

ps:[®]2in1-hinge

INCREASE IN EFFICIENCY WITH 2 IN 1

Hinge connections are an important and interesting concept.

In the production area hinges are mostly produced of metal and allow the ability to connect two parts together in a flexible way. It doesn't matter if a door has to be fixed in a door frame or if two wooden parts have to be connected: one hinge can make everything possible!

Typically hinges are produced on a punching machine with 2 tools:

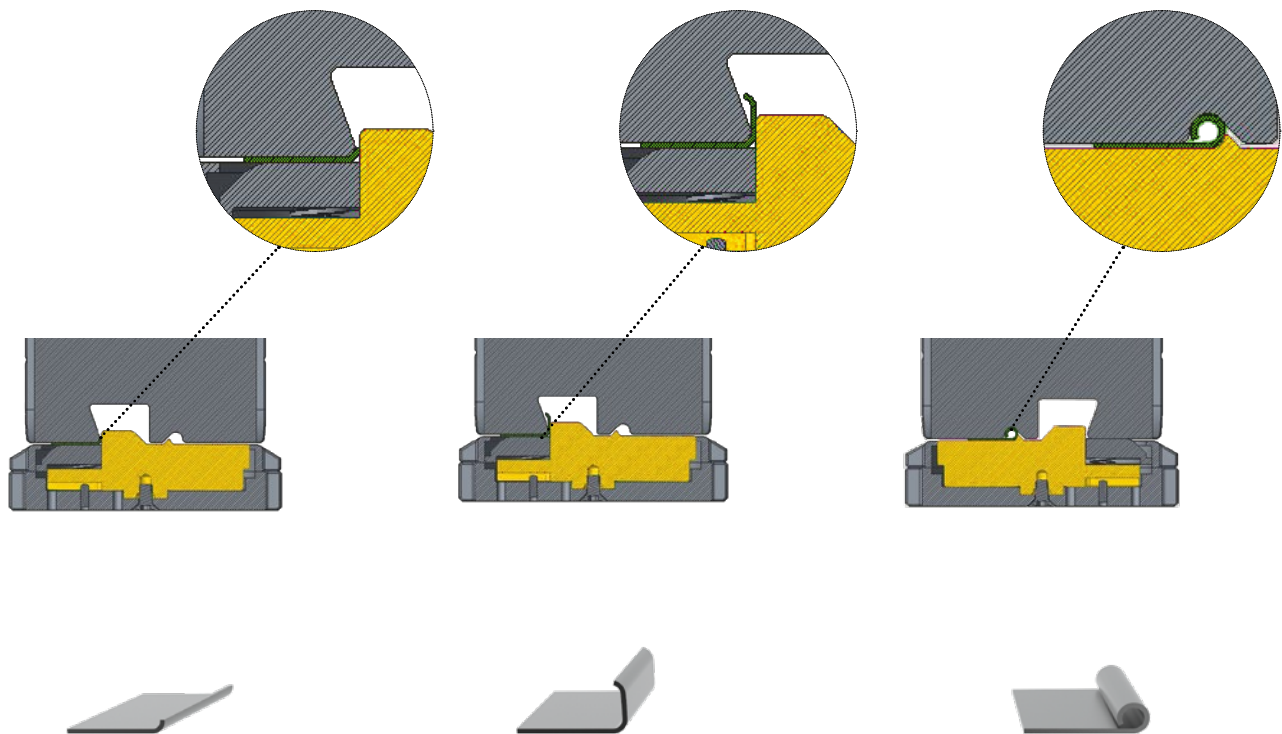
The first tool produces the embossing (min. 2 hits). Afterwards the „rounding“ of the hinge is carried out with the second tool.

PASS Stanztechnik AG has a tool in its product portfolio that simplifies this manufacturing process: the

ps:[®]2in1-hinge

Both metal forming sequences can be carried out with only ONE single tool producing a hinge.

The tool consists of a spring-loaded part and a solid part. The embossing will be made with the first hit by the spring-loaded part of the tool. The second hit is taking the height of the sheet into consideration. Afterwards the tool makes a rotation of 180° in order to use the solid part of the tool to produce a hinge.



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TRUMPF
THICK TURRET
SALVAGNINI

The following overview gives you an example for the usability of **ps:[®]2in1-hinge**:

STEEL	s=0,5	s=0,8	s=1,0	s=1,2	s=1,5	s=2,0
Ø 3	x	x	x	x	on request	on request
Ø 4	x	x	x	x	x	on request
Ø 4,5	x	x	x	x	x	on request
Ø 5	on request	x	x	x	x	x
Ø 5,5	on request	x	x	x	x	x
Ø 6	on request	x	x	x	x	x

ALUMINIUM	s=0,5	s=0,8	s=1,0	s=1,2	s=1,5	s=2,0
Ø 3	x	x	x	x	on request	on request
Ø 4	on request	x	x	x	x	on request
Ø 4,5	on request	x	x	x	x	on request
Ø 5	on request	x	x	x	x	x
Ø 5,5	on request	x	x	x	x	x
Ø 6	on request	on request	x	x	x	x

STAINLESS STEEL	s=0,5	s=0,8	s=1,0	s=1,2	s=1,5	s=2,0
Ø 3	x	x	on request	on request	on request	on request
Ø 4	x	x	x	on request	on request	on request
Ø 4,5	x	x	x	x	on request	on request
Ø 5	x	x	x	x	x	on request
Ø 5,5	x	x	x	x	x	on request
Ø 6	x	on request	x	x	x	on request

ADVANTAGES:

- Embossing and final hinge production in ONE tool
- Opens a tool station
- Eliminating a second tool change
- Increase in production
- Reduced sheet scratches

Technical Information 08/2023 | Version 2.2