



## Flexibility and precision.

The new mechanical fixed TKM shredder head sets standards.

### TKM mechanical fixed shredder head.

#### Unique service life.

##### Thanks to swappable segments.

Either regrindable segments or disposable segments can be used on the newly developed TKM shredder head. The user can flexibly choose the fitting type of segment that is most suitable for the practical use at hand.

#### Narrowest tolerances for your milling stations.

##### For the utmost precision.

This new system also affords clear advantages in maintenance and repairs. Worn or broken segments can simply be replaced. Unlike the case with soldered cutting plates, no elaborate tempering process is necessary.

#### Sustainable.

##### Due to unlimited usability.

The milling head remain with the user and need not be annealed. In the case of soldered constructions, the segments of the milling head must be replaced by a service partner. This processing involves repeatedly subjecting the tool body to temperatures, which can cause damage. Necessary tolerances are attained only conditionally or not at all.

#### Advantages:

- Screwed TC (tungsten carbide) segments increase user flexibility thanks to easy and fast segment changes
- Universal and disposable TC segments can be used on one and the same milling head
- Unlimited use of the milling head (no need for replacements)
- Spine processing up to 80 mm book block thickness through special TC inserts and geometries
- TC universal segments for all commercially available adhesive binders facilitate the supplying and stocking of spare parts
- Optional. Disposable TC segments for reducing setup times
- Greatly dust-reduced surfaces facilitate further spine processing as well as the application of adhesives
- Easy extraction of paper scraps for recycling



**TKM mechanical fixed shredder head.**

**Stable and reliable processes.**

In the case of using shredder heads, the fold is neatly cut off the spine to create a flat and dust-free surface. The cut-off paper scraps are extracted and gathered together for resale. Use of a TKM shredder head provides optimal support to the book block during cutting. Special TC universal segments optimally geared to all TKM shredder heads ensure that book blocks up to a spine thickness of 80 mm can be processed.

TC disposable segments are optionally available. Regrinding and readjustment of the cutter is no longer required if the disposable segments are used, reducing set-up labor.

**Mechanical spine preparation.**

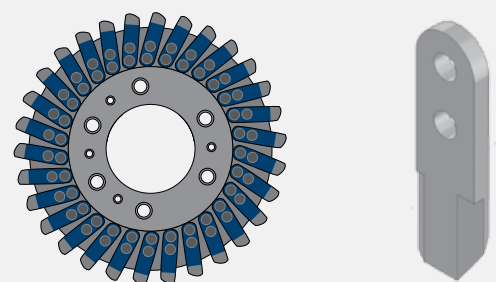
It improves the adhesive bonding strength of the sheet to the adhesive. This can only be achieved by the right use of the milling tools which should perfectly match paper quality and structure.

**20,000 cycles/h.**

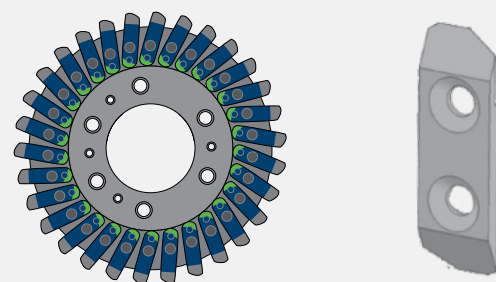
Binding lines operating in the heavy-duty segment at high speeds of up to 20,000 cycles per hour and with up to 5 milling stations present a very high quality requirement on the spine tools.

**Efficient from the start.**

Especially important here is the first milling station, where shredder heads are often used. The better and more carefully the employed tool is adjusted to the product, the less will evenness and imprecision have to be corrected in the downstream processing stations.



*TKM mechanical fixed shredder head, with regrindable TC segments (screwed).*



*TKM mechanical fixed shredder head, with disposable TC segments (screwed).*



*The regular exchange of segments significantly wears down the milling tool. The precise seating of segments is no longer ensured. Further processing becomes more complicated and the quality of the printed products suffers.*