

# GEX

ECONOMICAL  
SOLUTIONS

AL- General Type Coated  
End Mill (Black) HRC45

AL-通用型塗層銑刀（黑色塗層）HRC45度

AS- General Type Coated  
End Mill (Bronze) HRC48

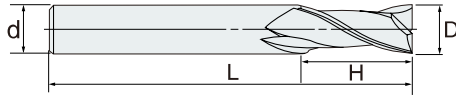
AS-通用型塗層銑刀（古銅色塗層）HRC48度

TUNGSTEN ENDMILL

[www.dohrecnc.com](http://www.dohrecnc.com)

# GEX 2 flutes square end mills

2刃立铣刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS

B68

| Product Code<br>产品编号 | Blade diameter<br>刃径 | Blade length<br>刃长 | Full<br>全长 | Shank<br>柄径 | Inventory 库存 |    |
|----------------------|----------------------|--------------------|------------|-------------|--------------|----|
|                      |                      |                    |            |             | AL           | AS |
| GEX2F01003005004     | 1.0                  | 3                  | 50         | 4           | ○            | ○  |
| GEX2F01504005004     | 1.5                  | 4                  | 50         | 4           | ○            | ○  |
| GEX2F02006005004     | 2.0                  | 6                  | 50         | 4           | ○            | ○  |
| GEX2F02507005004     | 2.5                  | 7                  | 50         | 4           | ○            | ○  |
| GEX2F03008005004     | 3.0                  | 8                  | 50         | 4           | ○            | ○  |
| GEX2F03510005004     | 3.5                  | 10                 | 50         | 4           | ○            | ○  |
| GEX2F04011005004     | 4.0                  | 11                 | 50         | 4           | ○            | ○  |
| GEX2F01003005006     | 1.0                  | 3                  | 50         | 6           | ○            | ○  |
| GEX2F01504005006     | 1.5                  | 4                  | 50         | 6           | ○            | ○  |
| GEX2F02006005006     | 2.0                  | 6                  | 50         | 6           | ○            | ○  |
| GEX2F02507005006     | 2.5                  | 7                  | 50         | 6           | ○            | ○  |
| GEX2F03008005006     | 3.0                  | 8                  | 50         | 6           | ○            | ○  |
| GEX2F03510005006     | 3.5                  | 10                 | 50         | 6           | ○            | ○  |
| GEX2F04011005006     | 4.0                  | 11                 | 50         | 6           | ○            | ○  |
| GEX2F04513005006     | 4.5                  | 13                 | 50         | 6           | ○            | ○  |
| GEX2F05013005006     | 5.0                  | 13                 | 50         | 6           | ○            | ○  |
| GEX2F05513005006     | 5.5                  | 13                 | 50         | 6           | ○            | ○  |
| GEX2F06015005006     | 6.0                  | 15                 | 50         | 6           | ○            | ○  |
| GEX2F06517006008     | 6.5                  | 17                 | 60         | 8           | ○            | ○  |
| GEX2F07017006008     | 7.0                  | 17                 | 60         | 8           | ○            | ○  |
| GEX2F07517006008     | 7.5                  | 17                 | 60         | 8           | ○            | ○  |
| GEX2F08020006008     | 8.0                  | 20                 | 60         | 8           | ○            | ○  |
| GEX2F08523007510     | 8.5                  | 23                 | 75         | 10          | ○            | ○  |
| GEX2F09023007510     | 9.0                  | 23                 | 75         | 10          | ○            | ○  |
| GEX2F09525007510     | 9.5                  | 25                 | 75         | 10          | ○            | ○  |
| GEX2F10025007510     | 10.0                 | 25                 | 75         | 10          | ○            | ○  |
| GEX2F10525007512     | 10.5                 | 25                 | 75         | 12          | ○            | ○  |
| GEX2F11028007512     | 11.0                 | 28                 | 75         | 12          | ○            | ○  |
| GEX2F11528007512     | 11.5                 | 28                 | 75         | 12          | ○            | ○  |
| GEX2F12030007512     | 12.0                 | 30                 | 75         | 12          | ○            | ○  |
| GEX2F13045010014     | 13.0                 | 45                 | 100        | 14          | ○            | ○  |
| GEX2F14045010014     | 14.0                 | 45                 | 100        | 14          | ○            | ○  |
| GEX2F15045010016     | 15.0                 | 45                 | 100        | 16          | ○            | ○  |
| GEX2F16045010016     | 16.0                 | 45                 | 100        | 16          | ○            | ○  |
| GEX2F17045010018     | 17.0                 | 45                 | 100        | 18          | ○            | ○  |
| GEX2F18045010018     | 18.0                 | 45                 | 100        | 18          | ○            | ○  |
| GEX2F19045010020     | 19.0                 | 45                 | 100        | 20          | ○            | ○  |
| GEX2F20045010020     | 20.0                 | 45                 | 100        | 20          | ○            | ○  |
| GEX2F22045010025     | 22.0                 | 45                 | 100        | 25          | ○            | ○  |
| GEX2F25045010025     | 25.0                 | 45                 | 100        | 25          | ○            | ○  |

## ★ WORK MATERIAL 被削材质

| GEX      |        |        |     |
|----------|--------|--------|-----|
| P20 S45C | SCM SK | FC FCD | CU  |
| 碳素钢      | 合金钢    | 铸铁     | 铜合金 |
| ●        | ●      | ●      | ●   |

## ★ TOLERANCES 公差

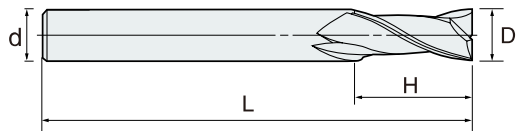
| Blade diameter<br>刃部直径 | Blade diameter tolerance<br>刃部直径公差 | Shank diameter tolerance<br>柄部直径公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ1.0~Φ2.9              | 0~-0.02                            | H6                                 |
| Φ3.0~Φ6.0              | -0.01~-0.03                        |                                    |
| Φ6.5~Φ10.5             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ16.0            | -0.01~-0.04                        |                                    |
| Φ17.0~Φ20.0            | -0.015~-0.045                      |                                    |

# GEX Long shank 2 flutes square end mills

長柄標準刃 2刃立銑刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS



B69

| Product Code<br>產品編號 | Blade diameter<br>刃徑 | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|--------------------|------------|-------------|--------------|----|
|                      |                      |                    |            |             | AL           | AS |
| GEX2F01003007504     | 1.0                  | 3                  | 75         | 4           | ○            | ○  |
| GEX2F01504507504     | 1.5                  | 4.5                | 75         | 4           | ○            | ○  |
| GEX2F02006007504     | 2.0                  | 6                  | 75         | 4           | ○            | ○  |
| GEX2F02507007504     | 2.5                  | 7                  | 75         | 4           | ○            | ○  |
| GEX2F03008007504     | 3.0                  | 8                  | 75         | 4           | ○            | ○  |
| GEX2F03510007504     | 3.5                  | 10                 | 75         | 4           | ○            | ○  |
| GEX2F04011007504     | 4.0                  | 11                 | 75         | 4           | ○            | ○  |
| GEX2F04513007506     | 4.5                  | 13                 | 75         | 6           | ○            | ○  |
| GEX2F05013007506     | 5.0                  | 13                 | 75         | 6           | ○            | ○  |
| GEX2F05513007506     | 5.5                  | 13                 | 75         | 6           | ○            | ○  |
| GEX2F06015007506     | 6.0                  | 15                 | 75         | 6           | ○            | ○  |
| GEX2F06517007508     | 6.5                  | 17                 | 75         | 8           | ○            | ○  |
| GEX2F07017007508     | 7.0                  | 17                 | 75         | 8           | ○            | ○  |
| GEX2F07517007508     | 7.5                  | 17                 | 75         | 8           | ○            | ○  |
| GEX2F08020007508     | 8.0                  | 20                 | 75         | 8           | ○            | ○  |
| GEX2F03008010006     | 3.0                  | 8                  | 100        | 6           | ○            | ○  |
| GEX2F04011010006     | 4.0                  | 11                 | 100        | 6           | ○            | ○  |
| GEX2F05013010006     | 5.0                  | 13                 | 100        | 6           | ○            | ○  |
| GEX2F06015010006     | 6.0                  | 15                 | 100        | 6           | ○            | ○  |
| GEX2F07017010008     | 7.0                  | 17                 | 100        | 8           | ○            | ○  |
| GEX2F08020010008     | 8.0                  | 20                 | 100        | 8           | ○            | ○  |
| GEX2F09023010010     | 9.0                  | 23                 | 100        | 10          | ○            | ○  |
| GEX2F10025010010     | 10.0                 | 25                 | 100        | 10          | ○            | ○  |
| GEX2F11028010012     | 11.0                 | 28                 | 100        | 12          | ○            | ○  |
| GEX2F12030010012     | 12.0                 | 30                 | 100        | 12          | ○            | ○  |
| GEX2F08020015008     | 8.0                  | 20                 | 150        | 8           | ○            | ○  |
| GEX2F10025015010     | 10.0                 | 25                 | 150        | 10          | ○            | ○  |
| GEX2F12030015012     | 12.0                 | 30                 | 150        | 12          | ○            | ○  |
| GEX2F16050015016     | 16.0                 | 50                 | 150        | 16          | ○            | ○  |
| GEX2F18050015018     | 18.0                 | 50                 | 150        | 18          | ○            | ○  |
| GEX2F20050015020     | 20.0                 | 50                 | 150        | 20          | ○            | ○  |
| GEX2F16050020016     | 16.0                 | 50                 | 200        | 16          | ○            | ○  |
| GEX2F20050020020     | 20.0                 | 50                 | 200        | 20          | ○            | ○  |

## ★ WORK MATERIAL 被削材質

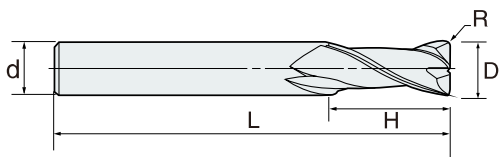
| GEX      |        |        |     |
|----------|--------|--------|-----|
| P20 S45C | SCM SK | FC FCD | CU  |
| 碳素鋼      | 合金鋼    | 鑄鐵     | 銅合金 |
| ●        | ●      | ●      | ●   |

## ★ TOLERANCES 公差

| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ1.0~Φ2.9              | 0~-0.02                            | H6                                 |
| Φ3.0~Φ6.0              | -0.01~-0.03                        |                                    |
| Φ6.5~Φ10.5             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ16.0            | -0.01~-0.04                        |                                    |
| Φ17.0~Φ20.0            | -0.015~-0.045                      |                                    |

# GEX 2 flutes corner radius end mills

圓鼻 2刃立銑刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS



| Product Code<br>產品編號 | Blade diameter<br>刃徑 | R   | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|-----|--------------------|------------|-------------|--------------|----|
|                      |                      |     |                    |            |             | AL           | AS |
| GEX2F010R0203005004  | 1.0                  | 0.2 | 3                  | 50         | 4           | ○            | ○  |
| GEX2F015R0204005004  | 1.5                  | 0.2 | 4                  | 50         | 4           | ○            | ○  |
| GEX2F015R0504005004  | 1.5                  | 0.5 | 4                  | 50         | 4           | ○            | ○  |
| GEX2F020R0206005004  | 2.0                  | 0.2 | 6                  | 50         | 4           | ○            | ○  |
| GEX2F020R0506005004  | 2.0                  | 0.5 | 6                  | 50         | 4           | ○            | ○  |
| GEX2F025R0208005004  | 2.5                  | 0.2 | 8                  | 50         | 4           | ○            | ○  |
| GEX2F025R0508005004  | 2.5                  | 0.5 | 8                  | 50         | 4           | ○            | ○  |
| GEX2F030R0208005004  | 3.0                  | 0.2 | 8                  | 50         | 4           | ○            | ○  |
| GEX2F030R0508005004  | 3.0                  | 0.5 | 8                  | 50         | 4           | ○            | ○  |
| GEX2F030R1000805004  | 3.0                  | 1.0 | 8                  | 50         | 4           | ○            | ○  |
| GEX2F040R0211005004  | 4.0                  | 0.2 | 11                 | 50         | 4           | ○            | ○  |
| GEX2F040R0511005004  | 4.0                  | 0.5 | 11                 | 50         | 4           | ○            | ○  |
| GEX2F040R1011005004  | 4.0                  | 1.0 | 11                 | 50         | 4           | ○            | ○  |
| GEX2F050R0513005006  | 5.0                  | 0.5 | 13                 | 50         | 6           | ○            | ○  |
| GEX2F050R1013005006  | 5.0                  | 1.0 | 13                 | 50         | 6           | ○            | ○  |
| GEX2F060R0215005006  | 6.0                  | 0.2 | 15                 | 50         | 6           | ○            | ○  |
| GEX2F060R0515005006  | 6.0                  | 0.5 | 15                 | 50         | 6           | ○            | ○  |
| GEX2F060R1015005006  | 6.0                  | 1.0 | 15                 | 50         | 6           | ○            | ○  |
| GEX2F060R1515005006  | 6.0                  | 1.5 | 15                 | 50         | 6           | ○            | ○  |
| GEX2F060R2015005006  | 6.0                  | 2.0 | 15                 | 50         | 6           | ○            | ○  |
| GEX2F080R0520006008  | 8.0                  | 0.5 | 20                 | 60         | 8           | ○            | ○  |
| GEX2F080R1020006008  | 8.0                  | 1.0 | 20                 | 60         | 8           | ○            | ○  |
| GEX2F080R1520006008  | 8.0                  | 1.5 | 20                 | 60         | 8           | ○            | ○  |
| GEX2F080R2020006008  | 8.0                  | 2.0 | 20                 | 60         | 8           | ○            | ○  |
| GEX2F100R0525007510  | 10.0                 | 0.5 | 25                 | 75         | 10          | ○            | ○  |
| GEX2F100R1025007510  | 10.0                 | 1.0 | 25                 | 75         | 10          | ○            | ○  |
| GEX2F100R1525007510  | 10.0                 | 1.5 | 25                 | 75         | 10          | ○            | ○  |
| GEX2F100R2025007510  | 10.0                 | 2.0 | 25                 | 75         | 10          | ○            | ○  |
| GEX2F100R2525007510  | 10.0                 | 2.5 | 25                 | 75         | 10          | ○            | ○  |
| GEX2F100R3025007510  | 10.0                 | 3.0 | 25                 | 75         | 10          | ○            | ○  |
| GEX2F120R0530007512  | 12.0                 | 0.5 | 30                 | 75         | 12          | ○            | ○  |
| GEX2F120R1030007512  | 12.0                 | 1.0 | 30                 | 75         | 12          | ○            | ○  |
| GEX2F120R1530007512  | 12.0                 | 1.5 | 30                 | 75         | 12          | ○            | ○  |
| GEX2F120R2030007512  | 12.0                 | 2.0 | 30                 | 75         | 12          | ○            | ○  |
| GEX2F120R2530007512  | 12.0                 | 2.5 | 30                 | 75         | 12          | ○            | ○  |
| GEX2F120R3030007512  | 12.0                 | 3.0 | 30                 | 75         | 12          | ○            | ○  |

## ★ WORK MATERIAL 被削材質

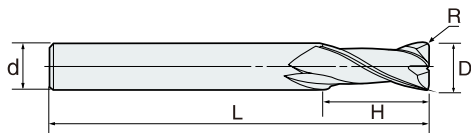
| GEX      |        |        |     |
|----------|--------|--------|-----|
| P20 S45C | SCM SK | FC FCD | CU  |
| 碳素鋼      | 合金鋼    | 鑄鐵     | 銅合金 |
| ●        | ●      | ●      | ●   |

## ★ TOLERANCES 公差

| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ1.0~Φ2.9              | 0~-0.02                            | H6                                 |
| Φ3.0~Φ6.0              | -0.01~-0.03                        |                                    |
| Φ6.5~Φ10.5             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ12.0            | -0.01~-0.04                        |                                    |

# GEX Long shank 2 flutes corner radius end mills

長柄圓鼻2刃立銼刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS

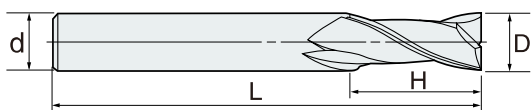
B71

| Product Code<br>產品編號 | Blade diameter<br>刃徑 | R   | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|-----|--------------------|------------|-------------|--------------|----|
|                      |                      |     |                    |            |             | AL           | AS |
| GEX2F010R0203007504  | 1.0                  | 0.2 | 3                  | 75         | 4           | ⊙            | ⊙  |
| GEX2F015R0204007504  | 1.5                  | 0.2 | 4                  | 75         | 4           | ⊙            | ⊙  |
| GEX2F015R0504007504  | 1.5                  | 0.5 | 4                  | 75         | 4           | ⊙            | ⊙  |
| GEX2F020R0206007504  | 2.0                  | 0.2 | 6                  | 75         | 4           | ⊙            | ⊙  |
| GEX2F020R0506007504  | 2.0                  | 0.5 | 6                  | 75         | 4           | ⊙            | ⊙  |
| GEX2F025R0208007504  | 2.5                  | 0.2 | 8                  | 75         | 4           | ⊙            | ⊙  |
| GEX2F025R0508007504  | 2.5                  | 0.5 | 8                  | 75         | 4           | ⊙            | ⊙  |
| GEX2F030R0208007504  | 3.0                  | 0.2 | 8                  | 75         | 4           | ⊙            | ⊙  |
| GEX2F030R0508007504  | 3.0                  | 0.5 | 8                  | 75         | 4           | ⊙            | ⊙  |
| GEX2F030R1008007504  | 3.0                  | 1.0 | 8                  | 75         | 4           | ⊙            | ⊙  |
| GEX2F040R0201107504  | 4.0                  | 0.2 | 11                 | 75         | 4           | ⊙            | ⊙  |
| GEX2F040R0501107504  | 4.0                  | 0.5 | 11                 | 75         | 4           | ⊙            | ⊙  |
| GEX2F040R1001107504  | 4.0                  | 1.0 | 11                 | 75         | 4           | ⊙            | ⊙  |
| GEX2F050R0513007506  | 5.0                  | 0.5 | 11                 | 75         | 6           | ⊙            | ⊙  |
| GEX2F050R1015007506  | 5.0                  | 1.0 | 13                 | 75         | 6           | ⊙            | ⊙  |
| GEX2F060R0215007506  | 6.0                  | 0.2 | 15                 | 75         | 6           | ⊙            | ⊙  |
| GEX2F060R0515007506  | 6.0                  | 0.5 | 15                 | 75         | 6           | ⊙            | ⊙  |
| GEX2F060R1015007506  | 6.0                  | 1.0 | 15                 | 75         | 6           | ⊙            | ⊙  |
| GEX2F060R1515007506  | 6.0                  | 1.5 | 15                 | 75         | 6           | ⊙            | ⊙  |
| GEX2F060R2015007506  | 6.0                  | 2.0 | 15                 | 75         | 6           | ⊙            | ⊙  |
| GEX2F080R0520007508  | 8.0                  | 0.5 | 20                 | 75         | 8           | ⊙            | ⊙  |
| GEX2F080R1020007508  | 8.0                  | 1.0 | 20                 | 75         | 8           | ⊙            | ⊙  |
| GEX2F080R1520007508  | 8.0                  | 1.5 | 20                 | 75         | 8           | ⊙            | ⊙  |
| GEX2F080R2020007508  | 8.0                  | 2.0 | 20                 | 75         | 8           | ⊙            | ⊙  |
| GEX2F040R0211010006  | 4.0                  | 0.2 | 11                 | 100        | 6           | ⊙            | ⊙  |
| GEX2F040R0511010006  | 4.0                  | 0.5 | 11                 | 100        | 6           | ⊙            | ⊙  |
| GEX2F040R1011010006  | 4.0                  | 1.0 | 11                 | 100        | 6           | ⊙            | ⊙  |
| GEX2F050R0513010006  | 5.0                  | 0.5 | 13                 | 100        | 6           | ⊙            | ⊙  |
| GEX2F050R1013010006  | 5.0                  | 1.0 | 13                 | 100        | 6           | ⊙            | ⊙  |
| GEX2F060R0215010006  | 6.0                  | 0.2 | 15                 | 100        | 6           | ⊙            | ⊙  |
| GEX2F060R0515010006  | 6.0                  | 0.5 | 15                 | 100        | 6           | ⊙            | ⊙  |
| GEX2F060R1015010006  | 6.0                  | 1.0 | 15                 | 100        | 6           | ⊙            | ⊙  |
| GEX2F060R1515010006  | 6.0                  | 1.5 | 15                 | 100        | 6           | ⊙            | ⊙  |
| GEX2F060R2015010006  | 6.0                  | 2.0 | 15                 | 100        | 6           | ⊙            | ⊙  |
| GEX2F080R0520010008  | 8.0                  | 0.5 | 20                 | 100        | 8           | ⊙            | ⊙  |
| GEX2F080R1020010008  | 8.0                  | 1.0 | 20                 | 100        | 8           | ⊙            | ⊙  |
| GEX2F080R1520010008  | 8.0                  | 1.5 | 20                 | 100        | 8           | ⊙            | ⊙  |
| GEX2F080R2020010008  | 8.0                  | 2.0 | 20                 | 100        | 8           | ⊙            | ⊙  |
| GEX2F100R0525010010  | 10.0                 | 0.5 | 25                 | 100        | 10          | ⊙            | ⊙  |
| GEX2F100R1025010010  | 10.0                 | 1.0 | 25                 | 100        | 10          | ⊙            | ⊙  |
| GEX2F100R1525010010  | 10.0                 | 1.5 | 25                 | 100        | 10          | ⊙            | ⊙  |
| GEX2F100R2025010010  | 10.0                 | 2.0 | 25                 | 100        | 10          | ⊙            | ⊙  |
| GEX2F100R2525010010  | 10.0                 | 2.5 | 25                 | 100        | 10          | ⊙            | ⊙  |
| GEX2F100R3025010010  | 10.0                 | 3.0 | 25                 | 100        | 10          | ⊙            | ⊙  |
| GEX2F120R0530010012  | 12.0                 | 0.5 | 30                 | 100        | 12          | ⊙            | ⊙  |
| GEX2F120R1030010012  | 12.0                 | 1.0 | 30                 | 100        | 12          | ⊙            | ⊙  |
| GEX2F120R1530010012  | 12.0                 | 1.5 | 30                 | 100        | 12          | ⊙            | ⊙  |
| GEX2F120R2030010012  | 12.0                 | 2.0 | 30                 | 100        | 12          | ⊙            | ⊙  |
| GEX2F120R2530010012  | 12.0                 | 2.5 | 30                 | 100        | 12          | ⊙            | ⊙  |
| GEX2F120R3030010012  | 12.0                 | 3.0 | 30                 | 100        | 12          | ⊙            | ⊙  |

■Special specifications can be customized. ■特殊規格可訂制。

# GEX 3 flutes square end mills

3刃立铣刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS



| Product Code<br>產品編號 | Blade diameter<br>刃徑 | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|--------------------|------------|-------------|--------------|----|
|                      |                      |                    |            |             | AL           | AS |
| GEX3F01003005004     | 1.0                  | 3                  | 50         | 4           | ○            | ○  |
| GEX3F01504505004     | 1.5                  | 4.5                | 50         | 4           | ○            | ○  |
| GEX3F02006005004     | 2.0                  | 6                  | 50         | 4           | ○            | ○  |
| GEX3F02507005004     | 2.5                  | 7                  | 50         | 4           | ○            | ○  |
| GEX3F03008005004     | 3.0                  | 8                  | 50         | 4           | ○            | ○  |
| GEX3F03510005004     | 3.5                  | 10                 | 50         | 4           | ○            | ○  |
| GEX3F04011005004     | 4.0                  | 11                 | 50         | 4           | ○            | ○  |
| GEX3F04511005006     | 4.5                  | 11                 | 50         | 6           | ○            | ○  |
| GEX3F05013005006     | 5.0                  | 13                 | 50         | 6           | ○            | ○  |
| GEX3F05513005006     | 5.5                  | 13                 | 50         | 6           | ○            | ○  |
| GEX3F06015005006     | 6.0                  | 15                 | 50         | 6           | ○            | ○  |
| GEX3F06515006008     | 6.5                  | 15                 | 60         | 8           | ○            | ○  |
| GEX3F07017006008     | 7.0                  | 17                 | 60         | 8           | ○            | ○  |
| GEX3F07517006008     | 7.5                  | 17                 | 60         | 8           | ○            | ○  |
| GEX3F08020006008     | 8.0                  | 20                 | 60         | 8           | ○            | ○  |
| GEX3F08520007510     | 8.5                  | 20                 | 75         | 10          | ○            | ○  |
| GEX3F09023007510     | 9.0                  | 23                 | 75         | 10          | ○            | ○  |
| GEX3F09523007510     | 9.5                  | 23                 | 75         | 10          | ○            | ○  |
| GEX3F10025007510     | 10.0                 | 25                 | 75         | 10          | ○            | ○  |
| GEX3F10525007512     | 10.5                 | 25                 | 75         | 12          | ○            | ○  |
| GEX3F11028007512     | 11.0                 | 28                 | 75         | 12          | ○            | ○  |
| GEX3F11528007512     | 11.5                 | 28                 | 75         | 12          | ○            | ○  |
| GEX3F12030007512     | 12.0                 | 30                 | 75         | 12          | ○            | ○  |
| GEX3F13045010014     | 13.0                 | 45                 | 100        | 14          | ○            | ○  |
| GEX3F14045010014     | 14.0                 | 45                 | 100        | 14          | ○            | ○  |
| GEX3F15045010016     | 15.0                 | 45                 | 100        | 16          | ○            | ○  |
| GEX3F16045010016     | 16.0                 | 45                 | 100        | 16          | ○            | ○  |
| GEX3F17045010018     | 17.0                 | 45                 | 100        | 18          | ○            | ○  |
| GEX3F18045010018     | 18.0                 | 45                 | 100        | 18          | ○            | ○  |
| GEX3F19045010020     | 19.0                 | 45                 | 100        | 20          | ○            | ○  |
| GEX3F20045010020     | 20.0                 | 45                 | 100        | 20          | ○            | ○  |
| GEX3F22045010025     | 22.0                 | 45                 | 100        | 25          | ○            | ○  |
| GEX3F25045010025     | 25.0                 | 45                 | 100        | 25          | ○            | ○  |

## ★ WORK MATERIAL 被削材質

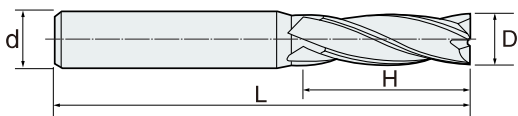
| GEX      |        |        |     |
|----------|--------|--------|-----|
| P20 S45C | SCM SK | FC FCD | CU  |
| 碳素鋼      | 合金鋼    | 鑄鐵     | 銅合金 |
| ●        | ●      | ●      | ●   |

## ★ TOLERANCES 公差

| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ1.0~Φ2.9              | 0~-0.02                            | H6                                 |
| Φ3.0~Φ6.4              | -0.01~-0.03                        |                                    |
| Φ6.5~Φ10.9             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ16.5            | -0.01~-0.04                        |                                    |
| Φ17.0~Φ20.0            | -0.015~-0.045                      |                                    |
| Φ20.5~Φ25.0            | -0.015~-0.05                       |                                    |

# GEX 4 flutes square end mills

4刃立铣刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS

B73

| Product Code<br>產品編號 | Blade diameter<br>刃徑 | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|--------------------|------------|-------------|--------------|----|
|                      |                      |                    |            |             | AL           | AS |
| GEX4F01003005004     | 1.0                  | 3                  | 50         | 4           | ○            | ○  |
| GEX4F01504505004     | 1.5                  | 4.5                | 50         | 4           | ○            | ○  |
| GEX4F02006005004     | 2.0                  | 6                  | 50         | 4           | ○            | ○  |
| GEX4F02507005004     | 2.5                  | 7                  | 50         | 4           | ○            | ○  |
| GEX4F03008005004     | 3.0                  | 8                  | 50         | 4           | ○            | ○  |
| GEX4F03510005004     | 3.5                  | 10                 | 50         | 4           | ○            | ○  |
| GEX4F04011005004     | 4.0                  | 11                 | 50         | 4           | ○            | ○  |
| GEX4F04513005006     | 4.5                  | 13                 | 50         | 6           | ○            | ○  |
| GEX4F05013005006     | 5.0                  | 13                 | 50         | 6           | ○            | ○  |
| GEX4F05513005006     | 5.5                  | 13                 | 50         | 6           | ○            | ○  |
| GEX4F06015005006     | 6.0                  | 15                 | 50         | 6           | ○            | ○  |
| GEX4F06517006008     | 6.5                  | 17                 | 60         | 8           | ○            | ○  |
| GEX4F07017006008     | 7.0                  | 17                 | 60         | 8           | ○            | ○  |
| GEX4F07517006008     | 7.5                  | 17                 | 60         | 8           | ○            | ○  |
| GEX4F08020006008     | 8.0                  | 20                 | 60         | 8           | ○            | ○  |
| GEX4F08523007510     | 8.5                  | 23                 | 75         | 10          | ○            | ○  |
| GEX4F09023007510     | 9.0                  | 23                 | 75         | 10          | ○            | ○  |
| GEX4F09525007510     | 9.5                  | 25                 | 75         | 10          | ○            | ○  |
| GEX4F10025007510     | 10.0                 | 25                 | 75         | 10          | ○            | ○  |
| GEX4F10525007512     | 10.5                 | 25                 | 75         | 12          | ○            | ○  |
| GEX4F11028007512     | 11.0                 | 28                 | 75         | 12          | ○            | ○  |
| GEX4F11528007512     | 11.5                 | 28                 | 75         | 13          | ○            | ○  |
| GEX4F12030007512     | 12.0                 | 30                 | 75         | 13          | ○            | ○  |
| GEX4F13045010014     | 13.0                 | 45                 | 100        | 14          | ○            | ○  |
| GEX4F14045010014     | 14.0                 | 45                 | 100        | 14          | ○            | ○  |
| GEX4F15045010016     | 15.0                 | 45                 | 100        | 16          | ○            | ○  |
| GEX4F16045010016     | 16.0                 | 45                 | 100        | 16          | ○            | ○  |
| GEX4F17045010018     | 17.0                 | 45                 | 100        | 18          | ○            | ○  |
| GEX4F18045010018     | 18.0                 | 45                 | 100        | 18          | ○            | ○  |
| GEX4F19045010020     | 19.0                 | 45                 | 100        | 20          | ○            | ○  |
| GEX4F20045010020     | 20.0                 | 45                 | 100        | 20          | ○            | ○  |
| GEX4F22045010025     | 22.0                 | 45                 | 100        | 25          | ○            | ○  |
| GEX4F25045010025     | 25.0                 | 45                 | 100        | 25          | ○            | ○  |

## ★ WORK MATERAIL 被削材質

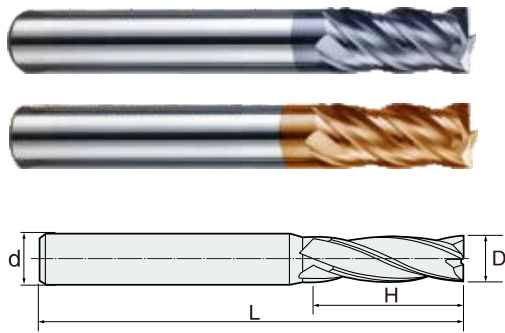
| GEX      |        |        |     |
|----------|--------|--------|-----|
| P20 S45C | SCM SK | FC FCD | CU  |
| 碳素鋼      | 合金鋼    | 鑄鐵     | 銅合金 |
| ●        | ●      | ●      | ●   |

## ★ TOLERANCES 公差

| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ1.0~Φ2.9              | 0~-0.02                            | H6                                 |
| Φ3.0~Φ6.4              | -0.01~-0.03                        |                                    |
| Φ6.5~Φ10.9             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ16.5            | -0.01~-0.04                        |                                    |
| Φ17.0~Φ20.0            | -0.015~-0.045                      |                                    |
| Φ20.5~Φ25.0            | -0.015~-0.05                       |                                    |

# GEX Long shank 4 flutes square end mills

長柄標準刃 4刃立銑刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS

B74

| Product Code<br>產品編號 | Blade diameter<br>刃徑 | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|--------------------|------------|-------------|--------------|----|
|                      |                      |                    |            |             | AL           | AS |
| GEX4F01003007504     | 1.0                  | 3                  | 75         | 4           | ○            | ○  |
| GEX4F01504507504     | 1.5                  | 4.5                | 75         | 4           | ○            | ○  |
| GEX4F02006007504     | 2.0                  | 6                  | 75         | 4           | ○            | ○  |
| GEX4F02507007504     | 2.5                  | 7                  | 75         | 4           | ○            | ○  |
| GEX4F03008007504     | 3.0                  | 8                  | 75         | 4           | ○            | ○  |
| GEX4F03510007504     | 3.5                  | 10                 | 75         | 4           | ○            | ○  |
| GEX4F04011007504     | 4.0                  | 11                 | 75         | 4           | ○            | ○  |
| GEX4F04513007506     | 4.5                  | 13                 | 75         | 6           | ○            | ○  |
| GEX4F05013007506     | 5.0                  | 13                 | 75         | 6           | ○            | ○  |
| GEX4F05513007506     | 5.5                  | 13                 | 75         | 6           | ○            | ○  |
| GEX4F06015007506     | 6.0                  | 15                 | 75         | 6           | ○            | ○  |
| GEX4F06517007508     | 6.5                  | 17                 | 75         | 8           | ○            | ○  |
| GEX4F07017007508     | 7.0                  | 17                 | 75         | 8           | ○            | ○  |
| GEX4F07517007508     | 7.5                  | 17                 | 75         | 8           | ○            | ○  |
| GEX4F08020007508     | 8.0                  | 20                 | 75         | 8           | ○            | ○  |
| GEX4F03008010006     | 3.0                  | 8                  | 100        | 6           | ○            | ○  |
| GEX4F04011010006     | 4.0                  | 11                 | 100        | 6           | ○            | ○  |
| GEX4F05013010006     | 5.0                  | 13                 | 100        | 6           | ○            | ○  |
| GEX4F06015010006     | 6.0                  | 15                 | 100        | 6           | ○            | ○  |
| GEX4F07017010008     | 7.0                  | 17                 | 100        | 8           | ○            | ○  |
| GEX4F08020010008     | 8.0                  | 20                 | 100        | 8           | ○            | ○  |
| GEX4F09023010010     | 9.0                  | 23                 | 100        | 10          | ○            | ○  |
| GEX4F10025010010     | 10.0                 | 25                 | 100        | 10          | ○            | ○  |
| GEX4F11028010012     | 11.0                 | 28                 | 100        | 12          | ○            | ○  |
| GEX4F12030010012     | 12.0                 | 30                 | 100        | 12          | ○            | ○  |
| GEX4F08020015008     | 8.0                  | 20                 | 150        | 8           | ○            | ○  |
| GEX4F10025015010     | 10.0                 | 25                 | 150        | 10          | ○            | ○  |
| GEX4F12030015012     | 12.0                 | 30                 | 150        | 12          | ○            | ○  |
| GEX4F16050015016     | 16.0                 | 50                 | 150        | 16          | ○            | ○  |
| GEX4F18050015018     | 18.0                 | 50                 | 150        | 18          | ○            | ○  |
| GEX4F20050015020     | 20.0                 | 50                 | 150        | 20          | ○            | ○  |
| GEX4F16050020016     | 16.0                 | 50                 | 200        | 16          | ○            | ○  |
| GEX4F20050020020     | 20.0                 | 50                 | 200        | 20          | ○            | ○  |

## ★ WORK MATERIAL 被削材質

| GEX      |        |        |     |
|----------|--------|--------|-----|
| P20 S45C | SCM SK | FC FCD | CU  |
| 碳素鋼      | 合金鋼    | 鑄鐵     | 銅合金 |
| ●        | ●      | ●      | ●   |

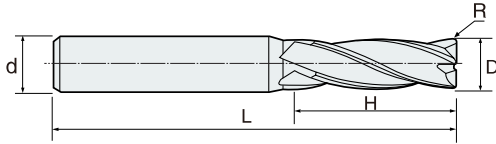
## ★ TOLERANCES 公差

| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ1.0~Φ2.9              | 0~-0.02                            | H6                                 |
| Φ3.0~Φ6.0              | -0.01~-0.03                        |                                    |
| Φ6.5~Φ10.5             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ16.0            | -0.01~-0.04                        |                                    |
| Φ17.0~Φ20.0            | -0.015~-0.045                      |                                    |



# GEX 4 flutes corner radius end mills

圓鼻 4刃立銑刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS

B75

| Product Code<br>產品編號 | Blade diameter<br>刃徑 | R   | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|-----|--------------------|------------|-------------|--------------|----|
|                      |                      |     |                    |            |             | AL           | AS |
| GEX4F010R0203005004  | 1.0                  | 0.2 | 3                  | 50         | 4           | ○            | ○  |
| GEX4F015R0204005004  | 1.5                  | 0.2 | 4                  | 50         | 4           | ○            | ○  |
| GEX4F015R0504005004  | 1.5                  | 0.5 | 4                  | 50         | 4           | ○            | ○  |
| GEX4F020R0206005004  | 2.0                  | 0.2 | 6                  | 50         | 4           | ○            | ○  |
| GEX4F020R0506005004  | 2.0                  | 0.5 | 6                  | 50         | 4           | ○            | ○  |
| GEX4F025R0208005004  | 2.5                  | 0.2 | 8                  | 50         | 4           | ○            | ○  |
| GEX4F025R0508005004  | 2.5                  | 0.5 | 8                  | 50         | 4           | ○            | ○  |
| GEX4F030R0208005004  | 3.0                  | 0.2 | 8                  | 50         | 4           | ○            | ○  |
| GEX4F030R0508005004  | 3.0                  | 0.5 | 8                  | 50         | 4           | ○            | ○  |
| GEX4F030R1008005004  | 3.0                  | 1.0 | 8                  | 50         | 4           | ○            | ○  |
| GEX4F040R0201105004  | 4.0                  | 0.2 | 11                 | 50         | 4           | ○            | ○  |
| GEX4F040R0501105004  | 4.0                  | 0.5 | 11                 | 50         | 4           | ○            | ○  |
| GEX4F040R1001105004  | 4.0                  | 1.0 | 11                 | 50         | 4           | ○            | ○  |
| GEX4F050R0513005006  | 5.0                  | 0.5 | 13                 | 50         | 6           | ○            | ○  |
| GEX4F050R1013005006  | 5.0                  | 1.0 | 13                 | 50         | 6           | ○            | ○  |
| GEX4F060R0215005006  | 6.0                  | 0.2 | 15                 | 50         | 6           | ○            | ○  |
| GEX4F060R0515005006  | 6.0                  | 0.5 | 15                 | 50         | 6           | ○            | ○  |
| GEX4F060R1015005006  | 6.0                  | 1.0 | 15                 | 50         | 6           | ○            | ○  |
| GEX4F060R1515005006  | 6.0                  | 1.5 | 15                 | 50         | 6           | ○            | ○  |
| GEX4F060R2015005006  | 6.0                  | 2.0 | 15                 | 50         | 6           | ○            | ○  |
| GEX4F080R0520006008  | 8.0                  | 0.5 | 20                 | 60         | 8           | ○            | ○  |
| GEX4F080R1020006008  | 8.0                  | 1.0 | 20                 | 60         | 8           | ○            | ○  |
| GEX4F080R1520006008  | 8.0                  | 1.5 | 20                 | 60         | 8           | ○            | ○  |
| GEX4F080R2020006008  | 8.0                  | 2.0 | 20                 | 60         | 8           | ○            | ○  |
| GEX4F100R0525007510  | 10.0                 | 0.5 | 25                 | 75         | 10          | ○            | ○  |
| GEX4F100R1025007510  | 10.0                 | 1.0 | 25                 | 75         | 10          | ○            | ○  |
| GEX4F100R1525007510  | 10.0                 | 1.5 | 25                 | 75         | 10          | ○            | ○  |
| GEX4F100R2025007510  | 10.0                 | 2.0 | 25                 | 75         | 10          | ○            | ○  |
| GEX4F100R2525007510  | 10.0                 | 2.5 | 25                 | 75         | 10          | ○            | ○  |
| GEX4F100R3025007510  | 10.0                 | 3.0 | 25                 | 75         | 10          | ○            | ○  |
| GEX4F120R0530007512  | 12.0                 | 0.5 | 30                 | 75         | 12          | ○            | ○  |
| GEX4F120R1030007512  | 12.0                 | 1.0 | 30                 | 75         | 12          | ○            | ○  |
| GEX4F120R1530007512  | 12.0                 | 1.5 | 30                 | 75         | 12          | ○            | ○  |
| GEX4F120R2030007512  | 12.0                 | 2.0 | 30                 | 75         | 12          | ○            | ○  |
| GEX4F120R2530007512  | 12.0                 | 2.5 | 30                 | 75         | 12          | ○            | ○  |
| GEX4F120R3030007512  | 12.0                 | 3.0 | 30                 | 75         | 12          | ○            | ○  |

## ★ WORK MATERIAL 被削材質

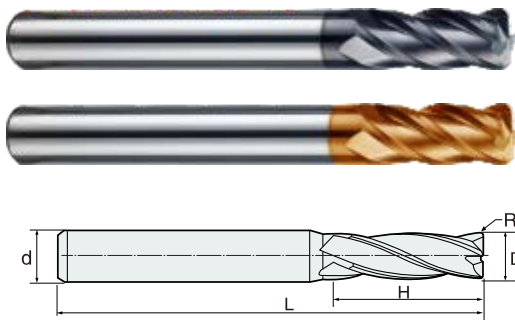
| GEX      |        |        |     |
|----------|--------|--------|-----|
| P20 S45C | SCM SK | FC FCD | CU  |
| 碳素鋼      | 合金鋼    | 鑄鐵     | 銅合金 |
| ●        | ●      | ●      | ●   |

## ★ TOLERANCES 公差

| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ1.0~Φ2.9              | 0~-0.02                            | H6                                 |
| Φ3.0~Φ6.0              | -0.01~-0.03                        |                                    |
| Φ6.5~Φ10.5             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ12.0            | -0.01~-0.04                        |                                    |

# GEX Long shank 4 flutes corner radius end mills

長柄圓鼻4刃立銼刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS

B76

| Product Code<br>產品編號 | Blade diameter<br>刃徑 | R   | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|-----|--------------------|------------|-------------|--------------|----|
|                      |                      |     |                    |            |             | AL           | AS |
| GEX4F010R0203007504  | 1.0                  | 0.2 | 3                  | 75         | 4           | ○            | ○  |
| GEX4F015R0203007504  | 1.5                  | 0.2 | 4                  | 75         | 4           | ○            | ○  |
| GEX4F015R0503007504  | 1.5                  | 0.5 | 4                  | 75         | 4           | ○            | ○  |
| GEX4F020R0206007504  | 2.0                  | 0.2 | 6                  | 75         | 4           | ○            | ○  |
| GEX4F020R0506007504  | 2.0                  | 0.5 | 6                  | 75         | 4           | ○            | ○  |
| GEX4F025R0208007504  | 2.5                  | 0.2 | 8                  | 75         | 4           | ○            | ○  |
| GEX4F025R0508007504  | 2.5                  | 0.5 | 8                  | 75         | 4           | ○            | ○  |
| GEX4F030R0208007504  | 3.0                  | 0.2 | 8                  | 75         | 4           | ○            | ○  |
| GEX4F030R0508007504  | 3.0                  | 0.5 | 8                  | 75         | 4           | ○            | ○  |
| GEX4F030R1008007504  | 3.0                  | 1.0 | 8                  | 75         | 4           | ○            | ○  |
| GEX4F040R0201107504  | 4.0                  | 0.2 | 11                 | 75         | 4           | ○            | ○  |
| GEX4F040R0501107504  | 4.0                  | 0.5 | 11                 | 75         | 4           | ○            | ○  |
| GEX4F040R1001107504  | 4.0                  | 1.0 | 11                 | 75         | 4           | ○            | ○  |
| GEX4F050R0511007506  | 5.0                  | 0.5 | 11                 | 75         | 6           | ○            | ○  |
| GEX4F050R1013007506  | 5.0                  | 1.0 | 13                 | 75         | 6           | ○            | ○  |
| GEX4F060R0215007506  | 6.0                  | 0.2 | 15                 | 75         | 6           | ○            | ○  |
| GEX4F060R0515007506  | 6.0                  | 0.5 | 15                 | 75         | 6           | ○            | ○  |
| GEX4F060R1015007506  | 6.0                  | 1.0 | 15                 | 75         | 6           | ○            | ○  |
| GEX4F060R1515007506  | 6.0                  | 1.5 | 15                 | 75         | 6           | ○            | ○  |
| GEX4F060R2015007506  | 6.0                  | 2.0 | 15                 | 75         | 6           | ○            | ○  |
| GEX4F080R0520007508  | 8.0                  | 0.5 | 20                 | 75         | 8           | ○            | ○  |
| GEX4F080R1020007508  | 8.0                  | 1.0 | 20                 | 75         | 8           | ○            | ○  |
| GEX4F080R1520007508  | 8.0                  | 1.5 | 20                 | 75         | 8           | ○            | ○  |
| GEX4F080R2020007508  | 8.0                  | 2.0 | 20                 | 75         | 8           | ○            | ○  |
| GEX4F040R0211010006  | 4.0                  | 0.2 | 11                 | 100        | 6           | ○            | ○  |
| GEX4F040R0511010006  | 4.0                  | 0.5 | 11                 | 100        | 6           | ○            | ○  |
| GEX4F040R1011010006  | 4.0                  | 1.0 | 11                 | 100        | 6           | ○            | ○  |
| GEX4F050R0513010006  | 5.0                  | 0.5 | 13                 | 100        | 6           | ○            | ○  |
| GEX4F050R1013010006  | 5.0                  | 1.0 | 13                 | 100        | 6           | ○            | ○  |
| GEX4F060R0215010006  | 6.0                  | 0.2 | 15                 | 100        | 6           | ○            | ○  |
| GEX4F060R0515010006  | 6.0                  | 0.5 | 15                 | 100        | 6           | ○            | ○  |
| GEX4F060R1015010006  | 6.0                  | 1.0 | 15                 | 100        | 6           | ○            | ○  |
| GEX4F060R1515010006  | 6.0                  | 1.5 | 15                 | 100        | 6           | ○            | ○  |
| GEX4F060R2015010006  | 6.0                  | 2.0 | 15                 | 100        | 6           | ○            | ○  |
| GEX4F080R0520010008  | 8.0                  | 0.5 | 20                 | 100        | 8           | ○            | ○  |
| GEX4F080R1020010008  | 8.0                  | 1.0 | 20                 | 100        | 8           | ○            | ○  |
| GEX4F080R1520010008  | 8.0                  | 1.5 | 20                 | 100        | 8           | ○            | ○  |
| GEX4F080R2020010008  | 8.0                  | 2.0 | 20                 | 100        | 8           | ○            | ○  |
| GEX4F100R0525010010  | 10.0                 | 0.5 | 25                 | 100        | 10          | ○            | ○  |
| GEX4F100R1025010010  | 10.0                 | 1.0 | 25                 | 100        | 10          | ○            | ○  |
| GEX4F100R1525010010  | 10.0                 | 1.5 | 25                 | 100        | 10          | ○            | ○  |
| GEX4F100R2025010010  | 10.0                 | 2.0 | 25                 | 100        | 10          | ○            | ○  |
| GEX4F100R2525010010  | 10.0                 | 2.5 | 25                 | 100        | 10          | ○            | ○  |
| GEX4F100R3025010010  | 10.0                 | 3.0 | 25                 | 100        | 10          | ○            | ○  |
| GEX4F120R0530010012  | 12.0                 | 0.5 | 30                 | 100        | 12          | ○            | ○  |
| GEX4F120R1030010012  | 12.0                 | 1.0 | 30                 | 100        | 12          | ○            | ○  |
| GEX4F120R1530010012  | 12.0                 | 1.5 | 30                 | 100        | 12          | ○            | ○  |
| GEX4F120R2030010012  | 12.0                 | 2.0 | 30                 | 100        | 12          | ○            | ○  |
| GEX4F120R2530010012  | 12.0                 | 2.5 | 30                 | 100        | 12          | ○            | ○  |
| GEX4F120R3030010012  | 12.0                 | 3.0 | 30                 | 100        | 12          | ○            | ○  |

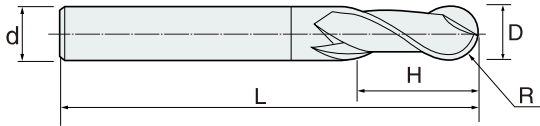
■Special specifications can be customized. ■特殊規格可訂制。

# GEX 2 flutes ball nose end mills

2刃球型立銑刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS



B77

| Product Code<br>產品編號 | R Blade<br>R 徑 | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------|--------------------|------------|-------------|--------------|----|
|                      |                |                    |            |             | AL           | AS |
| GEX2FR005002005004   | R0.50          | 2.0                | 50         | 4           | ○            | ○  |
| GEX2FR007503005004   | R0.75          | 3.0                | 50         | 4           | ○            | ○  |
| GEX2FR010004005004   | R1.00          | 4.0                | 50         | 4           | ○            | ○  |
| GEX2FR012505005004   | R1.25          | 5.0                | 50         | 4           | ○            | ○  |
| GEX2FR015006005004   | R1.50          | 6.0                | 50         | 4           | ○            | ○  |
| GEX2FR017507005004   | R1.75          | 7.0                | 50         | 4           | ○            | ○  |
| GEX2FR020008005004   | R2.00          | 8.0                | 50         | 4           | ○            | ○  |
| GEX2FR005002005006   | R0.50          | 2.0                | 50         | 6           | ○            | ○  |
| GEX2FR007503005006   | R0.75          | 3.0                | 50         | 6           | ○            | ○  |
| GEX2FR010004005006   | R1.00          | 4.0                | 50         | 6           | ○            | ○  |
| GEX2FR012505005006   | R1.25          | 5.0                | 50         | 6           | ○            | ○  |
| GEX2FR015006005006   | R1.50          | 6.0                | 50         | 6           | ○            | ○  |
| GEX2FR017507005006   | R1.75          | 7.0                | 50         | 6           | ○            | ○  |
| GEX2FR020008005006   | R2.00          | 8.0                | 50         | 6           | ○            | ○  |
| GEX2FR022509005006   | R2.25          | 9.0                | 50         | 6           | ○            | ○  |
| GEX2FR027510005006   | R2.50          | 10.0               | 50         | 6           | ○            | ○  |
| GEX2FR025111005006   | R2.75          | 11.0               | 50         | 6           | ○            | ○  |
| GEX2FR030012005006   | R3.00          | 12.0               | 50         | 6           | ○            | ○  |
| GEX2FR032513006008   | R3.25          | 13.0               | 60         | 8           | ○            | ○  |
| GEX2FR035014006008   | R3.50          | 14.0               | 60         | 8           | ○            | ○  |
| GEX2FR037515006008   | R3.75          | 15.0               | 60         | 8           | ○            | ○  |
| GEX2FR040016006008   | R4.00          | 16.0               | 60         | 8           | ○            | ○  |
| GEX2FR045018007510   | R4.50          | 18.0               | 75         | 10          | ○            | ○  |
| GEX2FR050020007510   | R5.00          | 20.0               | 75         | 10          | ○            | ○  |
| GEX2FR060024007512   | R6.00          | 24.0               | 75         | 12          | ○            | ○  |
| GEX2FR070028010014   | R7.00          | 28.0               | 100        | 14          | ○            | ○  |
| GEX2FR080032010016   | R8.00          | 32.0               | 100        | 16          | ○            | ○  |
| GEX2FR090036010018   | R9.00          | 36.0               | 100        | 18          | ○            | ○  |
| GEX2FR100040010020   | R10.0          | 40.0               | 100        | 20          | ○            | ○  |
| GEX2FR125050010025   | R12.5          | 50.0               | 100        | 25          | ○            | ○  |

## ★ WORK MATERIAL 被削材質

| GEX      |        |        |     |
|----------|--------|--------|-----|
| P20 S45C | SCM SK | FC FCD | CU  |
| 碳素鋼      | 合金鋼    | 鑄鐵     | 銅合金 |
| ●        | ●      | ●      | ●   |

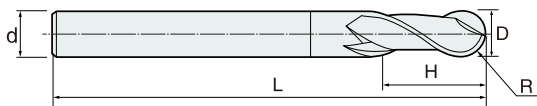
|   |                      |
|---|----------------------|
| R | R diameter tolerance |
| R | R ± 0.015            |

## ★ TOLERANCES 公差

| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ1.0~Φ2.9              | 0~-0.02                            | H6                                 |
| Φ3.0~Φ6.4              | -0.01~-0.03                        |                                    |
| Φ6.5~Φ10.9             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ16.5            | -0.01~-0.04                        |                                    |
| Φ17.0~Φ20.0            | -0.015~-0.045                      |                                    |
| Φ20.5~Φ25.0            | -0.015~-0.05                       |                                    |

# GEX Long shank 2 flutes ball nose end mills

長柄 2刃球型立銼刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS

B78

| Product Code<br>產品編號 | R Blade<br>R 徑 | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------|--------------------|------------|-------------|--------------|----|
|                      |                |                    |            |             | AL           | AS |
| GEX2FR005002007504   | R0.50          | 2                  | 75         | 4           | ○            | ○  |
| GEX2FR007503007504   | R0.75          | 3                  | 75         | 4           | ○            | ○  |
| GEX2FR010004007504   | R1.00          | 4                  | 75         | 4           | ○            | ○  |
| GEX2FR012505007504   | R1.25          | 5                  | 75         | 4           | ○            | ○  |
| GEX2FR015006007504   | R1.50          | 6                  | 75         | 4           | ○            | ○  |
| GEX2FR017507007504   | R1.75          | 7                  | 75         | 4           | ○            | ○  |
| GEX2FR020008007504   | R2.00          | 8                  | 75         | 4           | ○            | ○  |
| GEX2FR022509007506   | R2.25          | 9                  | 75         | 6           | ○            | ○  |
| GEX2FR025010007506   | R2.50          | 10                 | 75         | 6           | ○            | ○  |
| GEX2FR027511007506   | R2.75          | 11                 | 75         | 6           | ○            | ○  |
| GEX2FR030012007506   | R3.00          | 12                 | 75         | 6           | ○            | ○  |
| GEX2FR040016007508   | R4.00          | 16                 | 75         | 8           | ○            | ○  |
| GEX2FR005002010006   | R0.50          | 2                  | 100        | 6           | ○            | ○  |
| GEX2FR007503010006   | R0.75          | 3                  | 100        | 6           | ○            | ○  |
| GEX2FR010004010006   | R1.00          | 4                  | 100        | 6           | ○            | ○  |
| GEX2FR012505010006   | R1.25          | 5                  | 100        | 6           | ○            | ○  |
| GEX2FR015006010006   | R1.50          | 6                  | 100        | 6           | ○            | ○  |
| GEX2FR017507010006   | R1.75          | 7                  | 100        | 6           | ○            | ○  |
| GEX2FR020008010006   | R2.00          | 8                  | 100        | 6           | ○            | ○  |
| GEX2FR022509010006   | R2.25          | 9                  | 100        | 6           | ○            | ○  |
| GEX2FR025010010006   | R2.50          | 10                 | 100        | 6           | ○            | ○  |
| GEX2FR027511010006   | R2.75          | 11                 | 100        | 6           | ○            | ○  |
| GEX2FR030012010006   | R3.00          | 12                 | 100        | 6           | ○            | ○  |
| GEX2FR040016010008   | R4.00          | 16                 | 100        | 8           | ○            | ○  |
| GEX2FR050020010010   | R5.00          | 20                 | 100        | 10          | ○            | ○  |
| GEX2FR060024010012   | R6.00          | 24                 | 100        | 12          | ○            | ○  |
| GEX2FR030012015006   | R3.00          | 12                 | 150        | 6           | ○            | ○  |
| GEX2FR040016015008   | R4.00          | 16                 | 150        | 8           | ○            | ○  |
| GEX2FR050020015010   | R5.00          | 20                 | 150        | 10          | ○            | ○  |
| GEX2FR060024015012   | R6.00          | 24                 | 150        | 12          | ○            | ○  |
| GEX2FR070028015014   | R7.00          | 28                 | 150        | 14          | ○            | ○  |
| GEX2FR080032015016   | R8.00          | 32                 | 150        | 16          | ○            | ○  |
| GEX2FR100040015020   | R10.00         | 40                 | 150        | 20          | ○            | ○  |
| GEX2FR040016020008   | R4.00          | 16                 | 200        | 8           | ○            | ○  |
| GEX2FR050020020010   | R5.00          | 20                 | 200        | 10          | ○            | ○  |
| GEX2FR060024020012   | R6.00          | 24                 | 200        | 12          | ○            | ○  |
| GEX2FR070028020014   | R7.00          | 28                 | 200        | 14          | ○            | ○  |
| GEX2FR080032020016   | R8.00          | 32                 | 200        | 16          | ○            | ○  |
| GEX2FR100040020020   | R10.00         | 40                 | 200        | 20          | ○            | ○  |

## ★ WORK MATERAIL 被削材質

| GEX      |                      |        |     |
|----------|----------------------|--------|-----|
| P20 S45C | SCM SK               | FC FCD | CU  |
| 碳素鋼      | 合金鋼                  | 鑄鐵     | 銅合金 |
| ●        | ●                    | ●      | ●   |
| R        | R diameter tolerance |        |     |
| R        | R ± 0.015            |        |     |

## ★ TOLERANCES 公差

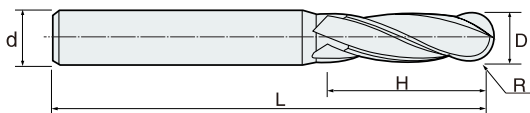
| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ1.0~Φ2.9              | 0~-0.02                            | H6                                 |
| Φ3.0~Φ6.4              | -0.01~-0.03                        |                                    |
| Φ6.5~Φ10.9             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ16.5            | -0.01~-0.04                        |                                    |
| Φ17.0~Φ20.0            | -0.015~-0.045                      |                                    |
| Φ20.5~Φ25.0            | -0.015~-0.05                       |                                    |

# GEX 4 flutes ball nose end mills

4刃球型立銑刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS



B79

| Product Code<br>產品編號 | R Blade<br>R徑 | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|---------------|--------------------|------------|-------------|--------------|----|
|                      |               |                    |            |             | AL           | AS |
| GEX4FR005002005004   | R0.50         | 2.0                | 50         | 4           | ○            | ○  |
| GEX4FR007503005004   | R0.75         | 3.0                | 50         | 4           | ○            | ○  |
| GEX4FR010004005004   | R1.00         | 4.0                | 50         | 4           | ○            | ○  |
| GEX4FR012505005004   | R1.25         | 5.0                | 50         | 4           | ○            | ○  |
| GEX4FR015006005004   | R1.50         | 6.0                | 50         | 4           | ○            | ○  |
| GEX4FR017507005004   | R1.75         | 7.0                | 50         | 4           | ○            | ○  |
| GEX4FR020008005004   | R2.00         | 8.0                | 50         | 4           | ○            | ○  |
| GEX4FR022509005006   | R2.25         | 9.0                | 50         | 6           | ○            | ○  |
| GEX4FR025010005006   | R2.50         | 10.0               | 50         | 6           | ○            | ○  |
| GEX4FR027511005006   | R2.75         | 11.0               | 50         | 6           | ○            | ○  |
| GEX4FR030012005006   | R3.00         | 12.0               | 50         | 6           | ○            | ○  |
| GEX4FR032513006008   | R3.25         | 13.0               | 60         | 8           | ○            | ○  |
| GEX4FR035014006008   | R3.50         | 14.0               | 60         | 8           | ○            | ○  |
| GEX4FR037515006008   | R3.75         | 15.0               | 60         | 8           | ○            | ○  |
| GEX4FR040016006008   | R4.00         | 16.0               | 60         | 8           | ○            | ○  |
| GEX4FR045018007510   | R4.50         | 18.0               | 75         | 10          | ○            | ○  |
| GEX4FR050020007510   | R5.00         | 20.0               | 75         | 10          | ○            | ○  |
| GEX4FR060024007512   | R6.00         | 24.0               | 75         | 12          | ○            | ○  |
| GEX4FR070030010014   | R7.00         | 30.0               | 100        | 14          | ○            | ○  |
| GEX4FR080030010016   | R8.00         | 30.0               | 100        | 16          | ○            | ○  |
| GEX4FR090030010018   | R9.00         | 30.0               | 100        | 18          | ○            | ○  |
| GEX4FR100030010020   | R10.0         | 30.0               | 100        | 20          | ○            | ○  |
| GEX4FR125030010025   | R12.5         | 30.0               | 100        | 25          | ○            | ○  |

## ★ WORK MATERIAL 被削材質

| GEX      |        |        |     |
|----------|--------|--------|-----|
| P20 S45C | SCM SK | FC FCD | CU  |
| 碳素鋼      | 合金鋼    | 鑄鐵     | 銅合金 |
| ●        | ●      | ●      | ●   |

|   |                      |
|---|----------------------|
| R | R diameter tolerance |
| R | R ± 0.015            |

## ★ TOLERANCES 公差

| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ 1.0~Φ 2.9            | 0~-0.02                            | H6                                 |
| Φ 3.0~Φ 6.4            | -0.01~-0.03                        |                                    |
| Φ 6.5~Φ 10.9           | -0.01~-0.035                       |                                    |
| Φ 11.0~Φ 16.5          | -0.01~-0.04                        |                                    |
| Φ 17.0~Φ 20.0          | -0.015~-0.045                      |                                    |
| Φ 20.5~Φ 25.0          | -0.015~-0.05                       |                                    |

# GEX Long shank 4 flutes ball nose end mills

長柄 4刃球型立銼刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS

B80

| Product Code<br>產品編號 | R Blade<br>R 徑 | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------|--------------------|------------|-------------|--------------|----|
|                      |                |                    |            |             | AL           | AS |
| GEX4FR005002007504   | R0.50          | 2                  | 75         | 4           | ○            | ○  |
| GEX4FR007503007504   | R0.75          | 3                  | 75         | 4           | ○            | ○  |
| GEX4FR010004007504   | R1.00          | 4                  | 75         | 4           | ○            | ○  |
| GEX4FR012505007504   | R1.25          | 5                  | 75         | 4           | ○            | ○  |
| GEX4FR015006007504   | R1.50          | 6                  | 75         | 4           | ○            | ○  |
| GEX4FR017507007504   | R1.75          | 7                  | 75         | 4           | ○            | ○  |
| GEX4FR020008007504   | R2.00          | 8                  | 75         | 4           | ○            | ○  |
| GEX4FR022509007506   | R2.25          | 9                  | 75         | 6           | ○            | ○  |
| GEX4FR025010007506   | R2.50          | 10                 | 75         | 6           | ○            | ○  |
| GEX4FR027511007506   | R2.75          | 11                 | 75         | 6           | ○            | ○  |
| GEX4FR030012007506   | R3.00          | 12                 | 75         | 6           | ○            | ○  |
| GEX4FR040016007508   | R4.00          | 16                 | 75         | 8           | ○            | ○  |
| GEX4FR005002010006   | R0.50          | 2                  | 100        | 6           | ○            | ○  |
| GEX4FR007503010006   | R0.75          | 3                  | 100        | 6           | ○            | ○  |
| GEX4FR010004010006   | R1.00          | 4                  | 100        | 6           | ○            | ○  |
| GEX4FR012505010006   | R1.25          | 5                  | 100        | 6           | ○            | ○  |
| GEX4FR015006010006   | R1.50          | 6                  | 100        | 6           | ○            | ○  |
| GEX4FR017507010006   | R1.75          | 7                  | 100        | 6           | ○            | ○  |
| GEX4FR020008010006   | R2.00          | 8                  | 100        | 6           | ○            | ○  |
| GEX4FR022509010006   | R2.25          | 9                  | 100        | 6           | ○            | ○  |
| GEX4FR025010010006   | R2.50          | 10                 | 100        | 6           | ○            | ○  |
| GEX4FR027511010006   | R2.75          | 11                 | 100        | 6           | ○            | ○  |
| GEX4FR030012010006   | R3.00          | 12                 | 100        | 6           | ○            | ○  |
| GEX4FR040016010008   | R4.00          | 16                 | 100        | 8           | ○            | ○  |
| GEX4FR050020010010   | R5.00          | 20                 | 100        | 10          | ○            | ○  |
| GEX4FR060024010012   | R6.00          | 24                 | 100        | 12          | ○            | ○  |
| GEX4FR030012015006   | R3.00          | 12                 | 150        | 6           | ○            | ○  |
| GEX4FR040016015008   | R4.00          | 16                 | 150        | 8           | ○            | ○  |
| GEX4FR050020015010   | R5.00          | 20                 | 150        | 10          | ○            | ○  |
| GEX4FR060024015012   | R6.00          | 24                 | 150        | 12          | ○            | ○  |
| GEX4FR070028015014   | R7.00          | 28                 | 150        | 14          | ○            | ○  |
| GEX4FR080032015016   | R8.00          | 32                 | 150        | 16          | ○            | ○  |
| GEX4FR100040015020   | R10.00         | 40                 | 150        | 20          | ○            | ○  |
| GEX4FR040016020008   | R4.00          | 16                 | 200        | 8           | ○            | ○  |
| GEX4FR050020020010   | R5.00          | 20                 | 200        | 10          | ○            | ○  |
| GEX4FR060024020012   | R6.00          | 24                 | 200        | 12          | ○            | ○  |
| GEX4FR070028020014   | R7.00          | 28                 | 200        | 14          | ○            | ○  |
| GEX4FR080032020016   | R8.00          | 32                 | 200        | 16          | ○            | ○  |
| GEX4FR100040020020   | R10.00         | 40                 | 200        | 20          | ○            | ○  |

## ★ WORK MATERIAL 被削材質

| GEX      |                      |        |     |
|----------|----------------------|--------|-----|
| P20 S45C | SCM SK               | FC FCD | CU  |
| 碳素鋼      | 合金鋼                  | 鑄鐵     | 銅合金 |
| ●        | ●                    | ●      | ●   |
| R        | R diameter tolerance |        |     |
| R        | R ± 0.015            |        |     |

## ★ TOLERANCES 公差

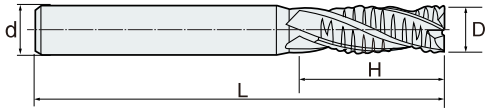
| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ1.0~Φ2.9              | 0~-0.02                            | H6                                 |
| Φ3.0~Φ6.4              | -0.01~-0.03                        |                                    |
| Φ6.5~Φ10.9             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ16.5            | -0.01~-0.04                        |                                    |
| Φ17.0~Φ20.0            | -0.015~-0.045                      |                                    |
| Φ20.5~Φ25.0            | -0.015~-0.05                       |                                    |

# GEX 3 flutes roughing end mills

3刃粗銑立銑刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS



B81

| Product Code<br>產品編號 | Blade diameter<br>刃徑 | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|--------------------|------------|-------------|--------------|----|
|                      |                      |                    |            |             | AL           | AS |
| GEXCP3F061505006     | 6.0                  | 15                 | 50         | 6           | ○            | ○  |
| GEXCP3F082006008     | 8.0                  | 20                 | 60         | 8           | ○            | ○  |
| GEXCP3F102507510     | 10.0                 | 25                 | 75         | 10          | ○            | ○  |
| GEXCP3F123007512     | 12.0                 | 30                 | 75         | 12          | ○            | ○  |
| GEXCP3F164010016     | 16.0                 | 40                 | 100        | 16          | ○            | ○  |
| GEXCP3F204010020     | 20.0                 | 40                 | 100        | 20          | ○            | ○  |
| GEXCP3F061510006     | 6.0                  | 15                 | 100        | 6           | ○            | ○  |
| GEXCP3F082010008     | 8.0                  | 20                 | 100        | 8           | ○            | ○  |
| GEXCP3F102510010     | 10.0                 | 25                 | 100        | 10          | ○            | ○  |
| GEXCP3F123010012     | 12.0                 | 30                 | 100        | 12          | ○            | ○  |

## ★ WORK MATERIAL 被削材質

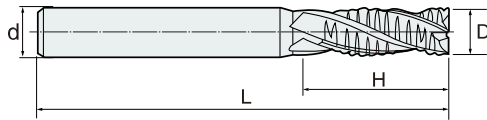
| P20 S45C | SCM SK | FC FCD | SKD |
|----------|--------|--------|-----|
| 碳素鋼      | 合金鋼    | 鑄鐵     | 淬火鋼 |
| ●        | ●      | ●      | ●   |

## ★ TOLERANCES 公差

| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ6.0                   | -0.01~-0.03                        | H6                                 |
| Φ7.0~Φ10.0             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ16.0            | -0.01~-0.04                        |                                    |
| Φ17.0~Φ20.0            | -0.015~-0.045                      |                                    |
| Φ21.0~Φ25.0            | -0.015~-0.05                       |                                    |
| Φ30.0                  | -0.015~-0.055                      |                                    |

# GEX 4 flutes roughing end mills

4刃粗銑立銑刀



MG 0.7 μm CO10% HRC>45 AITINL HRC>48 AITINS

B82

| Product Code<br>產品編號 | Blade diameter<br>刃徑 | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|--------------------|------------|-------------|--------------|----|
|                      |                      |                    |            |             | AL           | AS |
| GEXCP4F061505006     | 6.0                  | 15                 | 50         | 6           | ○            | ○  |
| GEXCP4F082006008     | 8.0                  | 20                 | 60         | 8           | ○            | ○  |
| GEXCP4F102507510     | 10.0                 | 25                 | 75         | 10          | ○            | ○  |
| GEXCP4F123007512     | 12.0                 | 30                 | 75         | 12          | ○            | ○  |
| GEXCP4F164010016     | 16.0                 | 40                 | 100        | 16          | ○            | ○  |
| GEXCP4F204010020     | 20.0                 | 40                 | 100        | 20          | ○            | ○  |
| GEXCP4F061510006     | 6.0                  | 15                 | 100        | 6           | ○            | ○  |
| GEXCP4F082010008     | 8.0                  | 20                 | 100        | 8           | ○            | ○  |
| GEXCP4F102510010     | 10.0                 | 25                 | 100        | 10          | ○            | ○  |
| GEXCP4F123010012     | 12.0                 | 30                 | 100        | 12          | ○            | ○  |

## ★ WORK MATERIAL 被削材質

| P20 S45C | SCM SK | FC FCD | SKD |
|----------|--------|--------|-----|
| 碳素鋼      | 合金鋼    | 鑄鐵     | 淬火鋼 |
| ●        | ●      | ●      | ●   |

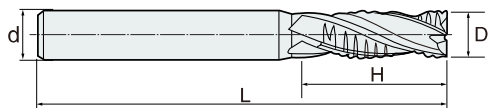
## ★ TOLERANCES 公差

| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ6.0                   | -0.01~-0.03                        | H6                                 |
| Φ7.0~Φ10.0             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ16.0            | -0.01~-0.04                        |                                    |
| Φ17.0~Φ20.0            | -0.015~-0.045                      |                                    |
| Φ21.0~Φ25.0            | -0.015~-0.05                       |                                    |
| Φ30.0                  | -0.015~-0.055                      |                                    |



# GEX 4 flutes half roughing end mills

4刃半粗銑立銑刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS

B83

| Product Code<br>產品編號 | Blade diameter<br>刃徑 | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|--------------------|------------|-------------|--------------|----|
|                      |                      |                    |            |             | AL           | AS |
| GEXBCP4F061505006    | 6.0                  | 15                 | 50         | 6           | ○            | ○  |
| GEXBCP4F082006008    | 8.0                  | 20                 | 60         | 8           | ○            | ○  |
| GEXBCP4F102507510    | 10.0                 | 25                 | 75         | 10          | ○            | ○  |
| GEXBCP4F123007512    | 12.0                 | 30                 | 75         | 12          | ○            | ○  |
| GEXBCP4F164010016    | 16.0                 | 40                 | 100        | 16          | ○            | ○  |
| GEXBCP4F204010020    | 20.0                 | 40                 | 100        | 20          | ○            | ○  |
| GEXBCP4F061510006    | 6.0                  | 15                 | 100        | 6           | ○            | ○  |
| GEXBCP4F082010008    | 8.0                  | 20                 | 100        | 8           | ○            | ○  |
| GEXBCP4F102510010    | 10.0                 | 25                 | 100        | 10          | ○            | ○  |
| GEXBCP4F123010012    | 12.0                 | 30                 | 100        | 12          | ○            | ○  |

## ★ WORK MATERIAL 被削材質

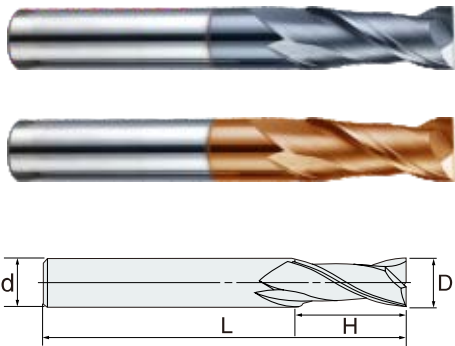
| P20 S45C | SCM SK | FC FCD | SKD |
|----------|--------|--------|-----|
| 碳素鋼      | 合金鋼    | 鑄鐵     | 淬火鋼 |
| ●        | ●      | ●      | ●   |

## ★ TOLERANCES 公差

| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ6.0                   | -0.01~-0.03                        | H6                                 |
| Φ7.0~Φ10.0             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ16.0            | -0.01~-0.04                        |                                    |
| Φ17.0~Φ20.0            | -0.015~-0.045                      |                                    |
| Φ21.0~Φ25.0            | -0.015~-0.05                       |                                    |
| Φ30.0                  | -0.015~-0.055                      |                                    |

# GEX 2 flutes standard inch size square end mills

2刃標準英制立銼刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS

B84

| Product Code<br>產品編號 | Blade diameter<br>刃徑 | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|--------------------|------------|-------------|--------------|----|
|                      |                      |                    |            |             | AL           | AS |
| GEX2F1/8*3050        | 1/8(3.175)           | 9.525              | 50         | 1/8(3.175)  | ○            | ○  |
| GEX2F3/16*3050       | 3/16(4.76)           | 14.28              | 50         | 3/16(4.76)  | ○            | ○  |
| GEX2F1/4*3060        | 1/4(6.35)            | 19.05              | 60         | 1/4(6.35)   | ○            | ○  |
| GEX2F5/16*3060       | 5/16(7.938)          | 23.814             | 60         | 5/16(7.938) | ○            | ○  |
| GEX2F3/8*3075        | 3/8(9.525)           | 28.575             | 75         | 3/8(9.525)  | ○            | ○  |
| GEX2F1/2*3075        | 1/2(12.7)            | 38.1               | 75         | 1/2(12.7)   | ○            | ○  |
| GEX2F5/8*3100        | 5/8(15.875)          | 47.625             | 100        | 5/8(15.875) | ○            | ○  |
| GEX2F3/4*3110        | 3/4(19.05)           | 57.15              | 110        | 3/4(19.05)  | ○            | ○  |
| GEX2F1*3130          | 1"(25.4)             | 76.2               | 130        | 1"(25.4)    | ○            | ○  |

## ★ WORK MATERIAL 被削材質

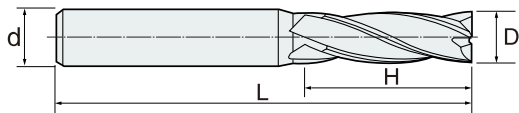
| GEX      |        |        |     |
|----------|--------|--------|-----|
| P20 S45C | SCM SK | FC FCD | CU  |
| 碳素鋼      | 合金鋼    | 鑄鐵     | 銅合金 |
| ●        | ●      | ●      | ●   |

## ★ TOLERANCES 公差

| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ1.0~Φ2.9              | 0~-0.02                            | H6                                 |
| Φ3.0~Φ6.0              | -0.01~-0.03                        |                                    |
| Φ6.5~Φ10.5             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ16.0            | -0.01~-0.04                        |                                    |
| Φ17.0~Φ20.0            | -0.015~-0.045                      |                                    |

# GEX 4 flutes standard inch size square end mills

4刃標準英制立銑刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS

B85

| Product Code<br>產品編號 | Blade diameter<br>刃徑 | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|--------------------|------------|-------------|--------------|----|
|                      |                      |                    |            |             | AL           | AS |
| GEX4F1/8*3050        | 1/8(3.175)           | 9.525              | 50         | 1/8(3.175)  | ○            | ○  |
| GEX4F3/16*3050       | 3/16(4.76)           | 14.28              | 50         | 3/16(4.76)  | ○            | ○  |
| GEX4F1/4*3060        | 1/4(6.35)            | 19.05              | 60         | 1/4(6.35)   | ○            | ○  |
| GEX4F5/16*3060       | 5/16(7.938)          | 23.814             | 60         | 5/16(7.938) | ○            | ○  |
| GEX4F3/8*3075        | 3/8(9.525)           | 28.575             | 75         | 3/8(9.525)  | ○            | ○  |
| GEX4F1/2*3075        | 1/2(12.7)            | 38.1               | 75         | 1/2(12.7)   | ○            | ○  |
| GEX4F5/8*3100        | 5/8(15.875)          | 47.625             | 100        | 5/8(15.875) | ○            | ○  |
| GEX4F3/4*3110        | 3/4(19.05)           | 57.15              | 110        | 3/4(19.05)  | ○            | ○  |
| GEX4F1*3130          | 1"(25.4)             | 76.2               | 130        | 1"(25.4)    | ○            | ○  |

## ★ WORK MATERAIL 被削材質

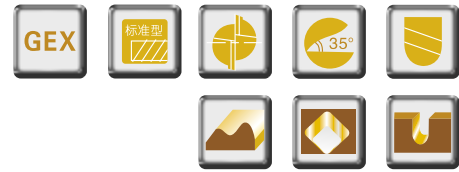
| GEX      |        |        |     |
|----------|--------|--------|-----|
| P20 S45C | SCM SK | FC FCD | CU  |
| 碳素鋼      | 合金鋼    | 鑄鐵     | 銅合金 |
| ●        | ●      | ●      | ●   |

## ★ TOLERANCES 公差

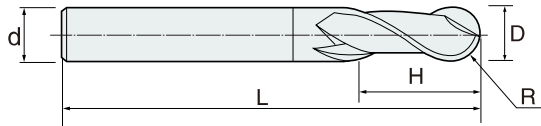
| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ1.0~Φ2.9              | 0~-0.02                            | H6                                 |
| Φ3.0~Φ6.0              | -0.01~-0.03                        |                                    |
| Φ6.5~Φ10.5             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ16.0            | -0.01~-0.04                        |                                    |
| Φ17.0~Φ20.0            | -0.015~-0.045                      |                                    |

# GEX 2 flutes standard inch size ball nose end mills

2刃標準英制球型立銼刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS



| Product Code<br>產品編號 | Blade diameter<br>刃徑 | Blade length<br>刃長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|--------------------|------------|-------------|--------------|----|
|                      |                      |                    |            |             | AL           | AS |
| GEX2FR1/8*3050       | 1/8(3.175)           | 9.525              | 50         | 1/8(3.175)  | ○            | ○  |
| GEX2FR3/16*3050      | 3/16(4.76)           | 14.28              | 50         | 3/16(4.76)  | ○            | ○  |
| GEX2FR1/4*3060       | 1/4(6.35)            | 19.05              | 60         | 1/4(6.35)   | ○            | ○  |
| GEX2FR5/16*3060      | 5/16(7.938)          | 23.814             | 60         | 5/16(7.938) | ○            | ○  |
| GEX2FR3/8*3075       | 3/8(9.525)           | 28.575             | 75         | 3/8(9.525)  | ○            | ○  |
| GEX2FR1/2*3075       | 1/2(12.7)            | 38.1               | 75         | 1/2(12.7)   | ○            | ○  |
| GEX2FR5/8*3100       | 5/8(15.875)          | 47.625             | 100        | 5/8(15.875) | ○            | ○  |
| GEX2FR3/4*3110       | 3/4(19.05)           | 57.15              | 110        | 3/4(19.05)  | ○            | ○  |
| GEX2FR1*3130         | 1"(25.4)             | 76.2               | 130        | 1"(25.4)    | ○            | ○  |

## ★ WORK MATERAIL 被削材質

| GEX      |        |        |     |
|----------|--------|--------|-----|
| P20 S45C | SCM SK | FC FCD | CU  |
| 碳素鋼      | 合金鋼    | 鑄鐵     | 銅合金 |
| ●        | ●      | ●      | ●   |

## ★ TOLERANCES 公差

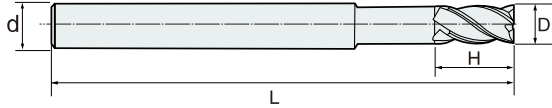
| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 | Shank diameter tolerance<br>柄部直徑公差 |
|------------------------|------------------------------------|------------------------------------|
| Φ1.0~Φ2.9              | 0~-0.02                            | H6                                 |
| Φ3.0~Φ6.0              | -0.01~-0.03                        |                                    |
| Φ6.5~Φ10.5             | -0.01~-0.035                       |                                    |
| Φ11.0~Φ16.0            | -0.01~-0.04                        |                                    |
| Φ17.0~Φ20.0            | -0.015~-0.045                      |                                    |

# GEX 4 flutes high strength flat end mills

四刃強力平底銑刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS



B87

| Product Code<br>產品編號 | Blade diameter<br>刃徑 | Blade length<br>刃長 | Effective length<br>有效長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|--------------------|-------------------------|------------|-------------|--------------|----|
|                      |                      |                    |                         |            |             | AL           | AS |
| GEX4F01001502505004  | 1.0                  | 1.5                | 2.5                     | 50         | 4           | ○            | ○  |
| GEX4F02003005005004  | 2.0                  | 3.0                | 5.0                     | 50         | 4           | ○            | ○  |
| GEX4F03004507505006  | 3.0                  | 4.5                | 7.5                     | 50         | 6           | ○            | ○  |
| GEX4F04006010005006  | 4.0                  | 6.0                | 10.0                    | 50         | 6           | ○            | ○  |
| GEX4F05007512505006  | 5.0                  | 7.5                | 12.5                    | 50         | 6           | ○            | ○  |
| GEX4F06009015005006  | 6.0                  | 9.0                | 15.0                    | 50         | 6           | ○            | ○  |
| GEX4F08012020006008  | 8.0                  | 12.0               | 20.0                    | 60         | 8           | ○            | ○  |
| GEX4F10015025075010  | 10.0                 | 15.0               | 25.0                    | 75         | 10          | ○            | ○  |
| GEX4F12018030075012  | 12.0                 | 18.0               | 30.0                    | 75         | 12          | ○            | ○  |
| GEX4F16024040100016  | 16.0                 | 24.0               | 40.0                    | 100        | 16          | ○            | ○  |
| GEX4F20030050100020  | 20.0                 | 30.0               | 50.0                    | 100        | 20          | ○            | ○  |

| Product Code<br>產品編號 | Blade diameter<br>刃徑 | Blade length<br>刃長 | Effective length<br>有效長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|----------------------|--------------------|-------------------------|------------|-------------|--------------|----|
|                      |                      |                    |                         |            |             | AL           | AS |
| GEX4F1/8-B           | 1/8                  | 5/32               | 1/2                     | 2-1/2      | 1/4         | ○            | ○  |
| GEX4F3/16-B          | 3/16                 | 7/32               | 3/4                     | 2-1/2      | 1/4         | ○            | ○  |
| GEX4F1/4-B           | 1/4                  | 9/32               | 3/4                     | 2-1/2      | 1/4         | ○            | ○  |
| GEX4F5/16-B          | 5/16                 | 13/32              | 1                       | 2-1/2      | 5/16        | ○            | ○  |
| GEX4F3/8-B           | 3/8                  | 15/32              | 1                       | 2-1/2      | 3/8         | ○            | ○  |
| GEX4F1/2-B           | 1/2                  | 5/8                | 1-1/4                   | 3          | 1/2         | ○            | ○  |
| GEX4F5/8-B           | 5/8                  | 3/4                | 1-1/2                   | 3-1/2      | 5/8         | ○            | ○  |
| GEX4F3/4-B           | 3/4                  | 15/16              | 1-3/4                   | 4          | 3/4         | ○            | ○  |

## ★ WORK MATERAIL 被削材質

| GEX             |               |              |           |
|-----------------|---------------|--------------|-----------|
| P20 S45C<br>碳素鋼 | SCM SK<br>合金鋼 | FC FCD<br>鑄鐵 | CU<br>銅合金 |
| ●               | ●             | ●            | ●         |

## ★ TOLERANCES 公差

| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 |
|------------------------|------------------------------------|
| $\Phi \leq 12.0$       | 0~-0.02                            |
| $\Phi > 12.0$          | 0~-0.03                            |

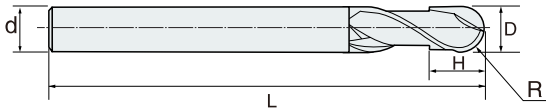
# GEX 2 flutes high strength ball nose end mills

二刃強力球頭銼刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS

B88



| Product Code<br>產品編號   | Radius<br>半徑 | Blade diameter<br>刃徑 | Blade length<br>刃長 | Effective length<br>有效長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|------------------------|--------------|----------------------|--------------------|-------------------------|------------|-------------|--------------|----|
|                        |              |                      |                    |                         |            |             | AL           | AS |
| GEX2FR0050100100205004 | 0.50R        | 1.0                  | 1.0                | 2                       | 50         | 4           | ○            | ○  |
| GEX2FR0075150150305004 | 0.75R        | 1.5                  | 1.5                | 3                       | 50         | 4           | ○            | ○  |
| GEX2FR0100200200405006 | 1.00R        | 2.0                  | 2.0                | 4                       | 50         | 6           | ○            | ○  |
| GEX2FR0150300300605006 | 1.50R        | 3.0                  | 3.0                | 6                       | 50         | 6           | ○            | ○  |
| GEX2FR0200400400805006 | 2.00R        | 4.0                  | 4.0                | 8                       | 50         | 6           | ○            | ○  |
| GEX2FR0250500501005006 | 2.50R        | 5.0                  | 5.0                | 10                      | 50         | 6           | ○            | ○  |
| GEX2FR0300600601205006 | 3.00R        | 6.0                  | 6.0                | 12                      | 50         | 6           | ○            | ○  |
| GEX2FR0400800801606008 | 4.00R        | 8.0                  | 8.0                | 16                      | 60         | 8           | ○            | ○  |
| GEX2FR0501001002007510 | 5.00R        | 10.0                 | 10.0               | 20                      | 75         | 10          | ○            | ○  |
| GEX2FR0601201202407512 | 6.00R        | 12.0                 | 12.0               | 24                      | 75         | 12          | ○            | ○  |
| GEX2FR0801601603210016 | 8.00R        | 16.0                 | 16.0               | 32                      | 100        | 16          | ○            | ○  |

## ★ WORK MATERAIL 被削材質

| GEX             |               |              |           |
|-----------------|---------------|--------------|-----------|
| P20 S45C<br>碳素鋼 | SCM SK<br>合金鋼 | FC FCD<br>鑄鐵 | CU<br>銅合金 |
| ●               | ●             | ●            | ●         |

## ★ TOLERANCES 公差

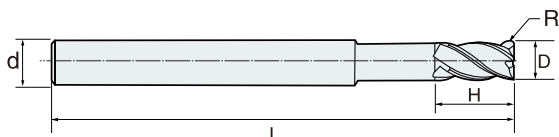
| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 |
|------------------------|------------------------------------|
| $\Phi \leq 12.0$       | R ± 0.01                           |
| $\Phi > 12.0$          | R ± 0.015                          |

# GEX 4 flutes high strength corner radius end mills

四刃強力圓鼻銼刀



MG 0.7 μm CO10% HRC-45 AITINL HRC-48 AITINS



B89

| Product Code<br>產品編號 | Radius<br>半徑 | Blade diameter<br>刃徑 | Blade length<br>刃長 | Effective length<br>有效長 | Full<br>全長 | Shank<br>柄徑 | Inventory 庫存 |    |
|----------------------|--------------|----------------------|--------------------|-------------------------|------------|-------------|--------------|----|
|                      |              |                      |                    |                         |            |             | AL           | AS |
| GEX4F030R01003005006 | 0.1R         | 3                    | 3                  | 7.5                     | 50         | 6           | ○            | ○  |
| GEX4F030R05003005006 | 0.5R         | 3                    | 3                  | 7.5                     | 50         | 6           | ○            | ○  |
| GEX4F040R02004005006 | 0.2R         | 4                    | 4                  | 10.0                    | 50         | 6           | ○            | ○  |
| GEX4F040R05004005006 | 0.5R         | 4                    | 4                  | 10.0                    | 50         | 6           | ○            | ○  |
| GEX4F050R02005005006 | 0.2R         | 5                    | 5                  | 12.5                    | 50         | 6           | ○            | ○  |
| GEX4F050R05005005006 | 0.5R         | 5                    | 5                  | 12.5                    | 50         | 6           | ○            | ○  |
| GEX4F060R02006005006 | 0.2R         | 6                    | 6                  | 15.0                    | 50         | 6           | ○            | ○  |
| GEX4F060R05006005006 | 0.5R         | 6                    | 6                  | 15.0                    | 50         | 6           | ○            | ○  |
| GEX4F060R10006005006 | 1.0R         | 6                    | 6                  | 15.0                    | 50         | 6           | ○            | ○  |
| GEX4F080R03008006008 | 0.3R         | 8                    | 8                  | 20.0                    | 60         | 8           | ○            | ○  |
| GEX4F080R05008006008 | 0.5R         | 8                    | 8                  | 20.0                    | 60         | 8           | ○            | ○  |
| GEX4F080R10008006008 | 1.0R         | 8                    | 8                  | 20.0                    | 60         | 8           | ○            | ○  |
| GEX4F080R15008006008 | 1.5R         | 8                    | 8                  | 20.0                    | 60         | 8           | ○            | ○  |
| GEX4F100R03010007510 | 0.3R         | 10                   | 10                 | 25.0                    | 75         | 10          | ○            | ○  |
| GEX4F100R05010007510 | 0.5R         | 10                   | 10                 | 25.0                    | 75         | 10          | ○            | ○  |
| GEX4F100R10010007510 | 1.0R         | 10                   | 10                 | 25.0                    | 75         | 10          | ○            | ○  |
| GEX4F100R15010007510 | 1.5R         | 10                   | 10                 | 25.0                    | 75         | 10          | ○            | ○  |
| GEX4F100R20010007510 | 2.0R         | 10                   | 10                 | 25.0                    | 75         | 10          | ○            | ○  |
| GEX4F120R03012007512 | 0.3R         | 12                   | 12                 | 30.0                    | 75         | 12          | ○            | ○  |
| GEX4F120R05012007512 | 0.5R         | 12                   | 12                 | 30.0                    | 75         | 12          | ○            | ○  |
| GEX4F120R10012007512 | 1.0R         | 12                   | 12                 | 30.0                    | 75         | 12          | ○            | ○  |
| GEX4F120R15012007512 | 1.5R         | 12                   | 12                 | 30.0                    | 75         | 12          | ○            | ○  |
| GEX4F120R20012007512 | 2.0R         | 12                   | 12                 | 30.0                    | 75         | 12          | ○            | ○  |

## ★ WORK MATERIAL 被削材質

| GEX             |               |              |           |
|-----------------|---------------|--------------|-----------|
| P20 S45C<br>碳素鋼 | SCM SK<br>合金鋼 | FC FCD<br>鑄鐵 | CU<br>銅合金 |
| ●               | ●             | ●            | ●         |

## ★ TOLERANCES 公差

| Blade diameter<br>刃部直徑 | Blade diameter tolerance<br>刃部直徑公差 |
|------------------------|------------------------------------|
| $\Phi \leq 12.0$       | 0~-0.02                            |
| $\Phi > 12.0$          | 0~-0.03                            |

| R | R diameter tolerance |
|---|----------------------|
| R | $R \pm 0.015$        |