

BW CUTTING TOOL ...  
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BEWISE INC.

NO. 13, SHIANG SHANG 2ND ST.,  
WEST CHIU, TAICHUNG, TAIWAN 403

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對新知保持高度敏銳、即時接收與更新  
★ KEEPING SHARP AND SENSITIVE MIND TO RECEIVE NEW TREND WORLDWIDE  
擁有奉獻於客戶的進步之精神  
★ INNOVATIVE SPIRIT TO CONTRIBUTE TO CUSTOMERS' PROGRESS  
工業領域的專業經驗  
★ EXPERIENCED PROFESSION ON INDUSTRIAL FIELD



# BEWISE INC. AVIATION TOOLS

*BW Introduction*



BW is an experienced and professional cutter supplier specialized in carbide/HSS/Diamond milling cutter, drill, reamer, saw blade, end mill, aerospace tool, custom-made tool, special purpose cutter, cooler, etc. Your satisfaction is our priority. We keep sharp and sensitive nose to improve our product quality and update it state-of-the-art manufacturing with newest knowledge of technique, material, and coating.



碧威股份有限公司 Bewise Inc.

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No. 13, Shiang Shang 2nd St., West Chiu, Taichung 40356 Taiwan

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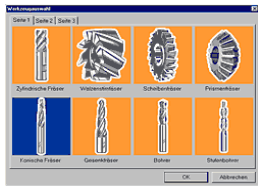
TEL: +886 4 2471 0048 / FAX: +886 4 2471 4839

# High Speed Steel

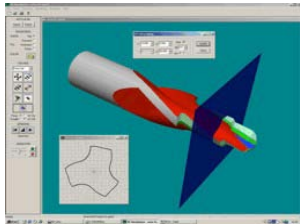
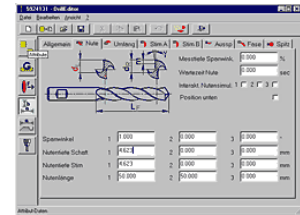


| Production Category                         | Category by Alloy Contents |        | Designation       |        |       | Chemical Composition(%) |      |     |     |      |                          | Properties(1=worst to 10=best) |                         |                         |                          |
|---------------------------------------------|----------------------------|--------|-------------------|--------|-------|-------------------------|------|-----|-----|------|--------------------------|--------------------------------|-------------------------|-------------------------|--------------------------|
|                                             |                            |        | Related Standards |        |       | C                       | W    | Mo  | Cr  | V    | Co                       | Water Resistance               | Hot Hardness            | Toughness               | Grindability             |
|                                             | Steel Type                 | V Type | AISI              | VDEh   | JIS   |                         |      |     |     |      |                          |                                |                         |                         |                          |
| Conventional methods(including ESRband VAR) | W · Mo                     |        | M2                | 1.3343 | SKH51 | 0.85                    | 6.0  | 5.0 | 4.0 | 2.0  |                          | <div><div></div>5</div>        | <div><div></div>5</div> | <div><div></div>8</div> | <div><div></div>5</div>  |
|                                             |                            |        | M2                | 1.3343 | SKH51 | 0.88                    | 6.0  | 5.0 | 4.0 | 2.0  |                          | <div><div></div>5</div>        | <div><div></div>5</div> | <div><div></div>8</div> | <div><div></div>5</div>  |
|                                             |                            |        | M50               | 1.3551 | SKH52 | 0.80                    |      | 4.0 | 4.0 | 1.0  |                          | <div><div></div>3</div>        | <div><div></div>1</div> | <div><div></div>9</div> | <div><div></div>10</div> |
|                                             |                            | High V | M3-1              | 1.3344 | SKH53 | 1.05                    | 6.0  | 5.5 | 4.0 | 2.5  |                          | <div><div></div>7</div>        | <div><div></div>6</div> | <div><div></div>8</div> | <div><div></div>4</div>  |
|                                             |                            |        | M3-2              | 1.3344 | SKH55 | 1.20                    | 6.0  | 5.5 | 4.0 | 3.0  |                          | <div><div></div>9</div>        | <div><div></div>6</div> | <div><div></div>7</div> | <div><div></div>3</div>  |
|                                             | W · Mo · Co                | High V | (M35)             | 1.3243 | SKH56 | 0.90                    | 6.0  | 5.5 | 4.0 | 2.0  | 5.0                      | <div><div></div>6</div>        | <div><div></div>7</div> | <div><div></div>5</div> | <div><div></div>5</div>  |
|                                             |                            |        | M36               |        | SKH57 | 0.90                    | 5.9  | 5.0 | 4.0 | 2.0  | 8.0                      | <div><div></div>8</div>        | <div><div></div>9</div> | <div><div></div>4</div> | <div><div></div>4</div>  |
|                                             | Mo · Co                    |        | (T42)             | 1.3207 | SKH58 | 1.30                    |      | 3.5 | 4.0 | 3.5  | 10.0                     | <div><div></div>10</div>       | <div><div></div>9</div> | <div><div></div>2</div> | <div><div></div>2</div>  |
|                                             |                            |        | M1                | 1.3346 | SKH59 | 0.85                    | 10.0 | 8.5 | 4.0 | 1.0  |                          | <div><div></div>4</div>        | <div><div></div>3</div> | <div><div></div>8</div> | <div><div></div>9</div>  |
|                                             |                            | M7     | 1.3348            | SKH2   | 1.00  | 1.5                     | 8.5  | 4.0 | 2.0 |      | <div><div></div>6</div>  | <div><div></div>5</div>        | <div><div></div>8</div> | <div><div></div>9</div> |                          |
|                                             |                            | High V | M33               |        | SKH3  | 0.95                    | 1.8  | 9.5 | 4.0 | 1.0  | 8.0                      | <div><div></div>7</div>        | <div><div></div>8</div> | <div><div></div>4</div> | <div><div></div>8</div>  |
|                                             |                            |        | M42               | 1.3247 | SKH4  | 1.10                    | 1.5  | 9.5 | 4.0 | 1.0  | 8.0                      | <div><div></div>8</div>        | <div><div></div>9</div> | <div><div></div>3</div> | <div><div></div>8</div>  |
|                                             |                            | W      | T1                | 1.3355 | SKH10 | 0.80                    | 18.0 |     | 4.0 | 1.0  |                          | <div><div></div>5</div>        | <div><div></div>5</div> | <div><div></div>6</div> | <div><div></div>8</div>  |
|                                             |                            | W · Co | T4                | 1.3255 | SKH59 | 0.80                    | 18.0 |     | 4.0 | 1.0  | 5.0                      | <div><div></div>6</div>        | <div><div></div>7</div> | <div><div></div>3</div> | <div><div></div>7</div>  |
|                                             |                            |        | T5                | 1.3265 | SKH10 | 0.80                    | 18.0 |     | 4.0 | 1.0  | 10.0                     | <div><div></div>8</div>        | <div><div></div>9</div> | <div><div></div>2</div> | <div><div></div>5</div>  |
|                                             | High V                     | T15    | 1.3202            | SKH57  | 1.55  | 13.0                    |      | 4.0 | 5.0 | 5.0  | <div><div></div>10</div> | <div><div></div>9</div>        | <div><div></div>1</div> | <div><div></div>1</div> |                          |
| P/M methods                                 | MO · W                     |        | M42               |        |       | 1.10                    | 1.5  | 9.5 | 4.0 | 1.0  | 8.0                      | <div><div></div>8</div>        | <div><div></div>9</div> | <div><div></div>8</div> | <div><div></div>8</div>  |
| MO · W · Co                                 | High V                     | T15    |                   |        | 1.55  | 13.0                    |      | 4.0 | 5.0 | 5.0  | <div><div></div>10</div> | <div><div></div>9</div>        | <div><div></div>8</div> | <div><div></div>5</div> |                          |
|                                             |                            | (T42)  |                   |        | 1.30  | 10.0                    | 3.5  | 4.0 | 3.0 | 10.0 | <div><div></div>10</div> | <div><div></div>9</div>        | <div><div></div>8</div> | <div><div></div>6</div> |                          |

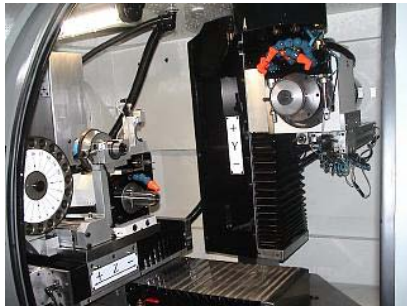
# High Speed Steel



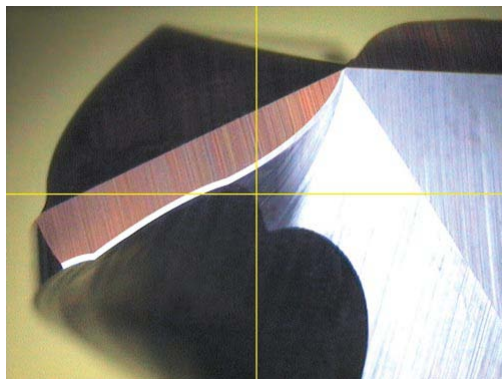
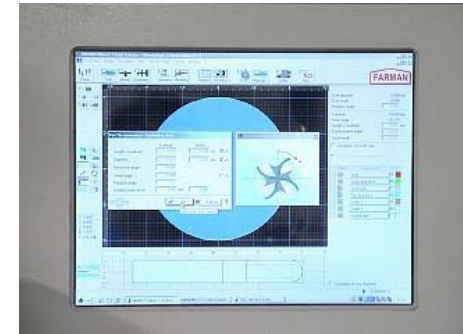
| Designation       |        |       | Cutting Tool |       |        |          |                |         |        |          |              | Wood-working tool/blade | Industrial blade | Mold/Dies | Pin/punch | Rolling Tool&Die | Wear-resistant machine component | Vane | Mandrel | Dot pin | Formed roll | High-temperature bearings |
|-------------------|--------|-------|--------------|-------|--------|----------|----------------|---------|--------|----------|--------------|-------------------------|------------------|-----------|-----------|------------------|----------------------------------|------|---------|---------|-------------|---------------------------|
| Ralated Standards |        |       | Bit          | Drill | Reamer | End mill | Milling cutter | Milling | Broach | Saw tool | Screw cutter |                         |                  |           |           |                  |                                  |      |         |         |             |                           |
| AISI              | VDEh   | JIS   |              |       |        |          |                |         |        |          |              |                         |                  |           |           |                  |                                  |      |         |         |             |                           |
| M2                | 1.3343 | SKH51 | ★            | ☆     | ☆      |          | ☆              | ☆       | ☆      | ☆        | ☆            | ★                       | ☆                | ☆         | ☆         | ☆                | ☆                                | ☆    | ☆       | ☆       | ☆           | ☆                         |
| M2                | 1.3343 | SKH51 | ★            | ☆     | ☆      |          | ☆              | ☆       | ☆      | ☆        | ☆            | ★                       | ☆                | ☆         | ☆         | ☆                | ☆                                | ☆    | ☆       | ☆       | ☆           | ☆                         |
| M50               | 1.3551 | SKH52 | ★            |       |        |          | ☆              | ★       | ★      |          |              | ★                       | ★                |           |           |                  |                                  |      |         |         |             |                           |
| M3-1              | 1.3344 | SKH53 |              |       | ★      |          |                |         | ★      | ★        | ★            |                         |                  |           |           |                  |                                  |      |         |         |             | ☆                         |
| M3-2              | 1.3344 | SKH55 | ★            |       | ★      |          |                |         | ★      |          | ★            |                         |                  |           |           |                  |                                  |      |         |         |             |                           |
| (M35)             | 1.3243 | SKH56 | ★            | ☆     | ☆      | ★        | ☆              | ☆       | ☆      |          |              | ★                       |                  |           |           | ★                | ★                                |      |         |         |             |                           |
| M36               |        | SKH57 |              | ☆     | ★      |          | ★              | ★       | ★      |          | ★            |                         |                  |           |           |                  |                                  |      |         |         |             |                           |
| (T42)             | 1.3207 | SKH58 | ☆            |       | ★      |          |                | ★       |        |          |              |                         |                  |           |           | ★                |                                  |      |         |         |             |                           |
| M1                | 1.3346 | SKH59 |              | ★     | ★      |          | ★              |         |        |          | ★            | ★                       |                  |           |           |                  |                                  |      |         |         |             |                           |
| M7                | 1.3348 | SKH2  |              |       |        |          | ★              |         |        |          | ☆            |                         |                  |           |           |                  |                                  |      |         |         |             |                           |
| M33               |        | SKH3  |              | ☆     |        |          | ★              | ★       |        |          |              |                         |                  |           |           | ☆                |                                  |      |         |         |             |                           |
| M42               | 1.3247 | SKH4  | ☆            |       |        | ★        |                |         |        | ☆        |              | ☆                       |                  |           |           | ☆                |                                  |      |         |         |             |                           |
| T1                | 1.3355 | SKH10 | ★            |       |        |          |                |         |        |          |              | ☆                       | ☆                |           |           |                  | ★                                |      |         |         | ★           |                           |
| T4                | 1.3255 | SKH59 | ☆            |       |        |          |                |         |        |          |              | ☆                       | ☆                |           |           |                  |                                  |      |         |         |             |                           |
| T5                | 1.3265 | SKH10 | ☆            |       |        |          |                |         |        |          |              | ★                       | ★                |           |           |                  |                                  |      |         |         |             |                           |
| T15               | 1.3202 | SKH57 | ☆            |       |        |          | ☆              | ★       |        |          |              |                         |                  |           |           |                  |                                  |      |         |         |             |                           |
| M42               |        |       | ★            |       |        | ★        | ★              |         | ★      | ☆        |              | ★                       | ★                | ★         | ★         | ★                |                                  |      | ★       |         |             |                           |
| T15               |        |       | ★            |       |        | ★        | ★              | ☆       |        |          |              |                         |                  |           |           |                  |                                  |      |         |         |             |                           |
| (T42)             |        |       |              | ☆     |        |          |                |         |        |          |              |                         |                  |           |           |                  |                                  |      |         |         |             |                           |



# High Speed Steel



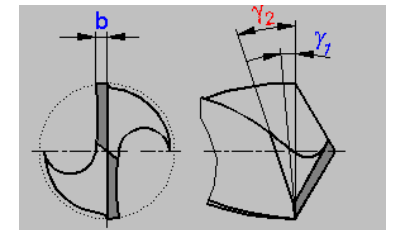
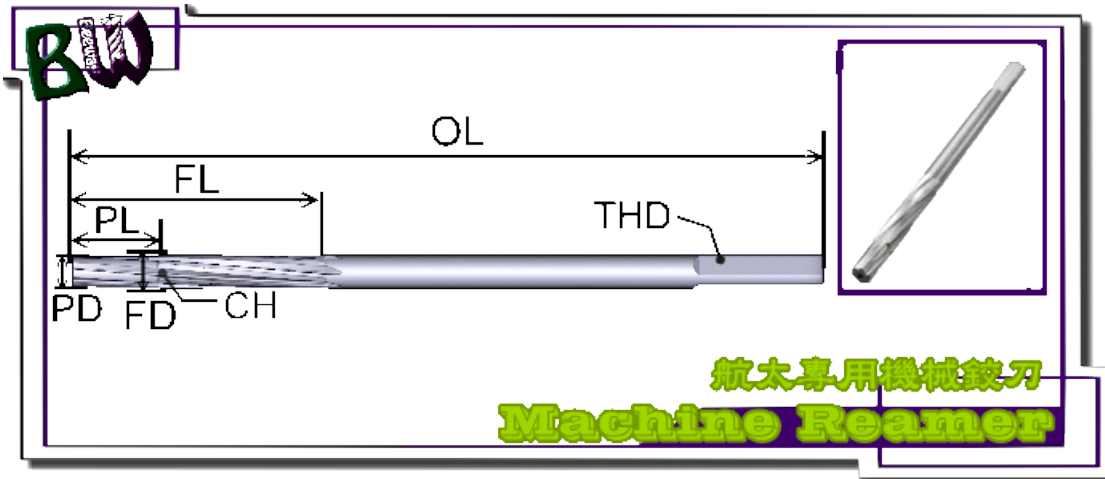
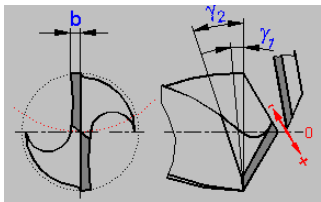
| Designation       |        |       | Heat Treatment     |                    | Hardness       |                        |
|-------------------|--------|-------|--------------------|--------------------|----------------|------------------------|
| Related Standards |        |       | Hardening Temp.(C) | Tempering Temp.(c) | Annealing (HB) | Working Hardness (HRC) |
| AISI              | VDEh   | JIS   |                    |                    |                |                        |
| M2                | 1.3343 | SKH51 | 1150-1230℃         | 540-580℃           | <255           | 58-66                  |
| M2                | 1.3343 | SKH51 |                    |                    |                |                        |
| M50               | 1.3551 | SKH52 | 1100-1120℃         | 540-580℃           | <235           | 61-64                  |
| M3-1              | 1.3344 | SKH53 | 1180-1230℃         |                    | <269           | 63-66                  |
| M3-2              | 1.3344 | SKH55 |                    |                    | <277           | 64-67                  |
| (M35)             | 1.3243 | SKH56 |                    |                    |                |                        |
| M36               |        | SKH57 | 1200-1230℃         | 540-580℃           | <285           | 65-68                  |
| (T42)             | 1.3207 | SKH58 | 1220-1250℃         | 520-580℃           |                | 65-69                  |
| M1                | 1.3346 | SKH59 | 1190-1210℃         | 520-580℃           | <248           | 63-66                  |
| M7                | 1.3348 | SKH2  |                    |                    | <255           |                        |
| M33               |        | SKH3  | 1180-1200℃         |                    | <285           | 65-68                  |
| M42               | 1.3247 | SKH4  | 1160-1200℃         |                    | <232           | 63-66                  |
| T1                | 1.3355 | SKH10 | 1200-1280℃         |                    | <248           | 64-68                  |
| T4                | 1.3255 | SKH59 |                    |                    |                |                        |
| T5                | 1.3265 | SKH10 | 1200-1290℃         |                    | <285           | 65-69                  |
| T15               | 1.3202 | SKH57 | 1220-1250℃         |                    |                | 64-68                  |
| M42               |        |       | 1130-1200℃         | 540-600℃           |                | 62-68                  |
| T15               |        |       | 1200-1240℃         | 540-580℃           |                | 66-69                  |
| (T42)             |        |       | 1130-1240℃         | 540-600℃           |                | 63-69                  |



# Machine Reamer for Aerospace Industry



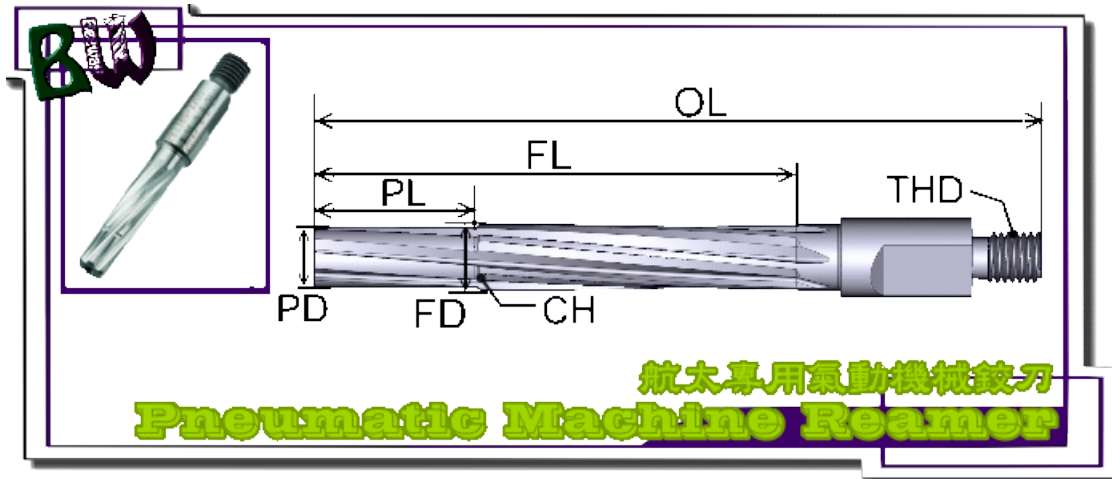
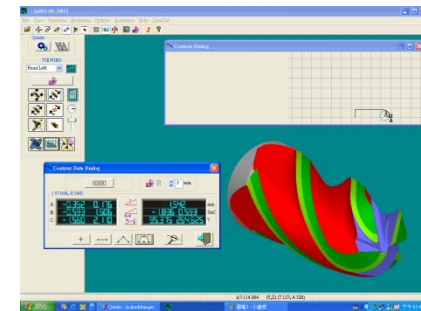
- **Product: Aviation Tool » Pilot Reamer**
- **Norm: Accord with NAS897 、 NAS965**
- **Application: Machine Reamer for aerospace industry Material : in - HSS-CO4**
- [http://www.tool-tool.com/aviation-pilot-c1\\_e.htm](http://www.tool-tool.com/aviation-pilot-c1_e.htm)



# Pneumatic Machine Reamer For Aerospace Industry



- Product : Aviation Tool» Pilot Reamer
- Norm : Accord with NAS897 、 NAS965
- Application : Apply in machining special material of aerospace industry.  
Detailed dimension is as below chart...
- Material : in - HSS-CO4
- [http://www.tool-tool.com/aviation-pilot-c2\\_e.htm](http://www.tool-tool.com/aviation-pilot-c2_e.htm)



# Pneumatic Machine Reamer For Aerospace Industry(Double Flute)



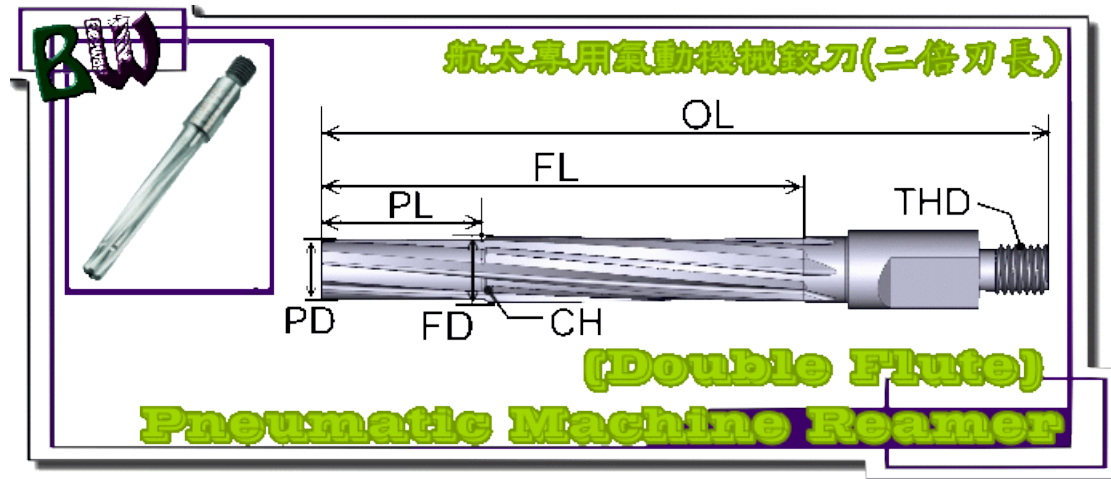
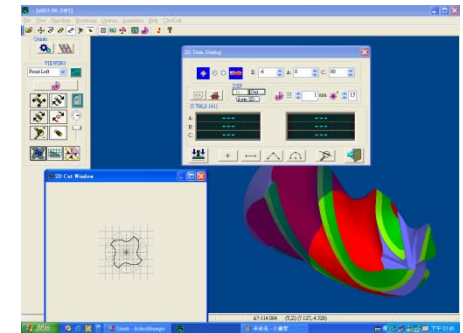
**Product :** Aviation Tool» Pilot Reamer

**Norm :** Accord with NAS897 、NAS965

**Application :** Apply in machining special material of aerospace industry. Detailed dimension is as below chart...

**Material :** in - HSS-CO4

[http://www.tool-tool.com/aviation-pilot-c3\\_e.htm](http://www.tool-tool.com/aviation-pilot-c3_e.htm)



# Aviation Tapered Straight Flute Thread Reamer



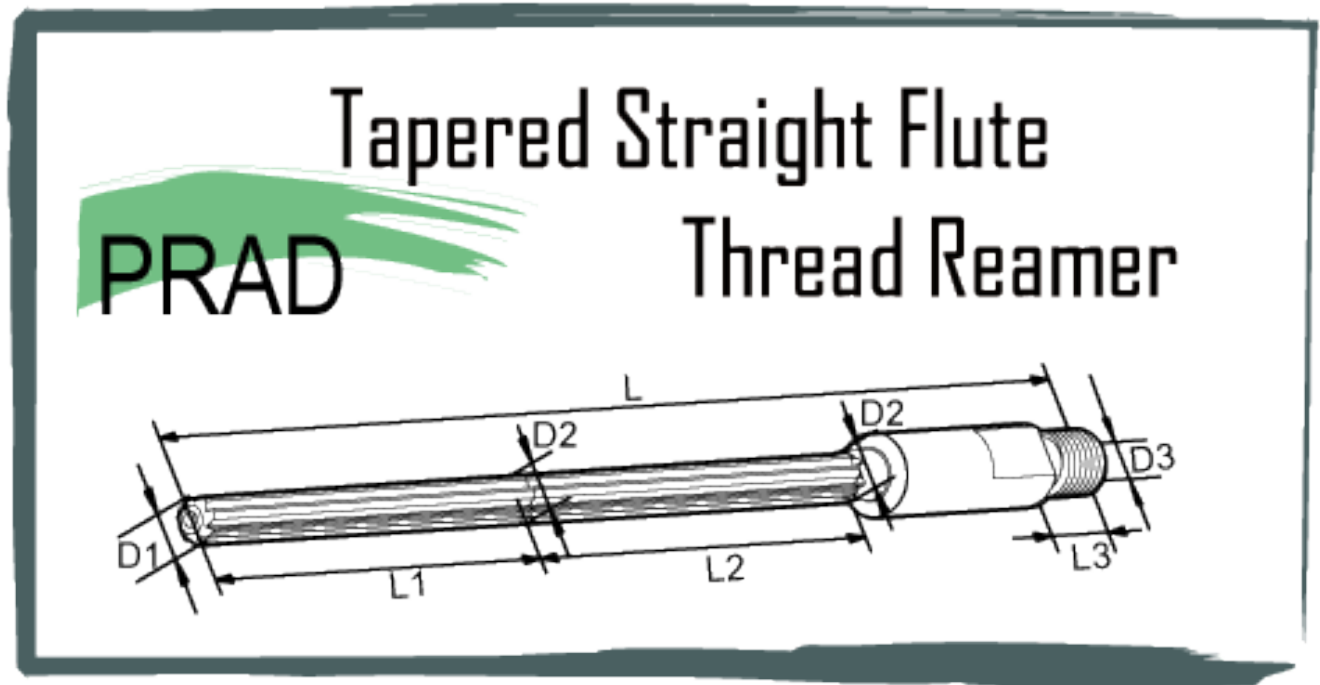
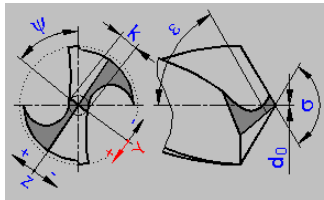
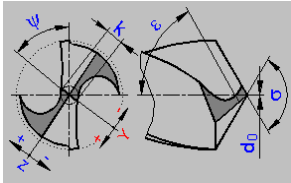
**Product :** Aviation Tool » Pilot Reamer

**Norm :** Accord with TAPPER REAMER-NAS897

**Application :** Apply in machining special pneumatic machinery of aerospace industry.

**Detailed dimension is as below chart...**

**Material :** in - HSS-CO4



# Aviation Tapered Helix Thread Reamer

**Product :** Aviation Tool » Pilot Reamer

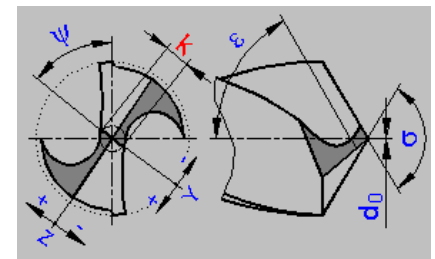
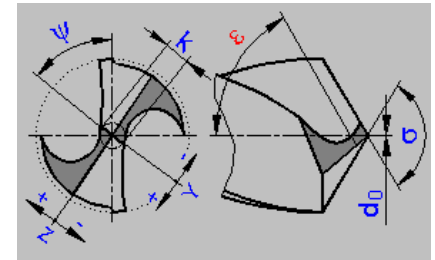
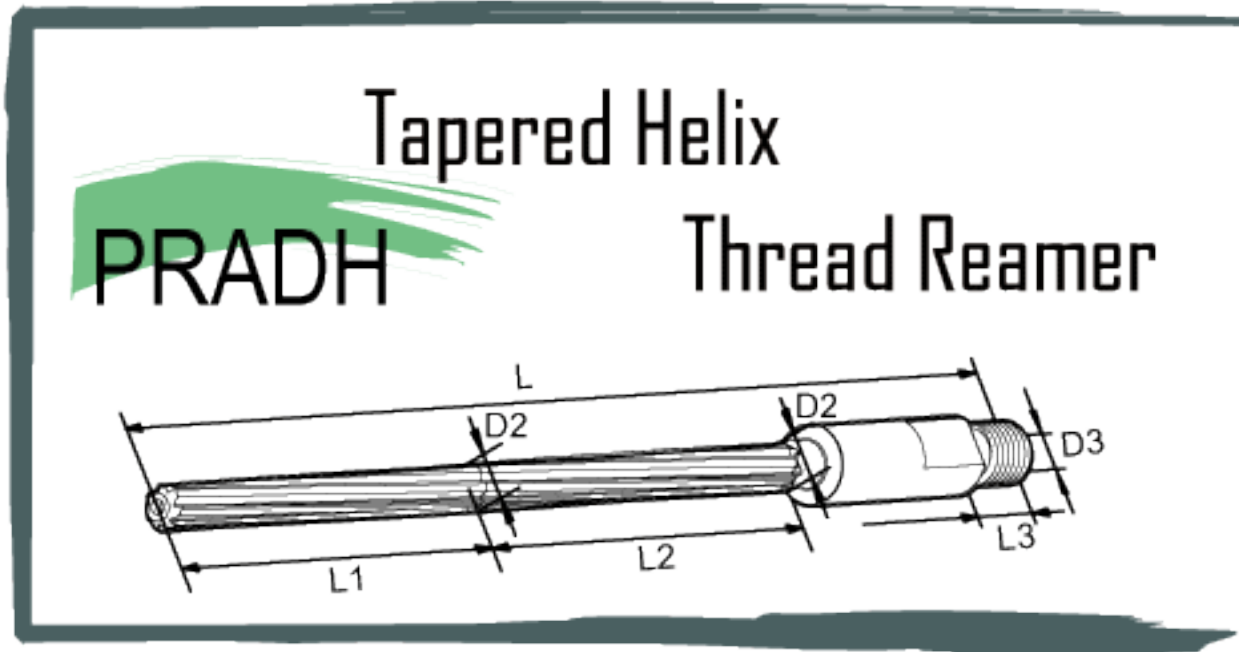
**Norm :** Accord with TAPPER REAMER-NAS897

**Application :** Apply in machining special pneumatic machinery of aerospace industry.

**Detailed dimension is as below chart...**

**Material :** in - HSS-CO4

[http://www.tool-tool.com/aviation-pilot-c5\\_e.htm](http://www.tool-tool.com/aviation-pilot-c5_e.htm)



# Aviation Tapered Straight Flute Reamer - shank with 3-flat holder



**Product :** Aviation Tool» Pilot Reamer

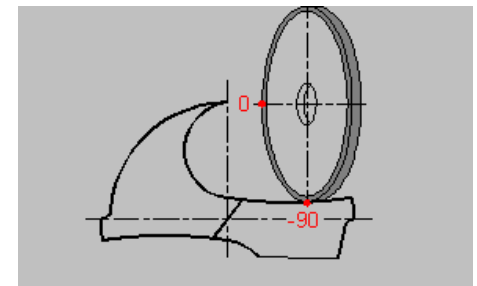
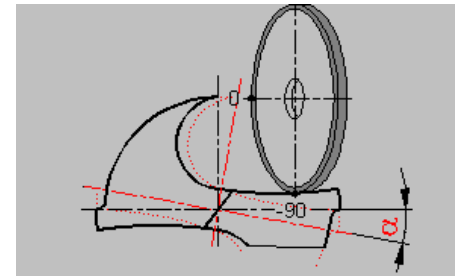
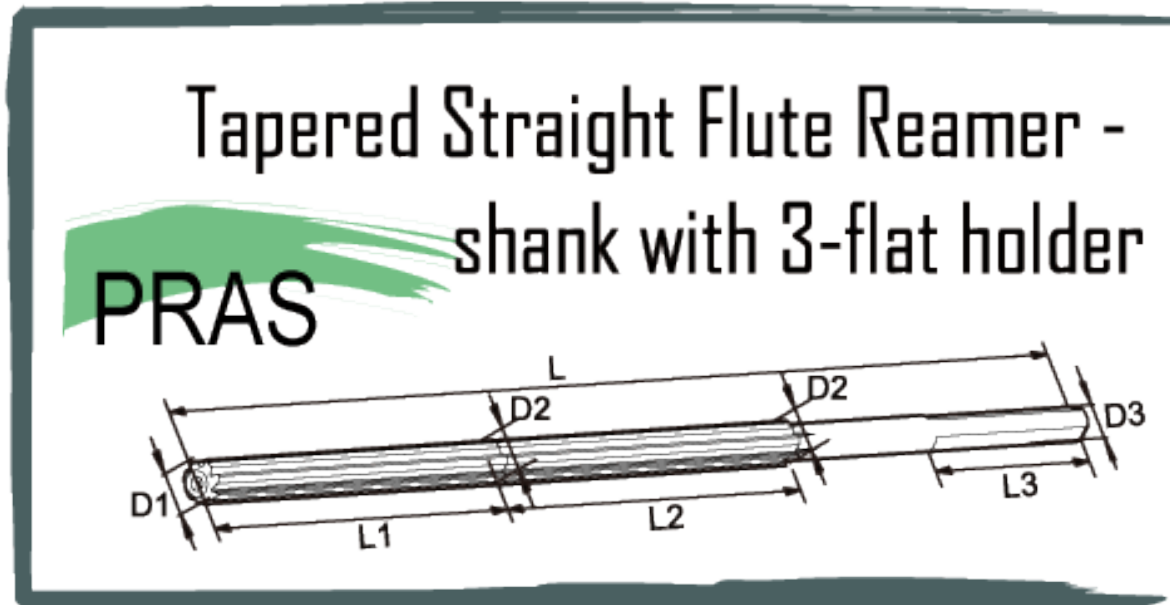
**Norm :** Accord with TAPPER REAMER-NAS897

**Application :** Apply in machining special pneumatic machinery of aerospace industry.

**Detailed dimension** is as below chart...

**Material :** in - HSS-CO4

[http://www.tool-tool.com/aviation-pilot-c6\\_e.htm](http://www.tool-tool.com/aviation-pilot-c6_e.htm)



# Aviation Tapered Helix Reamer - shank with 3-flat holder



**Product :** Aviation Tool » Pilot Reamer

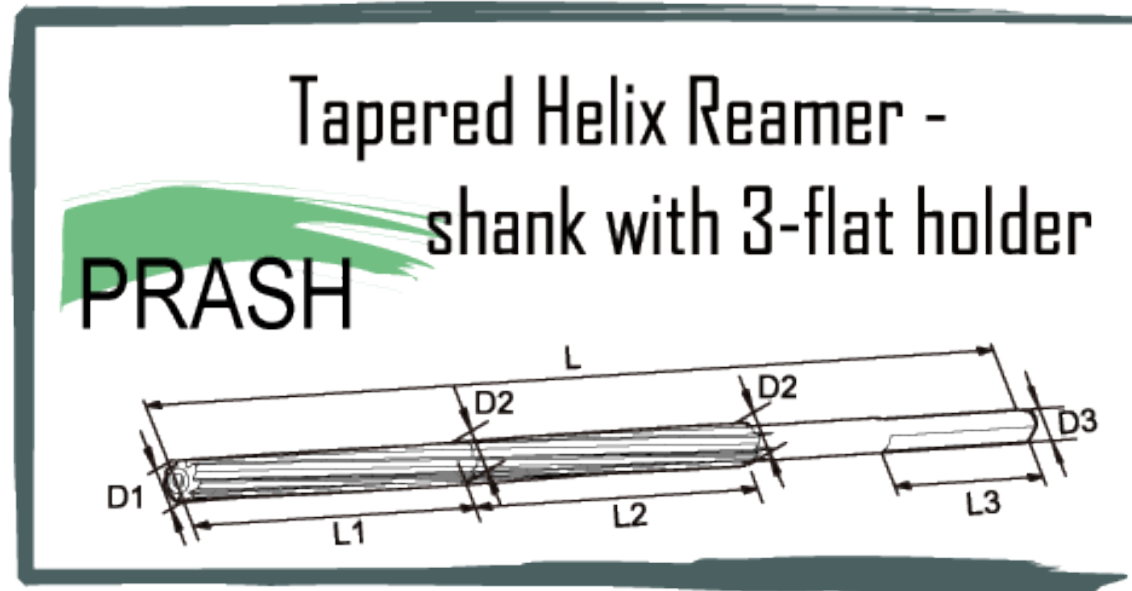
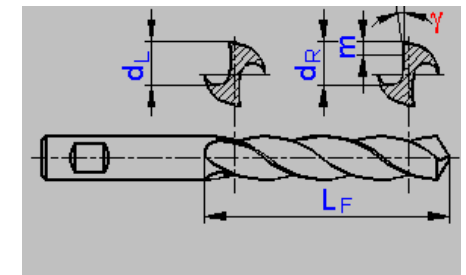
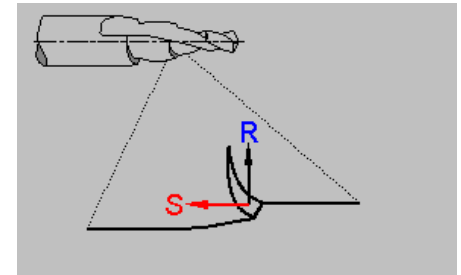
**Norm :** Accord with TAPPER REAMER-NAS897

**Application :** Apply in machining special pneumatic machinery of aerospace industry.

**Detailed dimension** is as below chart...

**Material :** in - HSS-CO4

[http://www.tool-tool.com/aviation-pilot-c7\\_e.htm](http://www.tool-tool.com/aviation-pilot-c7_e.htm)



# Machine Step Drill

## Mor Aerospace Industry



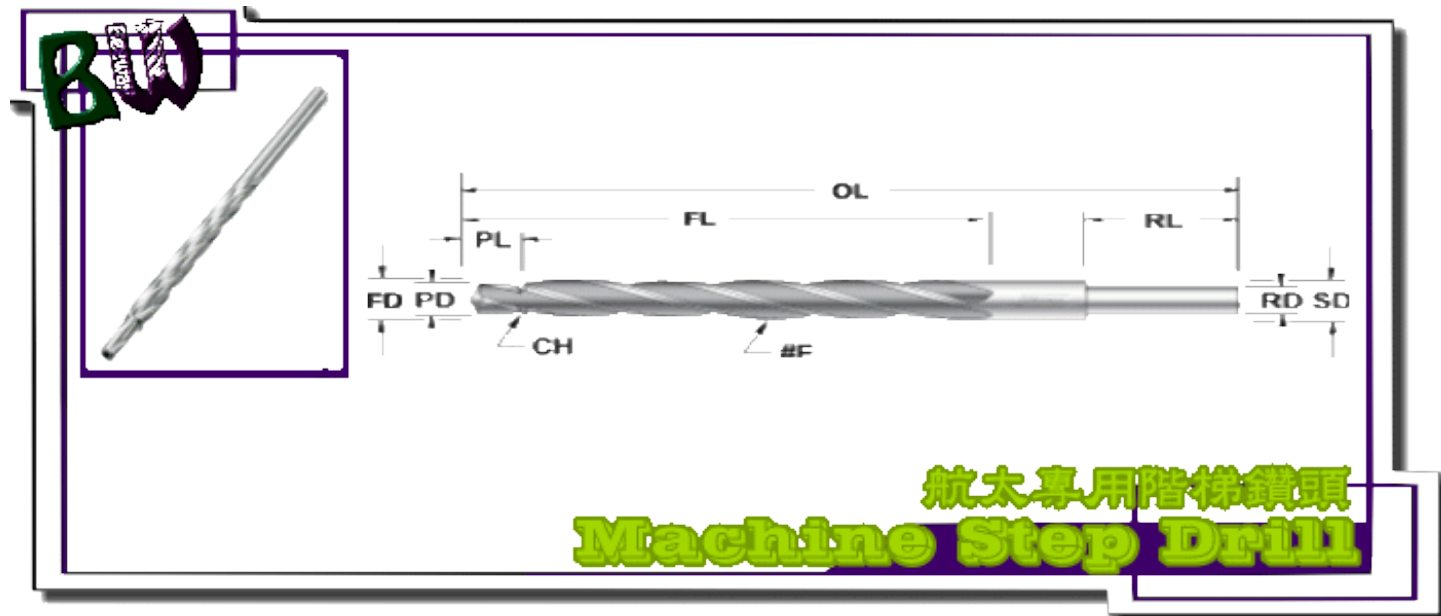
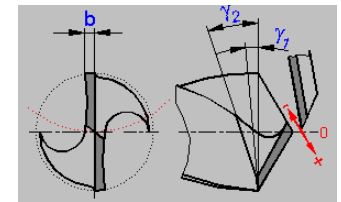
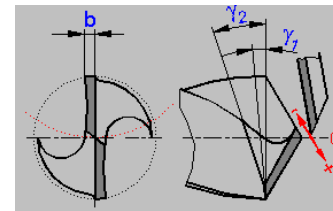
Product : Aviation Tool» Double Margin Drill

Norm : Accord with NAS937 、NAS965

Application : Apply in machining special material of aerospace industry. Detailed dimension is as below chart...

Material : in - HSS-CO4

[http://www.tool-tool.com/aviation-double-c1\\_e.htm](http://www.tool-tool.com/aviation-double-c1_e.htm)



# Pneumatic Machine Step Drill For aerospace Industry



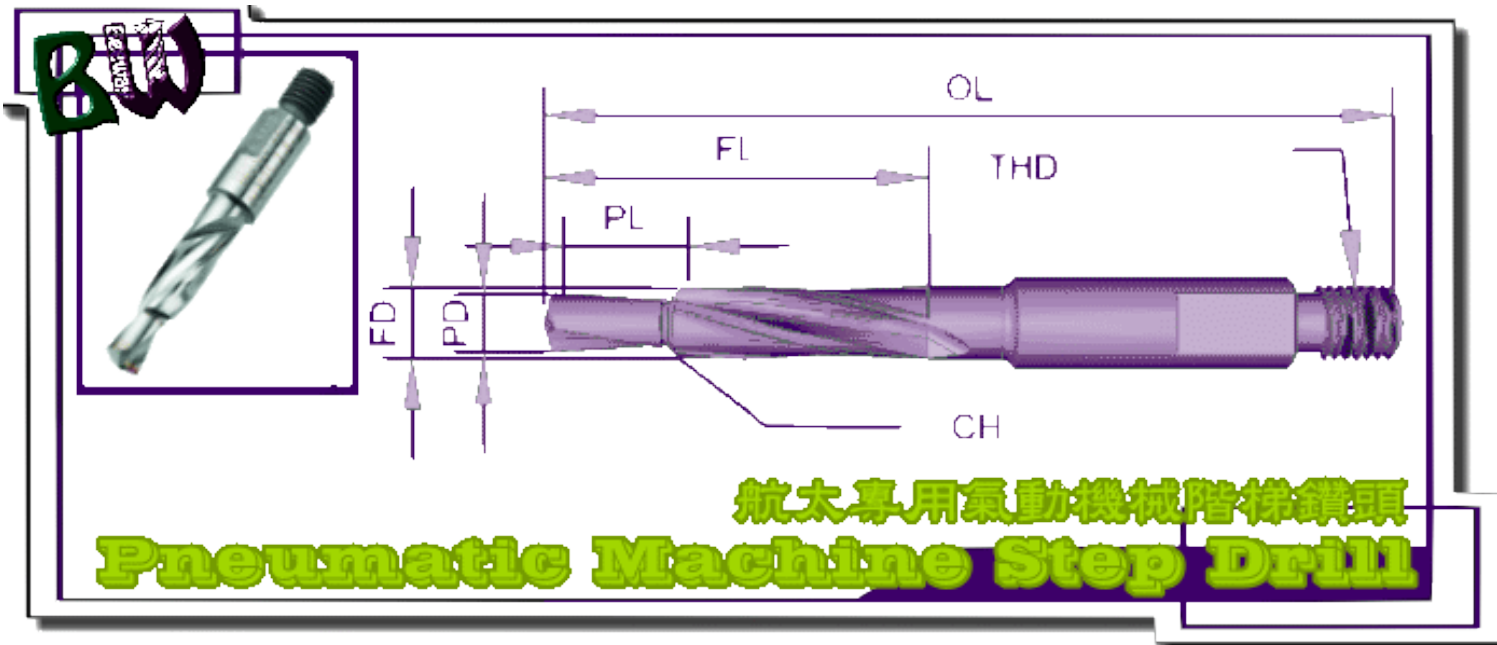
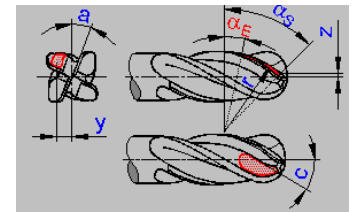
Product : Aviation Tool» Double Margin Drill

Norm : Accord with NAS937 、NAS965

Application : Apply in machining special material of aerospace industry. Detailed dimension is as below chart...

Material : in - HSS-CO4

[http://www.tool-tool.com/aviation-double-c2\\_e.htm](http://www.tool-tool.com/aviation-double-c2_e.htm)



# Pneumatic Machine Step Drill (Double Flute) For Aerospace Industry



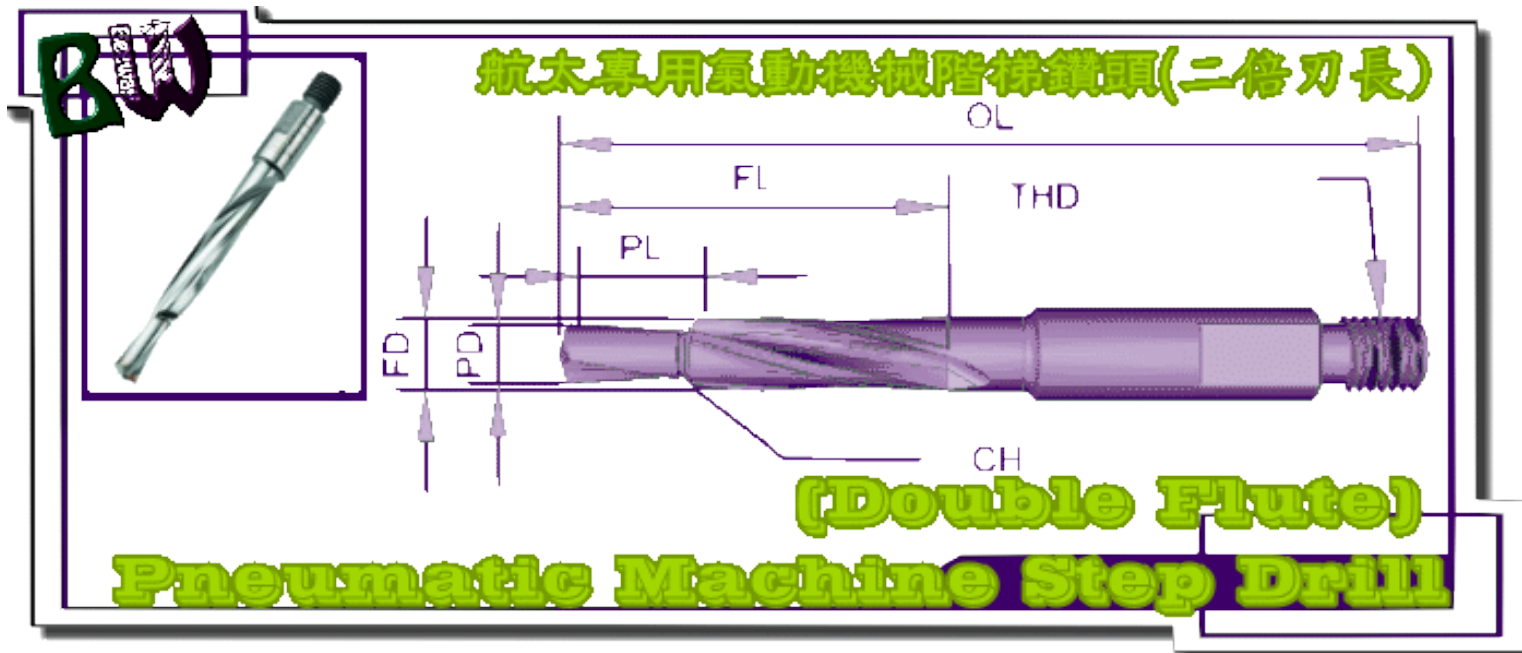
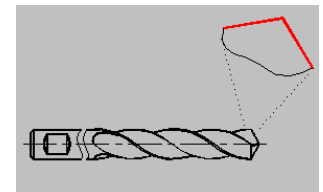
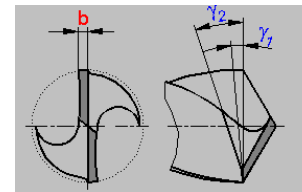
Product : Aviation Tool» Double Margin Drill

Norm : Accord with NAS937 、NAS965

Application : Apply in machining special material of aerospace industry. Detailed dimension is as below chart...

Material : in - HSS-CO4

[http://www.tool-tool.com/aviation-double-c3\\_e.htm](http://www.tool-tool.com/aviation-double-c3_e.htm)



# Gun Barrel for aerospace industry



Product : Aviation Tool» **Gun Barrel**

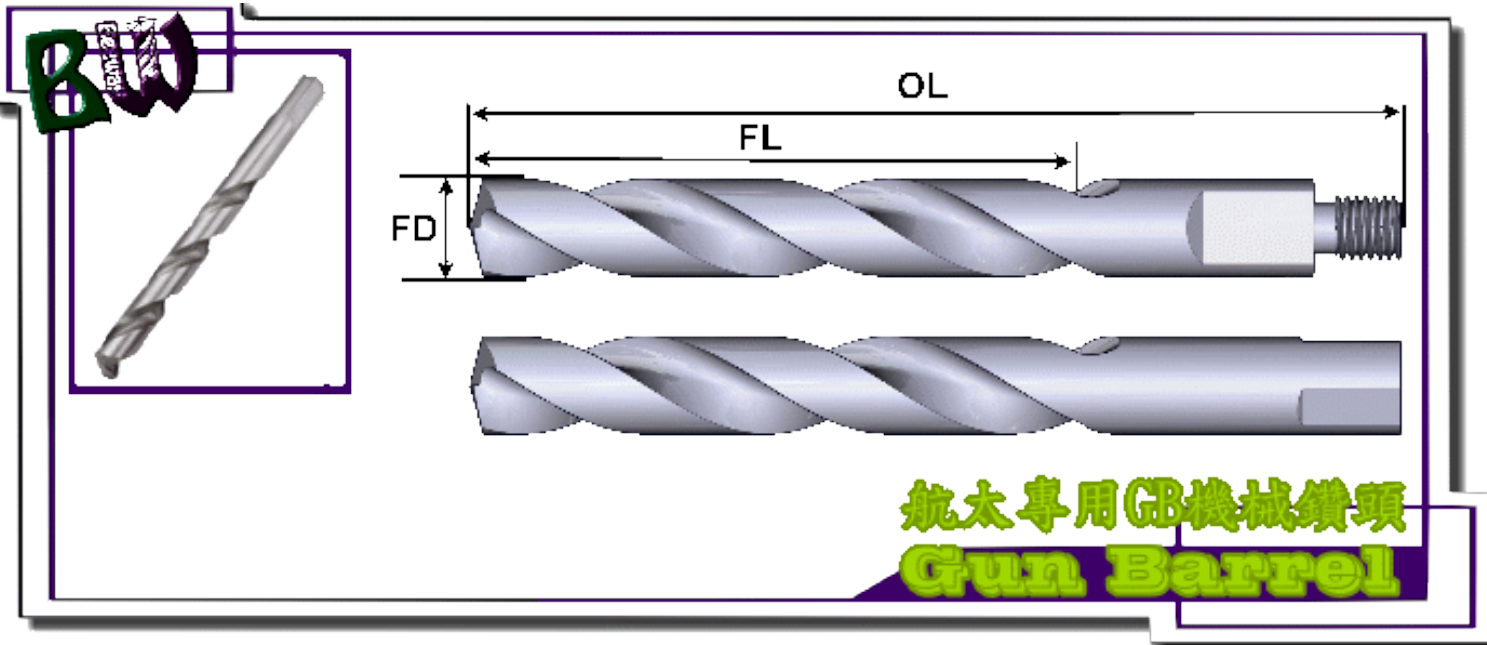
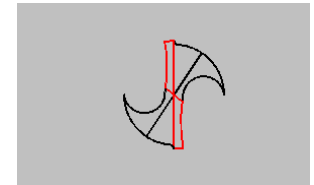
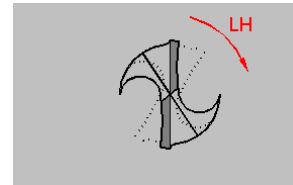
Norm : Accord with NAS907 、NAS965

Application : Machining special material of aerospace industry for drilling machinery

Detailed dimension is as below chart

Material : in - HSS-CO4

[http://www.tool-tool.com/aviation-gun-cl\\_e.htm](http://www.tool-tool.com/aviation-gun-cl_e.htm)



# Gun Barrel For Aerospace Industry



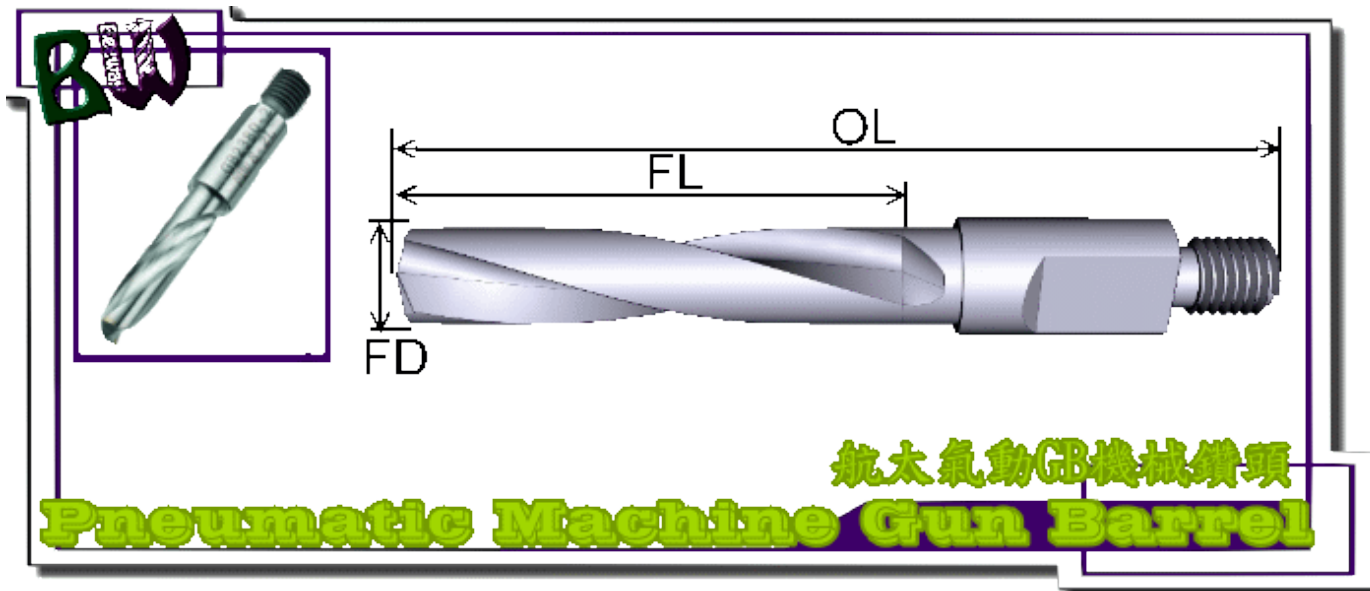
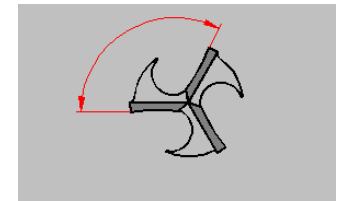
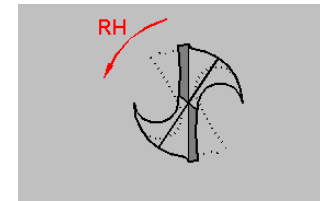
Product : Aviation Tool» **Gun Barrel**

Norm : Accord with NAS907 、 NAS965

Application : Machining special material of aerospace industry for drilling machinery Detailed dimension is as below chart

Material : in - HSS-CO4

[http://www.tool-tool.com/aviation-gun-c2\\_e.htm](http://www.tool-tool.com/aviation-gun-c2_e.htm)



# Gun Barrel(Double Flute) For Aerospace Industry



Product : Aviation Tool» Gun Barrel

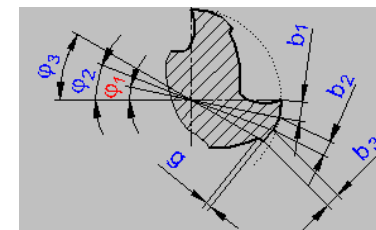
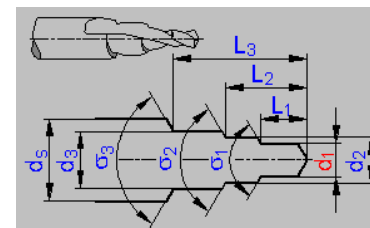
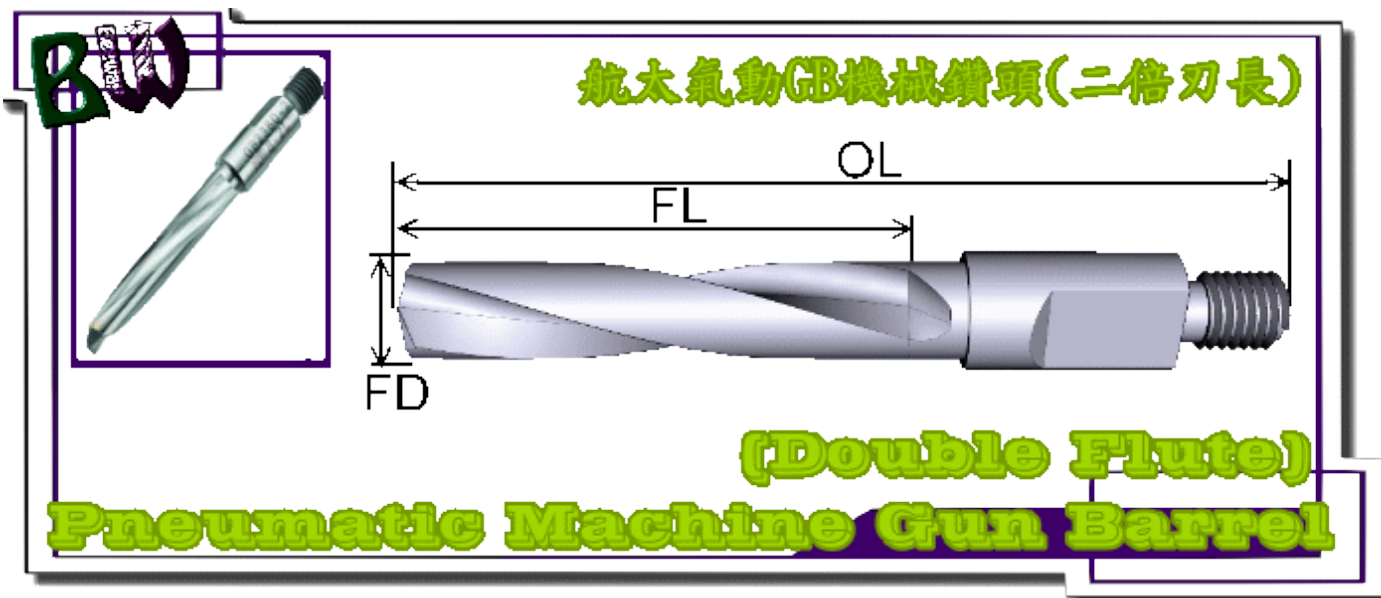
Norm : Accord with NAS907 、NAS965

Application : Machining special material of aerospace industry for drilling machinery

Detailed dimension is as below chart

Material : in - HSS-CO4

[http://www.tool-tool.com/aviation-gun-c3\\_e.htm](http://www.tool-tool.com/aviation-gun-c3_e.htm)



# Machine Core Drill For Aerospace Industry



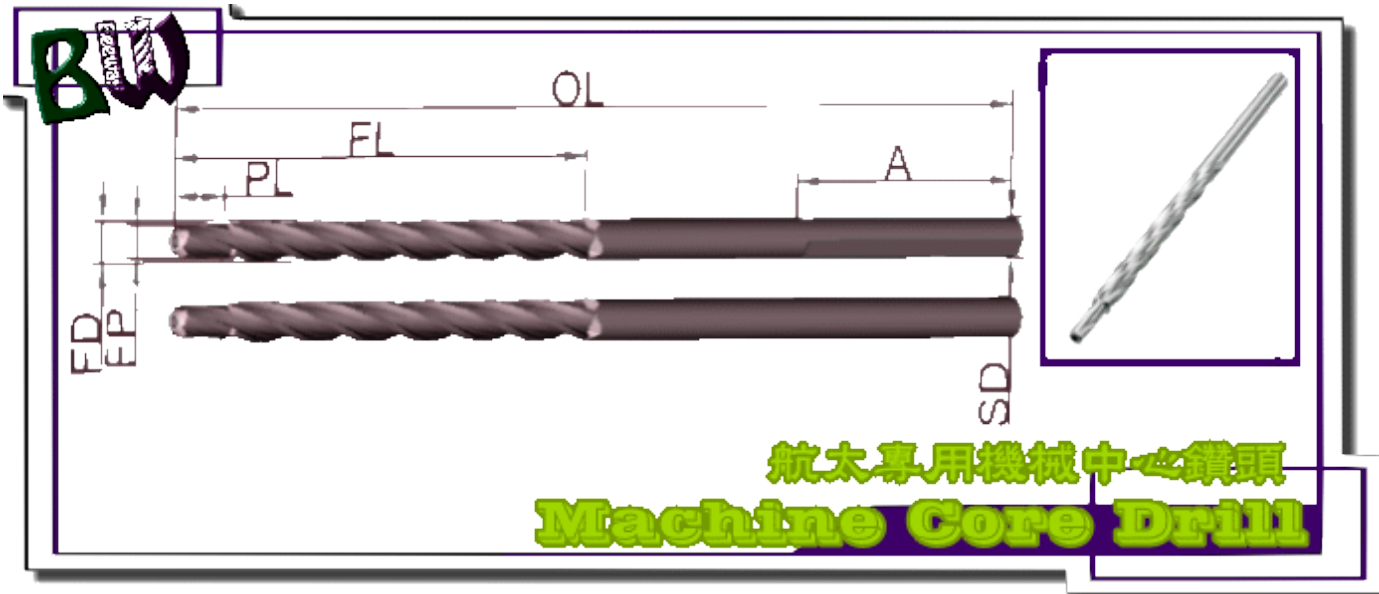
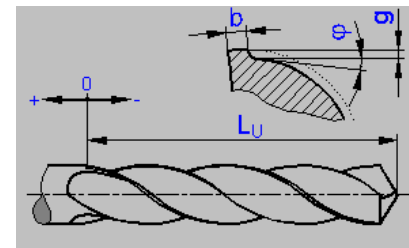
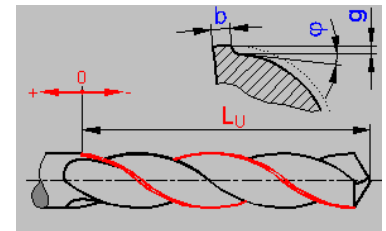
Product : Aviation Tool» Core Drill

Norm : Accord with NAS

Application : Aviation Special Core Drill Cutter Detailed dimension is as below chart...

Material : in - HSS-CO4

[http://www.tool-tool.com/aviation-core-c1\\_e.htm](http://www.tool-tool.com/aviation-core-c1_e.htm)



航太專用機械中心鑽頭

Machine Core Drill

# Pneumatic Machine Core Drill For Aerospace Industry



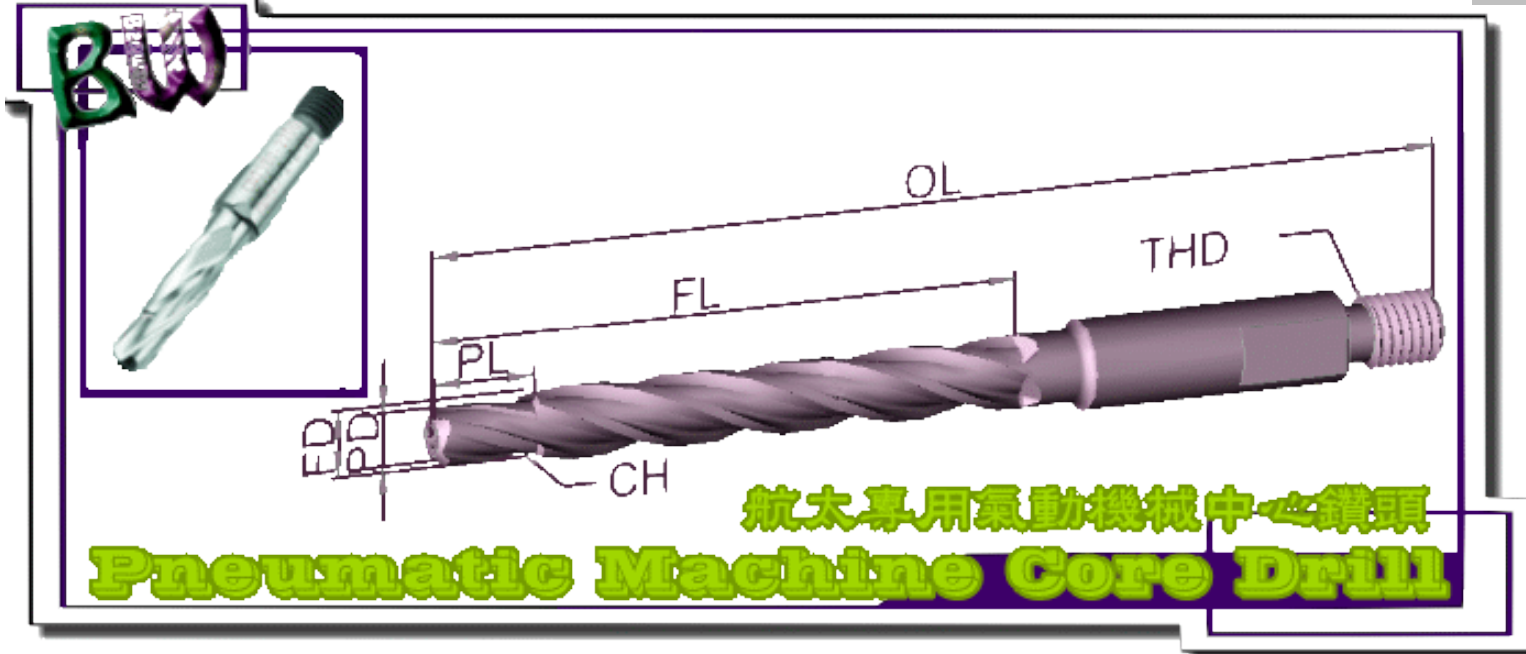
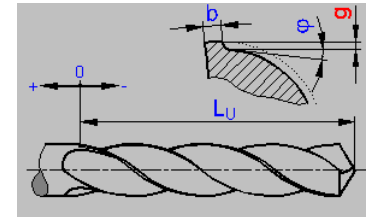
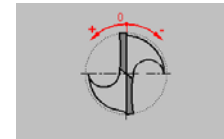
Product : Aviation Tool» Core Drill

Norm : Accord with NAS

Application : Aviation Special Core Drill Cutter Detailed dimension is as below chart...

Material : in - HSS-CO4

[http://www.tool-tool.com/aviation-core-c2\\_e.htm](http://www.tool-tool.com/aviation-core-c2_e.htm)



# Pneumatic Machine Core Drill For Aerospace Industry(Double Flute)



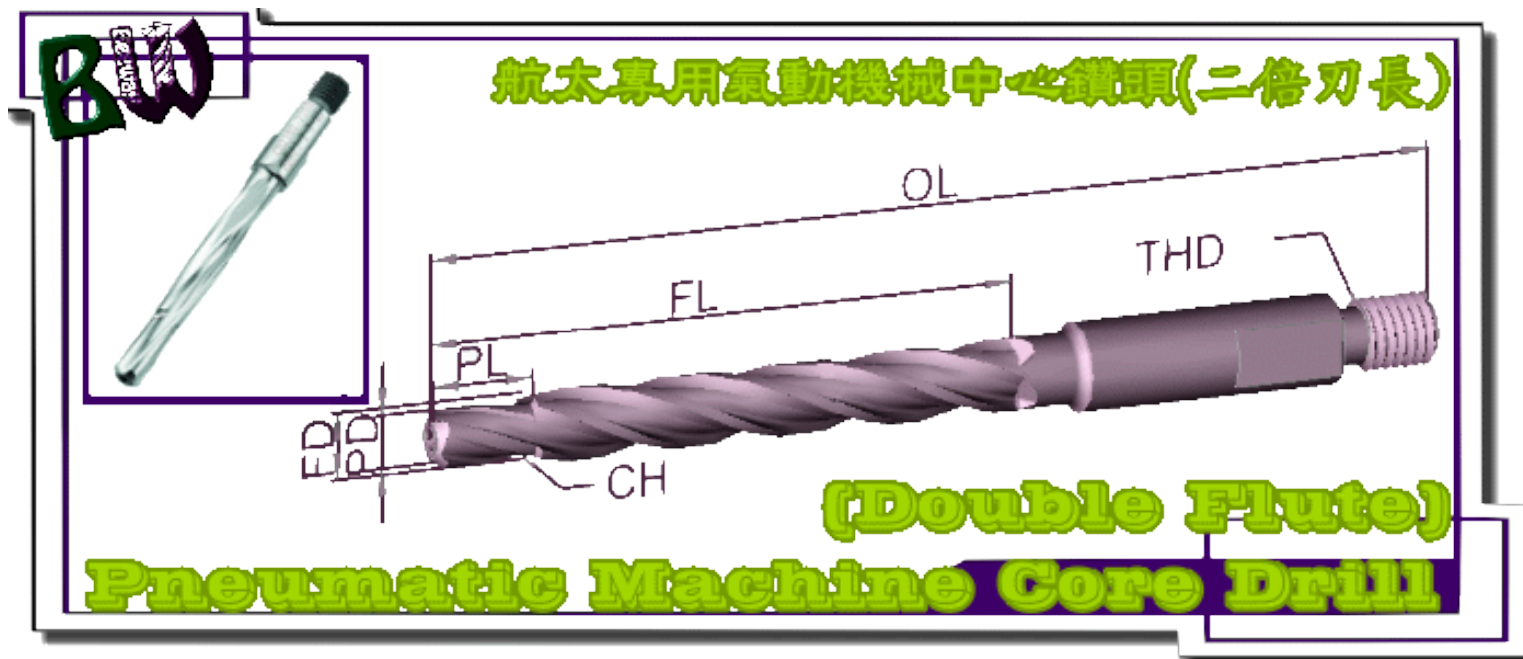
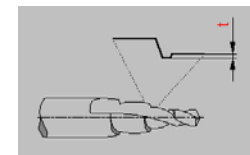
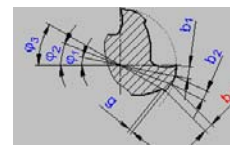
Product : Aviation Tool» Core Drill

Norm : Accord with NAS

Application : Aviation Special Core Drill Cutter Detailed dimension is as below chart...

Material : in - HSS-CO4

[http://www.tool-tool.com/aviation-core-c3\\_e.htm](http://www.tool-tool.com/aviation-core-c3_e.htm)



# ST Drill ST1221JD-A Cutters For Standard Diameter Pneumatic Tool



Product : Aviation Tool» **ST Drill**

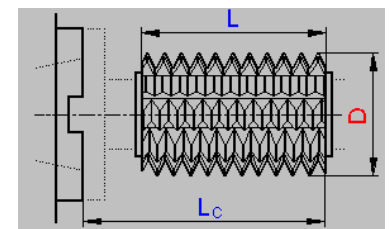
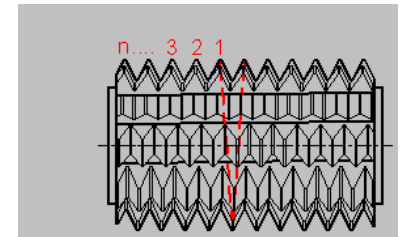
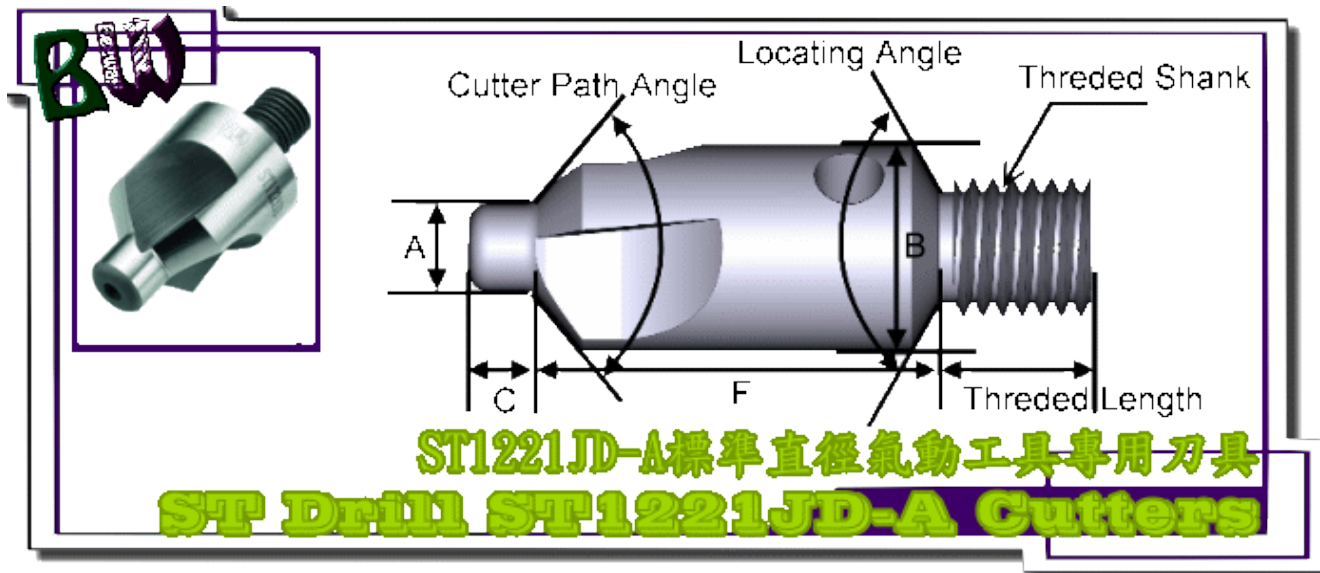
Norm : Accord with NAS Poeing Aerospace Maintance Cutter

Application : When maintance worker finishes boring, they need pneumatic tool to do counterbore so that the air screw may match the aerospace material tightly to avoid air resistance and decrease air accidents.

Detailed dimension is as below chart ...

Material : in - HSS-CO4

[http://www.tool-tool.com/aviation-stdrill-c1\\_e.htm](http://www.tool-tool.com/aviation-stdrill-c1_e.htm)



# ST Drill ST1221JD-4 Cutters For Pneumatic Tool



**Product : Aviation Tool» ST Drill**

**Norm : Accord with NAS Poeing Aerospace Maintance Cutter**

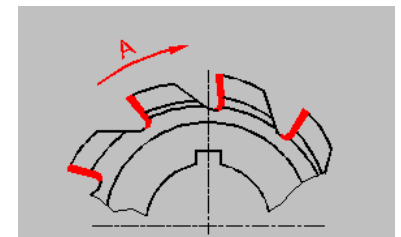
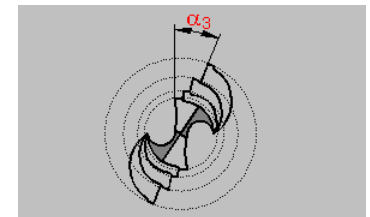
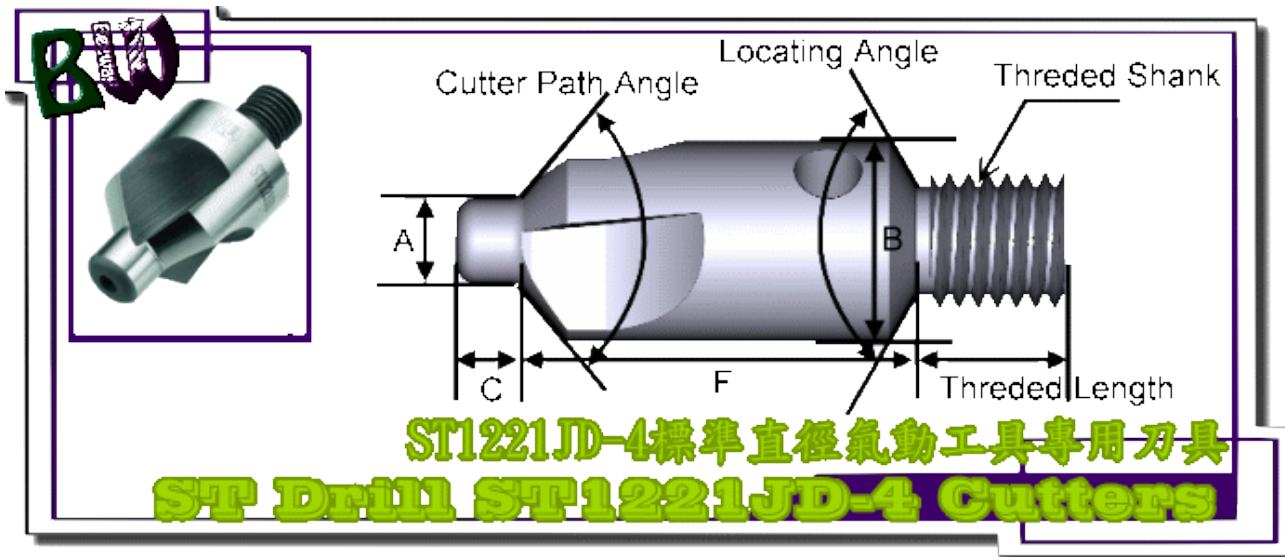
**Application : When maintance worker finishes boring, they need pneumatic tool to do counterbore so that the air screw may**

**match the aerospace material tightly to avoid air resistance and decrease air accidents.**

**Detailed dimension is as below chart ...**

**Material : in - HSS-CO4**

[http://www.tool-tool.com/aviation-stdrill-c2\\_e.htm](http://www.tool-tool.com/aviation-stdrill-c2_e.htm)



# ST Drill ST1221JD-7 Large Diameter Cutters For Pneumatic Tool



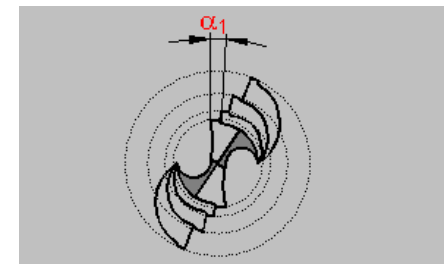
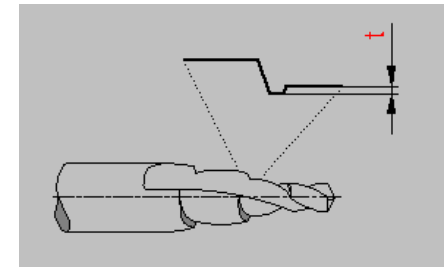
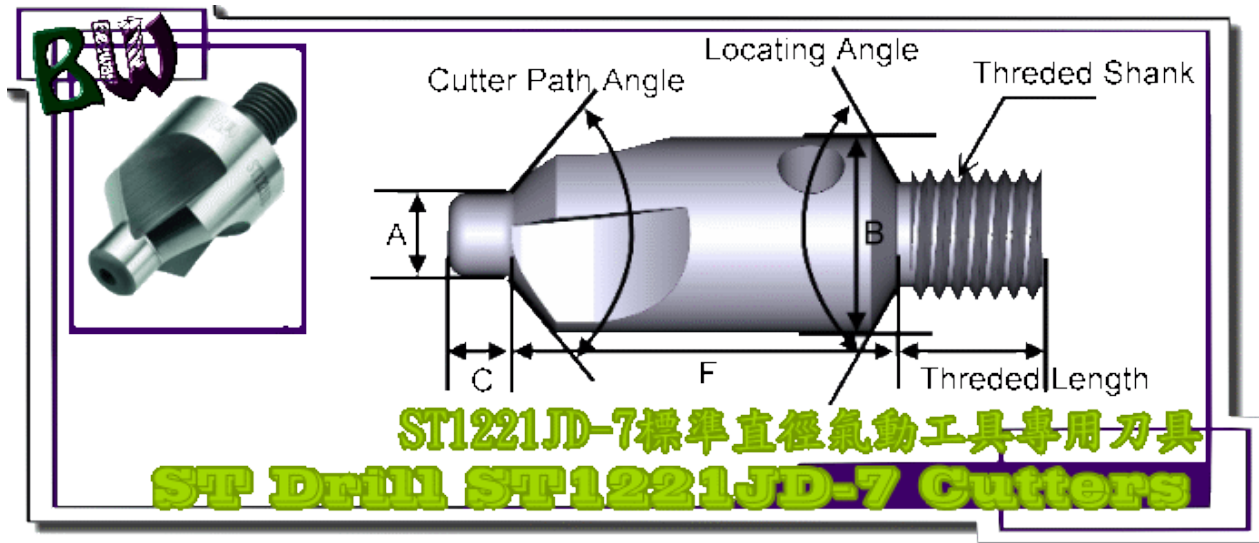
**Product : Aviation Tool» ST Drill**

**Norm : Accord with NAS Poeing Aerospace Maintance Cutter**

**Application : When maintance worker finishes boring, they need pneumatic tool to do counterbore so that the air screw may match the aerospace material tightly to avoid air resistance and decrease air accidents. Detailed dimension is as below chart ...**

**Material : in - HSS-CO4**

[http://www.tool-tool.com/aviation-stdrill-c3\\_e.htm](http://www.tool-tool.com/aviation-stdrill-c3_e.htm)



# HSS End Mills



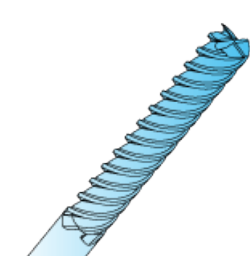
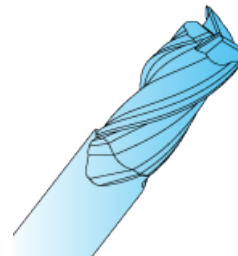
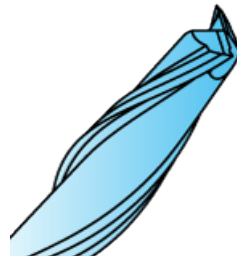
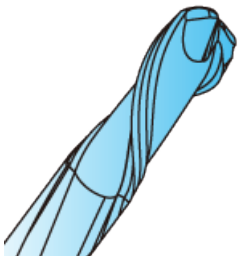
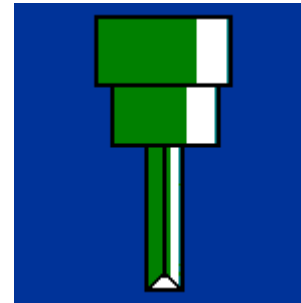
**Product: Aviation Tool » HSS End Mills**

**Norm: under NAS 986 standard**

**Application: working on aerospace industry**

**Material : in – HSS – CO4**

[http://www.tool-tool.com/aviation-hss\\_e.htm](http://www.tool-tool.com/aviation-hss_e.htm)



## **2 Flute Ball End Mill**

30°  
30°( key slot)  
35°  
35°(key slot)  
37°  
37°(key slot)

## **2 Flute End Mill**

30°  
30°(key slot)  
37°  
37°(key slot)

## **3 Flute End Mill**

30°  
30°(key slot)  
35°  
35°(key slot)  
45°  
45°(key slot)

## **4 Flute End Mill**

30°  
30°(key slot)  
35°  
35°(key slot)  
37°  
37°(key slot)  
45°  
45°(key slot)  
55°  
55°(key slot)

# Carbide End Mills



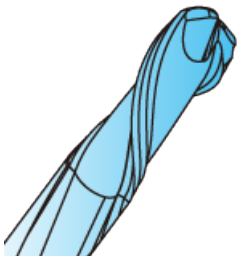
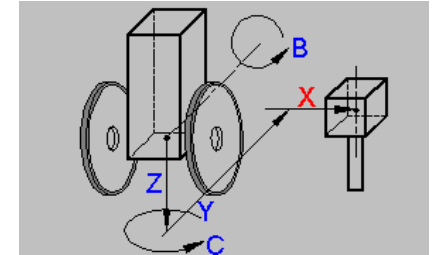
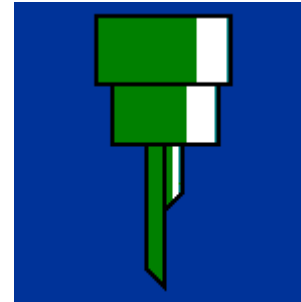
**Product: Aviation Tool » Carbide End Mills**

**Norm: under NAS 986 standard**

**Application: working on aerospace industry**

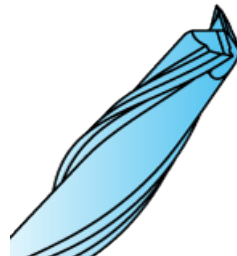
**Material : SMG**

[http://www.tool-tool.com/aviation-carbide\\_e.htm](http://www.tool-tool.com/aviation-carbide_e.htm)



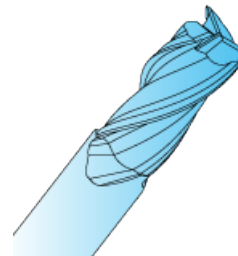
**2 Flute Ball End Mill**

30°  
30°( key slot)  
35°  
35°(key slot)  
37°  
37°(key slot)



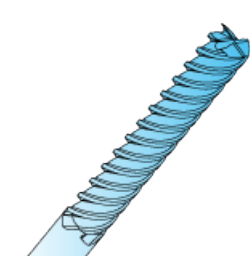
**2 Flute End Mill**

30°  
30°(key slot)  
37°  
37°(key slot)



**3 Flute End Mill**

30°  
30°(key slot)  
35°  
35°(key slot)  
45°  
45°(key slot)



**4 Flute End Mill**

30°  
30°(key slot)  
35°  
35°(key slot)  
37°  
37°(key slot)  
45°  
45°(key slot)  
55°  
55°(key slot)

# Specialized in Aerospace – Carbide Drill



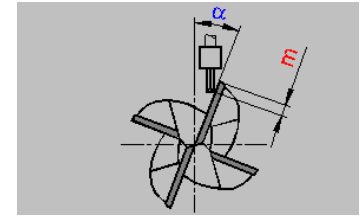
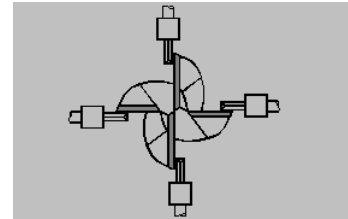
**Product: Aviation Tool » Carbide Drill**

**Norm: under NAS 986 standard**

**Application: working on aerospace industry**

**Material : SMG**

**Flute : 2 Flute**



[http://www.tool-tool.com/aviation-cbd\\_e.htm](http://www.tool-tool.com/aviation-cbd_e.htm)



**Point Angle 118 °**

35°  
35°(Coating)  
38°  
38°(Coating)  
40°  
40°(Coating)

**Point Angle 120 °**

35°  
35°(Coating)  
38°  
38°(Coating)  
40°  
40°(Coating)

**Point Angle 130 °**

35°  
35°(Coating)  
38°  
38°(Coating)  
40°  
40°(Coating)

**Point Angle 135 °**

35°  
35°(Coating)  
38°  
38°(Coating)  
40°  
40°(Coating)

**Point Angle 140 °**

35°  
35°(Coating)  
38°  
38°(Coating)  
40°  
40°(Coating)

# Specialized in Aerospace- Dovetail Cutters

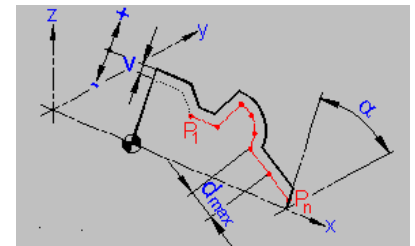
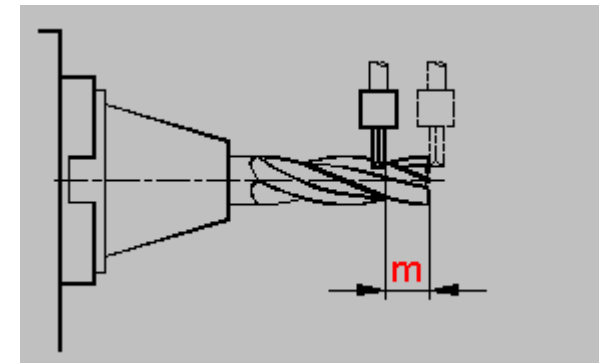
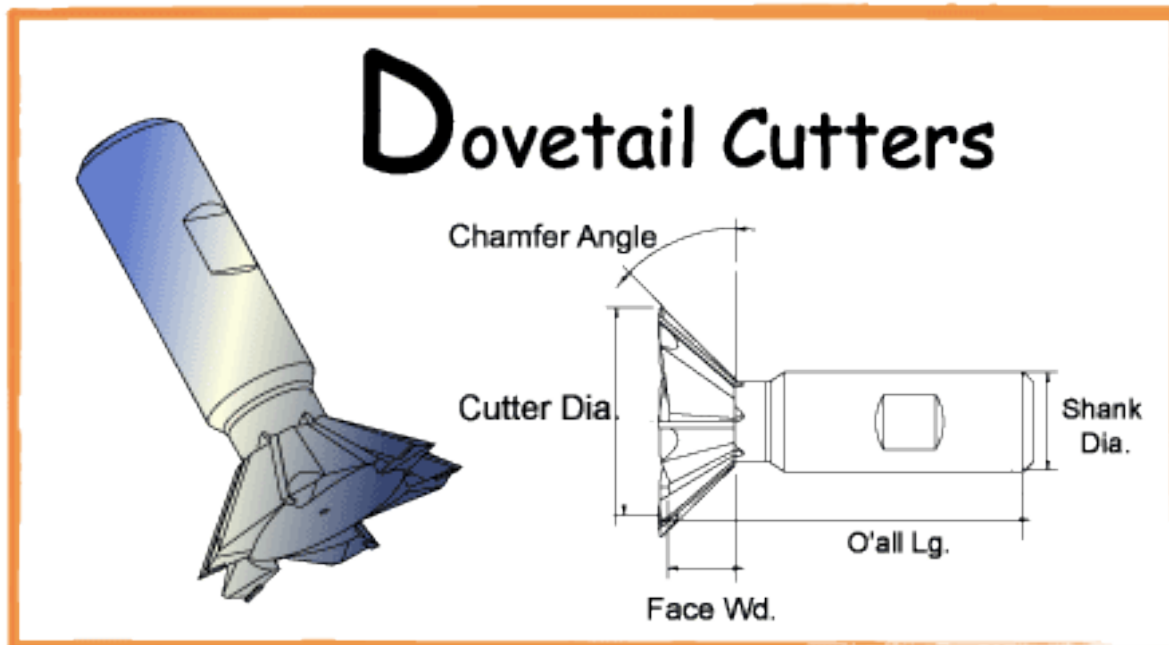


**Product: Aviation Tool » Dovetail Cutters**

**Characteristics:**

**The series of tool is specialized in working aerospace parts and particular material.**

[http://www.tool-tool.com/aviation-dovetail\\_e.htm](http://www.tool-tool.com/aviation-dovetail_e.htm)



# Specialized in Aerospace – Solid Carbide Cutters



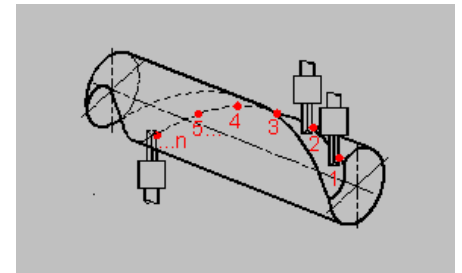
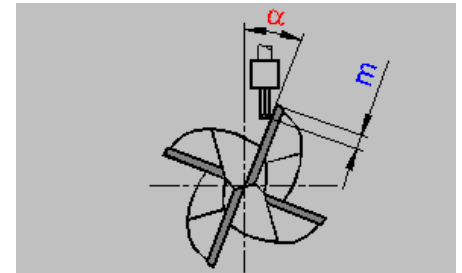
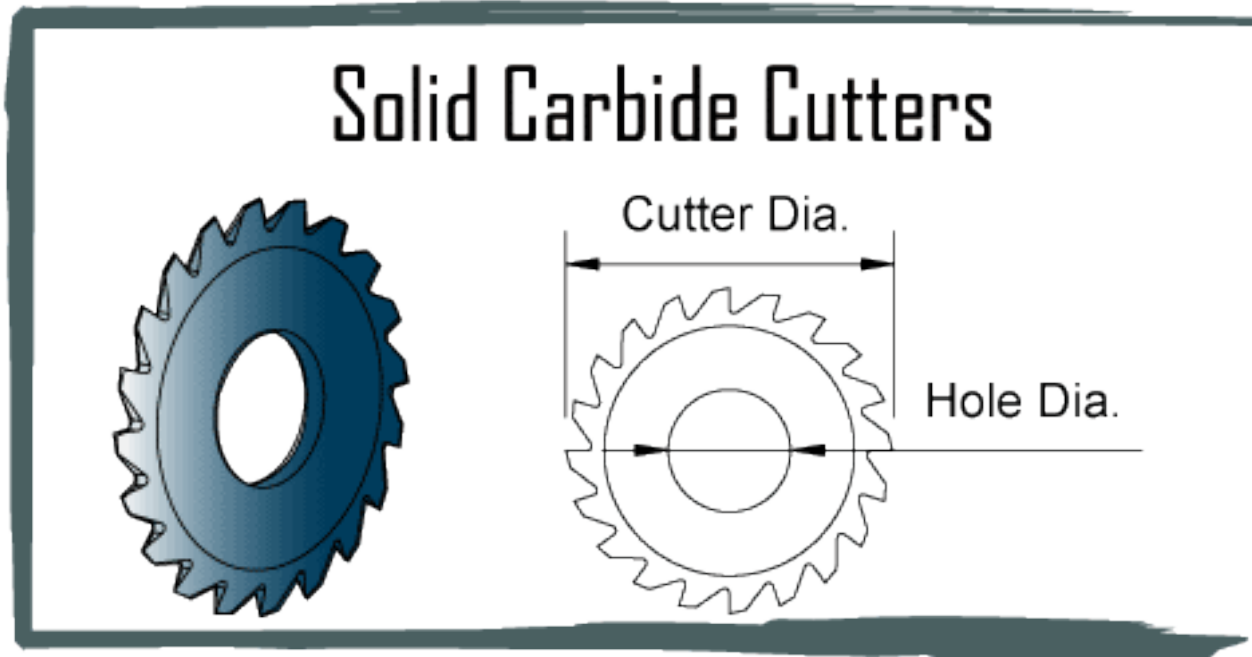
**Product : Aviation Tool » Saw**

**Norm : under NAS standard**

**Application : Apply to professional aerospace industry, good at cutting groove, working on multi-material, and rough finish for particular material.**

**Material : Made of ISO standard carbide**

[http://www.tool-tool.com/aviation-saw-scc\\_e.htm](http://www.tool-tool.com/aviation-saw-scc_e.htm)



# Specialized in Aerospace – Smooth-Finish High-Speed Steel Cutters



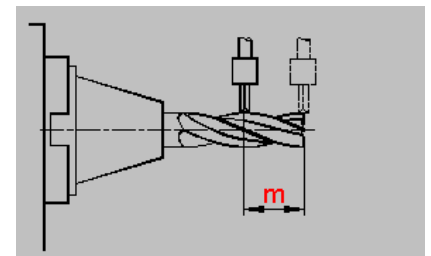
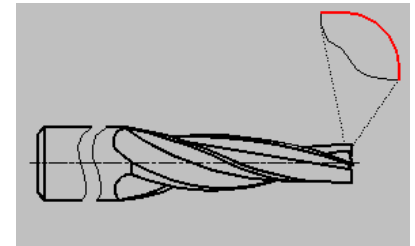
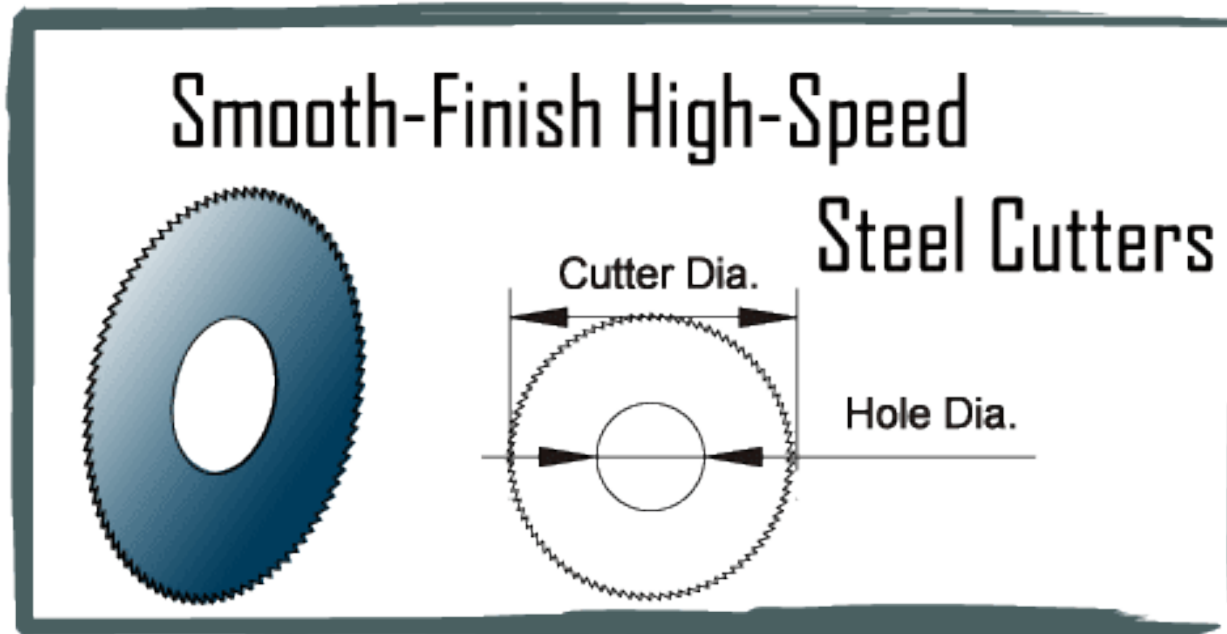
**Product: Aviation Tool » Saw**

**Norm : under NAS standard**

**Application : Apply to professional aerospace industry, good at cutting groove, working on multi-material, and refined finish for particular material.**

**Material : Made of ISO standard carbide**

[http://www.tool-tool.com/aviation-saw-sfhs\\_e.htm](http://www.tool-tool.com/aviation-saw-sfhs_e.htm)



# Specialized in Aerospace – Chamfer Cutters



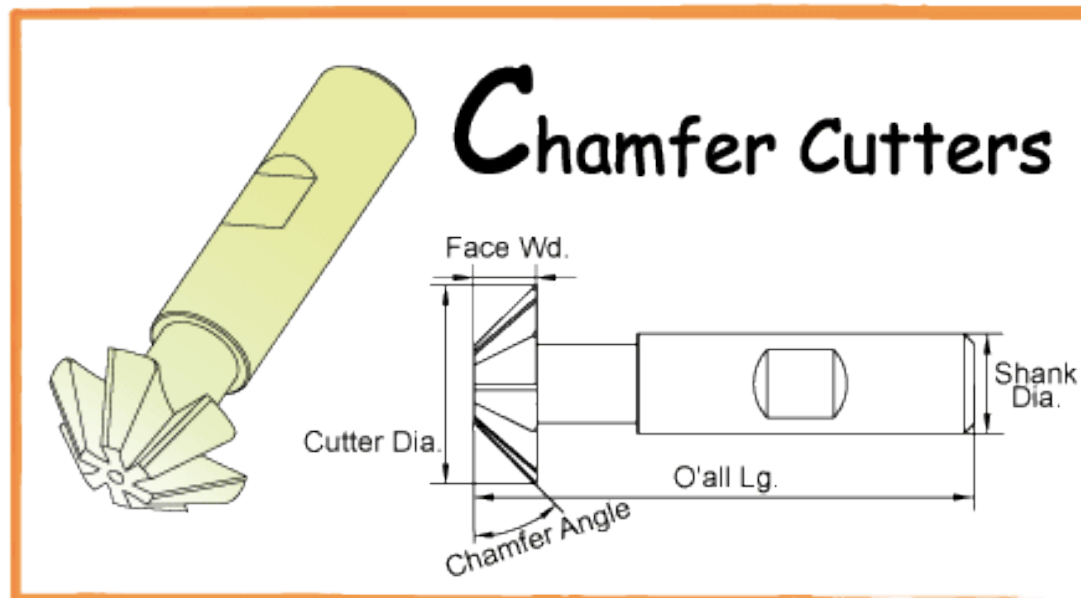
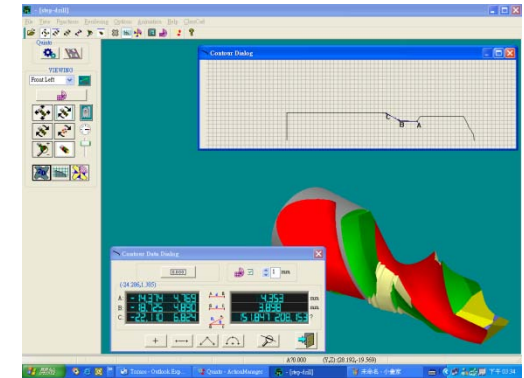
**Product: Aviation Tool » Product: Aviation Tool**

**Characteristics:**

**Special tool for key slot curve**

**Apply to airplane body and landing gear parts**

[http://www.tool-tool.com/aviation-chamfer\\_e.htm](http://www.tool-tool.com/aviation-chamfer_e.htm)



# Aviation-Face Milling Cutter(carbide)



**Product : Aviation Tool » Aviation-Face Milling Cutter**

**Norm : under NAS standard**

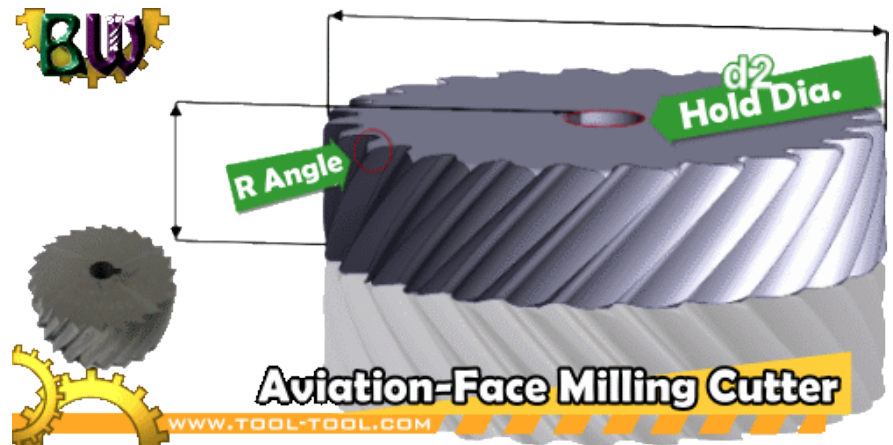
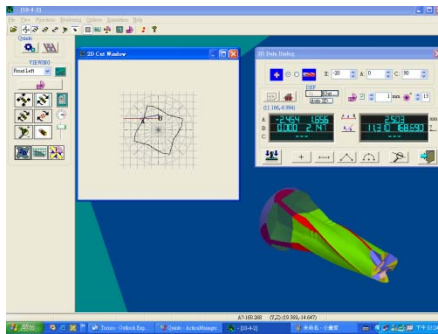
**Application : Apply to professional aerospace industry , good at Titanium,Stainless steel, Monel and similar high-strength fasteners...**

**Material : Made of ISO standard carbide**

**Product Introduction :**

The assembly of aircraft structure is completed by combining specific rivet holes with blind rivets on the surface of skin of aircraft and helicopter. However, rivets are over 2 – 5 mm beyond surface which cause the surface of aircraft not smooth and delicate enough, so it is necessary to use pneumatic tools with aerospace milling cutters to make the skin of planes smooth and neat.

[http://www.tool-tool.com/aviation-acf\\_e.htm](http://www.tool-tool.com/aviation-acf_e.htm)



# Customer Reference



- EVERGREEN AVIATION TECHNOLOGIES CORP.
- China Airlines, Ltd.
- Airbus, Tianjin Machinery and Equipment Complete Sets Bureau
- ROC Air Force Command Headquarter .Ministry of National Defense
- China Aircraft Services Limited
- ...etc

# BEWISE INC.



□ Thank You ~ ~

