



Square 90° Inserts

# 90°正方形インサート

| 被削材<br>Work material          |                 | ●: 一般切削・第一推奨<br>General cutting, First recommended |                                 | ○: 一般切削・第二推奨<br>General cutting, Second recommended |   | P 鋼 Carbon steels |       | M SUS等 SUS, etc. |       | K FC-FCD |       | N アルミニウム合金 Aluminum Alloy |       | S チタン合金 Titanium Alloy |       | H 高硬度材 Hardened steels |  |  |  |
|-------------------------------|-----------------|--|---------------------------------|---|---|-------------------|-------|------------------|-------|----------|-------|---------------------------|-------|------------------------|-------|------------------------|--|--|--|
|                               |                 | ●  |                                 | ○   |   | ●                 |       | ○                |       | ●        |       | ○                         |       | ●                      |       | ○                      |  |  |  |
| 区分<br>Group                   | ブレーカ<br>Breaker | ブレーカ断面形状<br>Breaker cross-section shape            | 切りくず処理領域<br>Chip removal region | 商品コード<br>(メートル系)<br>Item Code (metric)              | コーナ半径<br>$r_\epsilon$<br>Nose radius (mm) | コーティング Coated     |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  |                                 |   |   | HGコート             | IPコート | GMコート            | IPコート | GXコート    | HXコート | HGコート                     | HGコート | HGコート                  | HGコート |                        |  |  |  |
| 荒切削<br>For Roughing           | RE              |  |                                 | SNMG120408-RE                                       | 0.8                                       |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  |                                 | SNMG120412-RE                                       | 1.2                                       |                   | ●     | ●                |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  |                                 | SNMG120416-RE                                       | 1.6                                       |                   | ●     | ●                |       |          |       |                           |       |                        |       |                        |  |  |  |
| 仕上切削<br>For Finishing         | MP              |  |                                 | SNMG120408-MP                                       | 0.8                                       |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  |                                 | SNMG120412-MP                                       | 1.2                                       |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
| 中切削<br>For Medium cutting     | PV              |  |                                 | SNMG120404-PV                                       | 0.4                                       |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  |                                 | SNMG120408-PV                                       | 0.8                                       |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  |                                 | SNMG120412-PV                                       | 1.2                                       |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               | SE              |  |                                 | SNMG120404-SE                                       | 0.4                                       |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  |                                 | SNMG120408-SE                                       | 0.8                                       |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
| DE                            |                 |  | SNMG120404-DE                   | 0.4   |   |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
| SNMG120408-DE                 | 0.8             |  |                                 |   |   |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
| SNMG120412-DE                 | 1.2             |  |                                 |   |   |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
| 仕上切削<br>For Finishing         | Y               |  |                                 | SNMG120408-Y  | 0.8                                       |                   |       | ●                |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  |                                 | SNMG120412-Y  | 1.2                                       |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
| 中切削<br>For Medium cutting     | V               |  |                                 | SNMG120408-V  | 0.8                                       | ●                 |       |                  | ●     |          |       |                           |       | ●                      | ●     |                        |  |  |  |
|                               |                 |  |                                 | SNMG120412-V  | 1.2                                       | ●                 |       |                  | ●     |          |       |                           |       |                        | ●     | ●                      |  |  |  |
|                               |                 |  |                                 | SNMG120416-V  | 1.6                                       | ●                 |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  |                                 | SNMG120420-V  | 2   | ●                 |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  |                                 | SNMG150612-V  | 1.2                                       |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  |                                 | SNMG190612-V  | 1.2                                       | ●                 | ●     |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  |                                 | SNMG190616-V  | 1.6                                       | ●                 | ●     |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               | SNMG250724-V    | 2.4  | ●                               |   |   |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               | SNMG250924-V    | 2.4  | ●                               |   |   |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
| VA                            |                 |  | SNMG120404-VA                   | 0.4   | ●   |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  | SNMG120408-VA                   | 0.8   | ●   |                   |       |                  |       |          |       |                           |       |                        | ●     |                        |  |  |  |
|                               |                 |  | SNMG120412-VA                   | 1.2   | ●   |                   |       |                  |       |          |       |                           |       |                        |       | ●                      |  |  |  |
|                               |                 |  | SNMG120416-VA                   | 1.6   | ●   |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
| 重切削<br>For Heavy-duty cutting | TE              |  |                                 | SNMM150616-TE                                       | 1.6                                       |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  |                                 | SNMM190612-TE                                       | 1.2                                       |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |
|                               |                 |  |                                 | SNMM190616-TE                                       | 1.6                                       |                   |       |                  |       |          |       |                           |       |                        |       |                        |  |  |  |

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| 被削材<br>Work material          |                            | ●：一般切削・第一推奨<br>General cutting, First recommended<br>◎：一般切削・第二推奨<br>General cutting, Second recommended |                                 | P 鋼 Carbon steels                      |                                     | M SUS等 SUS, etc. |       | K FC・FCD |       | N アルミニウム合金 Aluminum Alloy |       | S チタン合金 Titanium Alloy |       | H 高硬度材 Hardened steels |       |   |  |   |  |   |   |
|-------------------------------|----------------------------|---|---------------------------------|--|-------------------------------------|------------------|-------|----------|-------|---------------------------|-------|------------------------|-------|------------------------|-------|---|--|---|--|---|---|
|                               |                            |   |                                 | ●                                      | ◎                                   | ●                | ◎     | ●        | ◎     | ●                         | ◎     | ●                      | ◎     | ●                      | ◎     |   |  |   |  |   |   |
| 区分<br>Group                   | ブレーカ<br>Breaker            | ブレーカ断面形状<br>Breaker cross-section shape   | 切りくず処理領域<br>Chip removal region | 商品コード<br>(メートル系)<br>Item Code (metric) | コーナ<br>半径<br>rε<br>Nose radius (mm) | コーティング Coated    |       |          |       |                           |       |                        |       |                        |       | ノンコート<br>Non-coated<br>サーメット<br>Cermets |  |   |  |   |   |
|                               |                            |   |                                 |  |                                     | HGコート            | IPコート | GMコート    | IPコート | GMコート                     | IPコート | GXコート                  | HXコート | HGコート                  | HGコート | CH550                                   |  |   |  |   |   |
| 重切削<br>For Heavy-duty cutting | UE                         |   |                                 | SNMM190612-UE                          | 1.2                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMM190616-UE                          | 1.6                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               | HX                         |   |                                 | SNMM190612-HX                          | 1.2                                 |                  |       | ●        |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMM250716-HX                          | 1.6                                 |                  |       | ●        |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMM250724-HX                          | 2.4                                 |                  |       | ●        |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMM310924-HX                          | 2.4                                 |                  |       | ●        |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               | H                          |   |                                 | SNMM190612-H                           | 1.2                                 |                  |       | ●        | ●     |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMM190616-H                           | 1.6                                 |                  |       | ●        | ●     |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMM250712-H                           | 1.2                                 |                  |       | ●        |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMM250724-H                           | 2.4                                 |                  |       | ●        |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               | HE                         |   |                                 | SNMM250724-HE                          | 2.4                                 |                  |       | ●        |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMM310924-HE                          | 2.4                                 |                  |       | ●        |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
| 汎用切削<br>For General cutting   | 無し<br>Non Breaker          |   | —                               | SNMA090304                             | 0.4                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMA090308                             | 0.8                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMA120404                             | 0.4                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMA120408                             | 0.8                                 |                  |       | ●        | ●     |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMA120412                             | 1.2                                 |                  |       | ●        | ●     |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMA120416                             | 1.6                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMA120420                             | 2                                   |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMA190612                             | 1.2                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMA190616                             | 1.6                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMA250720                             | 2                                   |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNMA250924                             | 2.4                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNGA090304                             | 0.4                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
| SNGA090308                    | 0.8                        |   |                                 |  |                                     |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
| SNGA120408                    | 0.8                        |   |                                 |  |                                     |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
| 中切削<br>For Medium cutting     | 研ぎ付け<br>Handed ground type |   | 汎用<br>General                   | SNMG120404L-N                          | 0.4                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  | ● |  |   |   |
|                               |                            |   |                                 | SNMG120404R-N                          | 0.4                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  | ● |   |
|                               |                            |   |                                 | SNMG120408L-N                          | 0.8                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   | ● |
|                               |                            |   |                                 | SNMG120408R-N                          | 0.8                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   | ● |
|                               |                            |   |                                 | SNGG090304L-K                          | 0.4                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNGG090304R-K                          | 0.4                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNGG120404L-N                          | 0.4                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNGG120404L-O                          | 0.4                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNGG120404R-N                          | 0.4                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNGG120404R-O                          | 0.4                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNGG120408L-N                          | 0.8                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
|                               |                            |   |                                 | SNGG120408L-O                          | 0.8                                 |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
| SNGG120408R-N                 | 0.8                        |   |                                 |  |                                     |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |
| SNGG120408R-O                 | 0.8                        |   |                                 |  |                                     |                  |       |          |       |                           |       |                        |       |                        |       |   |  |   |  |   |   |

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|-----------------------------|-------------------|---|---|---------------------------------|--|-------------------------------------|---------------|--------|-----------------|--------|--------|-------|--------|--------|------------------|------------------|---------------|--------|--------|-------|------|------|--|--|--|--|--|--|
|                             |                   |   |   | M                               | SUS等                                   | SUS, etc.                           | ○             | ○      | ○               | ○      | ○      | ○     | ○      | ○      | ○                | ○                | ○             | ○      | ○      |       |      |      |  |  |  |  |  |  |
| 区分<br>Group                 |                   | ブレーカ<br>Breaker   | ブレーカ断面形状<br>Breaker cross-section shape | 切りくず処理領域<br>Chip removal region | 商品コード<br>(メートル系)<br>Item Code (metric) | コーナ<br>半径<br>rε<br>Nose radius (mm) | コーティング Coated |        |                 |        |        |       |        |        | ノンコート Non coated |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 |  |                                     | H             | 高硬度材   | Hardened steels | HGコート  | IPコート  | GMコート | IPコート  | GXコート  | HXコート            | サーメット<br>Cermets | 超硬<br>Carbide |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 |  |                                     |               | PVD    |                 | PVD    |        | PVD   |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 |  |                                     |               | HG8010 | HG8025          | IP2000 | IP3000 | GM25  | GM8020 | GM8035 | IP050S           | IP100S           | GX30          | HX3505 | HX3515 | CH550 | EX35 | WH10 |  |  |  |  |  |  |
| 汎用切削<br>For General cutting | 無し<br>Non Breaker |   |   | —                               | SNMN090304                             | 0.4                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN090308                             | 0.8                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN090312                             | 1.2                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN120308                             | 0.8                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN120312                             | 1.2                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN120316                             | 1.6                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN120320                             | 2                                   |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN120402                             | 0.2                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN120404                             | 0.4                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN120408                             | 0.8                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN120412                             | 1.2                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN120416                             | 1.6                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN120420                             | 2                                   |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN150404                             | 0.4                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN150408                             | 0.8                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN150412                             | 1.2                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN190404                             | 0.4                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN190408                             | 0.8                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN190412                             | 1.2                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNMN250716                             | 1.6                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
| SNMN250720                  | 2                 |   |   |                                 |  |                                     |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
| SNMN250724                  | 2.4               |   |   |                                 |  |                                     |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             | 無し<br>Non Breaker |   |   | —                               | SNGN090304                             | 0.4                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNGN090308                             | 0.8                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNGN090312                             | 1.2                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNGN120304                             | 0.4                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNGN120308                             | 0.8                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNGN120312                             | 1.2                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNGN120402                             | 0.2                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNGN120404                             | 0.4                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNGN120408                             | 0.8                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNGN120412                             | 1.2                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNGN120416                             | 1.6                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SNGN120420                             | 2                                   |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
| SNGN120424                  | 2.4               |   |   |                                 |  |                                     |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
| SNGN150404                  | 0.4               |   |   |                                 |  |                                     |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
| SNGN150408                  | 0.8               |   |   |                                 |  |                                     |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
| SNGN150412                  | 1.2               |   |   |                                 |  |                                     |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
| SNGN150416                  | 1.6               |   |   |                                 |  |                                     |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
| SNGN190408                  | 0.8               |   |   |                                 |  |                                     |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
| SNGN190412                  | 1.2               |   |   |                                 |  |                                     |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
| SNGN190416                  | 1.6               |   |   |                                 |  |                                     |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             | 無し<br>Non Breaker |   |   | —                               | SPMN090304                             | 0.4                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SPMN090308                             | 0.8                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SPMN120304                             | 0.4                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SPMN120308                             | 0.8                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
|                             |                   |   |   |                                 | SPMN120312                             | 1.2                                 |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |
| SPMN150404                  | 0.4               |   |   |                                 |  |                                     |               |        |                 |        |        |       |        |        |                  |                  |               |        |        |       |      |      |  |  |  |  |  |  |

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Square 90° Inserts

# 90°正方形インサート

| 被削材<br>Work material        |                            | ●：一般切削・第一推奨<br>General cutting, First recommended<br><br>◎：一般切削・第二推奨<br>General cutting, Second recommended |                                 | P 鋼 Carbon steels                      |                                    | M SUS等 SUS, etc. |       | K FC・FCD |       | N アルミニウム合金 Aluminum Alloy |       | S チタン合金 Titanium Alloy |       | H 高硬度材 Hardened steels |  |  |                           |   |  |  |
|-----------------------------|----------------------------|---|---------------------------------|--|------------------------------------|------------------|-------|----------|-------|---------------------------|-------|------------------------|-------|------------------------|--|--|---------------------------|---|--|--|
|                             |                            |   |                                 | コーティング Coated                          |                                    |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
| 区分<br>Group                 | ブレーカ<br>Breaker            | ブレーカ断面形状<br>Breaker cross-section shape   | 切りくず処理領域<br>Chip removal region | 商品コード<br>(メートル系)<br>Item Code (metric) | コーナ半径<br>$r_n$<br>Nose radius (mm) | コーティング Coated    |       |          |       |                           |       |                        |       |                        |  |  | コートセラメット<br>Coated Cermet |   |  |  |
|                             |                            |   |                                 |  |                                    | HGコート            | iPコート | GMコート    | iPコート | GXコート                     | HXコート | HGコート                  | CYコート |                        |  |  |                           |   |  |  |
| 汎用切削<br>For General cutting | 無し<br>Non Breaker          |   | —                               | SPMN150408                             | 0.8                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPMN150412                             | 1.2                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPMN190408                             | 0.8                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPMN190412                             | 1.2                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPMN190616                             | 1.6                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
| 仕上切削<br>For Finishing       | 無し<br>Non Breaker          |   | —                               | SPGB090308                             | 0.8                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 |  |                                    |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             | 研ぎ付け<br>Handed ground type |   |                                 | SPGH090302L                            | 0.2                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGH090304L                            | 0.4                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
| 中切削<br>For Medium cutting   | 研ぎ付け<br>Handed ground type |   | 汎用<br>General                   | SPGR090304L                            | 0.4                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGR090308L                            | 0.8                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGR120304L                            | 0.4                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGR120308L                            | 0.8                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
| 汎用切削<br>For General cutting | 無し<br>Non Breaker          |   | —                               | SPGN090302                             | 0.2                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGN090304                             | 0.4                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGN090308                             | 0.8                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGN090312                             | 1.2                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGN120302                             | 0.2                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGN120304                             | 0.4                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGN120308                             | 0.8                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGN120312                             | 1.2                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGN120402                             | 0.2                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGN120404                             | 0.4                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGN120408                             | 0.8                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGN150404                             | 0.4                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGN150408                             | 0.8                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPGN150412                             | 1.2                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
| SPGN190404                  | 0.4                        |   |                                 |  |                                    |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
| SPGN190408                  | 0.8                        |   |                                 |  |                                    |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
| SPGN190412                  | 1.2                        |   |                                 |  |                                    |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
| 仕上切削<br>For Finishing       | MP                         |   |                                 | SPMT090304-MP                          | 0.4                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPMT090308-MP                          | 0.8                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
| 中切削<br>For Medium cutting   | JE                         |   |                                 | SCMT09T304-JE                          | 0.4                                |                  | ●     | ●        |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SCMT09T308-JE                          | 0.8                                |                  | ●     | ●        |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SCMT120412-JE                          | 1.2                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPMT090304-JE                          | 0.4                                |                  |       |          |       |                           |       |                        |       |                        |  |  |                           |   |  |  |
|                             |                            |   |                                 | SPMT090308-JE                          | 0.8                                |                  | ●     | ●        |       |                           |       |                        |       |                        |  |  |                           | ● |  |  |

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