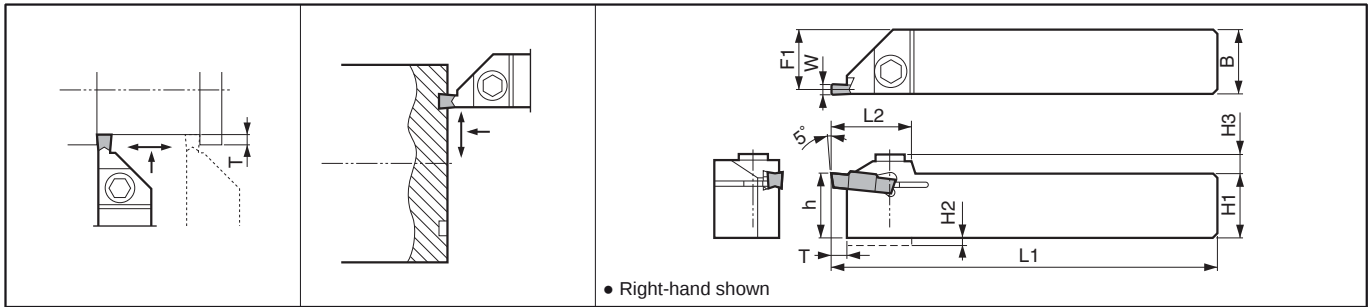
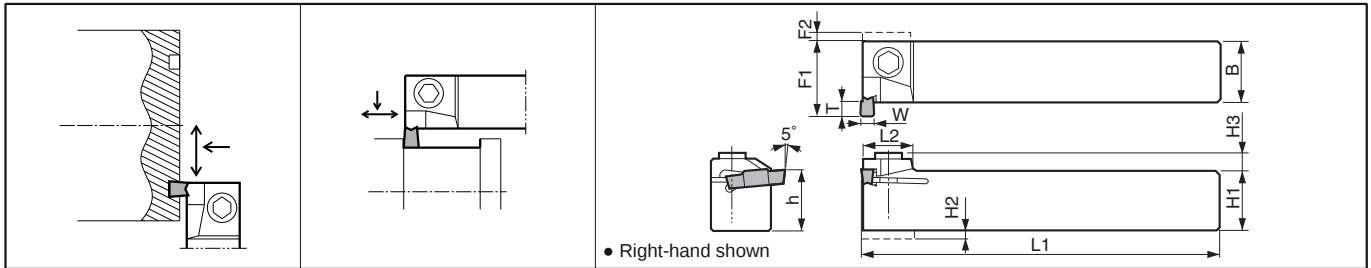


# External Grooving (External / Face Grooving) Toolholders

## KGMM



## KGMS



### Toolholder Dimensions

| Description                                                                                       | Std. |   | Dimension (mm) |    |    |    |     |    |      |     |     |  | Width W (mm) |     | Spare Parts |        |        |      |
|---------------------------------------------------------------------------------------------------|------|---|----------------|----|----|----|-----|----|------|-----|-----|--|--------------|-----|-------------|--------|--------|------|
|                                                                                                   | R    | L | H1-h           | H2 | H3 | B  | L1  | L2 | F1   | F2  | T   |  | MIN          | MAX | Screw       |        | Wrench |      |
|                                                                                                   |      |   |                |    |    |    |     |    |      |     |     |  |              |     |             |        |        |      |
| <b>KGMM<sup>R/L</sup></b><br><b>1212H-3</b><br><b>1616H-3</b><br><b>2020K-3</b><br><b>2525M-3</b> | ●    | ● | 12             | 4  | 5  | 12 | 100 | 25 | 10.8 | -   | 4.8 |  | 3.0          | 5.0 | SB-5TR      | -      | LTW-20 | -    |
|                                                                                                   | ●    | ● | 16             | -  | 5  | 16 | 125 | 17 | 14.8 | -   | -   |  | 3.0          | 5.0 | -           | HH5X16 | -      | LW-4 |
|                                                                                                   | ●    | ● | 20             | -  | 6  | 20 | 150 | 17 | 18.8 | -   | -   |  | 3.0          | 5.0 | -           | HH5X25 | -      | LW-4 |
|                                                                                                   | ●    | ● | 25             | -  | 6  | 25 | 150 | 17 | 23.8 | -   | -   |  | 3.0          | 5.0 | -           | HH5X25 | -      | LW-4 |
| <b>KGMS<sup>R/L</sup></b><br><b>1212H-3</b><br><b>1616H-3</b><br><b>2020K-3</b><br><b>2525M-3</b> | ●    | ● | 12             | 4  | 5  | 12 | 100 | 17 | 17   | 1.5 | 4.8 |  | 3.0          | 3.0 | SB-5TR      | -      | LTW-20 | -    |
|                                                                                                   | ●    | ● | 16             | -  | 5  | 16 | 125 | 17 | 21.5 | -   | -   |  | 3.0          | 5.0 | GS-50       | -      | -      | LW-3 |
|                                                                                                   | ●    | ● | 20             | -  | 6  | 20 | 150 | 17 | 25   | -   | -   |  | 3.0          | 5.0 | -           | HH5X16 | -      | LW-4 |
|                                                                                                   | ●    | ● | 25             | -  | 6  | 25 | 150 | 17 | 30   | -   | -   |  | 3.0          | 5.0 | -           | HH5X25 | -      | LW-4 |

\* Dimension T shows available grooving depth. (See the table **G52** for Face Grooving)

### Applicable Inserts [External Grooving]

| Applications                                                   | Grooving / Traversing                     | Grooving / Traversing                                                                  | Grooving                                                 | Full-R / Copying                                                                 | Grooving    | Grooving    | Grooving    | Grooving             | Grooving             | Grooving             |
|----------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------|-------------|-------------|-------------|----------------------|----------------------|----------------------|
| Ref. Page                                                      | G18                                       | G18                                                                                    | G18                                                      | G18                                                                              | G20         | G20         | G20         | G20                  | G20                  | G21                  |
| Insert                                                         |                                           |                                                                                        |                                                          |                                                                                  |             |             |             |                      |                      |                      |
| Toolholder                                                     |                                           |                                                                                        |                                                          |                                                                                  |             |             |             |                      |                      |                      |
| <b>KGMS<sup>R/L</sup> 1212H-3</b>                              | GMM3014..                                 | -                                                                                      | -                                                        | GMM3014..R                                                                       | -           | -           | -           | -                    | -                    | -                    |
| <b>KGMM<sup>R/L</sup>...3</b><br><b>KGMS<sup>R/L</sup>...3</b> | GMM3020..MW<br>GMM4020..MW<br>GMM5020..MW | GMG3020..MS<br>GMG3020..MS<br>GMG4020..MS<br>GMG4020..MS<br>GMG5020..MS<br>GMG5020..MS | GMG3020..MG<br>GMG3520..MG<br>GMG4020..MG<br>GMG5020..MG | GMG3020..R<br>GMG3020..R<br>GMG4020..R<br>GMG4020..R<br>GMG5020..R<br>GMG5020..R | GMM3020..MT | GMM3020..NB | GMM3020..TK | GMN3..TK<br>GMN4..TK | GMN3<br>GMN4<br>GMN5 | GMN3<br>GMN4<br>GMN5 |

### Applicable Inserts [Face Grooving]

| Applications                                                   | Grooving / Traversing                                                               | Grooving / Traversing                     | Grooving / Traversing                     | Grooving / Traversing                                                                  | Grooving                                                 | Full-R / Copying                                                                 | Grooving    | Grooving    | Grooving    | Grooving                                     |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------|-------------|-------------|-------------|----------------------------------------------|
| Ref. Page                                                      | G19                                                                                 | G18.19                                    | G18                                       | G18                                                                                    | G18                                                      | G18                                                                              | G20         | G20         | G20         | G20, G21                                     |
| Insert                                                         |                                                                                     |                                           |                                           |                                                                                        |                                                          |                                                                                  |             |             |             |                                              |
| Toolholder                                                     |                                                                                     |                                           |                                           |                                                                                        |                                                          |                                                                                  |             |             |             |                                              |
| <b>KGMS<sup>R/L</sup> 1212H-3</b>                              | -                                                                                   | GMM3014..RU                               | -                                         | -                                                                                      | -                                                        | -                                                                                | -           | -           | -           | -                                            |
| <b>KGMM<sup>R/L</sup>...3</b><br><b>KGMS<sup>R/L</sup>...3</b> | FGG <sup>R/L</sup> 3020..<br>FGG <sup>R/L</sup> 4020..<br>FGG <sup>R/L</sup> 5020.. | GMG3020..RU<br>GMG4020..RU<br>GMG5020..RU | GMG3020..MW<br>GMG4020..MW<br>GMG5020..MW | GMG3020..MS<br>GMG3020..MS<br>GMG4020..MS<br>GMG4020..MS<br>GMG5020..MS<br>GMG5020..MS | GMG3020..MG<br>GMG3520..MG<br>GMG4020..MG<br>GMG5020..MG | GMG3020..R<br>GMG3020..R<br>GMG4020..R<br>GMG4020..R<br>GMG5020..R<br>GMG5020..R | GMM3020..MT | GMM3020..NB | GMM3020..TK | GMN3<br>GMN4<br>GMN5<br>GMN3..TK<br>GMN4..TK |

For recommended cutting conditions, see page **G76**

For recommended cutting conditions of CBN / PCD, see page **G74**

● : Std. Item ○ : Check Availability R : Std. Item (R-hand Only) L : Std. Item (L-hand Only)