

**How to order**



Application Sheet

Customer

Distributor

XEBEC

**STEP1**

Fill out the application sheet.  
Submit to XEBEC distributor in your region by e-mail.

**STEP2**

XEBEC Technology examines if XEBEC Path is applicable.  
The XEBEC Path code and the optimal Cutter size will be returned.

**STEP3**

Order using the XEBEC Path code given at Step 2.

**STEP4**

Delivery

**Guidelines for completing the application sheet**

**1**

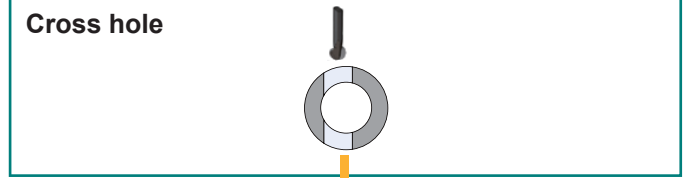
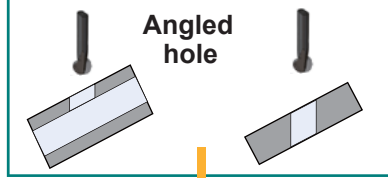
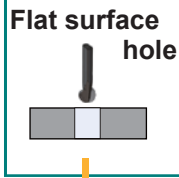
**Read before proceeding**

- Check the boxes on the section 7 Path usage conditions to indicate your consent.
- 3-axis simultaneous control is required.
- If ordering more than 2 Paths, fill out 1 sheet each.
- Before implementing the Cutter and Path, read and follow the instruction manual.

**Path generation restrictions**

- This is applicable only when the center axis of the Cutter insertion hole is parallel to the Z axis.
- Path may not be generated for certain hole combinations.
- This is not applicable if either a cross hole or a main bore is a female screw or a material surface.
- Customized Path may be applicable for the following cases. Contact us for more information.
  - A hole type is not listed on this sheet.
  - Irregular machine specifications such as the Cutter is inserted from X-axis on a machining center.

**2**  
Hole type



**C** Front&Back

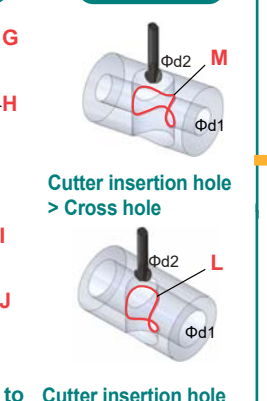
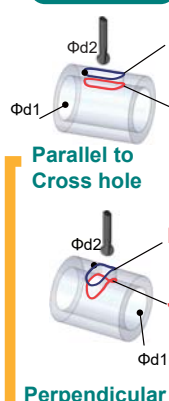
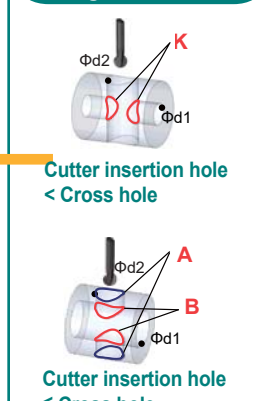
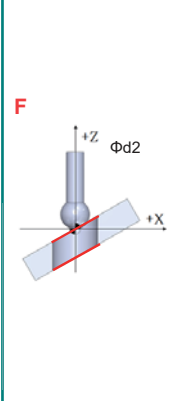
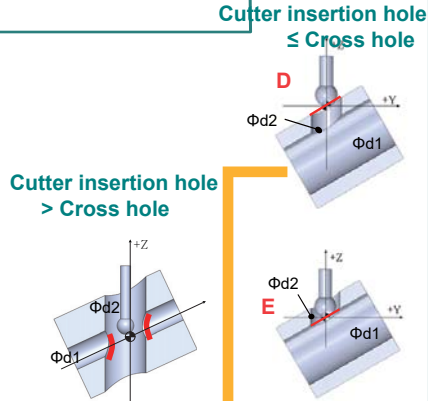
**Cross hole**

**Surface hole**

**Orthogonal cross hole**

**Slotted hole**

**Broken hole**



**I.D.**

**O.D. Upper**

**I.D. Upper**

**Front & Back**

**I.D.**

**O.D. Upper & Lower**

**I.D. Upper & Lower**

**O.D.**

**I.D.**

**O.D.**

**I.D.**

**I.D.**

**I.D.**

**N**

**D**

**E**

**F**

**K**

**A**

**B**

**G**

**H**

**I**

**J**

**L**

**M**

If ordering Paths for both an outer diameter (O.D.) and inner diameter (I.D.), fill out 1 sheet for each Path.

3

Cross hole orientation

Required for: All types except **C**

The standard position  $ar0^\circ$  is the posture that the central axis of the Cross hole is parallel to the Y-axis of the machine.

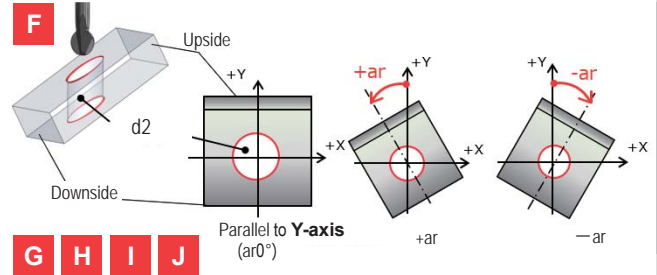
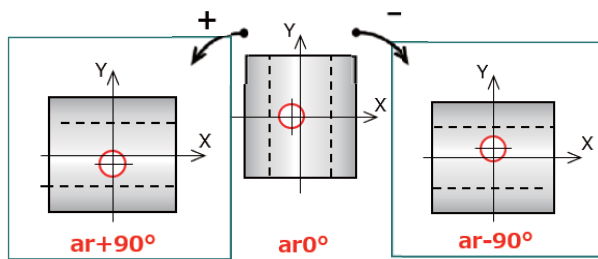
Enter the cross hole orientation. For the hole type F, enter the orientation of the angled surface.

When the cross hole is:

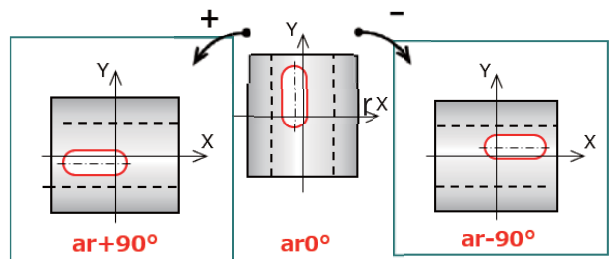
- Parallel to the Y axis: Enter "0"
- Parallel to the X axis: Enter "-90"
- Neither of the above: Enter a designated angle

\* Beware of "+/-" sign.

**A B D E K L M**



**G H I J**



4

Amount of Shift

Applicable hole type: All types except **C F**

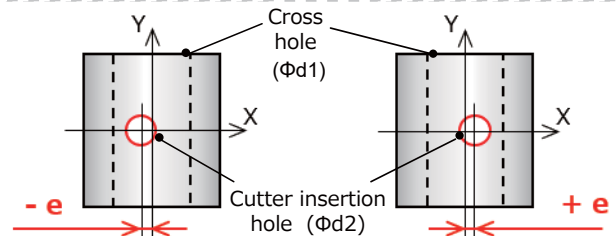
Assume the workpiece position is  $ar0^\circ$ .

Enter how much the Cutter insertion hole is shifted from the central axis of the cross hole.

When the cross hole is:

- On-center, enter "0"
- Off-center, enter "+" or "-" sign and the "amount of shift"

\*Accurately specify +/- sign.



5

Inclination angle

Applicable hole type: **D E F N**

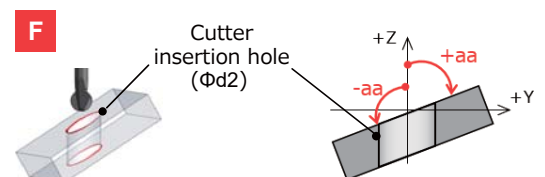
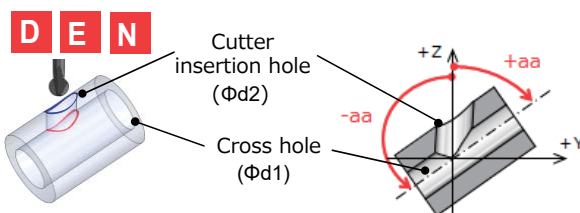
Assume the workpiece position is  $ar0^\circ$ .

Enter the inclination angle of the central axis of the Cross hole from the central axis of the Cutter insertion hole (Z-axis).

When the Cross hole is inclined to:

- +Y side :  $aa = +^\circ$
- Y side :  $aa = -^\circ$

<angles supported for aa>  
 $+60^\circ \leq +aa \leq +120^\circ$   
 $-120^\circ \leq -aa \leq -60^\circ$



\* If the direction of inclination of the cross hole/ surface is not in the same direction as the inclination of the upside please contact us.

## The number of Paths

of

### Submit to:

XEBEC local distributor or  
bccp@xebec-tech.co.jp

### Caution: numeric values

Make sure to enter the accurate values. The XEBEC Path for Back Burr Cutter is generated based on the numeric values you provide. If incorrect values are provided, the incorrect Path will be generated, which may cause damage to the workpiece, the Cutter, and the equipment. XEBEC Technology is not responsible for any damage caused by an incorrect value. There is a possibility that secondary burrs may occur depending on the condition of the cross hole edges and the workpiece material.

## 1 Notes

This sheet is used to examine if XEBEC Path can be generated for the designated edge. Additionally, an optimal Cutter size is determined based on the values on this form.

- Read 1 on the guideline before filling out the application sheet.
- For fields 2 to 5, refer to the sections 2 3 4 5 on the guideline.
- Fill out from 2 to 8 and send this application sheet by e-mail to XEBEC distributor in your region or XEBEC Technology.
- If requesting more than 2 Paths, fill out 1 sheet for each Path.

## 2 Hole type

Select 1 edge type and check a box below. (Only one for each sheet)

Hole type	Type	Edge Type	Check
Orthogonal cross hole	A	O.D. Upper and Lower edges	<input type="checkbox"/>
	B	I.D. Upper and Lower edges	<input type="checkbox"/>
	K	I.D. (Cutter insertion hole > Cross hole)	<input type="checkbox"/>
Flat surface hole	C	Back and Front edges	<input type="checkbox"/>
	G	Parallel to cross hole : O.D.	<input type="checkbox"/>
Slotted hole	H	Parallel to cross hole: I.D.	<input type="checkbox"/>
	I	Perpendicular to cross hole: O.D.	<input type="checkbox"/>
	J	Perpendicular to cross hole: I.D.	<input type="checkbox"/>
Broken hole	L	I.D. (Cutter insertion hole ≤ Cross hole)	<input type="checkbox"/>
	M	I.D. (Cutter insertion hole > Cross hole)	<input type="checkbox"/>
Angled cross hole	D	O.D. Upper edge	<input type="checkbox"/>
	E	I.D. Upper edge	<input type="checkbox"/>
Angled surface hole	F	Front and Back edges	<input type="checkbox"/>

## Dimensions

Enter the dimensions of the areas to be deburred. Make sure to enter the aimed value up to the 3rd decimal place.

Cutter insertion hole dia.  $\phi d2$  or slot width  $d2$

.  mm

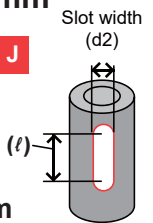
Outer dia.  $\phi D1$  or Cross hole dia.  $\phi d1$

.  mm

Enter for **G H I J**

Length between the R center points  $l$

.  mm



## 3 Cross hole orientation (ar)

## 4 Amount of Shift (e)

mm

## 5 Inclination angle (aa)

## 6 Cutter size (optional)

If you need to specify a Cutter size, check a box below.

\* If the specified Cutter diameter is not appropriate, an optimal Cutter size is selected.

Not specified  
   $\phi 0.8$   
   $\phi 1.3$   
   $\phi 1.8$   
   $\phi 2.8$   
   $\phi 3.8$   
   $\phi 4.8$   
   $\phi 5.8$

## 7 Path usage conditions

Check the two boxes below to indicate your consent.  
The order will not be placed unless you check the both boxes.

I agree that XEBEC TECHNOLOGY grants us permission to use the XEBEC Path for Back Burr Cutter and I agree not to transfer or distribute the data to parties outside the company. I take it upon ourselves to manage the data appropriately, ensuring it is not used for purposes or subjects other than the intended ones, excluding possible temporary use outside for testing and during the startup period.

I agree not to use any tool other than a XEBEC Back Burr Cutter when using a XEBEC Path for Back Burr Cutter.

## 8 User Information

If requesting 2 or more Paths at the same time, fill out this section only on the first form.

**Company name:** \_\_\_\_\_  
**Dept. name:** \_\_\_\_\_  
**Name:** \_\_\_\_\_  
**Tel :** \_\_\_\_\_  
**E-mail :** \_\_\_\_\_  
**Country :** \_\_\_\_\_

**Signature:** \_\_\_\_\_