

MILLING AND DRILLING



METAL REMOVAL
BY **WIDIA™**



METAL REMOVAL
BY WIDIA

THE METAL CUTTING TOOL PHILOSOPHY

QUALITY

From raw material to final inspection, our state-of-the-art equipment and methods deliver products that will significantly boost your productivity and profitability.

PERFORMANCE

Our carbide technology is simply unsurpassed, as is our commitment to always provide you the grades and technologies to maximize your output.

SERVICE

Our field staff, fully backed by a team of in-house technical experts, has one objective: to give you the best tool for the job!

METAL REMOVAL BY WIDIA

WIDIA addresses customers' needs by providing them with innovative products and the latest technologies. Our precision metalworking tools cover applications like ISO turning and milling applications.

We help customers reduce their manufacturing spend by offering cost-effective, high-quality solutions that eliminate bottlenecks.

Our solutions meet customers' machining needs in the transportation, general engineering, and die & mold industries — and enable them to gain a competitive edge.



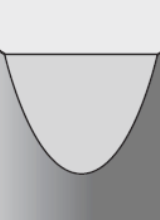

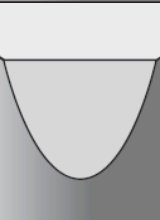
GENERAL
ENGINEERING



TRANSPORTATION

GRADES ON DIFFERENT MACHINING CONDITIONS

wear resistance ← → toughness

| Coating | | Grade Description | | 05 | 10 | 15 | 20 | 25 | 30 | 35 | | |
|---------|---|--|---|----|----|----|----|----|----|----|-------------------|--------------------|
| MR1000K |  | Uncoated grade with micro-fine substrate suited for machining cast iron in medium to finish applications. | P | | | | | | | | P Steel | |
| | | | M | | | | | | | | M Stainless Steel | |
| | | | K | ■ | ■ | | | | | | | K Cast Iron |
| | | | N | | | | | | | | | N Non-Ferrous |
| | | | S | | | | | | | | | S High-Temp Alloys |
| MR2500P |  | PVD TiAlN-coated grade with micro-fine substrate suited for machining steel and cast iron in medium to finish applications. | P | ■ | ■ | ■ | | | | | P Steel | |
| | | | M | | | | | | | | M Stainless Steel | |
| | | | K | | ■ | ■ | | | | | | K Cast Iron |
| | | | N | | | | | | | | | N Non-Ferrous |
| | | | S | | | | | | | | | S High-Temp Alloys |
| MR3000P |  | Uncoated carbide that's great for general-purpose turning grade for steels and ideal for medium machining to heavy roughing. | P | | | ■ | ■ | ■ | ■ | | P Steel | |
| | | | M | | | | | | | | M Stainless Steel | |
| | | | K | | | | ■ | ■ | ■ | ■ | | K Cast Iron |
| | | | N | | | | | | | | | N Non-Ferrous |
| | | | S | | | | | | | | | S High-Temp Alloys |



METAL REMOVAL
BY WIDIA

Milling

ISO INSERT NOMENCLATURE

| S | P | K | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|---|---------------------------|--------------------|---------------|-------------------|---------------------------|-----------------------------|---------------|---------------------|---------------|------------|-------|--------------|-------|------------|--------------|-------|-------|-------|------------------|-------------|-------|------------|--------------|-------|-------------|--------------|-------|-------|-------|---|---------|-------|-----|--------------|-------|-------|------|--|------------|-------|---|--------------|-------|-------|------|---|------------|-------|---|--------------|-------|-------|------|--|---------|-------|---|--------------|-------|-------|---|------------|----------------|-------|---|-------|-------|-------|
| Insert Shape | Insert Clearance Angle | Tolerance Class | Geometry and Clamping Type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>A </p> <p>B </p> <p>C </p> <p>E </p> <p>H </p> <p>L </p> <p>O </p> <p>R </p> <p>S </p> <p>T </p> <p>W </p> <p>X Special Design</p> | <p>A 3° </p> <p>B 5° </p> <p>C 7° </p> <p>D 15° </p> <p>E 20° </p> <p>F 25° </p> <p>G 30° </p> <p>N 0° </p> <p>P 11° </p> | <p>K Tolerance Class</p> | <p>N Geometry and Clamping Type</p> <table border="1"> <thead> <tr> <th>symbol</th> <th>hole</th> <th>shape of hole</th> <th>chipbreaker</th> <th>shape of insert's section</th> </tr> </thead> <tbody> <tr> <td>N</td> <td rowspan="3">without</td> <td rowspan="3"></td> <td>without</td> <td></td> </tr> <tr> <td>R</td> <td>single-sided</td> <td></td> </tr> <tr> <td>F</td> <td>double-sided</td> <td></td> </tr> <tr> <td>A</td> <td rowspan="3">with</td> <td rowspan="3">cylindrical hole</td> <td>without</td> <td></td> </tr> <tr> <td>M</td> <td>single-sided</td> <td></td> </tr> <tr> <td>G</td> <td>double-sided</td> <td></td> </tr> <tr> <td>W</td> <td rowspan="2">with</td> <td rowspan="2">partly cylindrical hole, 40-60° countersink</td> <td>without</td> <td></td> </tr> <tr> <td>T</td> <td>single-sided</td> <td></td> </tr> <tr> <td>Q</td> <td rowspan="2">with</td> <td rowspan="2">partly cylindrical hole, 40-60° double countersink</td> <td>without</td> <td></td> </tr> <tr> <td>U</td> <td>double-sided</td> <td></td> </tr> <tr> <td>B</td> <td rowspan="2">with</td> <td rowspan="2">partly cylindrical hole, 70-90° countersink</td> <td>without</td> <td></td> </tr> <tr> <td>H</td> <td>single-sided</td> <td></td> </tr> <tr> <td>C</td> <td rowspan="2">with</td> <td rowspan="2">partly cylindrical hole, 70-90° double countersink</td> <td>without</td> <td></td> </tr> <tr> <td>J</td> <td>double-sided</td> <td></td> </tr> <tr> <td>X</td> <td></td> <td></td> <td>special design</td> <td></td> </tr> </tbody> </table> | symbol | hole | shape of hole | chipbreaker | shape of insert's section | N | without | | without | | R | single-sided | | F | double-sided | | A | with | cylindrical hole | without | | M | single-sided | | G | double-sided | | W | with | partly cylindrical hole, 40-60° countersink | without | | T | single-sided | | Q | with | partly cylindrical hole, 40-60° double countersink | without | | U | double-sided | | B | with | partly cylindrical hole, 70-90° countersink | without | | H | single-sided | | C | with | partly cylindrical hole, 70-90° double countersink | without | | J | double-sided | | X | | | special design | | | | | |
| symbol | hole | shape of hole | chipbreaker | shape of insert's section | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N | without | | without | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R | | | single-sided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | | | double-sided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | with | cylindrical hole | without | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M | | | single-sided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G | | | double-sided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W | with | partly cylindrical hole, 40-60° countersink | without | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T | | | single-sided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q | with | partly cylindrical hole, 40-60° double countersink | without | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U | | | double-sided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | with | partly cylindrical hole, 70-90° countersink | without | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | | | single-sided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | with | partly cylindrical hole, 70-90° double countersink | without | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J | | | double-sided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | special design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>indexable inserts with facets/wipers </p> <p>indexable inserts with corner radii </p> <p>insert thickness </p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">iC</th> <th colspan="2">tolerances on "iC"</th> <th colspan="2">tolerances on "M"</th> </tr> <tr> <th>classes J, K, L, M, N (+/-)</th> <th>class U (+/-)</th> <th>classes M & N (+/-)</th> <th>class U (+/-)</th> </tr> </thead> <tbody> <tr> <td>4,76-10,00</td> <td>0,051</td> <td>0,076</td> <td>0,076</td> <td>0,127</td> </tr> <tr> <td>11,11-14,29</td> <td>0,076</td> <td>0,127</td> <td>0,127</td> <td>0,203</td> </tr> <tr> <td>15,00-20,64</td> <td>0,102</td> <td>0,178</td> <td>0,152</td> <td>0,279</td> </tr> <tr> <td>22,00-31,16</td> <td>0,127</td> <td>0,254</td> <td>0,178</td> <td>0,381</td> </tr> <tr> <td>31,75-35,00</td> <td>0,152</td> <td>0,254</td> <td>0,2</td> <td>0,381</td> </tr> </tbody> </table> | | | | iC | tolerances on "iC" | | tolerances on "M" | | classes J, K, L, M, N (+/-) | class U (+/-) | classes M & N (+/-) | class U (+/-) | 4,76-10,00 | 0,051 | 0,076 | 0,076 | 0,127 | 11,11-14,29 | 0,076 | 0,127 | 0,127 | 0,203 | 15,00-20,64 | 0,102 | 0,178 | 0,152 | 0,279 | 22,00-31,16 | 0,127 | 0,254 | 0,178 | 0,381 | 31,75-35,00 | 0,152 | 0,254 | 0,2 | 0,381 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| iC | tolerances on "iC" | | tolerances on "M" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | classes J, K, L, M, N (+/-) | class U (+/-) | classes M & N (+/-) | class U (+/-) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4,76-10,00 | 0,051 | 0,076 | 0,076 | 0,127 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11,11-14,29 | 0,076 | 0,127 | 0,127 | 0,203 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15,00-20,64 | 0,102 | 0,178 | 0,152 | 0,279 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22,00-31,16 | 0,127 | 0,254 | 0,178 | 0,381 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31,75-35,00 | 0,152 | 0,254 | 0,2 | 0,381 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | iC (+/-) | M (+/-) | T (+/-) | | iC (+/-) | M (+/-) | T (+/-) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 0,025 | 0,005 | 0,025 | J | 0,05-0,15* | 0,005 | 0,025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 0,025 | 0,005 | 0,013 | K | 0,05-0,15* | 0,013 | 0,025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 0,025 | 0,013 | 0,025 | L | 0,05-0,15* | 0,025 | 0,025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 0,025 | 0,013 | 0,013 | M | 0,05-0,15* | 0,08-0,20* | 0,013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | 0,025 | 0,025 | 0,025 | N | 0,05-0,15* | 0,08-0,20* | 0,025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | 0,013 | 0,005 | 0,025 | P** | 0,038 | 0,038 | 0,038 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G | 0,025 | 0,025 | 0,013 | U | 0,08-0,25* | 0,13-0,30* | 0,013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | 0,013 | 0,013 | 0,025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>*See table above for tolerances according to insert size and class. **WIDIA standard only.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ISO INSERT NOMENCLATURE

12

Size
(Cutting Edge Length)

03

Insert Thickness

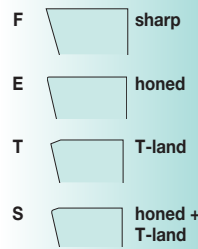
| symbol | thickness |
|--------|-----------|
| T1 | 1,98 |
| 02 | 2,38 |
| 03 | 3,18 |
| T3 | 3,97 |
| 04 | 4,76 |
| 05 | 5,56 |
| 06 | 6,35 |
| 07 | 7,94 |

ED

Corner
Configuration

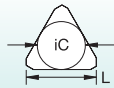
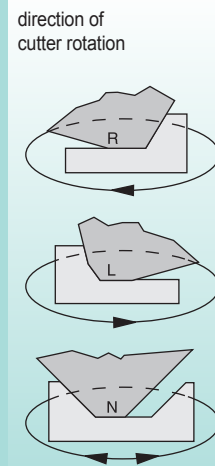
S

Cutting Edge
Form



R


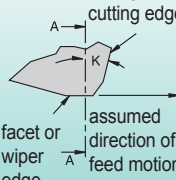
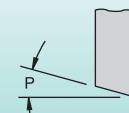
Insert Hand



inscribed circle "iC" versus
cutting edge length "L"

For shapes A, L, and X, see position #1;
use length of leading cutting edge.

| iC | "L" for shapes | | | | | | |
|-------|----------------|----|----|----|----|----|----|
| | S | T | R | O | C | H | E |
| 6,00 | - | - | 06 | - | - | - | - |
| 6,35 | 06 | 11 | 06 | 02 | 06 | 03 | 06 |
| 8,00 | - | - | 08 | - | - | - | - |
| 9,52 | 09 | 16 | 09 | 04 | 09 | 05 | 09 |
| 10,00 | - | - | 10 | - | - | - | - |
| 12,00 | - | - | 12 | - | - | - | - |
| 12,70 | 12 | 22 | 12 | 05 | 12 | 07 | 13 |
| 15,88 | 15 | 27 | 15 | 06 | 16 | 09 | 16 |
| 16,00 | - | - | 16 | - | - | - | - |
| 19,05 | 19 | 33 | 19 | 07 | 19 | 11 | 19 |
| 20,00 | - | - | 20 | - | - | - | - |
| 25,00 | - | - | 25 | - | - | - | - |
| 25,40 | 25 | 4 | | | | | |

| radius | | leading or major cutting edge | |
|-----------|---|---|---|
| |  |  |  |
| MO | round insert | | wiper edge clearance P |
| 01 | 0,1mm | | A |
| 02 | 0,2mm | | B |
| 04 | 0,4mm | | C |
| 05 | 0,5mm | | D |
| 08 | 0,8mm | | E |
| 10 | 1,0mm | | F |
| 12 | 1,2mm | lead angle K | G |
| 15 | 1,5mm | A | N |
| 16 | 1,6mm | D | P |
| 24 | 2,4mm | E | |
| 32 | 3,2mm | P | |

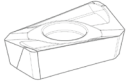


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Milling

INSERTS FOLLOWING THE GRADE MR2500P

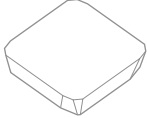
APMT/APPT

| Insert | Description | Insert grade | Work material | Ordering code |
|---|----------------|--------------|-------------------|---------------|
|  | APMT160408PDR | MR2500P | Steel & Cast Iron | 6740742 |
| | APMT1135PDR | MR2500P | Steel & Cast Iron | 6741543 |
| | APPT160408PDSR | MR2500P | Steel & Cast Iron | 6882765 |

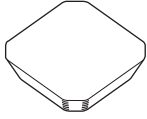
XPNT

| Insert | Description | Insert grade | Work material | Ordering code |
|--|-------------|--------------|-------------------|---------------|
|  | XPNT160412 | MR2500P | Steel & Cast Iron | 6655361 |

SPKN

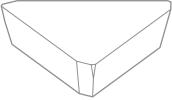
| Insert | Description | Insert grade | Work material | Ordering code |
|---|-------------|--------------|-------------------|---------------|
|  | SPKN1203EDR | MR2500P | Steel & Cast Iron | 6740745 |
| | SPKN1203EDL | MR3000P | Steel | 6882811 |
| | SPKN1203EDL | MR1000K | Cast Iron | 6882812 |
| | SPKN1203EDL | MR2500P | Steel & Cast Iron | 6882813 |
| | SPKN1504EDR | MR2500P | Steel & Cast Iron | 6740746 |
| | SPKN1504EDR | MR1000K | Cast Iron | 6882814 |
| | SPKN1504EDL | MR2500P | Steel & Cast Iron | 6882815 |
| | SPKN1203EDR | MR1000K | Cast Iron | 6841023 |
| | SPKN1504EDR | MR3000P | Steel & Cast Iron | 6841025 |
| | SPKN1203EDR | MR3000P | Steel & Cast Iron | 6841024 |

SEKN

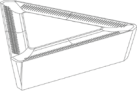
| Insert | Description | Insert grade | Work material | Ordering code |
|---|-------------|--------------|-------------------|---------------|
|  | SEKN1203AFN | MR2500P | Steel & Cast Iron | 6882764 |

INSERTS FOLLOWING THE GRADE MR2500P

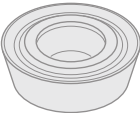
TPKN

| Insert | Description | Insert grade | Work material | Ordering code |
|---|-------------|--------------|-------------------|---------------|
|  | TPKN1603PDR | MR2500P | Steel & Cast Iron | 6882769 |
| | TPKN2204PDR | MR2500P | Steel & Cast Iron | 6740781 |
| | TPKN2204PDR | MR1000K | Cast Iron | 6882816 |
| | TPKN2204PDL | MR2500P | Steel & Cast Iron | 6882817 |
| | TPKN2204PDR | MR3000P | Steel & Cast Iron | 6841022 |

TPKR

| Insert | Description | Insert grade | Work material | Ordering code |
|--|-------------|--------------|-------------------|---------------|
|  | TPKR1603PDR | MR2500P | Steel & Cast Iron | 6882770 |


RDMX/RDEX

| Insert | Description | Insert grade | Work material | Ordering code |
|---|-------------|--------------|-------------------|---------------|
|  | RDMX10T300 | MR2500P | Steel & Cast Iron | 6655352 |
| | RDMX1604M0T | MR2500P | Steel & Cast Iron | 6882768 |
| | RDMX12T3 | MR2500P | Steel & Cast Iron | 6826650 |
| | RDEX12T3 | MR2500P | Steel & Cast Iron | 6826649 |
| | RDEX1003 | MR2500P | Steel & Cast Iron | 6826648 |

RPMT

| Insert | Description | Insert grade | Work material | Ordering code |
|---|-------------|--------------|-------------------|---------------|
|  | RPMT1204M0 | MR2500P | Steel & Cast Iron | 6740744 |

RPMW

| Insert | Description | Insert grade | Work material | Ordering code |
|---|-------------|--------------|-------------------|---------------|
|  | RPMW1003M0T | MR2500P | Steel & Cast Iron | 6882766 |
| | RPMW1204M0 | MR2500P | Steel & Cast Iron | 6882767 |



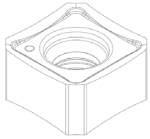
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INSERTS FOLLOWING THE GRADE MR2500P

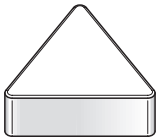
SNMX

| Insert | Description | Insert grade | Work material | Ordering code |
|--------|-------------|--------------|-------------------|---------------|
| | SNMX1206 | MR2500P | Steel & Cast Iron | 6689762 |



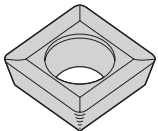
TNUN

| Insert | Description | Insert grade | Work material | Ordering code |
|--------|-------------|--------------|-------------------|---------------|
| | TNUN270620 | MR3000P | Steel & Cast Iron | 6894066 |



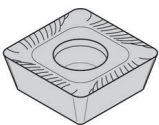
SDMT

| Insert | Description | Insert grade | Work material | Ordering code |
|--------|---------------|--------------|-------------------|---------------|
| | SDMT1204PDRMH | MR2500P | Steel & Cast Iron | 6768345 |



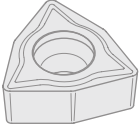
SOMT

| Insert | Description | Insert grade | Work material | Ordering code |
|--------|-----------------|--------------|-------------------|---------------|
| | SOMT060204ML | MR2500P | Steel & Cast Iron | 6882818 |
| | SOMT09T306-MRT2 | MR2500P | Steel & Cast Iron | 6826647 |



INSERTS FOLLOWING THE GRADE MR2500P

◆ WCMT/WCMX

| insert | description | insert grade | work material | ordering code |
|---|-----------------|--------------|-------------------|---------------|
|  | WCMX030208-MRT2 | MR2500P | Steel & Cast Iron | 6870150 |
| | WCMT040204-MRT2 | MR2500P | Steel & Cast Iron | 6740731 |
| | WCMT050308-MRT2 | MR2500P | Steel & Cast Iron | 6740732 |
| | WCMT06T308-MRT2 | MR2500P | Steel & Cast Iron | 6740733 |
| | WCMT080408-MRT2 | MR2500P | Steel & Cast Iron | 6740734 |
| | WCMT080412-MRT2 | MR2500P | Steel & Cast Iron | 6870151 |



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INDIA HEADQUARTERS

WIDIA

8/9th Mile, Tumkur Road
Bangalore, Karnataka 560073
Phone: +91 80 2839 4321

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