

Press News



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Press Release

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Dear journalist,

you will find information about our company, our staff, our production and our product lines in the attached image brochure.

If you need any more information please do not hesitate to contact us.

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Special Tools for machine type TRUMPF

ps:®vertical-wheel-90 / ps:®vertical-wheel-180

Flexible in forms, variable in sizes und save in a lot of different applications. This is how to describe the ps:®vertical-wheel-90 or ps:®vertical-wheel-180. Both tools can be used in these applications where fast and effective bends have to be produced, e.g. in the field of ventilation technology. 90° bends can be produced with only ONE tool - the ps:®vertical-wheel-90. Afterwards the ps:®vertical-wheel-180 can be used to produce edge protection on the sheets by 180°bends. The arrangement of the vertical assembled wheels shows the advantage that a variety of inner contours can be bended flexibly.

ps:®wheel-pincher (with support wheels) / ps:®shear

Defined sheet edges or break-offs in sheets are often a requirement of customers. Frequently the users have to face the challenge that defined sheet stripes have to be made without any nibbling marks. The ps:®wheel-pincher enables this application effectively and with a time-saving process. Also the ps:®shear awards with nibbling-free working. It shows the quality of a scissor which cut the sheet properly in the edges.

ps:®wheel-crowning

Reinforcements are often necessary. Stability and security are in demand. Therefore programmers use the ps:®wheel-crowning among others to put reinforcements in big areas, e.g. control cabinets, switchboards. Security can also be achieved in roof panels to get sure that the roof will be equipped with stability in time of heavy snowfall. Furthermore the run-off of precipitation can be eased.

ps:®emboss5 / ps:®louver5

Big sizes are important! The problem with big embosses is known by everybody. The possibility to use dies in size 5 enables the way to produce big embosses and louvers with only ONE hit which is not possible to produce with a smaller die.

ps:®wheel-louver

Contrary to the big sizes of louvers which are produced in size 5 the ps:®wheel-louver gives the possibility to produce endless louvers in efficient high-speed time. The pre-punch clears the way to produce optic impeccable endless louvers without any nibbling marks. This tool is also equipped with the unique patented differential technology of the wheels.

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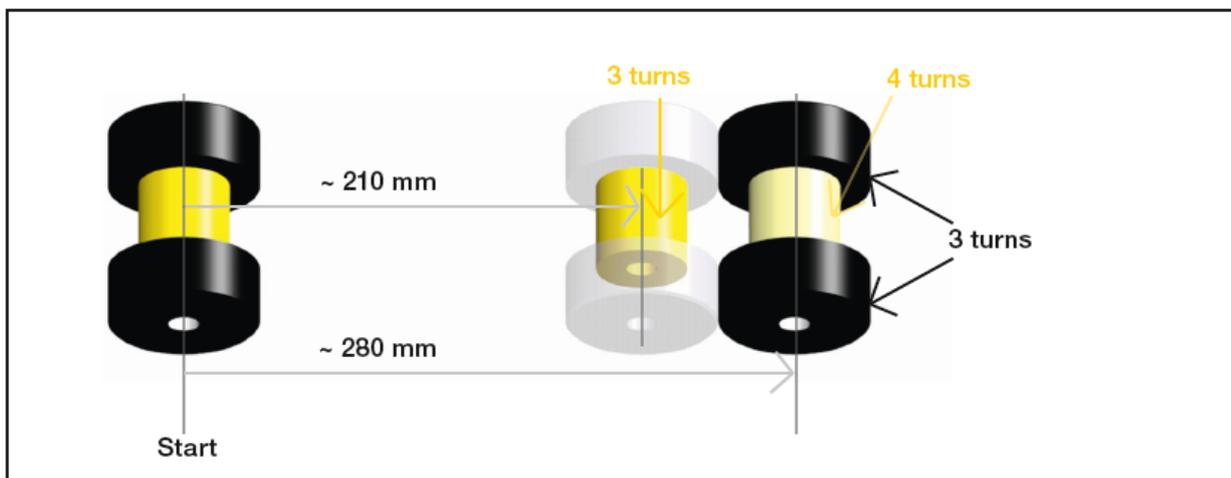
Differential Technology ps:[®]wheel

Wheel tools from PASS are specific:

The operation of our patented segmented wheels offers enormous advantages.

Due to each wheel operating individually each wheel maintains the best rotation speed and contact with the sheet without interfering with the other wheel. The result of this design is much less friction which in turn greatly reduces sheet warpage. Segmented wheels are standard at PASS!

This unique design regarding our “differential” technology increases the longevity of the tool. Of course, all of our ps:[®]wheel tools are supplied with our special integrated lubrication system and special coated wheels. This allows the smooth running and operation characteristic of all ps:[®]wheel tools.



But it doesn't stop at that: fine tuning is also possible by using additional setting wheels – normally in the upper part of the tool. Warpage will also be decreased with this method.

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ps:[®]2in1-hinge for machine type TRUMPF & THICK TURRET for producing hinges

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.

The innovation at PASS Stanztechnik AG now improves the efficiency for producing hinges: the

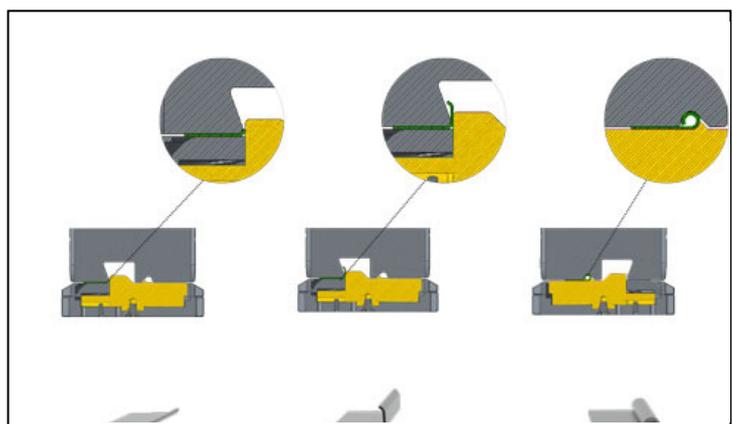
ps:[®]2in1-hinge

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

The **ps:[®]2in1-hinge** consists of two tools: 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.

ADVANTAGES:

- Embossing and final hinge production in ONE tool
- Opens a tool station
- Eliminating a second tool change
- Increase in production
- Reduced sheet scratches
-
- <https://youtu.be/xsAmZkv9pAI>



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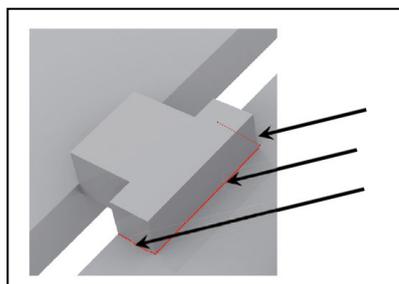
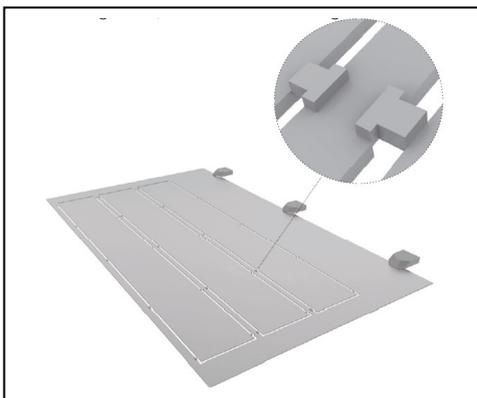
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ps:®macro-joint for machine type TRUMPF & THICK TURRET for effective production with manual part extraction

All machine operators and programmers know the problem: Producing long parts (e.g. 1700 mm) with a small width (e.g. 250 mm). In this case 3 parts can be produced nested on a sheet plate with fence production.

The tool **ps:®macro-joint** is used for connecting parts with a rest fence. The technology is similar to the patented **ps:®knock-out** by PASS whereas the quantity of the macro-joints are determined by the programmer. The machine operator can remove the single parts directly on the machine table after the completed sheet plate was produced.

The connecting bridge of the **ps:®macro-joint** is encircled on the 3 sides of the rest fence. This ensures that the connecting bridge remains on the rest fence of the sheet when the parts are broken out.



The machine operator does not have to worry about that the connection bridges create burrs that can fall into the brush table and cause scratches on the proceeding processes.

After taking the completed sheet plate from the table the single parts can be removed individually.

An additional example for using **ps:®macro-joint**:

Complicated and difficult production procedures are often necessary when small parts with bends have to be produced.

The request for punching parts with bends will always be required. But sometimes it is not possible to produce these small parts as they can't be removed through the „part shoot“ on the machine.

But now it's easy:

ps:®macro-joint is a practical alternative in order to bend several parts together in the requested angle.

The single parts must be produced in its form in one row on the sheet.



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The new „ps:®MTi4B+4“ for punching machine Prima Power Genius Family

As OEM supplier of Prima Power, PASS Stanztechnik AG was able to design and produce a new multitool in order to considerably increase the efficiency and capacity of the turret table of the Prima Power punching machine (Genius Family).

The innovation of the Prima Power punching machine can be found in the rotatable ram head on the punching machine.

The innovation of the tool developed by PASS Stanztechnik AG combines 4 punching tools Station B and 4 Countersink, Marking and Engraving Tools to a flexible useable multitool.

The result was „ps:®MTi4B+4“

The ps:®MTi4B+4 enables the usage of 4 punching tools (Station B) as well as 4 Embossing tools on one single tool station in the turret. The punching tools pave the way for a maximum diameter up to Ø 31,75 mm and are rotation applicable.

The tools for engraving, embossing and countersinking are integrated in the ps:®MTi4B+4 and do not need to have additional turret places. Thus enables more of the most needed additional Index stations for additional application on the turret. The maximum diameter can be outbided up to Ø 15 mm.

Description of operation:

The tool selection functions in combination with the rotatable ram head and the Index Station. The Index Station enables the rotation of the tools. This combination enables a reduction of the production time of the sheet as the fastest tool selection can be guaranteed.

The punching and embossing process proceeds normal as soon as the tool was selected. Embossing tools are arranged between the punching tools. The embossing ram of the engraving insert (Pos. 5) is placed 2,5 mm higher of the tool head in order to enable the activation of the tool from the top. The hold-up function in ps:®MTi4B+4 guarantees that deactivated punches remain within the tool and do not scratch the sheet.

Example of production:

In the lamp industry the production of lamp housing needs the production process „Corner notching“. In order to manage this production step with the required big notching, the production needs to have predominantly big tools which do not fit into a D-Station. Furthermore mirrored contours are needed. Consequently several turret stations would have to be reserved only for corner notching tools. BUT: 4 integrated punching tools within the ps:®MTi4B+4 enables this notching with only one single rotation station.

The result is amazing:

The complete processing and production of the lamp housing can be carried out with only one single tool station as all tools for embossing, countersinking, engraving and punching are integrated in this one single tool **ps:®MTi4B+4**. The complete sheet can be made without any single turret movement and generates an efficient reduction of production time. Additionally some more free station on the turret can be used for additional punching and embossing procedures.

Tool change:

The length adjustment of the punches can easily be made by single turning of the punch head. The tool change can be made without any additional tools. The punching tools are loaded from above and fixed by a locking system within the upper part (Security of punch inserts by locking system). Deactivated punches are hold in the remaining position by spring-loaded bolts. The Countersink, Marking and Engraving tools are loaded from the bottom and are also fixed with the locking system.

General information:

The insert of ps:®beta-V2® are compatible to the inserts of **ps:®MTi4B+4** and can also be used for this application.

Result:

Effectiv reduction of production time with
8 tools, 1 Station, 0 Turret movement

Overview of advantages:

- effective reduction of production time due to combination of rotating ram head and Index Station
- application of
4 punching tools (Station B) +
4 tools: Countersink Tool, Marking Tools, Engraving Tool
- fast tool change
- all tools rotatable
- easy length adjustment
- increasing of tool quantity within turret
- security of punch inserts by locking system
- hold-up function for deactivated punches
- highest stripping force for sheet thickness up to 6 mm



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ps:®marking-all-in-one

The marking of sheet metal parts has always been an important point for ensuring reliable and perfect identification within the production process.

With the compact tool ps:®marking-all-in-one, the machine operator can now use a selection of different marking options.

ONE compact basic tool with a bayonet lock ensures a quick and effective change of inserts for marking, engraving, signing, punching or tearing of foils.

Various springs allow the spring force to be adjusted for engraving and foil tearing by means of an engraving needle with diamond tip.

The ps:®marking-all-in-one can be flexible assembled for different sheet materials and sheet thicknesses.



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PASS Stanztechnik AG

PASS Stanztechnik AG, a family-owned company, is one of the largest punching tool manufacturers and a world leading company in special solutions of punching tools for the TRUMPF, SALVAGNINI and THICK TURRET systems.

In order to offer the customers high quality and innovative punching tools and punching tool grinding machines, as well as ground-breaking solutions, with over 140 employees who work at the production site in Creussen in Upper Franconia, make it their priority to go beyond the acknowledged industrial standards.

Combining high technology and customer satisfaction is decisive for us. With our continuous research for better tool solutions, PASS focuses on the wishes of its customers.

Over 5000 satisfied customers worldwide and numerous patents in over 60 countries clearly reflect the successful innovation strategy of PASS Stanztechnik AG. Our first class personnel, continuous innovation and social as well as environmental commitment constitute the basis for the long-lasting success of our family-owned company.