RAMONA HÖNL

A good turn: 3 benefits of the monotool punching head principle & rotating tools

The monotool punching head principle means that different tools can be exchanged into the punching head and all of them can be rotated by 360°. This means that there are virtually no limits on processing freedom. You can read about what additional benefits the concept offers here:

#1 Fewer punching tools – lower costs

Imagine, for example, being able to create an oblong hole with every conceivable orientation in the sheet metal – with just one tool! This is really easy if you can rotate the punch by 360°. Of course, this works with all contours that you have a tool for – regardless of whether it is a standard or special tool. The ability of all your tools to rotate multiplies your processing options and reduces your tool requirements – and therefore your costs.

Principle of tool rotation (Source: TRUMPF)

#2 Higher process reliability

The punches are always connected to the punching head in a form-locking manner. The advantage of this is that it is not just possible to perfectly guide the tools down onto the sheet metal, but also guide them off of the sheet metal in a controlled manner after the punching process.

#3 Reduced setup outlay – easier handling

If tools can be used for multiple applications due to their rotational ability, this, of course, has consequences for the setup outlay and tool management. Fewer tool changes, fewer setup operations, and less regrinding outlay mean higher productivity and lower costs.

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