

ps:[®]wheel-straighten

STRAIGHTEN TOOL FOR WHEEL BEADINGS ON TRUMPF MACHINE

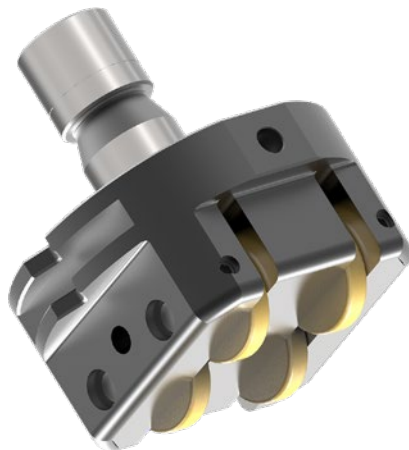
The PASS wheel tools [ps:[®]wheel](#) are available for a different range of applications, e.g. offset, deburring, reinforcing or beading tools, especially for large sheets.

The special feature of wheel beading tools consists of the patented and **segmented wheels** whereby the tool can simply produce reinforced beads with a small radius. The wheels thereby work as a differential: The internal component rotates slower, the external turns faster than the center. Thus, the resulting thrust as well as chatter marks cease to appear. Furthermore, the segmented wheels contribute to a minimized sheet warpage through its operation.

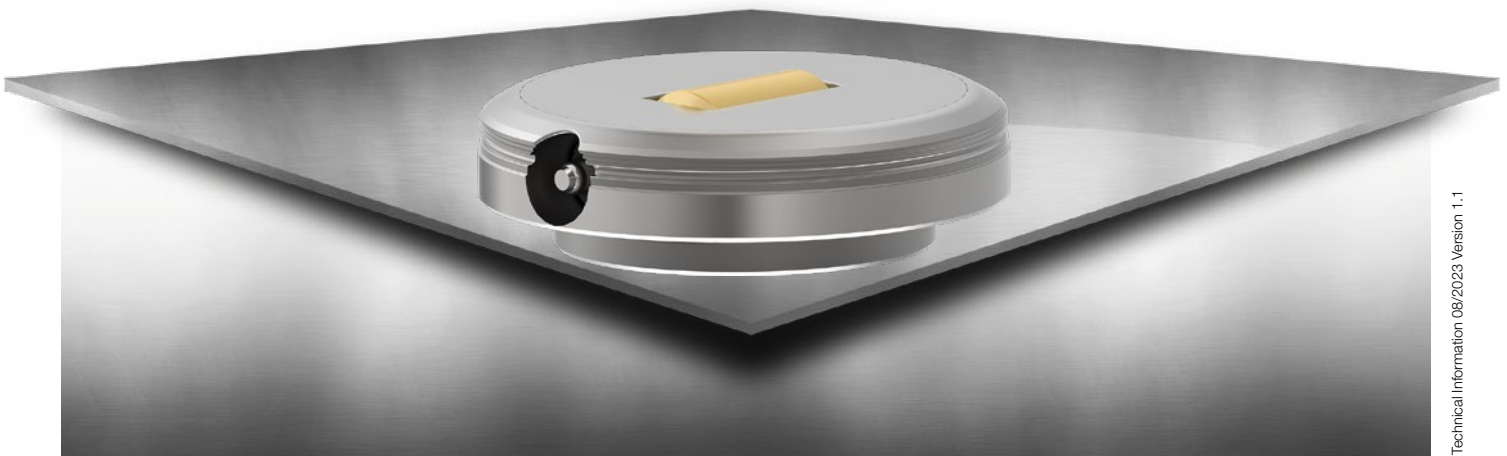
But occasionally it may be that a bigger sheet warpage occurs when producing a large number of beads in a row or beads of an enormous size.

In order to counteract this, PASS Stanztechnik AG has developed a solution:

ps:[®]wheel-straighten



Example image System TRUMPF



TRUMPF

THICK TURRET

SALVAGNINI

Technical Information 08/2023, Version 1.1

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TRUMPF

THICK TURRET

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The straighten tool **ps:[®]wheel-straighten** for improving the mentioned sheet warpage is applied in combination with a wheel tool:

In the first step, the sheet is processed with a beading tool, in the second step **ps:[®]wheel-straighten** comes into action through which the occurred sheet warpage is counteracted through the integrated Ampco wheels. In practice this means that the sequence of beading and straighten alternates to reach the improved result on the sheet.

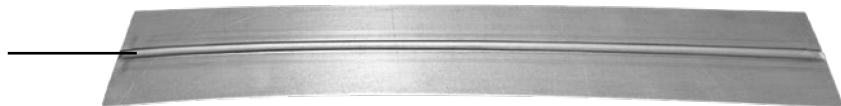
Sheet metal working with a wheel beading tool
Typical: sheet warpage upwards



Sheet metal working with a wheel beading and a straighten tool
Improved flatness
UT-OFFSET = 0



Sheet metal working with a wheel beading and a straighten tool
Sheet warpage downwards
UT-OFFSET = -0,2



ps:[®]wheel-straighten will be adapted to customer needs as well as products and is available for the tooling systems TRUMPF and THICK TURRET.

If you have any questions about the straighten tool **ps:[®]wheel-straighten**, please contact your contact person at PASS.