



**RESPECT • SUPPORT • INSPIRE** 



## **Forming Solutions**

THICK TURRET TOOLING





# **SEVEN DECADES OF EXCELLENCE** Founded in 1962, Mate is a world-class manufacturer of

Founded in 1962, Mate is a world-class manufacturer of superior solutions for the metal cutting and metal forming industries. We manufacture workholding systems, CNC punch press tooling, and offer a complete line of press brake tooling and laser consumables. Mate products and services are available worldwide, fully supported by more than 80 dealers in every industrialized country.



### PERSONAL, RESPECTFUL RELATIONSHIPS

Mate does business with people, not companies. Our connection to you is personal. Mate's team of manufacturing and metalworking professionals knows what you go through. We know what it's like to compete for that next job, manage deadlines or even need a rescue. With Mate you have a partner that respects your knowledge and is dedicated to helping you succeed.



### YOUR GO-TO SOURCE

Serving our customers is at the core of who we are. In your plant or on the phone, we're up for whatever metalworking challenges you face. Your Mate representatives are experts who know from experience what happens on the shop floor and provide our legendary in-field support. They speak your language, fully capable of helping you improve processes and solve problems. Mate customer service is ready to assist with fast quotes, guiding your order on to our top-notch machinists and shipping pros.



#### **GET INSPIRED!**

With our vast knowledge and broad product range we inspire innovative thinking. Our customer's projects can be seen around the world: from unique building façades thought to be impossible to make, to a new way to add strength to thin material. The possibilities are endless, so think big, bold and beyond.

#### WE'VE GOT YOU COVERED

Dedicated to quality in every aspect of our business, Mate offers an extensive standard product line that can be delivered with same day or next day service. All Mate products are backed with our industry leading 100% customer satisfaction guarantee.

### **MATE'S MISSION AND PROMISE TO YOU:**

Mate's mission is to personally **Respect, Support** and **Inspire** metalworking professionals around the world with high-quality products and services for factory productivity.



Mate offers a comprehensive range of thick turret forming solutions designed to accommodate any forming application in your thick turret punch press. Use the chart below to help you decide the forming solution that's best for you.



MORE LESS			LESS	Illtrafa®	Ultraform XT™	Illtroform EVING	Original
****	***	**	*	Ultraform®	Oitraiorm XI	Ultraform FX™¹	Style
Overall Value: The combination of standard features, purchase price and operating costs.				***	***	***	**
Cost Savings: The ongoing cost savings of operating the system over an extended period of time.				***	***	***	*
that make	it faster to in	Up: Design fe estall, easier fo more conveni	or the	***	***	***	**
Interchangeability: The ability to use the form with other Mate forming holders.				***	****	****	*
<b>Durability/Longevity:</b> Hardened guides and ability to transfer machine lubrication.				****	**	**	**
<b>Purchase Price:</b> The <i>initial</i> purchase price of the system.				****	***	**	*
1. Mach	ine requires precise st	roke control without the	use of a bottom	stroke feature. Tool leng	th adjustment is not possible. C	ontact your Mate representative	for details.



### **HIGHEST VALUE**

#### **MATE ULTRAFORM® TOOLING SYSTEM**

Mate's ULTRAFORM® tooling system features adjustable length holders for 1-1/4" B, 2" C, 3-1/2" D and 4-1/2" E stations. Each ULTRAFORM holder can be used with a variety of special forming inserts. Mate ULTRAFORM holders include precise and convenient length adjustment mechanisms that allows fine adjustment of any forming tool to achieve high quality piece parts. The benefits of the ULTRAFORM tooling system include reduced tooling cost, increased flexibility and ease of length adjustment for accurate forms.



### **GREAT VALUE**

#### MATE ULTRAFORM XT™ TOOLING SYSTEM

Mate's ULTRAFORM XT™ tooling system features adjustable length holders for 1-1/4" B, 2" C, 3-1/2" D and 4-1/2" E stations. Designed to use Mate's ULTRAFORM® tooling, each ULTRAFORM XT holder can be used with a variety of special forming inserts. The benefits of the ULTRAFORM tooling system include reduced tooling cost, increased flexibility and ease of length adjustment for accurate forms.



#### MATE ULTRAFORM FX™ TOOLING SYSTEM

Mate's ULTRAFORM FX<sup>™</sup> tooling system features fixed length holders for 1-1/4" B, 2" C, 3-1/2" D and 4-1/2" E stations. Perfect for machines with precision stroke control. Designed to use Mate's ULTRAFORM® tooling, each ULTRAFORM holder can be used with a variety of special forming inserts. The benefits of the ULTRAFORM tooling system include reduced tooling cost, increased flexibility and ease of length adjustment for accurate forms.



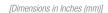
## **GOOD VALUE**

#### **MATE ORIGINAL STYLE FORMING TOOLS**

Mate's thick turret Original Style forming tools feature adjustable length holders for 1-1/4" B stations. Original Style forming tools are designed for specific applications and machines. Eight specific form types are available. Ideal for hydraulic punch presses with programmable penetration control.



Only available for 1-1/4" B-Station





ULTRAFORM®. Mate's top-of-the-line forming tool system, is packed with features that make your job easier and help reduce your tooling costs, too! Features such as push-button length adjustment that lets you set the length in the turret without tools. Hardened guides with multiple angle settings provide flexibility and lubrication grooves help extend turret bore life. Since length adjustment takes place below the lifter flange of the tool, the risk of overpenetration that may damage the turret is eliminated. Best of all, ULTRAFORM allows you unparalleled forming efficiency with its unique ULTRAFORM insert system.

With ULTRAFORM, you can have an unlimited number of forming tools and use the same holder, reducing your overall tooling spend. Want to use a different form? Simply swap out the forming insert. It's not only efficient; it's cost-effective. If you already have ULTRAFORM XT™ or ULTRAFORM FX™ holders, the inserts are completely interchangeable, further enhancing cost effectiveness. Ultraform can also take advantage of machine lubrication systems.

#### **ULTRAFORM®. THE INDUSTRY'S ULTIMATE FORMING TOOL SYSTEM.**

#### **QUICK LENGTH ADJUSTMENT:**

The push-button length adjustment mechanism allows the overall length of the assembly to be set in 0.002(0.05) increments without disassembly or removal from the machine.

#### ADJUSTMENT BELOW THE SHOULDER:

Length adjustment is made below the shoulder of the assembly maintaining the gap between the ram and the tool at top of stroke to prevent the ram from hitting the tool.

#### **HARDENED GUIDES:**

The hardened guides, combined with the lubrication grooves, reduce friction and extend turret bore life.

#### **MULTIPLE ANGLE SETTINGS:**

All ULTRAFORM® holders can be set at 0, 90, 180 and 270 degrees as a standard for maximum flexibility.

#### **TOOL LUBRICATION:**

ULTRAFORM® holders provide internal channels and external lubrication grooves to allow lubrication of forming tools. ULTRAFORM is compatible with all popular punch press machine tool lubrication systems.

#### **ONE HOLDER - MULTIPLE APPLICATIONS:**

The ULTRAFORM® holder system is designed to allow an unlimited number of forming tools to be used with the same holder, which reduces tooling inventory costs.

#### **Available for:**

1-1/4" B-station

2" C-station

3-1/2" D-station

4-1/2" E-station



and the punch head. Eliminates risk of over penetration that may damage the turret. Fixed Length - Between the shoulder

and the tip of the forming tool, for precise form height adjustment. Adjustable Length - Between the shoulder



ULTRAFORM XTTM is Mate's answer for those situations where you desire flexibility but adjust tool length infrequently. Grooved guides enhance lubrication and feature multiple angle settings for maximum flexibility. Incorporating Mate's unique ULTRAFORM® insert system, ULTRAFORM XT lets you change forms efficiently, quickly and economically. You can have an unlimited number of forming tools with the same holder, reducing your overall tooling cost. Since length adjustment takes place below the lifter flange of the tool, the risk of overpenetration that may damage the turret is eliminated. What's more, if you already have ULTRAFORM or ULTRAFORM FX holders, the inserts are completely interchangeable, further enhancing your economies of scale. ULTRAFORM XT™. Ultimate flexibility. Ultimate efficiency.

#### **LENGTH ADJUSTMENT:**

Adjust the overall length of the assembly by simply loosening screws and turning the punch head to the desired length.

#### **ADJUSTMENT BELOW THE SHOULDER:**

Length adjustment is made below the shoulder of the assembly maintaining the gap between the ram and the tool at top of stroke to prevent the ram from hitting the tool.

#### **MULTIPLE ANGLE SETTINGS:**

All ULTRAFORM® holders can be set at 0, 90, 180 and 270 degrees as a standard for maximum flexibility.

#### **TOOL LUBRICATION:**

ULTRAFORM XT™ holders provide external grease grooves to allow lubrication of forming tools.

#### **ONE HOLDER - MULTIPLE APPLICATIONS:**

The ULTRAFORM® holder system allows an unlimited number of forming tools to be used with the same holder, which reduces tooling inventory costs and increases efficiency.

#### **Available for:**

1-1/4" B-station 2" C-station 3-1/2" D-station 4-1/2" E-station

**ULTRAFORM XT** 

NOTE: Machine lubrication system compatibility available as an option.

punch head. Eliminates risk of over penetration that may damage the turret. Fixed Length - Between the shoulder and the

and the tip of the forming tool for precise form Adjustable Length - Between the shoulder neight adjustment



### **ULTRAFORM FXTM TOOLING SYSTEM** FEATURES AND BENEFITS

You want forming flexibility, but your machine has precision stroke control. Mate's solution: ULTRAFORM FX<sup>TM</sup>, a fixed length forming tool that still provides you with the efficiency you desire. The grooved guides enhance lubrication and feature multiple angle settings for maximum flexibility. ULTRAFORM FX uses Mate's ULTRAFORM® insert system so you can have an unlimited number of forming tools with the same holder, reducing your overall tooling cost. Need a different form? Change it efficiently, quickly and economically. Already have ULTRAFORM or ULTRAFORM XT<sup>TM</sup> holders? The inserts are completely interchangeable. ULTRAFORM FX<sup>TM</sup>. Fixed length. Flexible. Economical.

#### **MULTIPLE ANGLE SETTINGS:**

All ULTRAFORM® holders can be set at 0, 90, 180 and 270 degrees as a standard for maximum flexibility.

#### **TOOL LUBRICATION:**

ULTRAFORM® holders provide external grease grooves to allow lubrication of forming tools. ULTRAFORM is compatible with all popular punch press machine tool lubrication systems.

### ONE HOLDER - MULTIPLE APPLICATIONS:

The ULTRAFORM® holder system is designed to allow an unlimited number of forming tools to be used with the same holder, which reduces tooling inventory costs.

#### **Available for:**

1-1/4" B-station 2" C-station 3-1/2" D-station 4-1/2" E-station Fixed Length - ULTRAFORM FX holders are designed for machines with precision stroke

Fixed Length - ULTRAFORM FX holders are designed for machin control eliminating the need for length adjustment.

Contact your Mate representative.

NOTE: Machine lubrication system compatibility available as an option.



### **SYSTEM OVERVIEW**



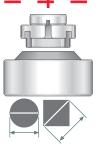
ULTRAFORM FX<sup>TM</sup> 1-1/4" B Station Forming Unit Guide Assembly MATE01798



ULTRAFORM® 1-1/4" B Station Forming Unit Guide Assembly AFKB2



ULTRAFORM XTTM 1-1/4" B Station Forming Unit Guide Assembly MATE01755



Upper Insert Assembly Priced upon application Consult your MATE representative

Lower Insert Assembly Priced upon application Consult your MATE representative



ULTRAFORM FXTM 2" C Station Forming Unit Guide Assembly MATE01800



ULTRAFORM® 2" C Station Forming Unit Guide Assembly AFKC2



ULTRAFORM XTTM 2" C Station Forming Unit Guide Assembly MATE01821



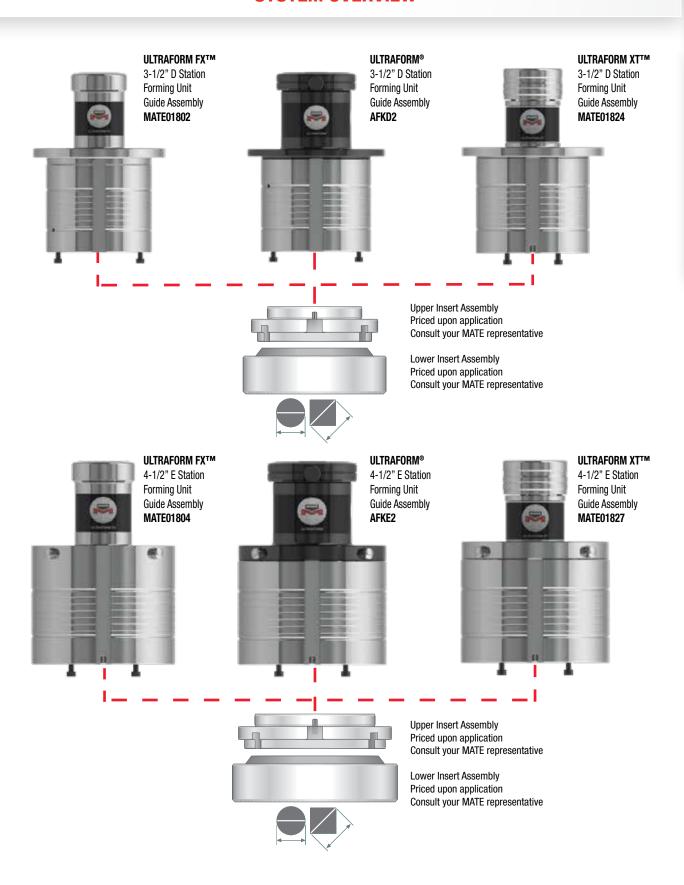
Upper Insert Assembly Priced upon application Consult your MATE representative

Lower Insert Assembly Priced upon application Consult your MATE representative











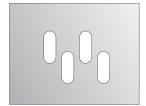
Mate Original Style thick turret 1-1/4" B-Station forming tools offer economy, simplicity and convenience. With fewer features, less adjustability and no form insert interchangeability, Original Style thick turret forming tools are more economical. Engineered for specific material type, material thickness and machine type provides application-specific convenience. Combining integrated tool body construction with the hexagon shaped punch head makes it simple to use. Eight specific form types are available. Original Style thick turret 1-1/4" B-Station forming tools are ideal for hydraulic punch presses with programmable penetration control.



	Dedicated Countersink Down Complete Assembly with blank die Replacement Countersink Tip	XAABDOB399 XAABDOB316
	Dedicated Countersink Up Complete Assembly non-spring loaded lower	XAABD0B199
_	Round Emboss with Dome Top Complete Assembly with spring loaded lower	XAABD0E099
	Round Emboss with Flat Top Complete Assembly with spring loaded lower	XAABD0E199
	Round Embossed Countersink Up Complete Assembly with spring loaded lower	XAABD0E999
	Round Extrude Up Complete Assembly with spring loaded lower Replacement Lower Insert	XAABDOD199 XAABDOD104
	Single Round Knockout Up Complete Assembly with spring loaded lower	XAABD0K199
	Shear Button Up Complete Assembly with spring loaded lower Replacement Lower Insert	XAABDOS199 XAABDOS104

















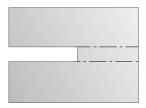




































### MATE PRECISION TECHNOLOGIES GLOBAL COVERAGE

#### **WORLDWIDE HEADQUARTERS:**

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