



ZHENGZHOU RUIZUAN DIAMOND TOOL CO., LTD.

SOLID CBN INSERTS - RUIZUAN

Our company - Zhengzhou Ruizuan Diamond Tool Co., Ltd. developed solid CBN Inserts with different grades for different application. Now we have five grades, RZ905, RZ907, RZ957, RZ900, RZ950. Find below introduction of different grades.

Our Solid CBN inserts are available with ISO standard inserts and also non-standard inserts can be supplied once giving us your drawings. Please contact us should you have any questions.

--Introduction of CBN Grades

| Grades | Characteristic | Hardness HV (Mpa) | Bending strength (Mpa) |
|--------|---|-------------------|------------------------|
| RZ905 | Fit for low speed heavy load rough machining. <ul style="list-style-type: none">•High pyroconductivity, definite impact resistance.•Fit for rough machining of high-hardness alloy cast iron, gray cast iron, nodular cast iron and other materials. | 3000--3200 | 1100--1300 |



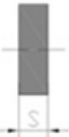



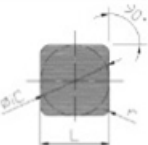

| | | | |
|-------|--|------------|------------|
| RZ907 | Consider abrasion resistance and tipping resistance, high-speed continuous cutting. ●Fit for rough machining and semi-finishing of high-hardness alloy cast iron, high nickel chromium, high ferrochrome and other materials. ●Fit for rough machining and semi-finishing of gray cast iron and nodular cast iron. | 3200--3400 | 1100--1300 |
| RZ957 | Excellent wear resistance and heat resistance, high-speed continuous cutting and milling. ●Fit for semi-finishing and finish machining of alloy cast iron, high nickel chromium, high ferrochrome and other materials. ●Fit for semi-finishing and finish machining of gray cast iron, nodular cast iron, and other materials. | 3300--3500 | 1100--1200 |
| RZ900 | Excellent wear resistance, tipping resistance and generality, low-speed interrupted cutting. ●Fit for rough machining of quenching workpieces, such as bearing steel, die steel, gauge steel, tool steel, high-speed steel and other materials. | 3000--3200 | 1100--1300 |
| RZ950 | Excellent wear resistance and heat resistance, high-speed continuous cutting and milling. ●Fit for semi-finishing and finish machining of quenching workpieces, such as bearing steel, die steel, gauge steel, tool steel, high-speed steel and other materials. | 3000--3200 | 1100--1200 |



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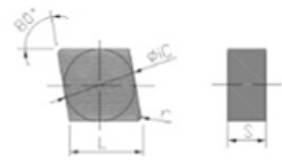
--Standard Solid CBN Inserts


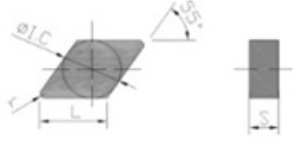
| RNMN Series | | | | |    | | | | | | |
|--------------------|------------|------------|------|---|---|-------|-------|-------|-------|--|--|
| Specification | Dimensions | | | | CBN Grades | | | | | | |
| | L | $\phi i.c$ | s | r | RZ905 | RZ907 | RZ957 | RZ900 | RZ950 | | |
| RNMN 060300 | | 6.35 | 3.18 | | • | • | • | • | • | | |
| RNMN 090400 | | 9.525 | 4.76 | | • | • | • | • | • | | |
| RNMN 120400 | | 12.7 | 4.76 | | • | • | • | • | • | | |
| RNMN 120700 | | 12.7 | 7.94 | | • | • | • | • | • | | |

| SNMN Series | | | | |    | | | | | | |
|--------------------|------------|------------|------|-----|---|-------|-------|-------|-------|--|--|
| Specification | Dimensions | | | | CBN Grades | | | | | | |
| ISO | L | $\phi i.c$ | s | r | RZ905 | RZ907 | RZ957 | RZ900 | RZ950 | | |
| SNMN 120408 | 12.7 | 12.7 | 4.76 | 0.8 | • | • | • | • | • | | |
| SNMN 12T612 | 12.7 | 12.7 | 6.75 | 1.2 | • | • | • | • | • | | |
| SNMN 150720 | 15.875 | 15.875 | 7.94 | 2.0 | • | • | • | • | • | | |




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| CNMN Series | | | | |   | | | | | | |
|--------------------|------------|------------|------|-----|---|-------|-------|-------|-------|--|--|
| Specification | Dimensions | | | | CBN Grades | | | | | | |
| ISO | L | $\phi i.c$ | s | r | RZ905 | RZ907 | RZ957 | RZ900 | RZ950 | | |
| CNMN 120404 | 12.9 | 12.7 | 4.76 | 0.4 | • | • | • | • | • | | |
| CNMN 12T608 | 12.9 | 12.7 | 6.75 | 0.8 | • | • | • | • | • | | |
| CNMN 120712 | 12.9 | 12.7 | 7.94 | 1.2 | • | • | • | • | • | | |

| DNMN Series | | | | |   | | | | | | |
|--------------------|------------|------------|------|-----|---|-------|-------|-------|-------|--|--|
| Specification | Dimensions | | | | CBN Grades | | | | | | |
| ISO | L | $\phi i.c$ | s | r | RZ905 | RZ907 | RZ957 | RZ900 | RZ950 | | |
| DNMN110404 | 11.0 | 9.525 | 4.76 | 0.4 | • | • | • | • | • | | |
| DNMN11T608 | 11.0 | 9.525 | 6.75 | 0.8 | • | • | • | • | • | | |




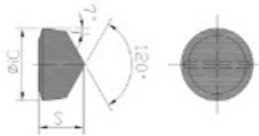

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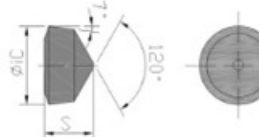

| WNMN Series | | | | |    | | | | | | |
|-------------------------|------------|------------|------|-----|--|-------|-------|-------|-------|--|--|
| Specification | Dimensions | | | | CBN Grades | | | | | | |
| ISO | L | ϕ i.c | s | r | RZ905 | RZ907 | RZ957 | RZ900 | RZ950 | | |
| WNMN 060304 (T02020) | 6.5 | 9.525 | 3.18 | 0.4 | • | • | • | • | • | | |
| WNMN 080408 (T02020) | 8.72 | 12.7 | 4.76 | 0.8 | • | • | • | • | • | | |
| WNMN 080412 (T02020) | 8.72 | 12.7 | 4.76 | 1.2 | • | • | • | • | • | | |

| RCMN Series | | | | |    | | | | | | |
|--------------------|------------|------------|------|---|--|-------|-------|-------|-------|--|--|
| Specification | Dimensions | | | | CBN Grades | | | | | | |
| ISO | L | ϕ i.c | s | r | RZ905 | RZ907 | RZ957 | RZ900 | RZ950 | | |
| RCMN 12T600 | 12.7 | 12.7 | 6.75 | | • | • | • | • | • | | |
| RCMN 150700 | 15.875 | 15.875 | 7.94 | | • | • | • | • | • | | |
| RCMN 190700 | 19.05 | 19.05 | 7.94 | | • | • | • | • | • | | |



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| | | | | | | | | | | | |
|---------------|------------|------------|------|-----|---|-------|-------|-------|-------|--|--|
| RCMX Series | | | | |    | | | | | | |
| Specification | Dimensions | | | | CBN Grades | | | | | | |
| ISO | L | ϕ i.c | s | b | RZ905 | RZ907 | RZ957 | RZ900 | RZ950 | | |
| RCMX 090700 | 9.525 | 9.525 | 7.94 | 1.0 | • | • | • | • | • | | |
| RCMX 120700 | 12.7 | 12.7 | 7.94 | 2.0 | • | • | • | • | • | | |
| RCMX 151000 | 15.875 | 15.875 | 10.0 | 2.0 | • | • | • | • | • | | |

| | | | | | | | | | | | |
|---------------|------------|------------|------|-----|---|-------|-------|-------|-------|--|--|
| RCMX Series | | | | |    | | | | | | |
| Specification | Dimensions | | | | CBN Grades | | | | | | |
| ISO | L | ϕ i.c | s | b | RZ905 | RZ907 | RZ957 | RZ900 | RZ950 | | |
| RCMX 090700Y | 9.525 | 9.525 | 7.94 | 1.0 | • | • | • | • | • | | |
| RCMX 120700Y | 12.7 | 12.7 | 7.94 | 1.2 | • | • | • | • | • | | |
| RCMX 150700Y | 15.875 | 15.875 | 10.0 | 1.2 | • | • | • | • | • | | |

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