

FINISHINGS

MAXIMUM OPERATING PERFORMANCE

Our SuperCut dies make convincing products because of their very high operating performance even in the basic versions. For certain materials and applications, however, it makes sense to increase the lifetime of a tool even further through special types of finishings.

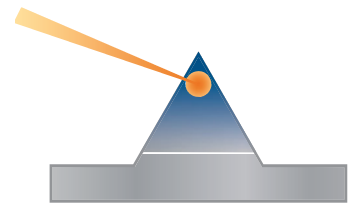
Protection against wear

In the die-cutting process, a flexible die is sometimes exposed to extreme stresses. Friction against the material makes the cutting edges blunter with time, so that flawless die-cutting is no longer possible. This applies, in particular, to abrasive materials (e.g. thermal paper, opaque white, fluorescent inks) and to large quantities. Our special coatings MC, MCR and MC Plus considerably reduce these symptoms of wear.

A high degree of wear also occurs with the cutting-through of materials, because the cutting edge hits the anvil cylinder directly. Wink laser hardening is recommended here to increase service life. A specially developed computer-controlled laser procedure produces a hardness of 66-68 HRC in the tip of the cutting edge.



Coating
(MC, MCR, MC plus)



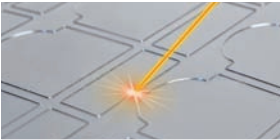




Laser hardening



Overview of variants

Our finishing options for flexible dies enable you to achieve maximum efficiency. The flexibility, tolerance and magnetic adhesion of the dies remain fully preserved with all coatings and hardening processes.



Finishing	Typical application	Quantities	Production time (die incl. finishing)
 Laser	Cutting through of filmic materials	medium - long runs	12 - 24 h
 MC (Micro Coating)	Kiss-cutting of abrasive (thermal) materials	medium - long runs	12 - 24 h
 MCR (Micro Chrome)	Kiss-cutting of very abrasive materials (thermal paper, opaque white, fluorescent inks, etc.)	(very) long runs	24 - 48 h
 MCR + Laser	Kiss-cutting and cutting-through of very abrasive materials	(very) long runs	24 - 48 h
 MC Plus	Kiss-cutting and cutting-through of particularly abrasive materials with acute cutting angle (<math><70^\circ</math>)	very long runs	5-7 WD