EU19 FS® Punch

EU19 format with longer service life
Easy exchange of the standard tool format to EU19 FS® punch

EU/FSM formats are standard for tableting tools. As an alternative, tablet manufacturers use the FS® format offered by Fette Compacting which offers longer service life and dwell times as well as smoother running of the press. These previously separate worlds have now been merged: in the form of the EU19 FS® format registered for patent, designers at Fette Compacting have applied FS® technology to the standard format. An EU19 punch can now be directly replaced by an EU19 FS® punch – with the same processing properties. All existing cams can still be used. But this change has some significant effects: the punch service life increases and loads are distributed more evenly across the punch head.

The improved service life displayed by the EU19 FS® is attributable to the geometry of the punch head: the transition between the contact area and the flat head follows a 4th degree polynomial function – representing a consistent further development of FS® technology. This leads to lower initial force on entry due to the flat head. Fette Compacting has integrated an additional indentation in the top of the punch head. The result is an improvement in this improves both the contact conditions between the pressure roller and the flat punch head, as well as the stability of the punch structure.

All existing cams can still be used and the process parameters remain the same. This change brings the following benefits:

- 50% longer service life compared to EU19 / TSM19
- EU19 FS® leads to smoother running compared to EU19 / TSM19
- Less wear
- Longer service life of pressure rollers and all the other parts that come into contact with the punches

### TECHNICAL DATA

**Pressing force**
- to max. 94 kN analogous to EU19

**Materials**
- Standard punch (FSG-STP)
- Inox punch (FSG-IXP)
- Premium punch (FSG-PRP)

**Coatings**
- Hard chrome plating (FGC-HCP)
- PVD-Chrome (FGC-PDR)
- Chrome nitride (FGC-CRN)
- Titan nitride (FGC-TIN)
- Titanium aluminum nitride (FGC-TAN)

**Punch design**
- Single and multi-tip tools are possible