJINB 100	5R X 10	12.1	2.7	2JJINB 210	10.5R X 21	20.9	5.2
2JJINB 110	5.5R X 11	12.6	2.7	2JJINB 250	12.5R X 25	24.1	6.2
2JJINB 120	6R X 12	14.6	3.2	2JJINB 260	13R X 26	24.6	6.2
2JJINB 130	6.5R X 13	15.1	3.2	2JJINB 300	15R X 30	29.1	7.2
2JJINB 160	8R X 16	16.5	4.2				
2JJINB 170	8.5R X 17	17	4.2				
2JJINB 200	10R X 20	20.4	5.2				

JJ系列硬质合金 2刃 高硬度加工用 圆鼻铣刀片



- 高硬度钢 (HRC62~) 预硬钢类、石墨类精密加工用铣刀片
- TISIN-S涂层处理刃部, 有卓越的耐磨性。
- R角特殊设计减少崩损发生。
- 采用高抗折力、超微粒子超硬合金 (0.3 μ m) 材料, 刃部损坏最小化。

• Ball Insert for hardened steel (~HRc62), pre-hardened and graphite materials.

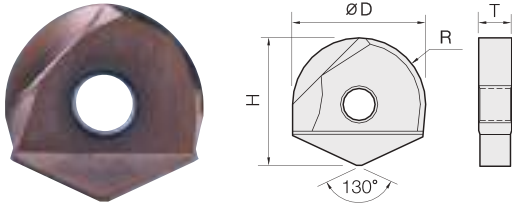
- Optimum for wear resistance by TISIN-S coating.
- Designed for minimizing edge chipping by ball shape.
- Minimize fracturing by ultra fine(0.3 μ m) WC grade.



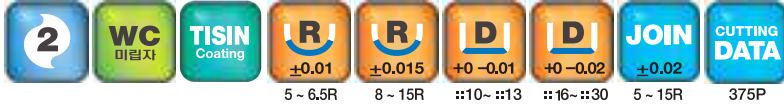
单位: mm

Order Number	刃径 Diameter D · R	高度 Height H	厚度 Thickness T	Order Number	刃径 Diameter D · R	高度 Height H	厚度 Thickness T
2JJINC 100 005	10 X R0.5	12.1	2.7	2JJINC 200 005	20 X R0.5	20.4	5.2
2JJINC 100 010	10 X R1	12.1	2.7	2JJINC 200 010	20 X R1	20.4	5.2
2JJINC 110 005	11 X R0.5	12.6	2.7	2JJINC 200 020	20 X R2	20.4	5.2
2JJINC 110 010	11 X R1	12.6	2.7	2JJINC 210 005	21 X R0.5	20.9	5.2
2JJINC 120 005	12 X R0.5	14.6	3.2	2JJINC 210 010	21 X R1	20.9	5.2
2JJINC 120 010	12 X R1	14.6	3.2	2JJINC 210 020	21 X R2	20.9	5.2
2JJINC 120 020	12 X R2	14.6	3.2	2JJINC 250 005	25 X R0.5	24.1	6.2
2JJINC 130 005	13 X R0.5	15.1	3.2	2JJINC 250 010	25 X R1	24.1	6.2
2JJINC 130 010	13 X R1	15.1	3.2	2JJINC 250 020	25 X R2	24.1	6.2
2JJINC 130 020	13 X R2	15.1	3.2	2JJINC 260 005	26 X R0.5	24.6	6.2
2JJINC 160 005	16 X R0.5	16.5	4.2	2JJINC 260 010	26 X R1	24.6	6.2
2JJINC 160 010	16 X R1	16.5	4.2	2JJINC 260 020	26 X R2	24.6	6.2
2JJINC 160 020	16 X R2	16.5	4.2	2JJINC 300 005	30 X R0.5	29.1	7.2
2JJINC 170 005	17 X R0.5	17	4.2	2JJINC 300 010	30 X R1	29.1	7.2
2JJINC 170 010	17 X R1	17	4.2	2JJINC 300 020	30 X R2	29.1	7.2
2JJINC 170 020	17 X R2	17	4.2				

硬质合金 2刃 通用球头铣刀片



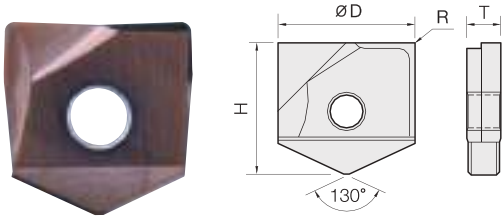
- 高硬度钢 (HRC52~) 预硬钢类、石墨类、精密加工用铣刀片
- TISIN-S涂层处理刃部, 有卓越的耐磨性。
- 专业的螺旋角设计提高了切削力能力。
- 采用高抗折力、超微粒子超硬合金 (0.3µm) 材料, 刃部损坏最小化。
- **Ball Insert for hardened steel (~HRC52), pre-hardened and graphite materials.**
- Designed for minimizing edge chipping by TISIN coating.
- Maximize cutting force by applying the new helix edge design.
- Minimize fracturing by high TRS fine WC grade.



Order Number	刃径 Diameter R · D	高度 Height H	厚度 Thickness T	Order Number	刃径 Diameter R · D	高度 Height H	厚度 Thickness T
2GINB 100	5R X 10	12.1	2.7	2GINB 210	10.5R X 21	20.9	5.2
2GINB 110	5.5R X 11	12.6	2.7	2GINB 250	12.5R X 25	24.1	6.2
2GINB 120	6R X 12	14.6	3.2	2GINB 260	13R X 26	24.6	6.2
2GINB 130	6.5R X 13	15.1	3.2	2GINB 300	15R X 30	29.1	7.2
2GINB 160	8R X 16	16.5	4.2				
2GINB 170	8.5R X 17	17	4.2				
2GINB 200	10R X 20	20.4	5.2				

单位: mm

硬质合金 2刃 通用圆鼻铣刀片

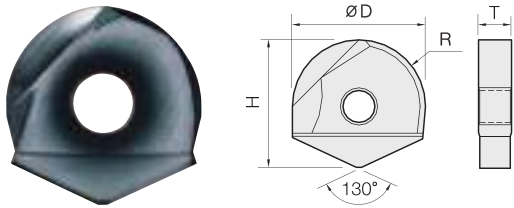


- 高硬度钢 (HRC52~) 预硬钢类、石墨类、精密加工用铣刀片
- TISIN-S涂层处理刃部, 有卓越的耐磨性。
- 专业的螺旋角设计提高了切削力能力。
- 采用高抗折力、超微粒子超硬合金 (0.3µm) 材料, 刃部损坏最小化。
- **Ball Insert for hardened steel (~HRC52), pre-hardened and graphite materials.**
- Designed for minimizing edge chipping by TISIN coating.
- Maximize cutting force by applying the new helix edge design.
- Minimize fracturing by high TRS fine WC grade.



Order Number	刃径 Diameter D · R	高度 Height H	厚度 Thickness T	Order Number	刃径 Diameter D · R	高度 Height H	厚度 Thickness T
2GINC 100 005	10 X R0.5	12.1	2.7	2GINC 200 005	20 X R0.5	20.4	5.2
2GINC 100 010	10 X R1	12.1	2.7	2GINC 200 010	20 X R1	20.4	5.2
2GINC 110 005	11 X R0.5	12.6	2.7	2GINC 200 020	20 X R2	20.4	5.2
2GINC 110 010	11 X R1	12.6	2.7	2GINC 210 005	21 X R0.5	20.9	5.2
2GINC 120 005	12 X R0.5	14.6	3.2	2GINC 210 010	21 X R1	20.9	5.2
2GINC 120 010	12 X R1	14.6	3.2	2GINC 210 020	21 X R2	20.9	5.2
2GINC 120 020	12 X R2	14.6	3.2	2GINC 250 005	25 X R0.5	24.1	6.2
2GINC 130 005	13 X R0.5	15.1	3.2	2GINC 250 010	25 X R1	24.1	6.2
2GINC 130 010	13 X R1	15.1	3.2	2GINC 250 020	25 X R2	24.1	6.2
2GINC 130 020	13 X R2	15.1	3.2	2GINC 260 005	26 X R0.5	24.6	6.2
2GINC 160 005	16 X R0.5	16.5	4.2	2GINC 260 010	26 X R1	24.6	6.2
2GINC 160 010	16 X R1	16.5	4.2	2GINC 260 020	26 X R2	24.6	6.2
2GINC 160 020	16 X R2	16.5	4.2	2GINC 300 005	30 X R0.5	29.1	7.2
2GINC 170 005	17 X R0.5	17	4.2	2GINC 300 010	30 X R1	29.1	7.2
2GINC 170 010	17 X R1	17	4.2	2GINC 300 020	30 X R2	29.1	7.2
2GINC 170 020	17 X R2	17	4.2				

单位: mm

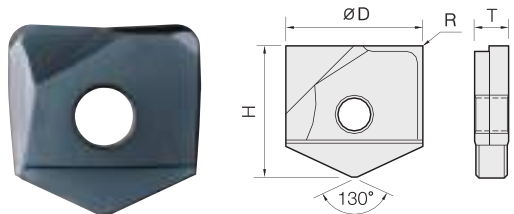


- 石墨加工专用铣刀片
- 采用CVD纯金刚石涂层体现卓越的耐磨性。
- 专业的螺旋角设计提高了切削力。
- **Insert for graphite milling**
- Excellent wear resistance by applying qualified CVD diamond coating.
- Maximize cutting force by applying the new helix edge design.

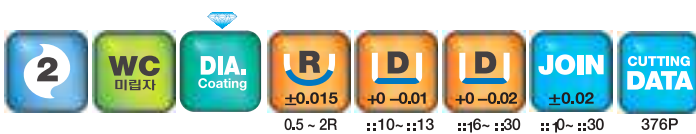


单位：mm

Order Number	刃径 Diameter R · D	高度 Height H	厚度 Thickness T	Order Number	刃径 Diameter R · D	高度 Height H	厚度 Thickness T
2DINB 100	5R X 10	12.1	2.7	2DINB 210	10.5R X 21	20.9	5.2
2DINB 110	5.5R X 11	12.6	2.7	2DINB 250	12.5R X 25	24.1	6.2
2DINB 120	6R X 12	14.6	3.2	2DINB 260	13R X 26	24.6	6.2
2DINB 130	6.5R X 13	15.1	3.2	2DINB 300	15R X 30	29.1	7.2
2DINB 160	8R X 16	16.5	4.2				
2DINB 170	8.5R X 17	17	4.2				
2DINB 200	10R X 20	20.4	5.2				



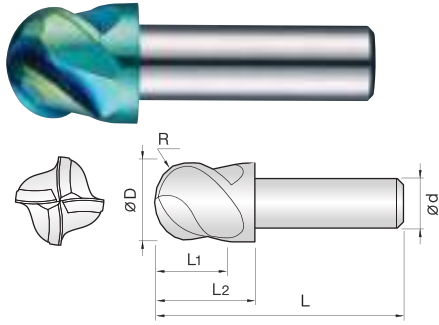
- 石墨加工专用铣刀片
- 采用CVD纯金刚石涂层体现卓越的耐磨性。
- 专业的螺旋角设计提高了切削力。
- **Insert for graphite milling**
- Excellent wear resistance by applying qualified CVD diamond coating.
- Maximize cutting force by applying the new helix edge design.



单位：mm

Order Number	刃径 Diameter D · R	高度 Height H	厚度 Thickness T	Order Number	刃径 Diameter D · R	高度 Height H	厚度 Thickness T
2DINC 100 005	10 X R0.5	12.1	2.7	2DINC 200 005	20 X R0.5	20.4	5.2
2DINC 100 010	10 X R1	12.1	2.7	2DINC 200 010	20 X R1	20.4	5.2
2DINC 110 005	11 X R0.5	12.6	2.7	2DINC 200 020	20 X R2	20.4	5.2
2DINC 110 010	11 X R1	12.6	2.7	2DINC 210 005	21 X R0.5	20.9	5.2
2DINC 120 005	12 X R0.5	14.6	3.2	2DINC 210 010	21 X R1	20.9	5.2
2DINC 120 010	12 X R1	14.6	3.2	2DINC 210 020	21 X R2	20.9	5.2
2DINC 120 020	12 X R2	14.6	3.2	2DINC 250 005	25 X R0.5	24.1	6.2
2DINC 130 005	13 X R0.5	15.1	3.2	2DINC 250 010	25 X R1	24.1	6.2
2DINC 130 010	13 X R1	15.1	3.2	2DINC 250 020	25 X R2	24.1	6.2
2DINC 130 020	13 X R2	15.1	3.2	2DINC 260 005	26 X R0.5	24.6	6.2
2DINC 160 005	16 X R0.5	16.5	4.2	2DINC 260 010	26 X R1	24.6	6.2
2DINC 160 010	16 X R1	16.5	4.2	2DINC 260 020	26 X R2	24.6	6.2
2DINC 160 020	16 X R2	16.5	4.2	2DINC 300 005	30 X R0.5	29.1	7.2
2DINC 170 005	17 X R0.5	17	4.2	2DINC 300 010	30 X R1	29.1	7.2
2DINC 170 010	17 X R1	17	4.2	2DINC 300 020	30 X R2	29.1	7.2
2DINC 170 020	17 X R2	17	4.2				

JJ系列硬质合金 4刃 热缩可换式 球头刀头



- 高硬度钢 (HRC62~) 预硬钢类、精密加工用热缩可换式刀头
- TISIN-S涂层处理刃部, 有卓越的耐磨性。
- 使用热缩刀柄时具有较高的夹持力和同心度的保障。
- 刀头使用后可修磨, 提高了产品的性价比。
- 采用高抗折力、超微粒子超硬合金 (0.4µm) 材料, 刃部崩损最小化。
- **Shrink fit insert for hardened steel (HRc52~62), pre-hardened steels.**
- Optimum for wear resistance on the edge by TISIN-S coating.
- Excellent holding power and concentricity keeping are available by shrink fitting holder.
- It is very economical because regrinding is available more than three times.
- Minimize fracturing by high TRS fine (0.4 µm) WC grade.

4 WC 미립자 TISIN-S Coating R ±0.01 R ±0.015 45° Helix Angle CUTTING DATA

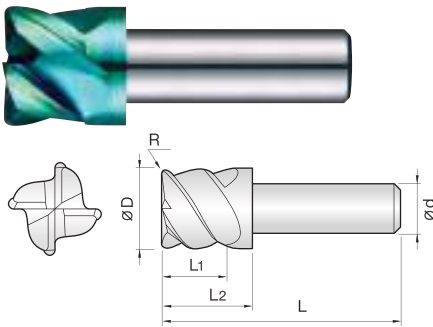
5 ~ 6.5R 8 ~ 10.5R 376P

D Size	D Tolerance
::10 ~ 12	-0.005 ~ -0.015mm
::13 ~ 21	-0.01 ~ -0.02mm

单位: mm

Order Number	刃径 Diameter R · D	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d	Order Number	刃径 Diameter R · D	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d
4SFJB 100 085 S06	5R X 10	8,5	12	37	6						
4SFJB 110 085 S06	5,5R X 11	8,5	12	37	6						
4SFJB 120 090 S06	6R X 12	9	13	38	6						
4SFJB 130 090 S06	6,5R X 13	9	13	38	6						
4SFJB 160 120 S10	8R X 16	12	17	48	10						
4SFJB 170 120 S10	8,5R X 17	12	17	48	10						
4SFJB 200 150 S12	10R X 20	15	21	54	12						
4SFJB 210 150 S12	10,5R X 21	15	21	54	12						

JJ系列硬质合金 4刃热缩可换式 圆鼻刀头



- 高硬度钢 (HRC62~) 预硬钢类、精密加工用热缩可换式刀头
- TISIN-S涂层处理刃部, 有卓越的耐磨性。
- 使用热缩刀柄时具有较高的夹持力和同心度的保障。
- 刀头使用后可修磨, 提高了产品的性价比。
- 采用高抗折力、超微粒子超硬合金 (0.4µm) 材料, 刃部崩损最小化。
- **Shrink fit insert for hardened steel (HRc52~62), pre-hardened steels.**
- Optimum for wear resistance on the edge by TISIN-S coating.
- Excellent holding power and concentricity keeping are available by shrink fitting holder.
- It is very economical because regrinding is available more than three times.
- Minimize fracturing by high TRS fine (0.4 µm) WC grade.

4 WC 미립자 TISIN-S Coating R ±0.005 R ±0.01 45° Helix Angle CUTTING DATA

R0,3 ~ 0,5 R1 377P

D Size	D Tolerance
::10 ~ 12	-0.005 ~ -0.015mm
::13 ~ 21	-0.01 ~ -0.02mm

单位: mm

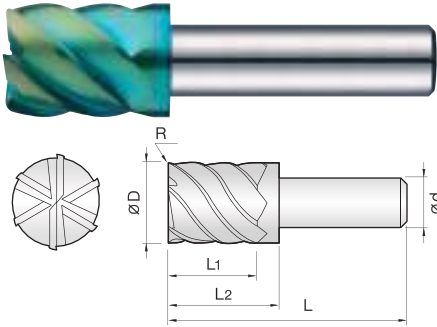
Order Number	刃径 Diameter D · R	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d	Order Number	刃径 Diameter D · R	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d
4SFJC 100 003 085	10 X R0,3	8,5	12	37	6	4SFJC 130 010 090	13 X R1	9	13	38	6
4SFJC 100 005 085	10 X R0,5	8,5	12	37	6	4SFJC 160 005 120	16 X R0,5	12	17	48	10
4SFJC 100 010 085	10 X R1	8,5	12	37	6	4SFJC 160 010 120	16 X R1	12	17	48	10
4SFJC 110 003 085	11 X R0,3	8,5	12	37	6	4SFJC 170 005 120	17 X R0,5	12	17	48	10
4SFJC 110 005 085	11 X R0,5	8,5	12	37	6	4SFJC 170 010 120	17 X R1	12	17	48	10
4SFJC 110 010 085	11 X R1	8,5	12	37	6	4SFJC 200 005 150	20 X R0,5	15	21	54	12
4SFJC 120 003 090	12 X R0,3	9	13	38	6	4SFJC 200 010 150	20 X R1	15	21	54	12
4SFJC 120 005 090	12 X R0,5	9	13	38	6	4SFJC 210 005 150	21 X R0,5	15	21	54	12
4SFJC 120 010 090	12 X R1	9	13	38	6	4SFJC 210 010 150	21 X R1	15	21	54	12
4SFJC 130 003 090	13 X R0,3	9	13	38	6						
4SFJC 130 005 090	13 X R0,5	9	13	38	6						

6-12SFJG

6~12Flutes JJ Carbide Helix Corner Radius Shrink-fit Inserts for Hardened steels

New

JJ系列硬质合金 6~12刃 热缩可换式R角刀头



- 高硬度钢 (HRC62~) 预硬钢类、精密加工用热缩可换式刀头
- TISIN-S涂层处理刃部, 有卓越的耐磨性。
- 使用热缩刀柄时具有较高的夹持力和同心度的保障。
- 刀头使用后可修磨, 提高了产品的性价比。
- 采用高抗折力、超微粒子超硬合金 (0.4 μ m) 材料, 刃部崩损最小化。
- **Shrink fit insert for hardened steel (HRc52~62), pre-hardened steels.**
- Optimum for wear resistance on the edge by TISIN-S coating.
- High speed milling process is available with multiple 6-12 flutes.
- Excellent holding power and concentricity keeping are available by shrink fitting holder.
- It is very economical because regrinding is available more than three times.
- Minimize fracturing by high TRS fine (0.4 μ m) WC grade.



D Size	D Tolerance
∅10 ~ 12	-0.005 ~ -0.015mm
∅13 ~ 21	-0.01 ~ -0.02mm

单位: mm

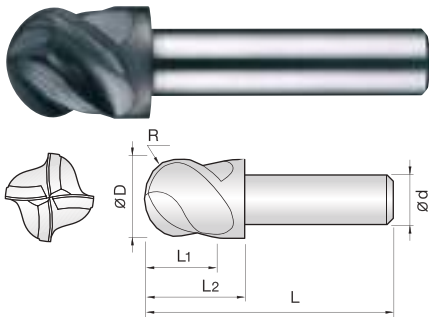
Order Number	刃径 Diameter D · R	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d	Order Number	刃径 Diameter D · R	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d
6SFJC 100 003 085	10 X R0.3	8.5	12	37	6	8SFJC 130 010 090	13 X R1	9	13	38	6
6SFJC 100 005 085	10 X R0.5	8.5	12	37	6	10SFJC 160 005 120	16 X R0.5	12	17	48	10
6SFJC 100 010 085	10 X R1	8.5	12	37	6	10SFJC 160 010 120	16 X R1	12	17	48	10
6SFJC 110 003 085	11 X R0.3	8.5	12	37	6	10SFJC 170 005 120	17 X R0.5	12	17	48	10
6SFJC 110 005 085	11 X R0.5	8.5	12	37	6	10SFJC 170 010 120	17 X R1	12	17	48	10
6SFJC 110 010 085	11 X R1	8.5	12	37	6	12SFJC 200 005 150	20 X R0.5	15	21	54	12
8SFJC 120 003 090	12 X R0.3	9	13	38	6	12SFJC 200 010 150	20 X R1	15	21	54	12
8SFJC 120 005 090	12 X R0.5	9	13	38	6	12SFJC 210 005 150	21 X R0.5	15	21	54	12
8SFJC 120 010 090	12 X R1	9	13	38	6	12SFJC 210 010 150	21 X R1	15	21	54	12
8SFJC 130 003 090	13 X R0.3	9	13	38	6						
8SFJC 130 005 090	13 X R0.5	9	13	38	6						

4SFDB

4Flutes Diamond Coated Helix Ball Shink-fit Inserts for Graphites

New

硬质合金 4刃 石墨加工用 金刚石涂层 热缩可换式球头刀头



- 石墨加工用热缩可换式刀头
- 采用CVD纯金刚石涂层体现卓越的耐磨性。
- 专业的螺旋角设计提高了切削能力。
- 使用热缩刀柄时具有较高的夹持力和同心度的保障。
- **Insert for graphite milling**
- Excellent wear resistance by applying qualified CVD diamond coating.
- Maximize cutting force by applying the new helix edge design.
- Excellent holding power and concentricity keeping are available by shrink fitting holder.



D Size	D Tolerance
∅10 ~ 12	+0 ~ -0.02mm
∅13 ~ 21	+0 ~ -0.025mm

单位: mm

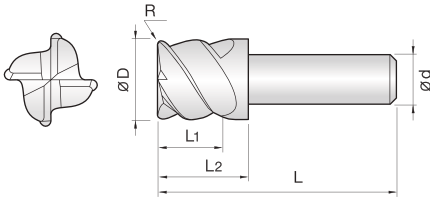
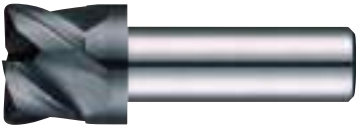
Order Number	刃径 Diameter R · D	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d	Order Number	刃径 Diameter R · D	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d
4SFDB 100 085 S06	5R X 10	8.5	12	37	6						
4SFDB 110 085 S06	5.5R X 11	8.5	12	37	6						
4SFDB 120 090 S06	6R X 12	9	13	38	6						
4SFDB 130 090 S06	6.5R X 13	9	13	38	6						
4SFDB 160 120 S10	8R X 16	12	17	48	10						
4SFDB 170 120 S10	8.5R X 17	12	17	48	10						
4SFDB 200 150 S12	10R X 20	15	21	54	12						
4SFDB 210 150 S12	10.5R X 21	15	21	54	12						

4SFDC

4Flutes Diamond Coated Helix Corner Radius Shrink-fit Inserts for Graphite

硬质合金 4刃 石墨加工用 金刚石涂层 热缩可换式 圆鼻刀头

New



D Size	D Tolerance
::10 ~ 12	+0 ~ -0.02mm
::13 ~ 21	+0 ~ -0.025mm

单位: mm

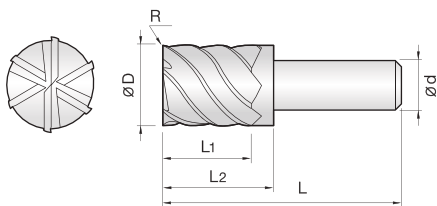
Order Number	刃径 Diameter D · R	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d	Order Number	刃径 Diameter D · R	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d
4SFDC 100 003 085	10 X R0.3	8.5	12	37	6	4SFDC 130 010 090	13 X R1	9	13	38	6
4SFDC 100 005 085	10 X R0.5	8.5	12	37	6	4SFDC 160 005 120	16 X R0.5	12	17	48	10
4SFDC 100 010 085	10 X R1	8.5	12	37	6	4SFDC 160 010 120	16 X R1	12	17	48	10
4SFDC 110 003 085	11 X R0.3	8.5	12	37	6	4SFDC 170 005 120	17 X R0.5	12	17	48	10
4SFDC 110 005 085	11 X R0.5	8.5	12	37	6	4SFDC 170 010 120	17 X R1	12	17	48	10
4SFDC 110 010 085	11 X R1	8.5	12	37	6	4SFDC 200 005 150	20 X R0.5	15	21	54	12
4SFDC 120 003 090	12 X R0.3	9	13	38	6	4SFDC 200 010 150	20 X R1	15	21	54	12
4SFDC 120 005 090	12 X R0.5	9	13	38	6	4SFDC 210 005 150	21 X R0.5	15	21	54	12
4SFDC 120 010 090	12 X R1	9	13	38	6	4SFDC 210 010 150	21 X R1	15	21	54	12
4SFDC 130 003 090	13 X R0.3	9	13	38	6						
4SFDC 130 005 090	13 X R0.5	9	13	38	6						

6~12SFDC

6~12Flutes Diamond Coated Helix Ball Shrink-fit Insert for Graphite

6~12刃 石墨加工用 金刚石涂层 热缩可换式 圆鼻刀头

New



D Size	D Tolerance
::10 ~ 12	+0 ~ -0.02mm
::13 ~ 21	+0 ~ -0.025mm

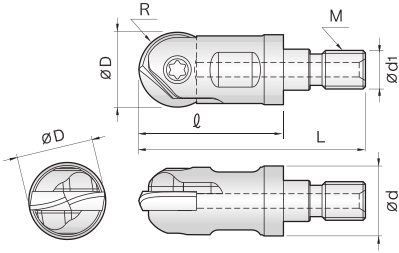
单位: mm

Order Number	刃径 Diameter D · R	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d	Order Number	刃径 Diameter D · R	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d
6SFDC 100 003 085	10 X R0.3	8.5	12	37	6	8SFDC 130 010 090	13 X R1	9	13	38	6
6SFDC 100 005 085	10 X R0.5	8.5	12	37	6	10SFDC 160 005 120	16 X R0.5	12	17	48	10
6SFDC 100 010 085	10 X R1	8.5	12	37	6	10SFDC 160 010 120	16 X R1	12	17	48	10
6SFDC 110 003 085	11 X R0.3	8.5	12	37	6	10SFDC 170 005 120	17 X R0.5	12	17	48	10
6SFDC 110 005 085	11 X R0.5	8.5	12	37	6	10SFDC 170 010 120	17 X R1	12	17	48	10
6SFDC 110 010 085	11 X R1	8.5	12	37	6	12SFDC 200 005 150	20 X R0.5	15	21	54	12
8SFDC 120 003 090	12 X R0.3	9	13	38	6	12SFDC 200 010 150	20 X R1	15	21	54	12
8SFDC 120 005 090	12 X R0.5	9	13	38	6	12SFDC 210 005 150	21 X R0.5	15	21	54	12
8SFDC 120 010 090	12 X R1	9	13	38	6	12SFDC 210 010 150	21 X R1	15	21	54	12
8SFDC 130 003 090	13 X R0.3	9	13	38	6						
8SFDC 130 005 090	13 X R0.5	9	13	38	6						

INSERT

MHE Modular Head

可换式刀头



- 可装夹球头刀片和圆鼻刀片。
- 用一个刀杆可替换不同的刀头使用，大幅度降低了成本。
- 加工中心或在机床上不用卸下刀杆，可直接更换刀头。节省了时间和便利性。

- Can be used for both of ball and corner radius inserts.
- Possible to exchange variety heads for one modular adopter and helps save your purchasing cost.
- Installed modular adopter can change only head without uninstallation, it gives more convenience and it helps save your time.

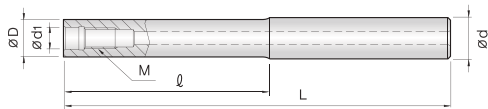
Order Number	Dimensions (mm)						Insert	Parts	
	M	D	L	ℓ	d	d1		Screw	Wrench
MHE 100 250 M06	M06	10	40	25	9.5	6.5	2JJIN □ 100 / 2JJIN □ 110	SC 100 581142	T10
MHE 120 250 M06	M06	12	40	25	11	6.5	2JJIN □ 120 / 2JJIN □ 130	SC 120 581143	T20
MHE 160 290 M08	M08	16	45	29	14.5	8.5	2JJIN □ 160 / 2JJIN □ 170	SC 160 581144	T20
MHE 200 330 M10	M10	20	55	33	18	10.5	2JJIN □ 200 / 2JJIN □ 210	SC 200 581145	T25
MHE 250 390 M12	M12	25	60	39	22.5	12.5	2JJIN □ 250 / 2JJIN □ 260	SC 250 581146	T30
MHE 300 430 M16	M16	30	70	43	28	17	2JJIN □ 300	SC 300 581147	T30



Bolt Order Number	Screw	Bolt Order Number	Screw
SC 100 581142	T10	SC 250 581146	T30
SC 120 581143	T20	SC 300 581147	T30
SC 160 581144	T20		
SC 200 581145	T25		

GMA Carbide Modular Adopter

硬质合金 可换式刀杆

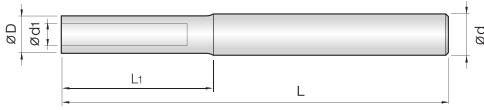


- 螺纹刀头专用刀杆
- 多种规格和有效长适合加工深沟、槽型工况。
- 便于装夹螺纹刀头。

- Adopter for the spiral modular head (Compatible with MHE)
- Deep cavity milling is available with a variety of effective lengths.
- Convenient clamping with the modular head (MHE).

Order Number	Dimensions (mm)					
	M	D	d	d1	ℓ	L
CMA100 240 114	M06	9.7	10	6.5	24	114
CMA120 240 129	M06	11	12	6.5	24	129
CMA160 300 130	M08	14.5	16	8.5	30	130
CMA160 300 160	M08	14.5	16	8.5	30	160
CMA160 300 200	M08	14.5	16	8.5	30	200
CMA160 300 250	M08	14.5	16	8.5	30	250
CMA200 500 170	M10	18.5	20	10.5	50	170
CMA200 500 220	M10	18.5	20	10.5	50	220
CMA200 500 270	M10	18.5	20	10.5	50	270
CMA250 650 265	M12	23	25	12.5	65	265
CMA250 650 315	M12	23	25	12.5	65	315
CMA300 800 260	M16	28	32	17	80	260
CMA300 800 360	M16	28	32	17	80	360

INSERT



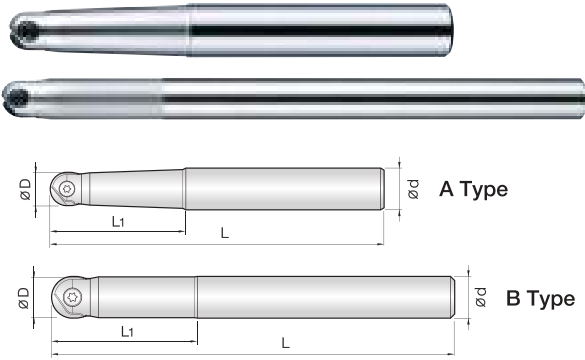
- **硬质合金热缩刀杆**
- 多种规格和有效长适合加工深沟、槽型工况。
- 使用热缩刀柄时具有较高的夹持力和同心度的保障。
- **Adopter for the spiral modular head (MHE)**
- Deep cavity milling is available with a variety of effective lengths.
- Excellent holding power and concentricity keeping are available by shrink fitting holder.

Order Number	Dimensions (mm)					Insert
	D	d1	L1	L	d	
SFMA 100 028 108	9.8	6	28	108	10	□SF□□ 100 / □SF□□ 110
SFMA 100 028 148	9.8	6	28	148	10	□SF□□ 100 / □SF□□ 110
SFMA 100 048 188	9.8	6	48	188	10	□SF□□ 100 / □SF□□ 110
SFMA 120 027 117	11.8	6	27	117	12	□SF□□ 120 / □SF□□ 130
SFMA 120 027 147	11.8	6	27	147	12	□SF□□ 120 / □SF□□ 130
SFMA 120 047 187	11.8	6	47	187	12	□SF□□ 120 / □SF□□ 130
SFMA 160 033 143	15.8	10	33	143	16	□SF□□ 160 / □SF□□ 170
SFMA 160 053 183	15.8	10	53	183	16	□SF□□ 160 / □SF□□ 170
SFMA 200 039 139	19.8	12	39	139	20	□SF□□ 200 / □SF□□ 210
SFMA 200 059 179	19.8	12	59	179	20	□SF□□ 200 / □SF□□ 210
SFMA 200 079 229	19.8	12	79	229	20	□SF□□ 200 / □SF□□ 210



- 可装夹球头刀片和圆鼻刀片。
- 可达到整理硬质合金铣刀的强度，适用于高速、高精密加工。
- 可修磨刀杆。
- 比普通刀杆减少了震动，增强了稳定性。
- Can be used for both of ball and corner radius inserts.
- Suitable for high speed cutting and high precise cutting due to same toughness as solid tools.
- Availabe repairing tool holders at JJ TOOLS co., ltd when broken problem.
- Availabe stable machining due to minimized vibration on carbide holders.

Order Number	Dimensions (mm)				Insert	Parts	
	D	L1	L	d		Screw	Wrench
CICF100 350 150	10	35	150	10	2JJIN□ 100 / 2JJIN□ 110	SC 100 581142	T10
CICF120 450 160	12	45	160	12	2JJIN□ 120 / 2JJIN□ 130	SC 120 581143	T20
CICF160 600 200	16	60	200	16	2JJIN□ 160 / 2JJIN□ 170	SC 160 581144	T20
CICF160 600 230	16	60	230	16	2JJIN□ 160 / 2JJIN□ 170	SC 160 581144	T20
CICF200 700 220	20	70	220	20	2JJIN□ 200 / 2JJIN□ 210	SC 200 581145	T25
CICF250 800 250	25	80	250	25	2JJIN□ 250 / 2JJIN□ 260	SC 250 581146	T30
CICF250 800 300	25	80	300	25	2JJIN□ 250 / 2JJIN□ 260	SC 250 581146	T30
CICF300 1000 300	30	100	300	30	2JJIN□ 300	SC 300 581147	T30



- 可装夹球头刀片和圆鼻刀片。
- 锥度有效设计将震动最小化。
- 多种规格，选择性多。
- Can be used for both of ball and corner radius inserts.
- Effective length design by taper type to minimize vibration (A-Type).
- Wide tool range option is available with a variety of overall lengths.

Order Number	Dimensions (mm)					Insert	Parts	
	D	L1	L	d	Type		Screw	Wrench
ICF 100 250 100 S12	10	25	100	12	A	2JJIN □ 100 / 2JJIN □ 110	SC 100 581142	T10
ICF 100 500 150 S16	10	50	150	16	A	2JJIN □ 100 / 2JJIN □ 110	SC 100 581142	T10
ICF 120 300 110 S12	12	30	110	12	B	2JJIN □ 120 / 2JJIN □ 130	SC 120 581143	T20
ICF 120 600 160 S16	12	60	160	16	A	2JJIN □ 120 / 2JJIN □ 130	SC 120 581143	T20
ICF 160 500 130 S20	16	50	130	20	A	2JJIN □ 160 / 2JJIN □ 170	SC 160 581144	T20
ICF 160 600 220 S16	16	60	220	16	B	2JJIN □ 160 / 2JJIN □ 170	SC 160 581144	T20
ICF 160 650 160 S20	16	65	160	20	A	2JJIN □ 160 / 2JJIN □ 170	SC 160 581144	T20
ICF 200 700 220 S20	20	70	220	20	B	2JJIN □ 200 / 2JJIN □ 210	SC 200 581145	T25
ICF 200 700 250 S20	20	70	250	20	B	2JJIN □ 200 / 2JJIN □ 210	SC 200 581145	T25
ICF 200 800 180 S25	20	80	180	25	A	2JJIN □ 200 / 2JJIN □ 210	SC 200 581145	T25
ICF 250 700 220 S25	25	70	220	25	B	2JJIN □ 250 / 2JJIN □ 260	SC 250 581146	T30
ICF 250 800 250 S25	25	80	250	25	B	2JJIN □ 250 / 2JJIN □ 260	SC 250 581146	T30
ICF 250 800 300 S25	25	80	300	25	B	2JJIN □ 250 / 2JJIN □ 260	SC 250 581146	T30
ICF 300 1000 250 S32	30	100	250	32	A	2JJIN □ 300	SC 300 581147	T30
ICF 300 1000 300 S32	30	100	300	32	A	2JJIN □ 300	SC 300 581147	T30
ICF 300 1000 350 S32	30	100	350	32	A	2JJIN □ 300	SC 300 581147	T30

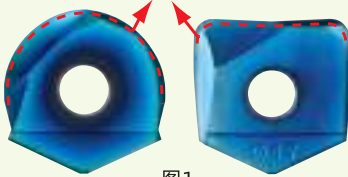
 修磨刃线
 Regrind processing line


图1

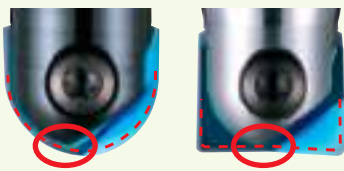


图2

刀片修磨注意事项 Note for regrinding insert

- 如图1，如果磨损或崩损超过图中轮廓线时，无法修磨。
- 修磨后刀尖部分会变小0.3~0.5mm 会产生干涉，加工时请留意。
- If the insert is damaged deeper than the regrind processing line, regrinding is not available.
- When the regrinding process, the height of the insert (H) will be shortened by 0.3mm to 0.5mm, so insert holder (figure 2) may cause interference your machining process. Please note for your work.
- 金刚石涂层的石墨加工刀片无法修磨。
- Regrinding DIA coated insert for graphite material is not available.

热缩可换式刀头修磨 Regrinding shrink-fit insert

- 可修磨2~3次超高性价比。
- 修磨后能达到正常性能。
- 金刚石涂层的石墨加工刀片无法修磨。
- Regrinding DIA coated insert for graphite material is not available.

