

Superior Solutions for Sheet Metal Fabricators

# MATE SUPERMAX™

## Next Generation Coating



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Product Bulletin

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# MATE SUPERMAX™ COATING

Mate SuperMax™ is a **proprietary** next generation coating specifically formulated for punch press tooling. A hard, wear resistant, and lubricious coating, SuperMax acts as a barrier between the punch and sheet metal to greatly improve stripping. In customer testing, SuperMax outperforms currently available premium coatings by 2 to 8 times, depending on the application.

Applied using the very latest nano-layer technology, SuperMax's harder, denser film greatly increases wear resistance and has a much lower friction coefficient of about 20%. Lower friction means less heat build-up, less galling and longer tool life. SuperMax is particularly good for adhesive wear tooling applications. The lubricity is also beneficial when punching sharp cornered shapes with a 90 degree or smaller angle.

SuperMax is recommended for applications such as 3000 and 5000 series aluminum, cold rolled, galvanized and stainless steels; even pre-painted, vinyl coated and fiberglass materials.

SuperMax can be applied to M4PM™, M2, and Durasteel™ punches. Since SuperMax is a semi-transparent coating, we've made it easy to identify by including a protective green tip.\*

## MINIMUM PUNCH SIZE:\*\*

SHAPE	MINIMUM PUNCH SIZE SUITABLE FOR SUPERMAX™ COATING
Round	Minimum diameter = 0.098(2.50)
Rectangle	If length is > 0.250(6.35) The minimum width is 0.060(1.50)
	If length is < 0.250(6.35) The minimum width is 0.098(2.50)
Oval	If length is > 0.250(6.35) The minimum width is 0.060(1.50)
	If length is < 0.250(6.35) The minimum width is 0.098(2.50)
Square	Minimum width = 0.098(2.50)
Others	Consult a Mate Application Specialist



## APPLICATION RECOMMENDATIONS:

	3000 & 5000 SERIES ALUMINUM	GALVANIZED STEEL	STAINLESS STEEL	STAINLESS STEEL UNDER 14 GAUGE	COLD ROLLED STEEL	VINYL COATED MATERIALS	PRE-PAINTED MATERIALS UNDER 16 GAUGE	FIBERGLASS
<b>SuperMax™</b>	X	X	X	X	X	X	X	X
Maxima™	X	X	X	X		X	X	
Nitride	X			X	X		X	X



\* Mate's SuperMax tooling can be identified by its subtle matte finish and a protective green cap when shipped.



\*\* If you require a smaller minimum punch size, contact a Mate Application Specialist

[Dimensions in Inches(mm)]

