

# TOOL INFORMATION NO.5



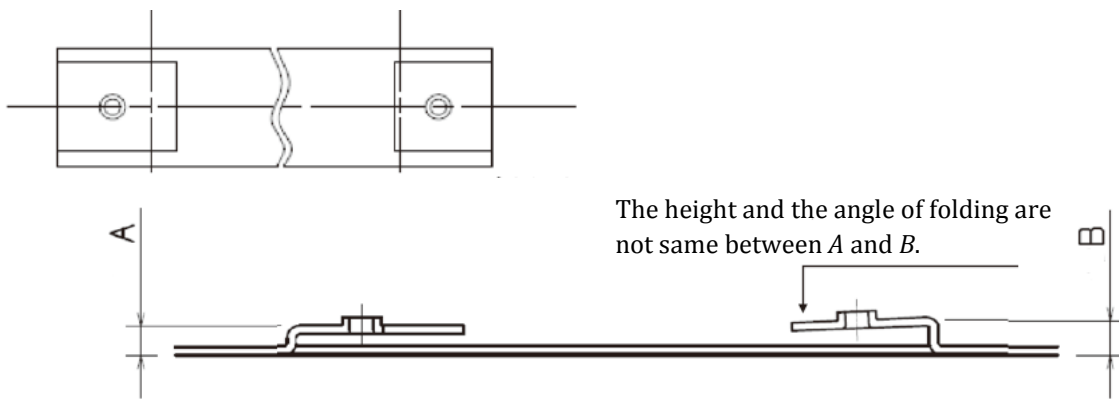
MURATA TOOL, LTD.

MARCH 2018

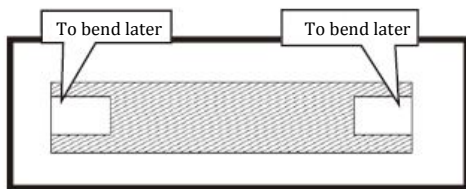
## Forming Application

### Forming in Auto Index

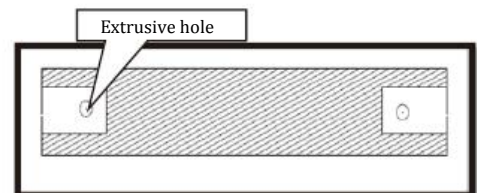
Try our AUTO-INDEX forming tool. Making a good use of the rotatable function, we design a tool which could provide a multiple result. The below shows two bends obtained by a single set of INDEX LANCE. You see a slight difference between the right and the left.



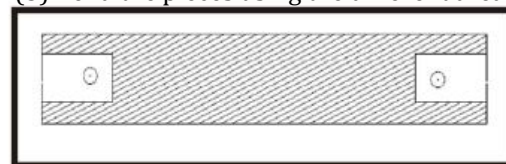
(1) Cut off the hatched area.



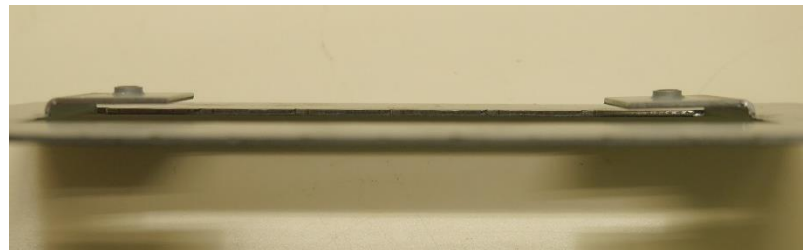
(2) Create the extrusive holes.



(3) Bend the pieces using the different area in the INDEX LANCE tool.

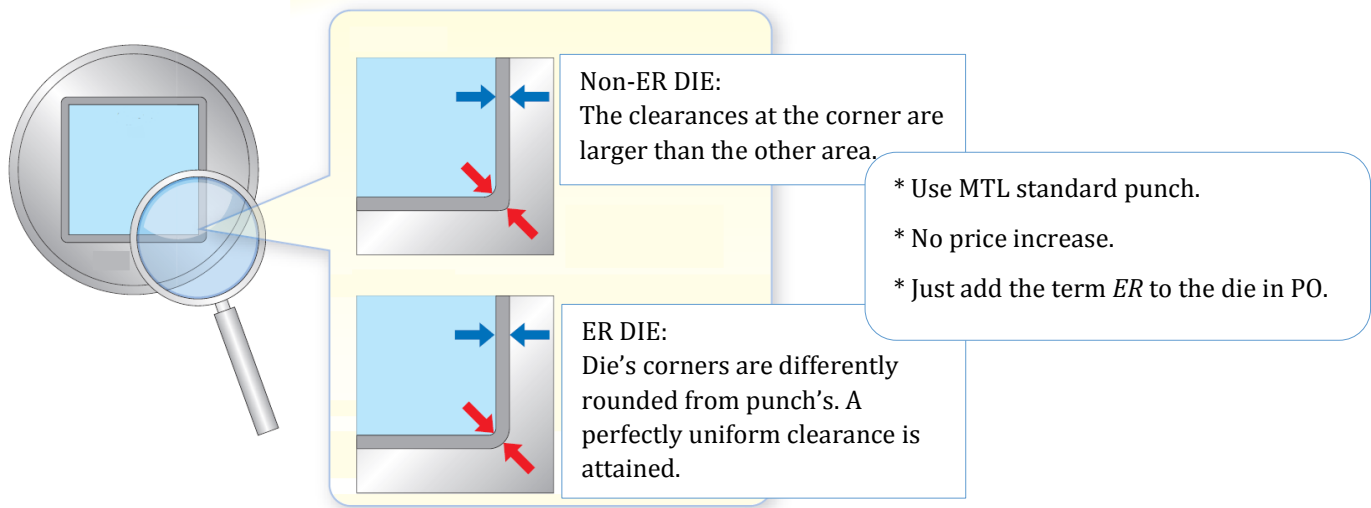


The specially-designed tool has the space for the extrusions.

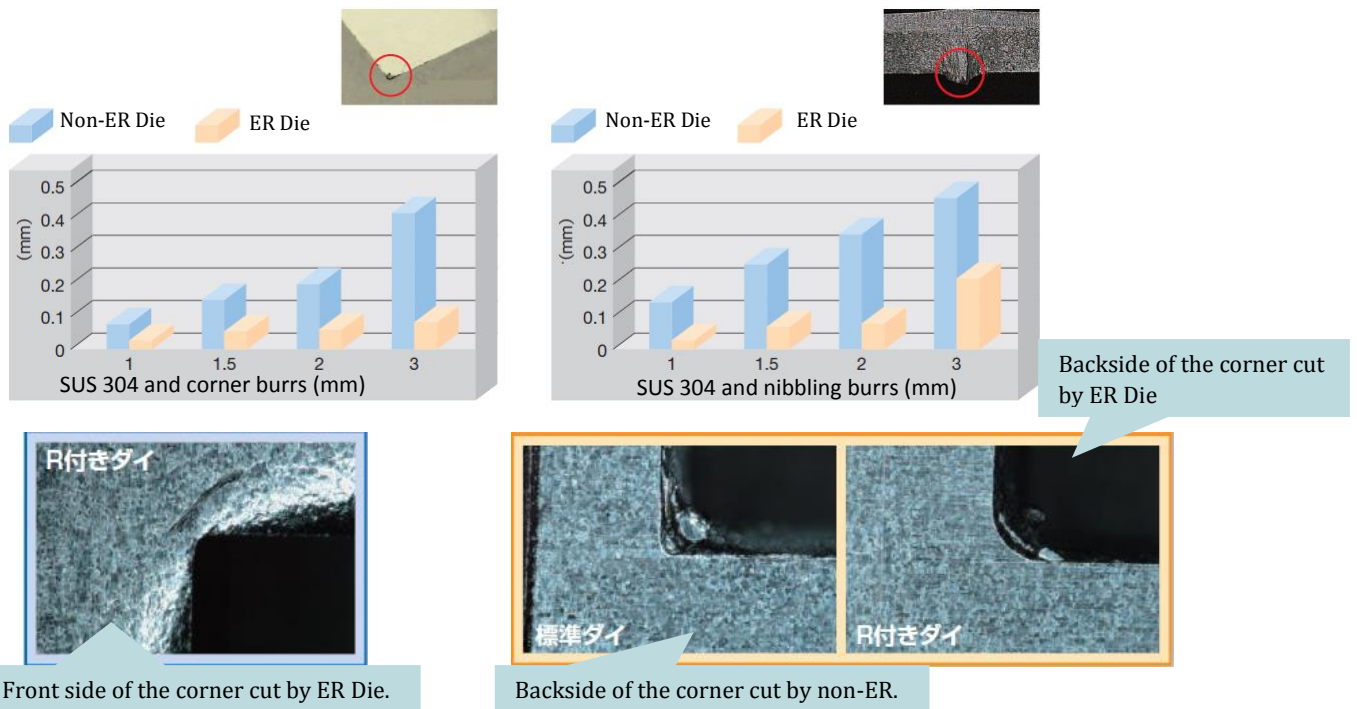


## ER DIE – for a better nibbling result

ER Die provides a uniform clearance to punch. Corners' burrs and the undesired backside extrusions during nibbling operation could reduce.



How better could ER Die than non-ER Die be? See how small a byproduct of burrs are.



### NOTE

1. The backside of the corners cut with ER DIE is rounded. The larger the clearance is, the larger the corner R is.
2. MTL's ER Die functions well only with MURATA punch.