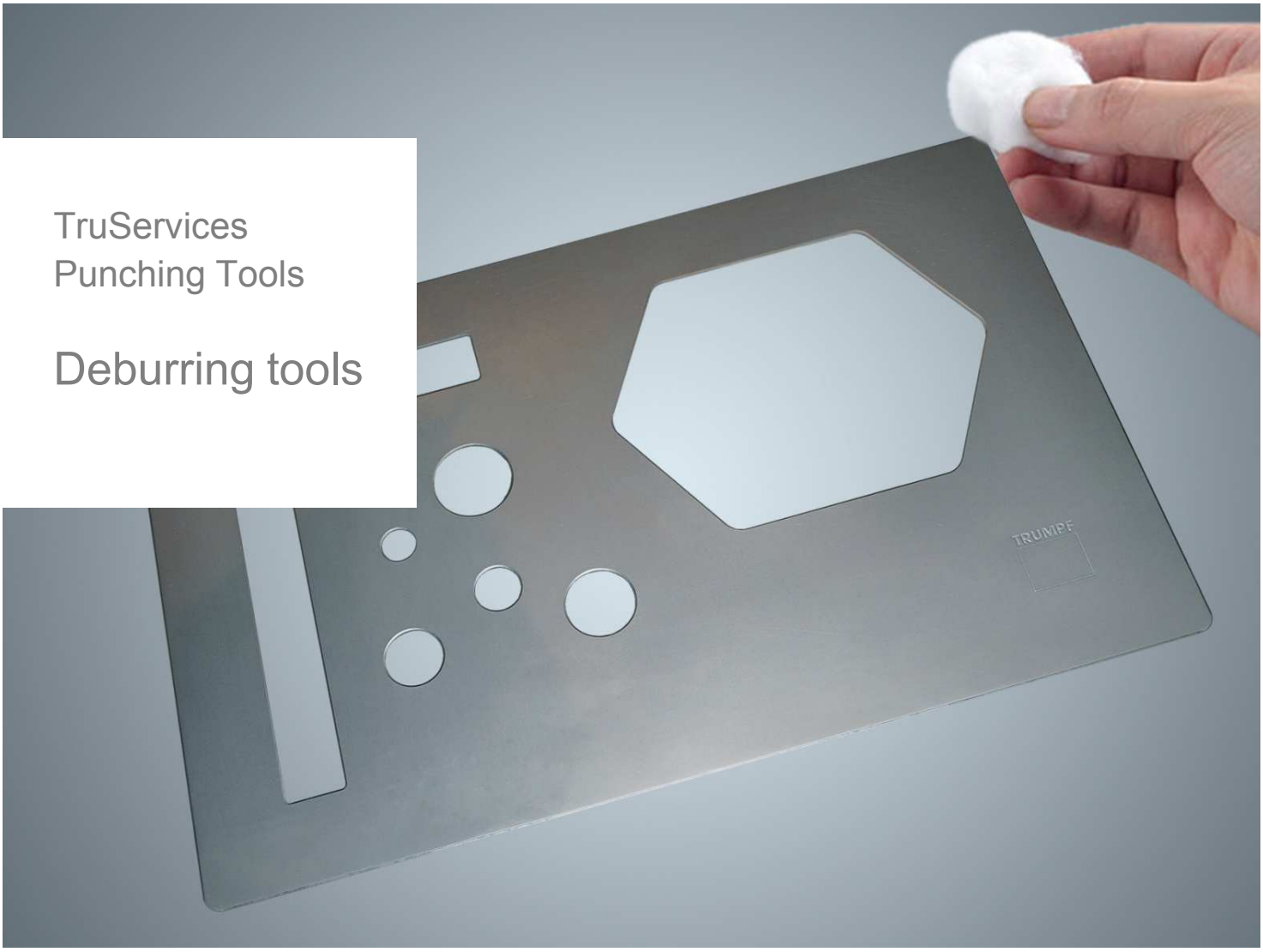

TruServices
Punching Tools

Deburring tools

Flexible deburring

Whether it's the contours of large shapes or of the smallest of holes: You can deburr workpieces of the most diverse geometries directly on your TruPunch and TruMatic machine and significantly improve your edge quality.

Your benefits at a glance:

- Shorter production times through complete processing on one machine.
- Lower risk of injury because the workpieces are almost completely burr-free.
- Excellent edge quality when used in combination with the MultiShear slitting tool.
- Deburring of all geometries, whether simple, complex, small or large.
- Deburring of coated sheets and for parts with formed areas.

Deburring quickly and reliably with every application.

By deburring sheet metal parts directly on your TruPunch and TruMatic machine you can save yourself the work of a later punching burr removal and in doing so **minimize** your **lead time** substantially. Thanks to the resulting **better edge quality**, you also reduce the risk of injury in later production steps. Depending on your application we offer a variety of solutions: The **patented roller deburring tool** and the **deburring MultiTool** as **standard solution** and **now new**: the **ball deburring tool.**

The **roller deburring tool** is especially suited for visible edges, because the punched edges are perfectly rounded and **burr-free parts** can be made with it. As the roller contour can be adjusted to the shaping of the burr and the width of the separation, **high-quality results** can be ensured in all sheet thicknesses. You can get an even better edge quality if you use the MultiShear slitting tool in addition. The **roller deburring tool** is used for the **simple contours of larger shapes.** For shapes with **contour radii of less than 20 mm**, the **deburring MultiTool** is to be used.

The **ball deburring tool**, on the other hand, presses the punching burr into the base metal. In doing so, a **chamfer** is produced on the **upper side of the part**. This is especially suitable for **smaller contours, holes and workpiece corners**. This also serves as preparation for later working steps. Thanks to the tapered punch head, **deburring near formed areas** is also possible.

Optimal standard solution: roller deburring tool/deburring MultiTool

Now new: ball deburring tool

Technical data	
Material	Steel, stainless steel, aluminum
Sheet thickness	Roller deburring: 0.8 - 4 mm Deburring MultiTool: 0.8 - 2.5 mm
Deburring round holes	Roller deburring: radius ≥ 20 mm Deburring MultiTool: radius ≥ 2.5 mm
Deburring corners	Roller deburring: corner radius ≥ 0.5 mm Deburring MultiTool: corner radius ≥ 0.2 mm*
Deburring common separating cuts	Deburring on both sides is possible
Machine options	Roller deburring: roller and deburring technology Deburring MultiTool: MultiTool
Programming	Automatically in TruTops V1.0 (Punch 5.10.6)

*depending on the contour

Technical data	
Material	Steel, stainless steel, aluminum
Sheet thickness	1 - 6 mm
Deburring round holes	Radius ≥ 1.5 mm
Deburring corners	Corner radius ≥ 0.5 mm
Deburring common separating cuts	Deburring on both sides is limited (≥ sheet thickness 3 mm)
Machine option	Engraving
Programming	Manually in TruTops V1.0 (Punch 1.01)

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HEADLAND Machinery Service Support

TRUMPF