

How to order



Application Sheet

Customer

Distributor

XEBEC

STEP1

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

STEP2

XEBEC Technology checks if XEBEC Path is applicable.  
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 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

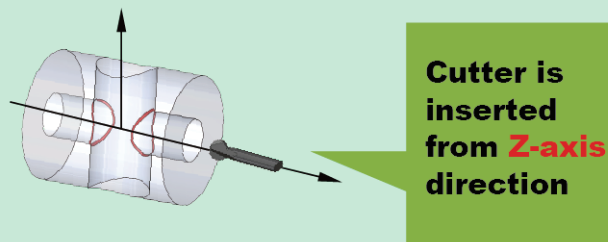
- Path may not be generated for certain hole combinations.
- This is not applicable if either a cross hole or a main bore is a female screw or a material surface.
- Contact us for the following cases.
  - A hole type is not listed on this sheet
  - The Cutter is inserted from Y-axis direction
  - The Cutter is inserted from X-axis when Y-axis is controlled by a diameter mode

3

Axis configuration

Combined Lathe (XZC-axis)

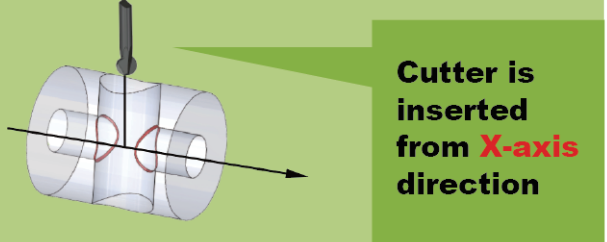
Refer to the section blow for the hole types



Cutter is inserted from Z-axis direction

Combined Lathe (XZY-axis)

Refer to the next page for the hole types



Cutter is inserted from X-axis direction

4

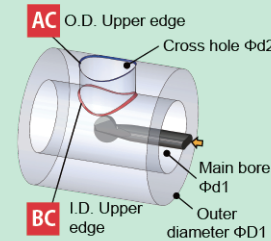
XZC Hole type

Deburring location is marked up in red or blue.

Orthogonal Cross hole

Main bore ≥ Cross hole

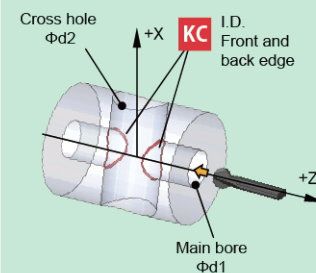
- AC O.D. edge
- BC I.D. edge



Rotate C-axis to change a phase.

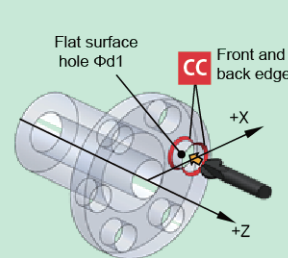
Main bore < Cross hole

- KC I.D. Front and back edges



Flat surface hole

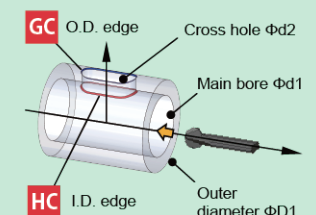
- CC Front and back edges



Slotted hole

Parallel to Main bore

- GC O.D. edge
- HC I.D. edge



Outer diameter (O.D.)  
Inner diameter (I.D.)

If ordering more than 2 Paths, fill out 1 sheet each.

4

XZY

Hole type

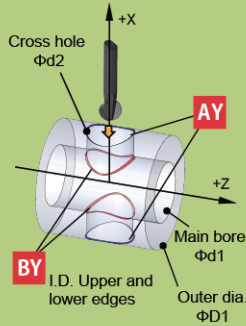
Deburring location is marked up in red or blue.

Outer diameter (O.D.)  
Inner diameter (I.D.)

**Orthogonal Cross hole**

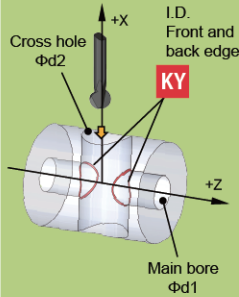
Main bore  $\geq$  Cross hole

- AY** O.D. edges
- BY** I.D. edge



Main bore < Cross hole

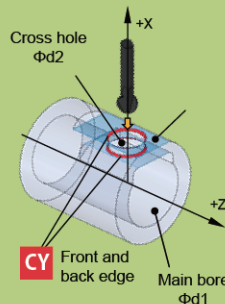
- KY** I.D. Front and back edges



When the hole is broken, select **MY**

**Flat surface hole**

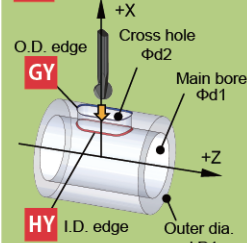
- CY** Front and back edges



**Slotted hole**

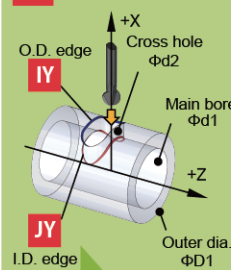
Parallel to Main bore

- GY** O.D. edge
- HY** I.D. edge



Perpendicular to Main bore

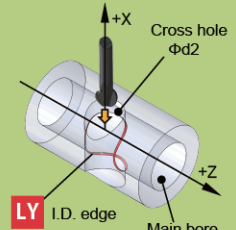
- IY** O.D. edge
- JY** I.D. edge



**Broken hole**

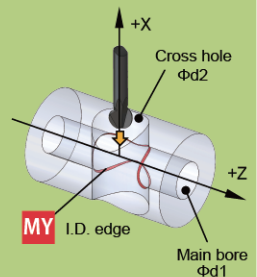
Main bore  $\geq$  Cross hole

- LY** I.D. edge



Main bore < Cross hole

- MY** I.D. edge



If ordering more than 2 Paths, fill out 1 sheet each.

5

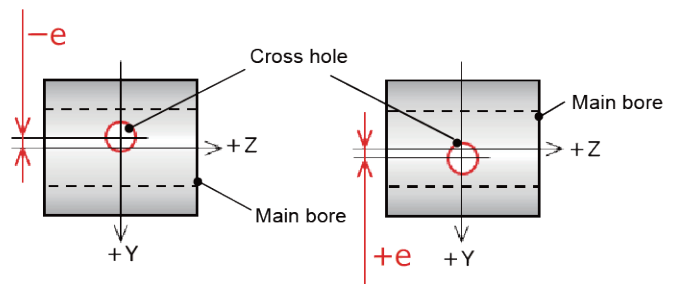
Amount of shift

Required for **AY BY GY HY IY JY KY LY MY**,

Enter how much the Cross hole is shifted from the central axis of the Main bore and its direction.

When the Cross hole is:

- On-center,  $e = "0"$
- Off-center,  $e = "+"$  or  $"-"$  sign and the "amount of shift"  
\*Beware of  $" +/- "$  sign.



**The number of Paths**

of

**Submit to:**

XEBEC local distributor or  
bbcp@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 edge and the workpiece material.

**1 Notes**

This sheet is used to examine if XEBEC Path is applicable for a 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 3 to 5, refer to the sections **3 4 5** on the guideline.
- Fill out from **2** to **8** and send this application sheet by e-mail to XEBEC distributor or XEBEC Technology.
- If requesting more than 2 Paths, fill out 1 sheet for each Path

**2 Controlling mode**

**Diameter mode**  
Contact us if Y-axis is controlled by a diameter mode (e.g. automatic lathe)

**Radius mode**

**3 Type of combined lathe**

**XZC-axis**  
• Polar coordinate interpolation is required  
• Path is generated in UHW.

**XZY-axis**  
• Path is generated in UVW

For MC, fill out the sheet for MC

**5 Amount of shift (e)**

.    mm

**4 Hole type**

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

	Lathe type		Edge type	Check
	XZC	XZY		
Cross hole	<input type="checkbox"/>	<input type="checkbox"/>	O.D. edge	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	I.D. edge	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	I.D. Front and back edge	<input type="checkbox"/>
Flat Surface hole	<input type="checkbox"/>	<input type="checkbox"/>	Back and front edge	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	Parallel to Main bore O.D. edge	<input type="checkbox"/>
Slotted hole	<input type="checkbox"/>	<input type="checkbox"/>	Parallel to Main bore I.D. edge	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	Perpendicular to Main bore O.D. edge	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	Perpendicular to Main bore I.D. edge	<input type="checkbox"/>
Broken hole	<input type="checkbox"/>	<input type="checkbox"/>	I.D. edge (Main bore ≥ Cross hole)	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	I.D. edge (Main bore < Cross hole)	<input type="checkbox"/>

**Dimensions**

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

Cross hole diameter  $\phi d2$  or slot width  $d2$   
 .   mm

Outer dia.  $\phi D1$  or Main bore dia.  $\phi d1$   
 .   mm

Enter for **GC GY HC HY IY JY**

Length between the R center points  $l$   
 .   mm

**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      $\phi 0.8$       $\phi 1.3$       $\phi 1.8$       $\phi 2.3$       $\phi 2.8$       $\phi 3.3$       $\phi 3.8$       $\phi 4.8$       $\phi 5.8$       $\phi 7.8$       $\phi 9.8$

**7 Path usage conditions**

Check the both boxes below to consent the conditions.  
The order will not be placed unless you check both of them.

I agree that XEBEC TECHNOLOGY grants us permission to use XEBEC Path for Back Burr Cutter and 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 XEBEC Back Burr Cutter when using XEBEC Path.

**8 User information**

If requesting more than 2 Paths at one time, fill out this section on the first sheet.

**Company name :** \_\_\_\_\_

**Dept. name:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Tel.:** \_\_\_\_\_

**E-mail:** \_\_\_\_\_

**Country:** \_\_\_\_\_

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