



RESPECT • SUPPORT • INSPIRE

Adding Value with Punching



Special Assemblies Gallery

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Click on the corresponding box to jump to the slide. Use **to** come back to this menu.

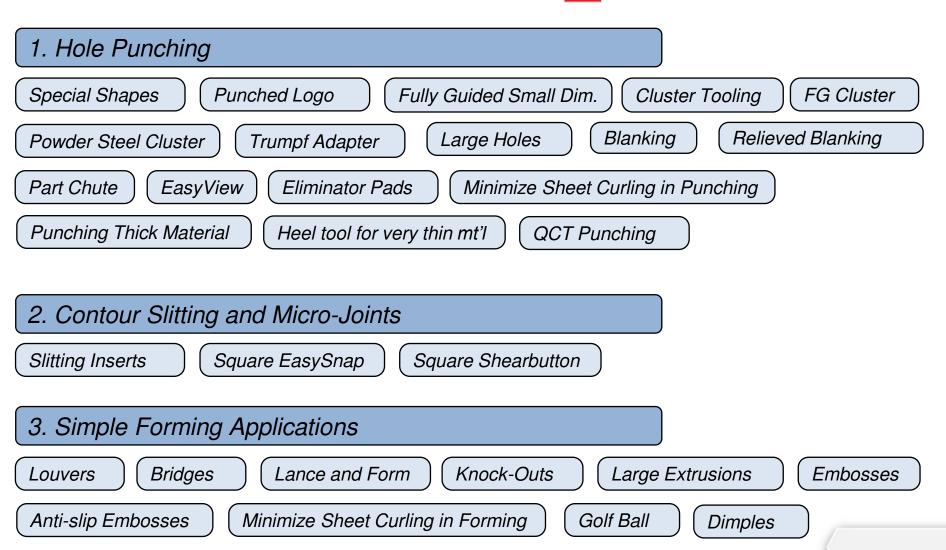


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Architectural Gripper Line Press Brake 'PBT' Adapter **QCT** Forming Braille 4. Logos and Sheet Marking Sheetmarker UP Easymark Sheetmarker Alpha-Numeric Enumerator 40 Station Character V-line Logo Stamped Logo Cold Forged Emboss Logo 5. Easier Product Assembly Hybrid Threadform HexLock Assembly Solutions SnapLock Threadform 'Side' Threadform EasyTap Centerpoint & EasyMark Assembly Tabs Hinges Locating Tab (T-UP) Special Shearbutton One-hit-hinge Positioning Tab Foil Cutting Advanced Film Cutter

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Pierce-Emboss-Countersink

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- 9. Deburring Solutions
- 10. Ribs and Offsets

Mate RollerBall

Mate Roller Tools

Beading

Web Tool





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1. Special shapes, Clusters, Blanking

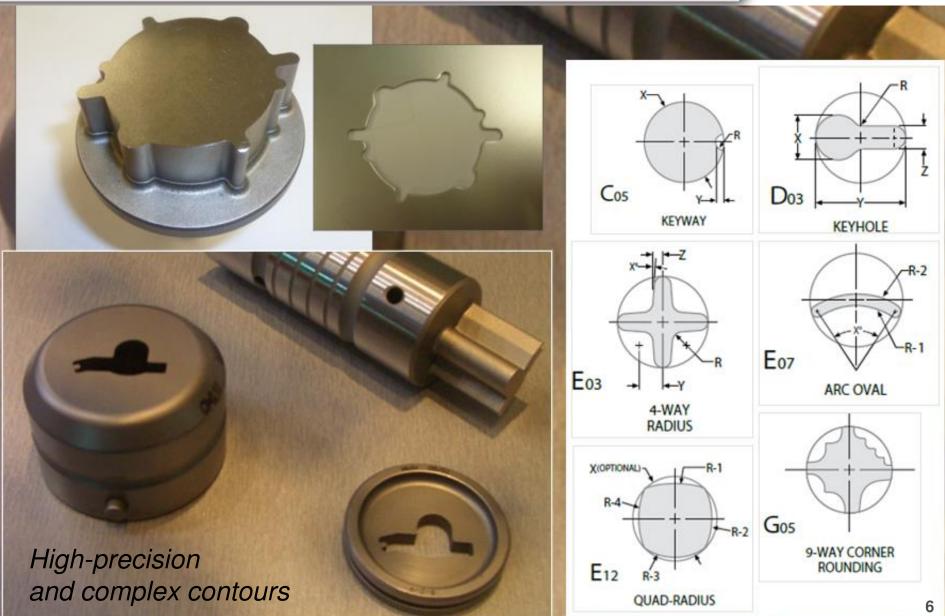


Special Assemblies Gallery

Quick Change Tooling 'QCT'

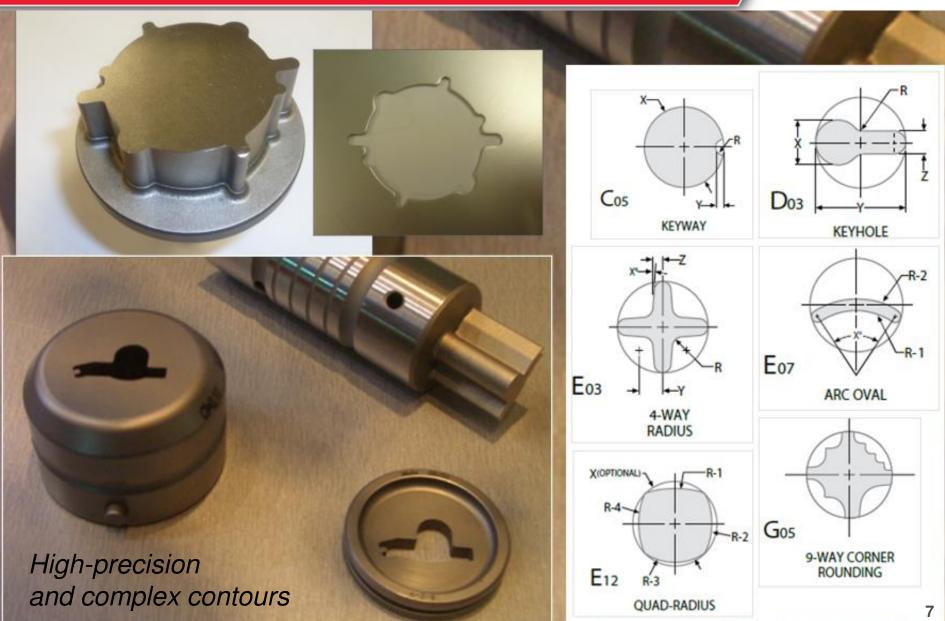




























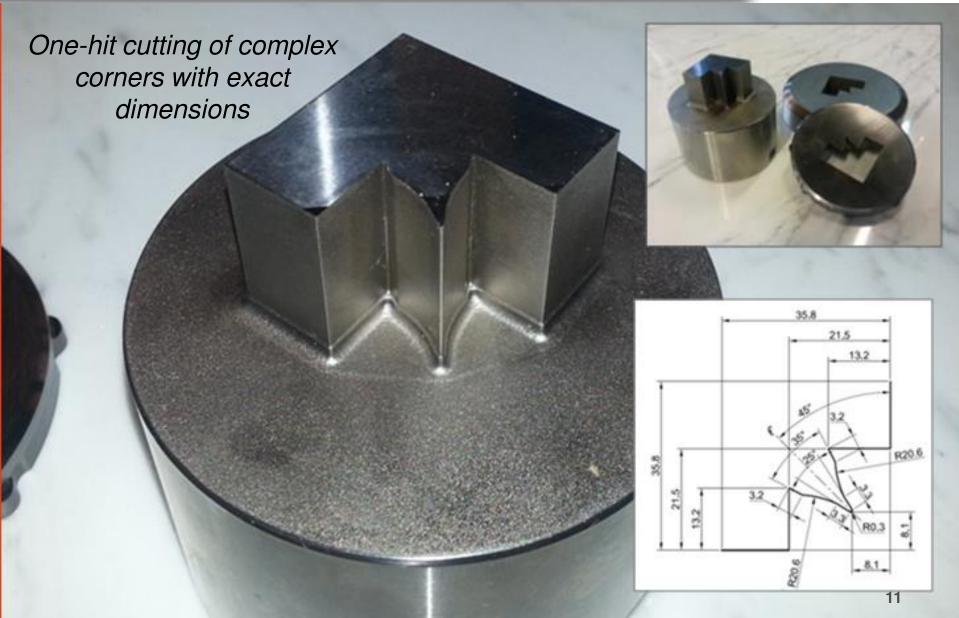
Punch shape equal to contour line avoids nibbling and tool changing

















'Fully Guided' for smallest possible holes





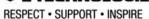


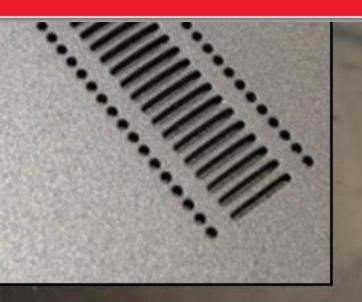


'Fully Guided' for smallest possible holes



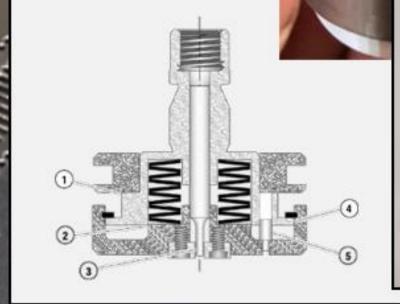






0.8mm round and 0.5x6mm obround in 0.6mm stainless

'Fully Guided eliminates the risk of breaking punch tips











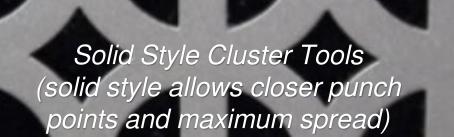


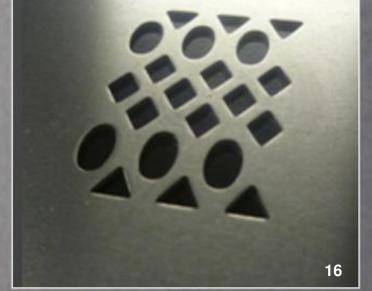






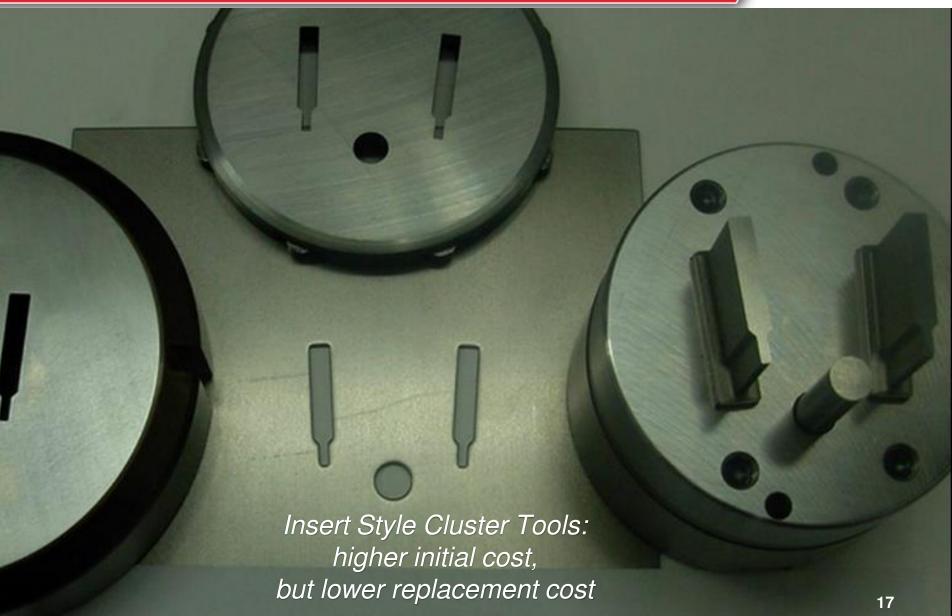






















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A cluster tool guarantees exact center-to-center positions, at all times, and also for future product runs







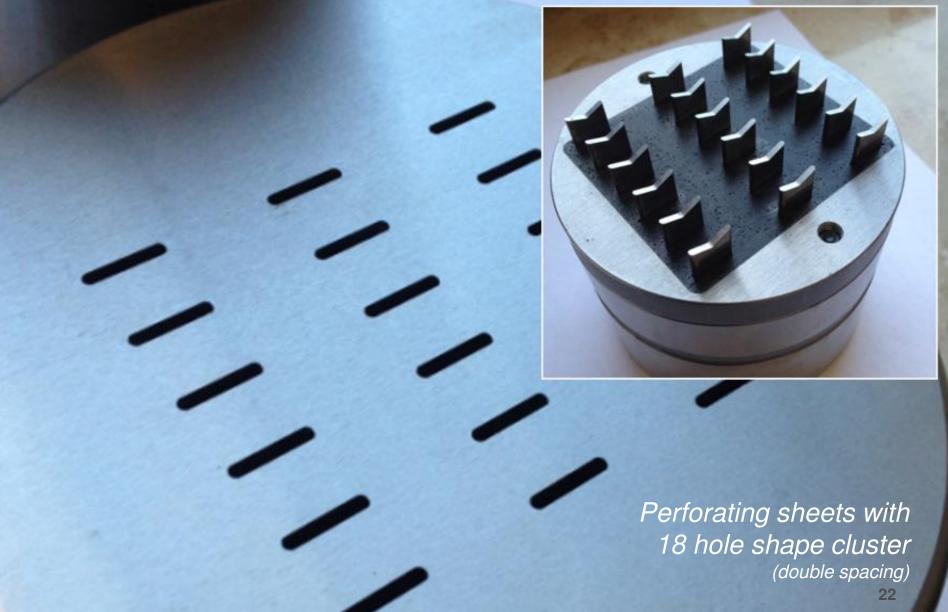














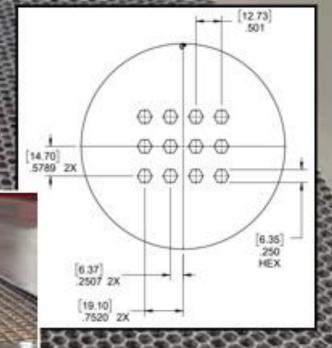








Flat perforated sheets with 'double-spaced' cluster (Etch 11217122)



With Rolling Rib application







Special Cluster Applications





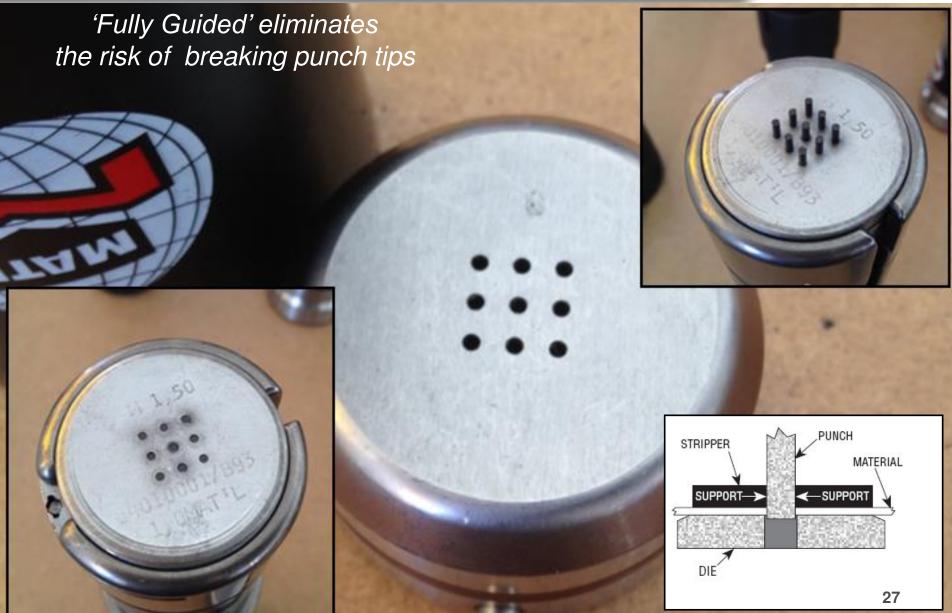




'Fully Guided' Cluster Applications







'Fully Guided' Cluster Tools





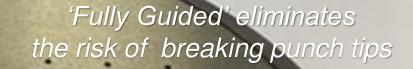


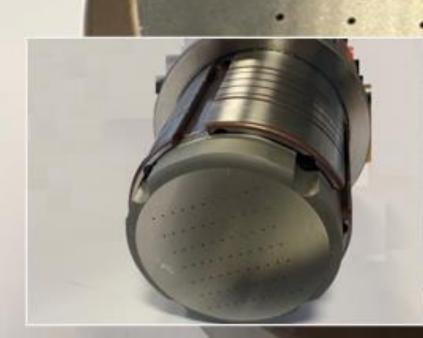
'Fully Guided' Cluster Tools



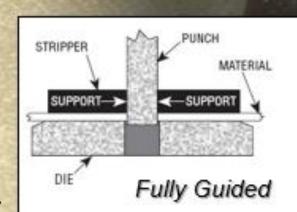


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Tool Etch 02207060: 77 holes of 1,0mm dia. in one hit



Punching and Scribing in one Cluster Tool







Special Shapes in 'Fully Guided' holder







Powder Steel Cluster Tools





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Powder Steel in cluster punches and dies reduces tool maintenance and increases machine uptime

VERSADIE "

The VersaDie design helps keeping the sheet flatter



Mate 'Trapter'



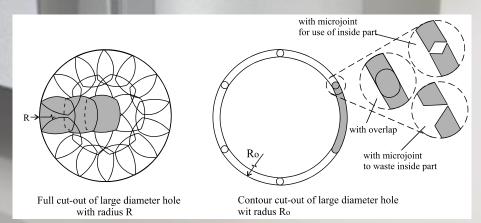


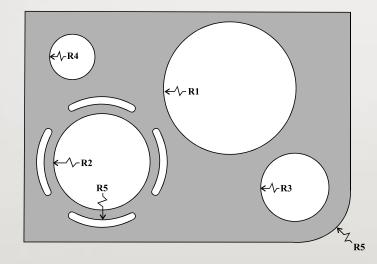


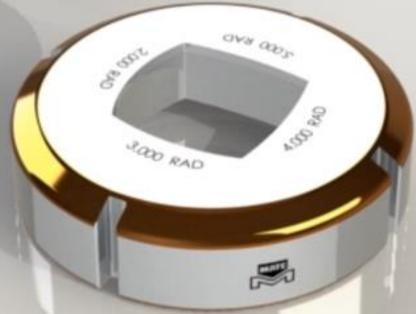
Large round holes without nibbling



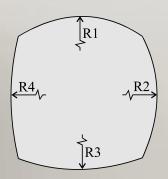




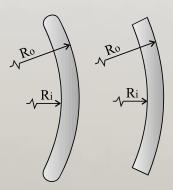




When indexing stations are available, large round holes can be punched out with quad radius or banana tools



Multi-Cut Tool with 4 different radii



Banana Tools

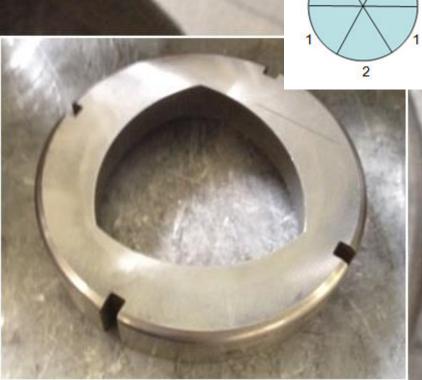
Large round holes without indexing











When no indexing stations are available, large round holes can still be punched out with 2 tools at 60° off from each other

Special Shape Blanking

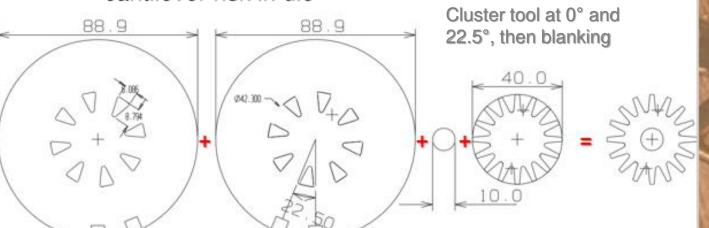


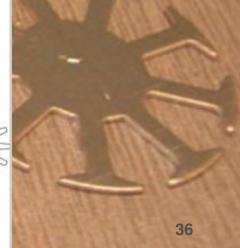


High-precision and complex contours can be blanked easily



Alternative solution to eliminate cantilever risk in die





Special Shape Blanking



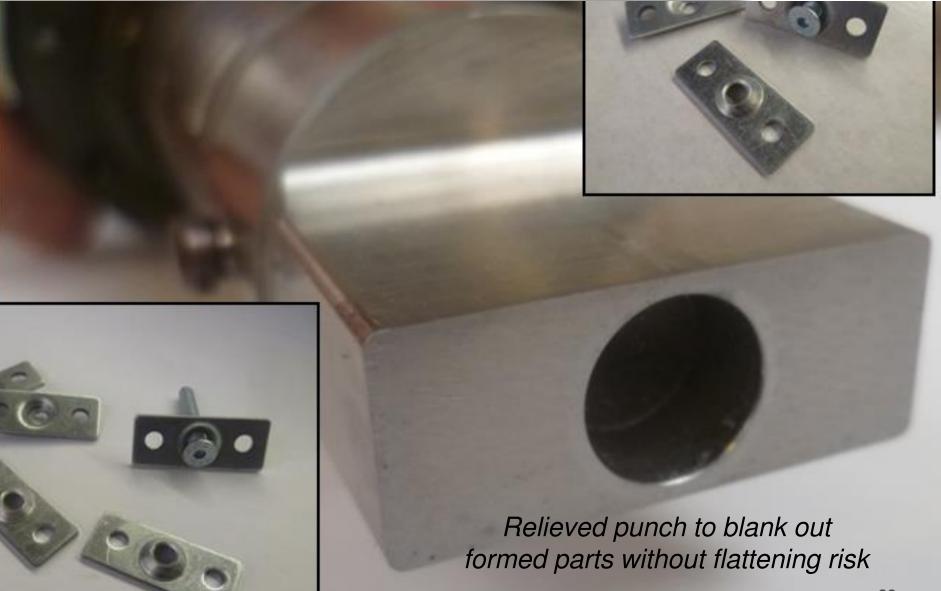


Fast blanking of complex contours R9.50_{2X} 2X R2.00 Ø19.00 3.15 2x 5.15 2X 37

Relieved Blanking Punch







'Part Chute' Tool







EasyView Dies





Visual Management O-Rings on dies facilitates quick identification of e.g. die clearance, ...







BLACK

RED

GREEN

YELLOW

WHITE

Eliminator® Pads







Minimizing Sheet Curling when Punching



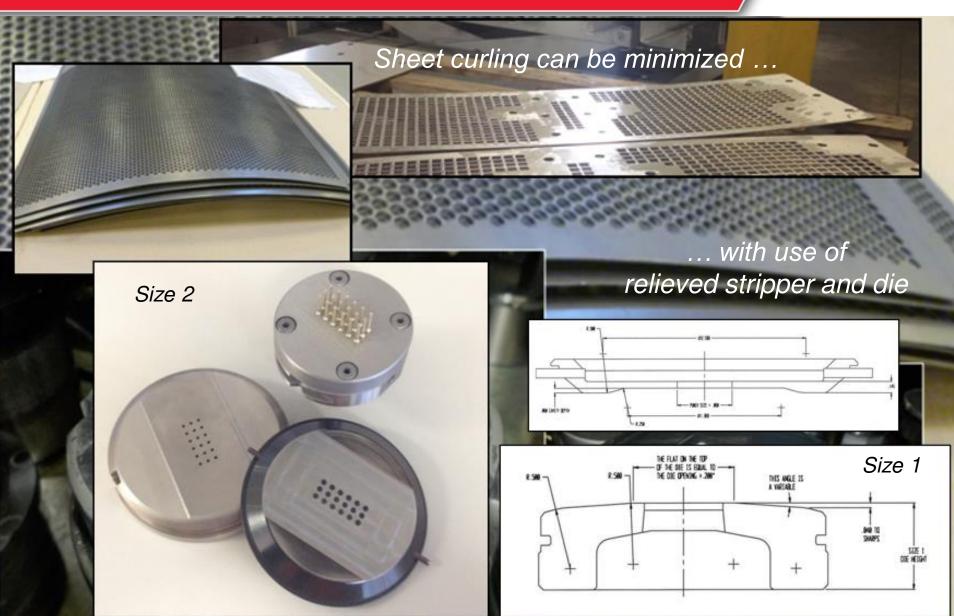




Minimizing Sheet Curling when Punching



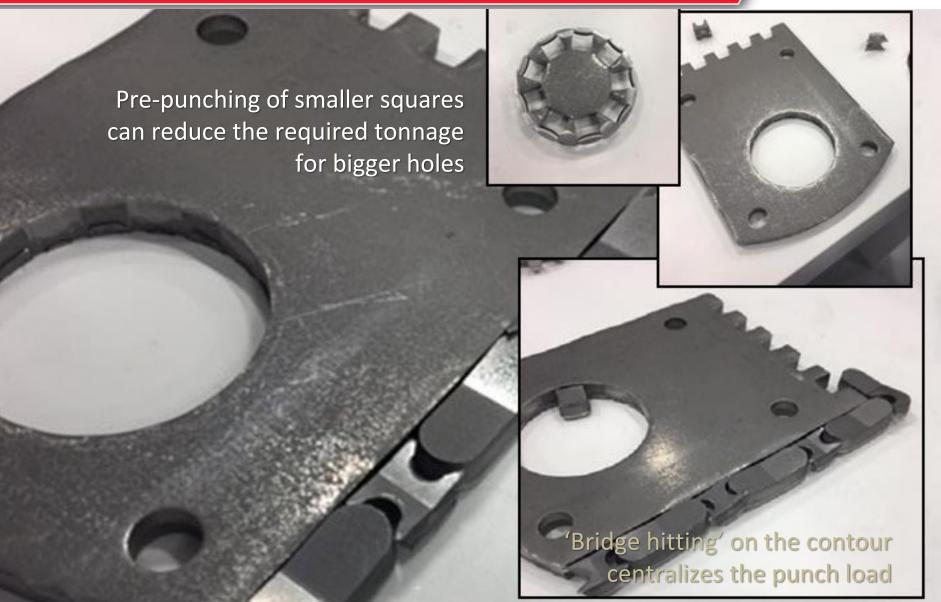




Punching Thick Material







Tools with 'Heel'







Quick Change Tooling 'QCT'











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2. Contour Slitting and Micro-joints



Special Assemblies Gallery

Long Lasting Slitting Solutions

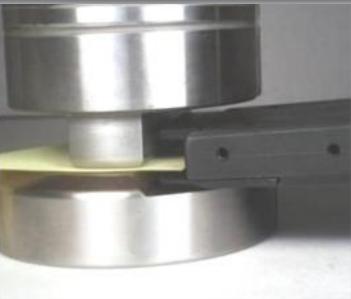




Upper Slitting
System

with Punch Insert in M4PM tool steel





Fully Guided 'Clamp Clearing'

Slitting Solution for punching close to clamps and forms



Lower Slitting

VersaDie

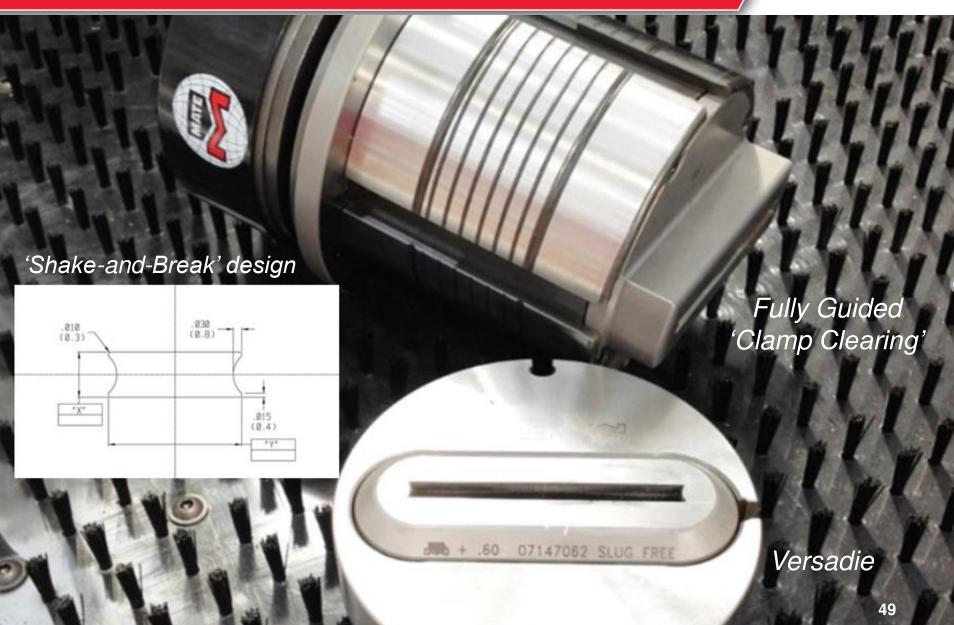
System with Die Insert in MPM82 tool steel

Slitting Solutions with microjoints





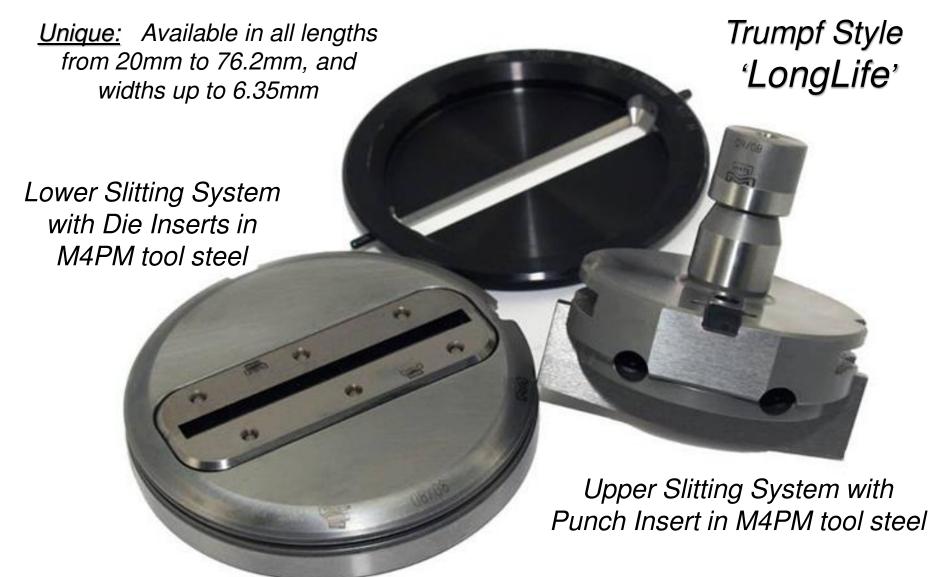




Long Lasting Slitting Solutions



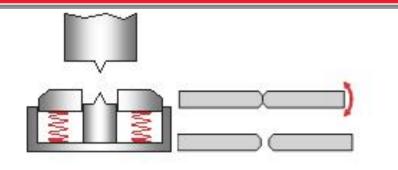




Micro-joint Solutions

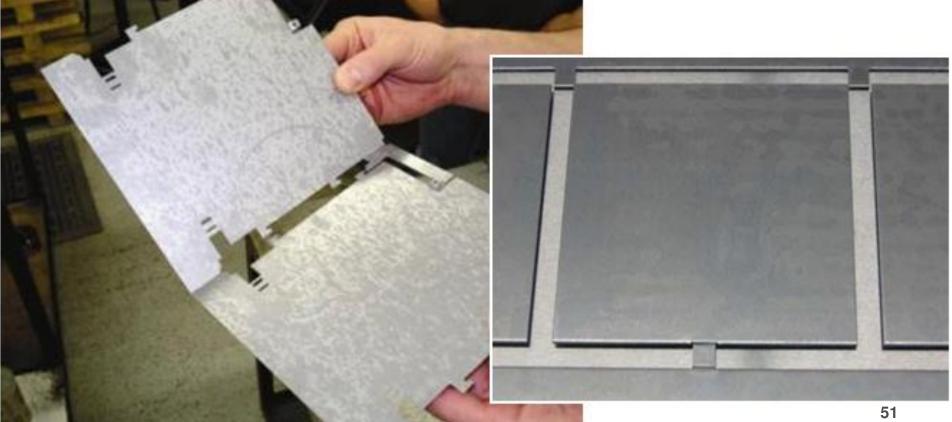






EasySnap and Square EasySnap

Part separation and
Microjoints, leaving minimum
burr or marks



Micro-joint Solutions





Square Shearbutton

Part separation and Microjoints, leaving

minimum burr or marks



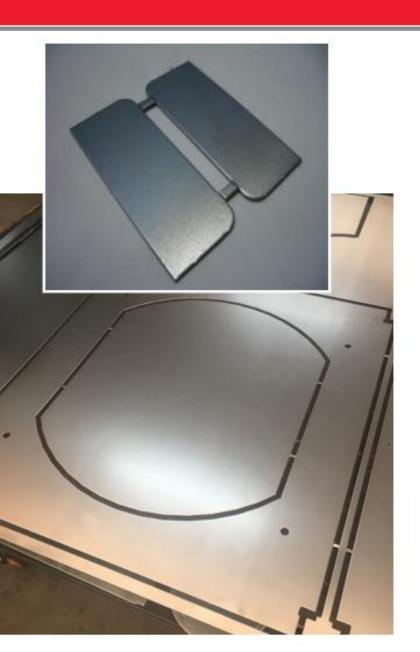


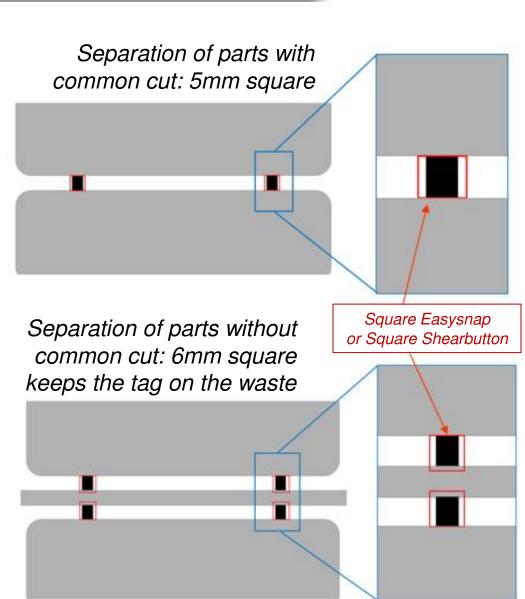


Micro-joint Solutions













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3. Simple Forming Applications

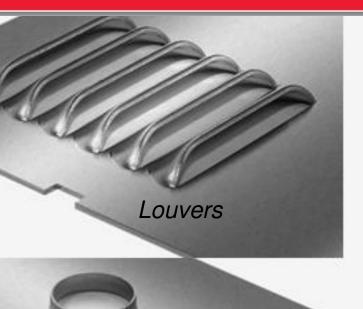


Special Assemblies Gallery

'Common' Forming Applications



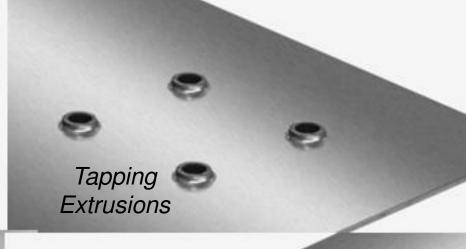














Special Louver Applications







Continuous Louver Applications





4mm hit centers, from left to right

Flexible length Louvers

3mm hit centers, from left to right

M HIT CENTER.

HIT CENTER



1.5mm hit centers, from middle to left, then middle to right

Louver Applications







Louver Applications







Small Round Louvers



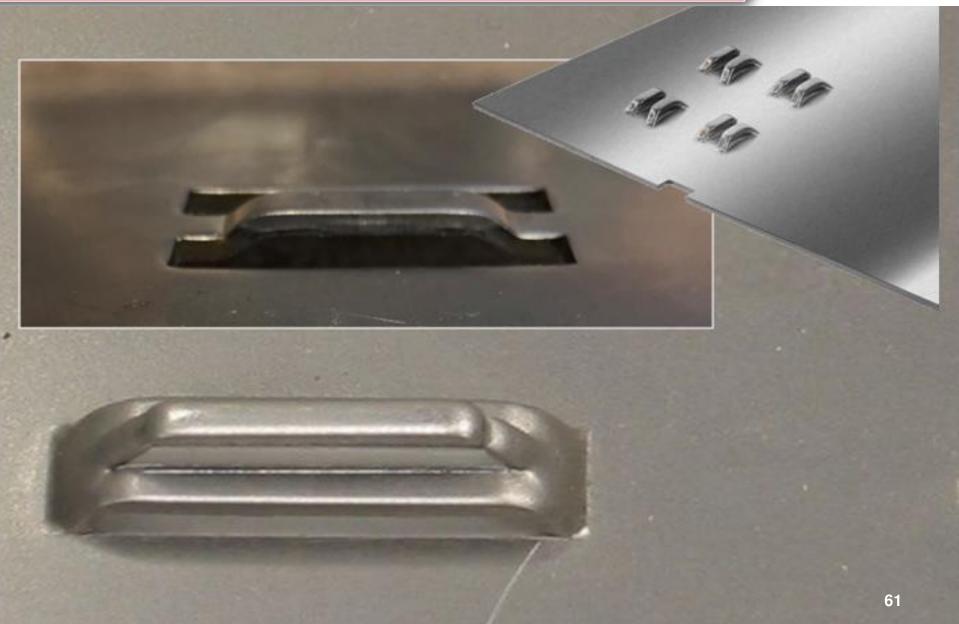




Special Bridges







Special Bridges







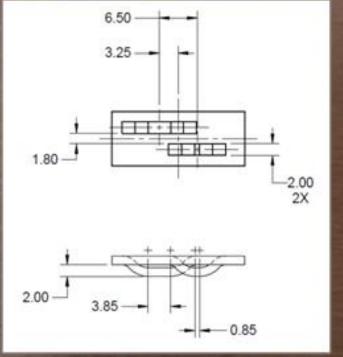
Cluster of Bridges





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Two bridges (down) in one hit





1.5mm Aluminum



Cluster of Bridges







Cross Shaped Bridges





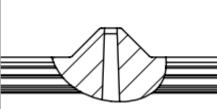


Pierce-after-Form





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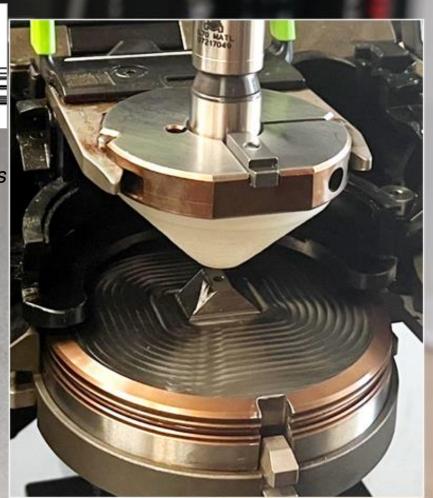


Dia 3.2mm Pierce-after-Emboss (Etch# 07217049)



6.4mm high bridge in 0.7mm mild steel, with pre-punched sides (obround)

(Etch# 07217048)



Special Shape Bridges







Double Lance-and-Form







X-Part # XAVEDOF 200

Lance-and-form



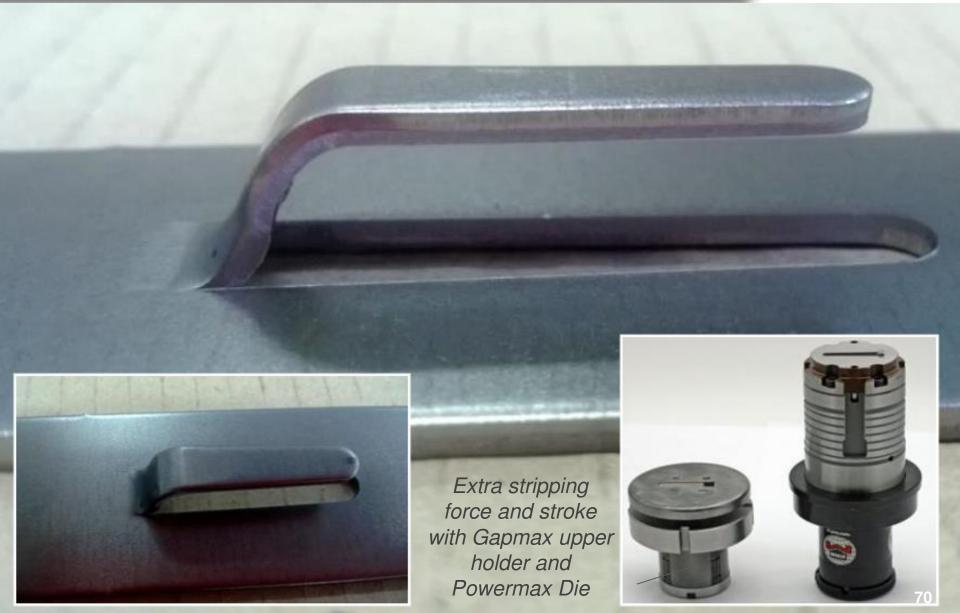




High lance-and-form







Special Lance-and-Form







Special Lance-and-Form





Triple Lance-and-Form application (tag holder for office furniture)





(etch 12204181)

Double Knock-Outs



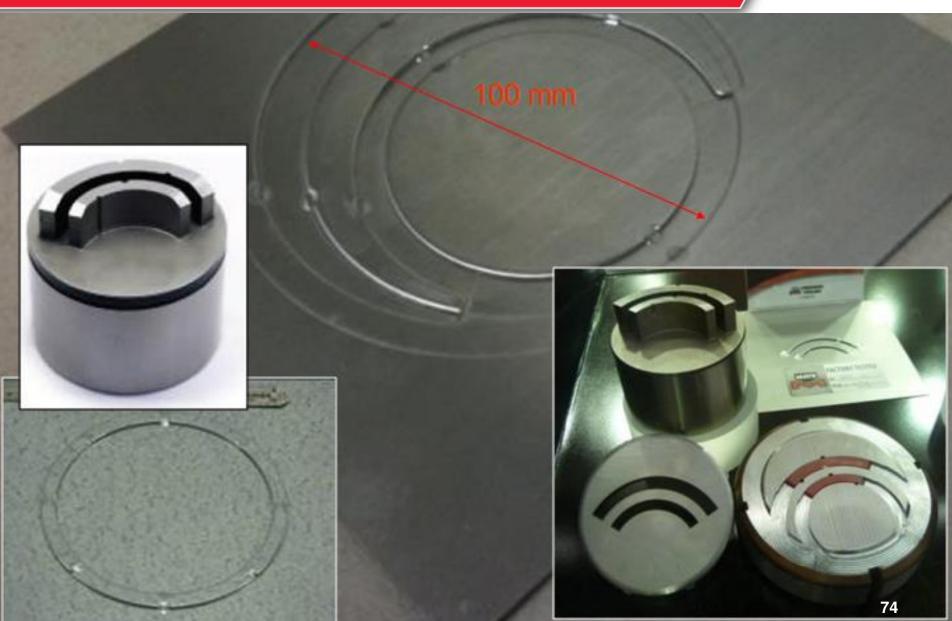




Large Knock-Outs







Large Knock-Outs



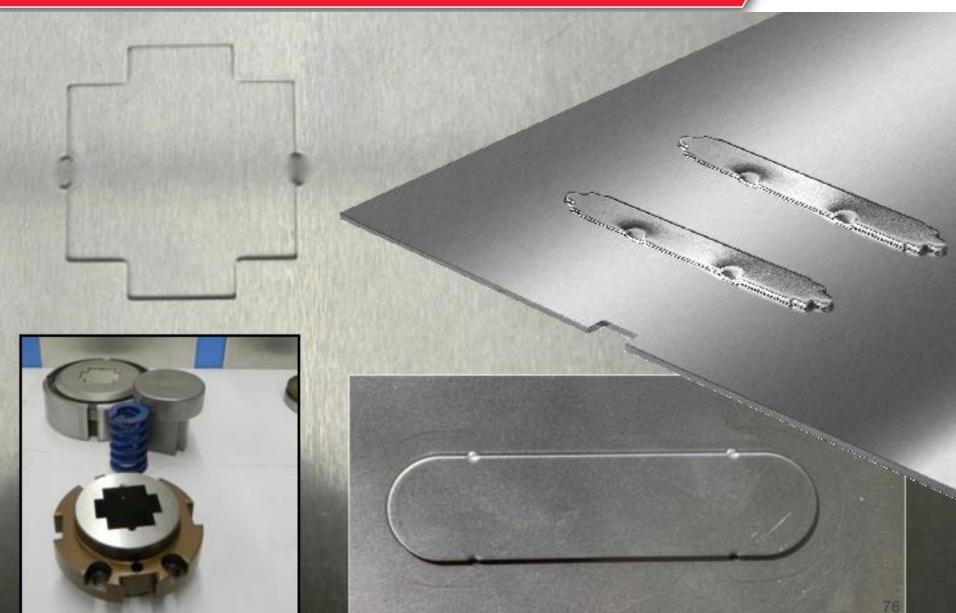


etch 02107153 75

Special Shape Knock-Outs







Extrusions







Extrusion down





Extrusion down in UltraTEC with spring loaded UltraForm lower



























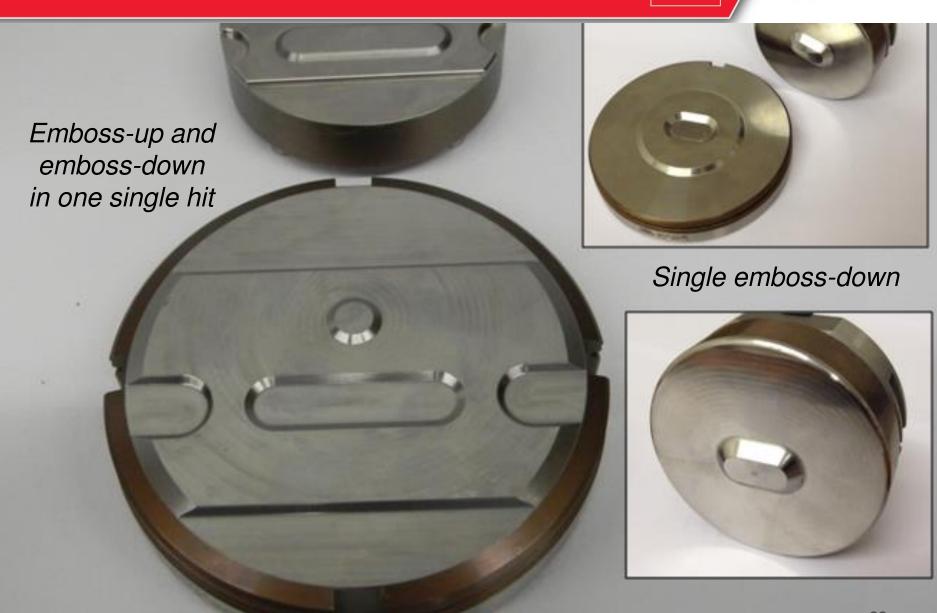




Embosses













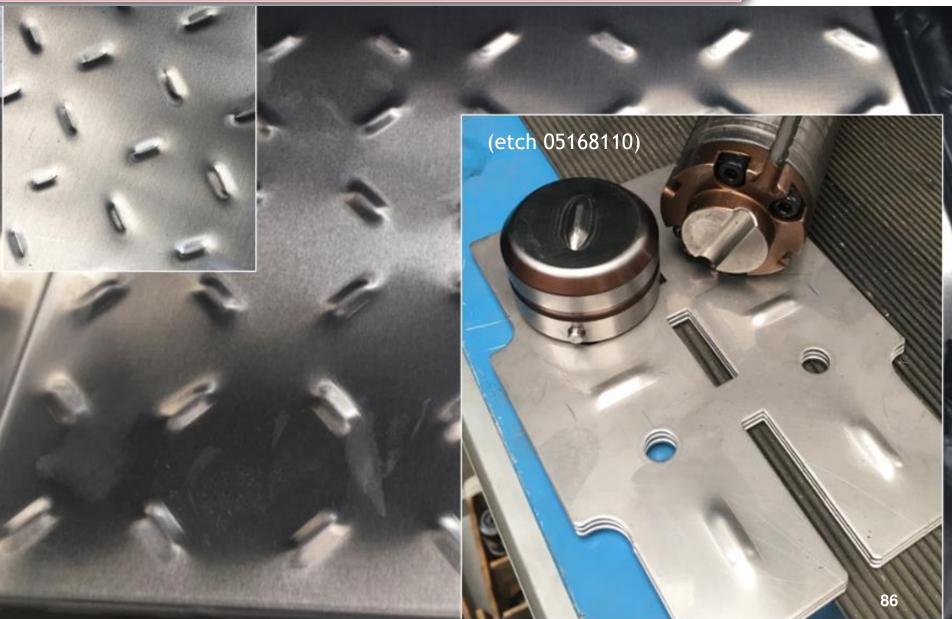












Large Embosses

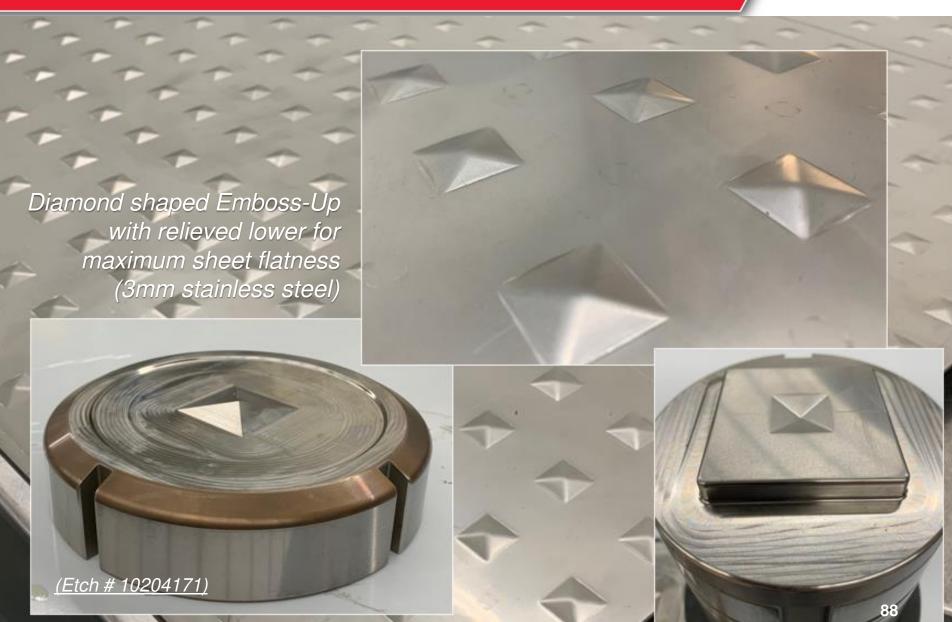




Long excentric embosses in 1mm stainless steel [4.00] .157 Etch# 10207030



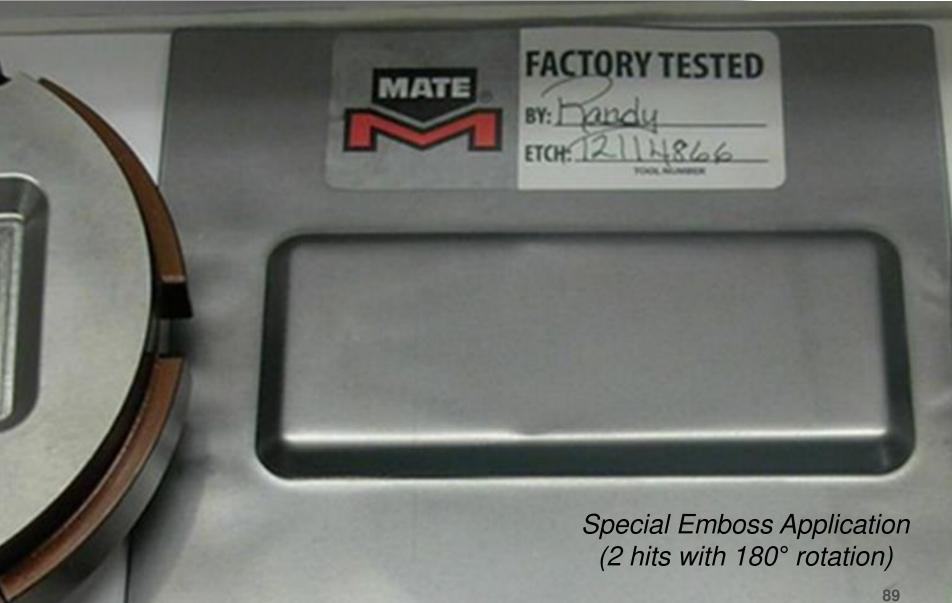




Large Embosses







Special Embossing Solution



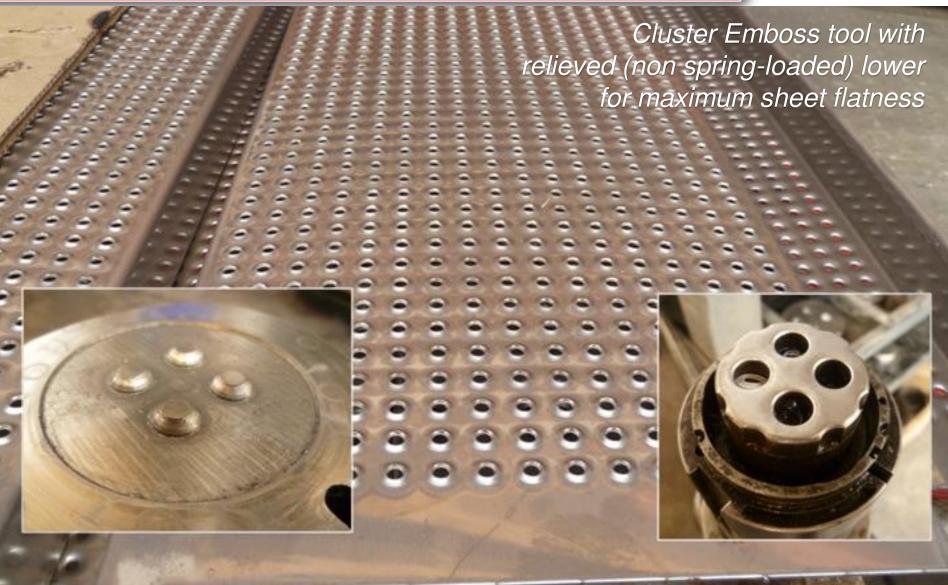




Special Cluster Embossing Solution







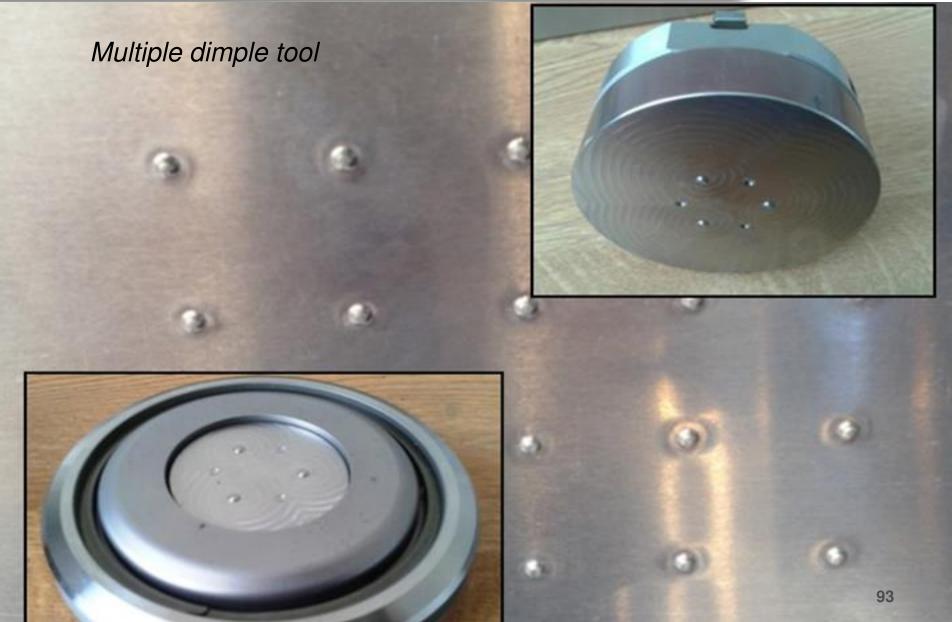






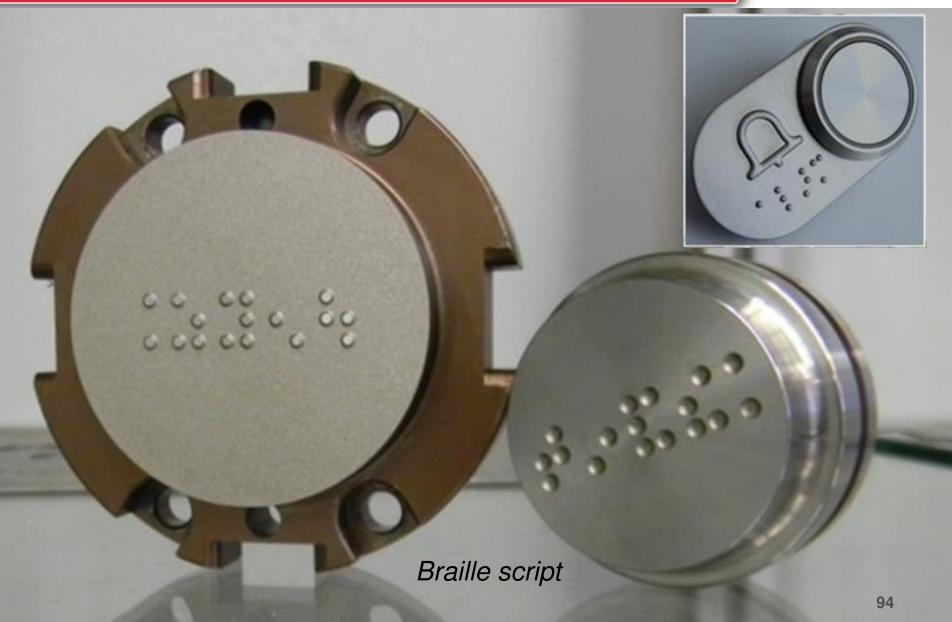
















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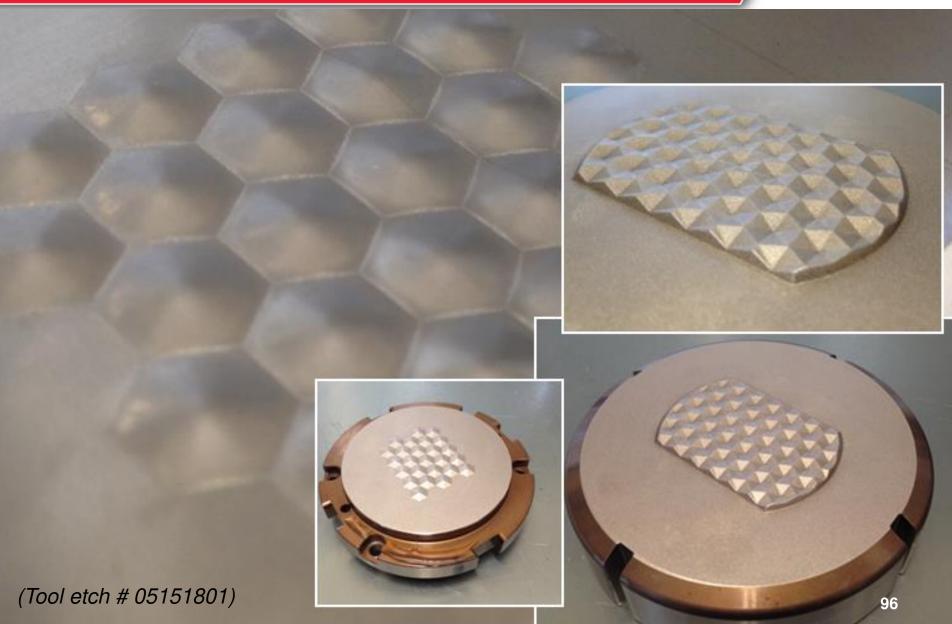


30mm diagonal hex shape in 1.5mm stainless steel (Tool etch# 04147062)



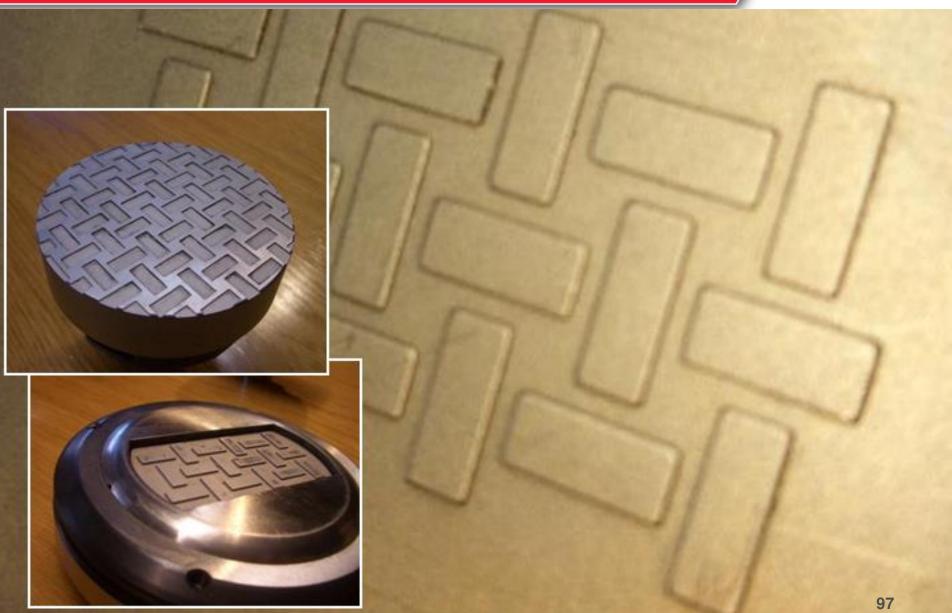








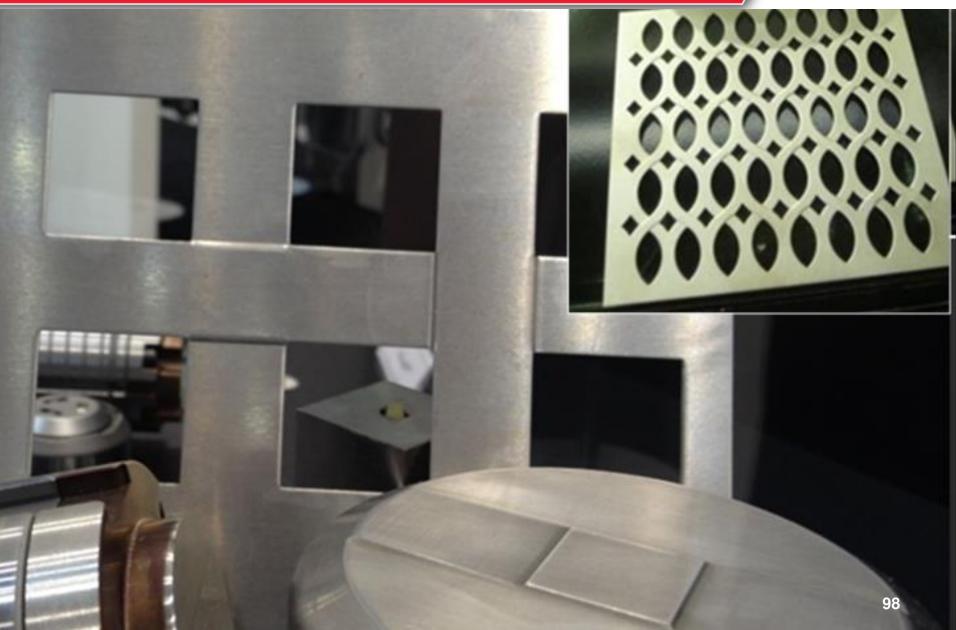




Special Forming







Gripper Line minimizes sheet curling when forming







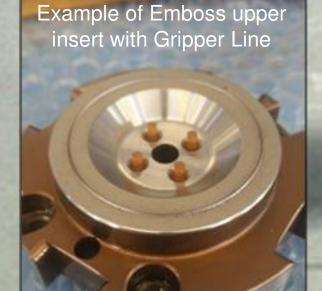
Gripper Line Solutions





PowerMax Die





Sheet border and near holes remain unaffected

Gripper Line Solutions







Gripper Line minimizes sheet curling when forming





Forming Applications on a Pressbrake

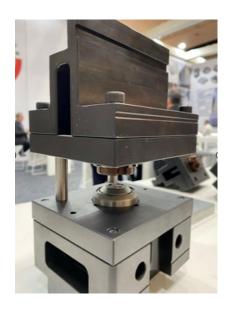




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The UltraForm PBT adapts Ultraform upper and lower inserts for use on a pressbrake. Typical applications are louvers, logos, knock-outs, ...



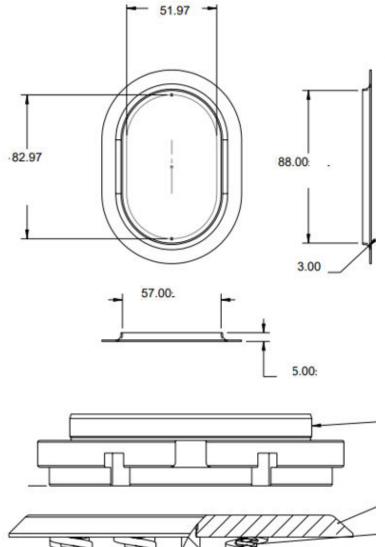


STATION	DESCRIPTION	PART NUMBER
EUROPEAN PRECISION STYLE		
B STATION	SET ASSEMBLY	MATE02654
C STATION	SET ASSEMBLY	MATE02655
D STATION	SET ASSEMBLY	MATE02665
E STATION	SET ASSEMBLY	MATE02666
WILA TRUMPF STYLE		
B STATION	SET ASSEMBLY	MATE02840
C STATION	SET ASSEMBLY	MATE02841
D STATION	SET ASSEMBLY	MATE02842
E STATION	SET ASSEMBLY	MATE02843

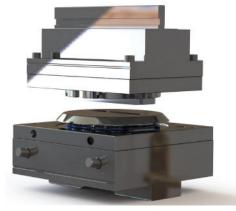
Forming Applications on a Pressbrake







Large E-station extrusion on a Pressbrake (hole pre-cut with laser) (etch# 11227040)





Forming Applications in QCT







Forming Down applications are also possible in QCT style









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4. Logos and Sheet Marking

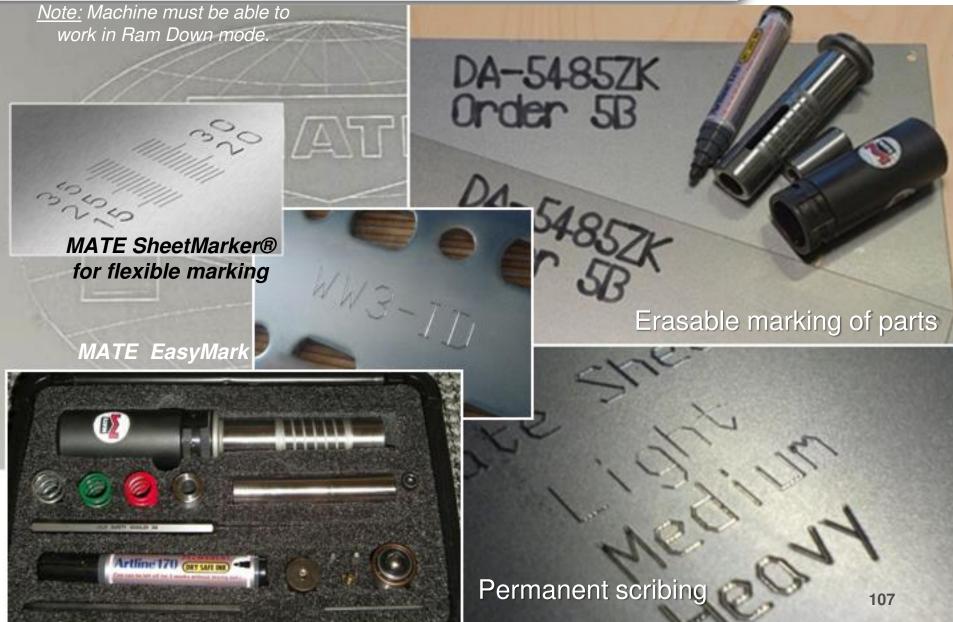


Special Assemblies Gallery

Flexible Marking and Scribing Solutions







Flexible Marking and Scribing Solutions





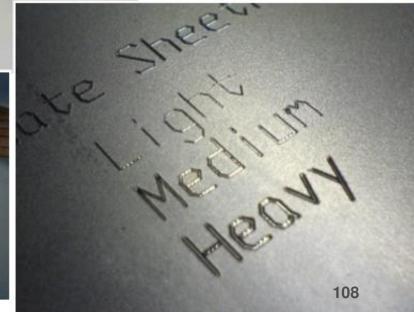






MATE SheetMarker® for flexible marking





Flexible Marking and Scribing Solutions



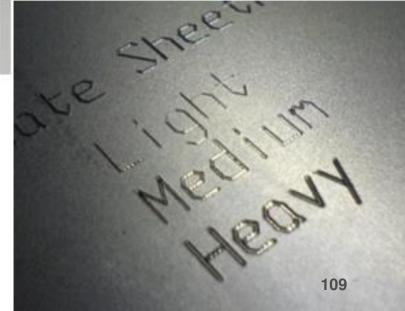


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MATE SheetMarker® for flexible marking



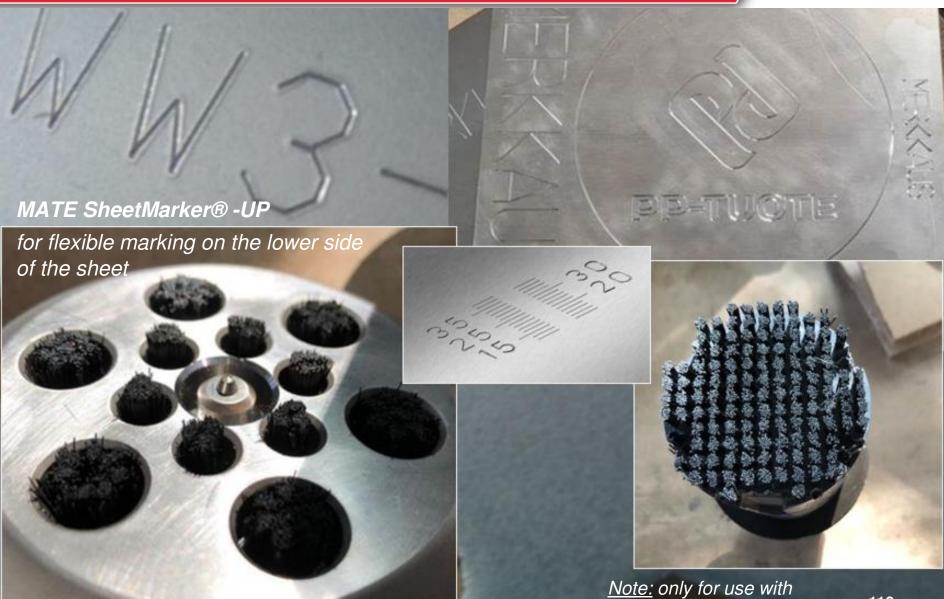


Flexible Marking and Scribing Solutions



Upforming station (C or D)





Alpha-Numeric Stamping





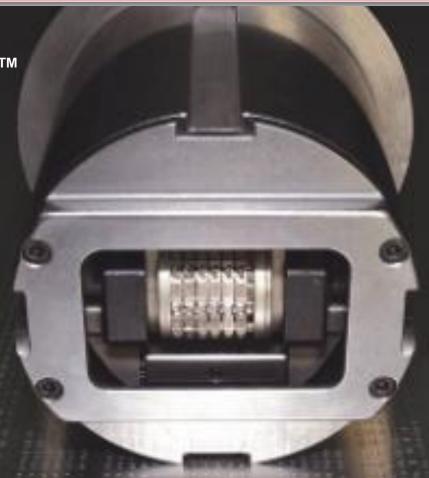


Sequential Numbering









Sequential part identification numbering

For better traceability of aluminum or stainless steel parts, the Enumerator™ can stamp serial numbers as well as a fix number in one hit. A simple internal lever is used to switch between sequential and fixed mode.

40 Station Character Stamping Multitool

(*) Only for

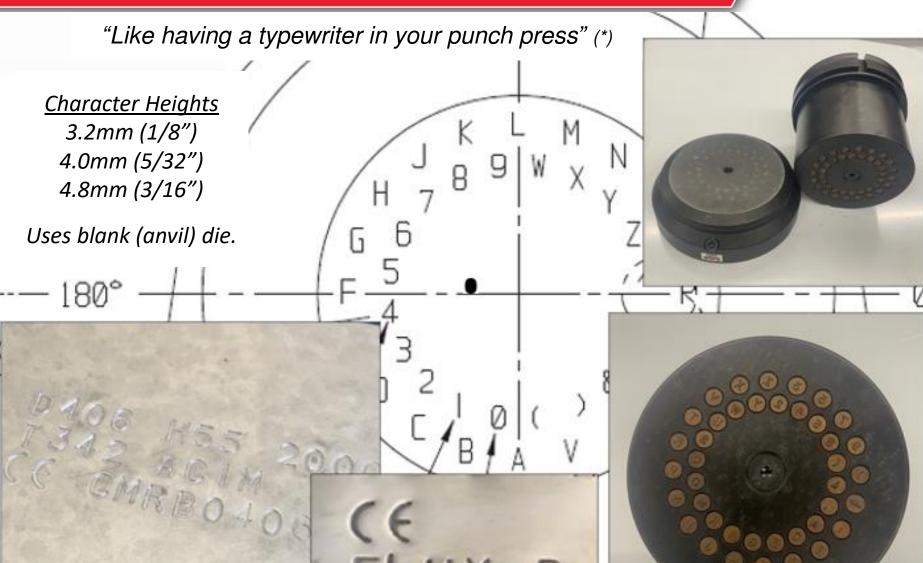
PrimaPower punch presses.





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Logo: V-line





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1. "Standard' inscriptions with V-line incision tool(s)

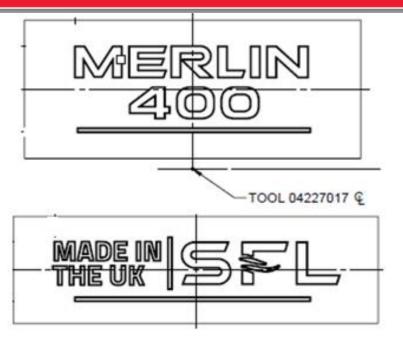


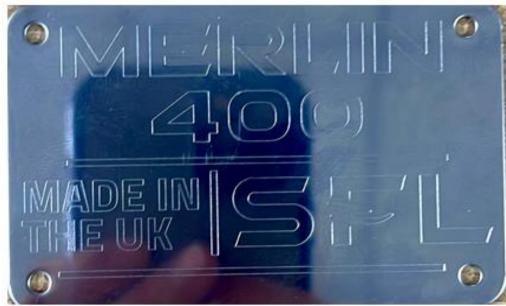


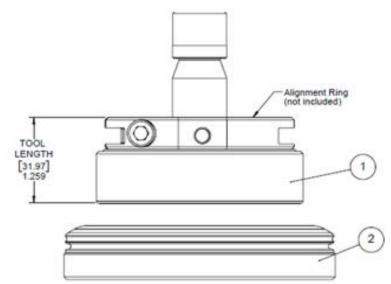
Logo: V-line











Combination of 2 V-line incision tools in 0.5mm stainless steel

(ecth # 04227016 and 04227017)

Logo: V-line





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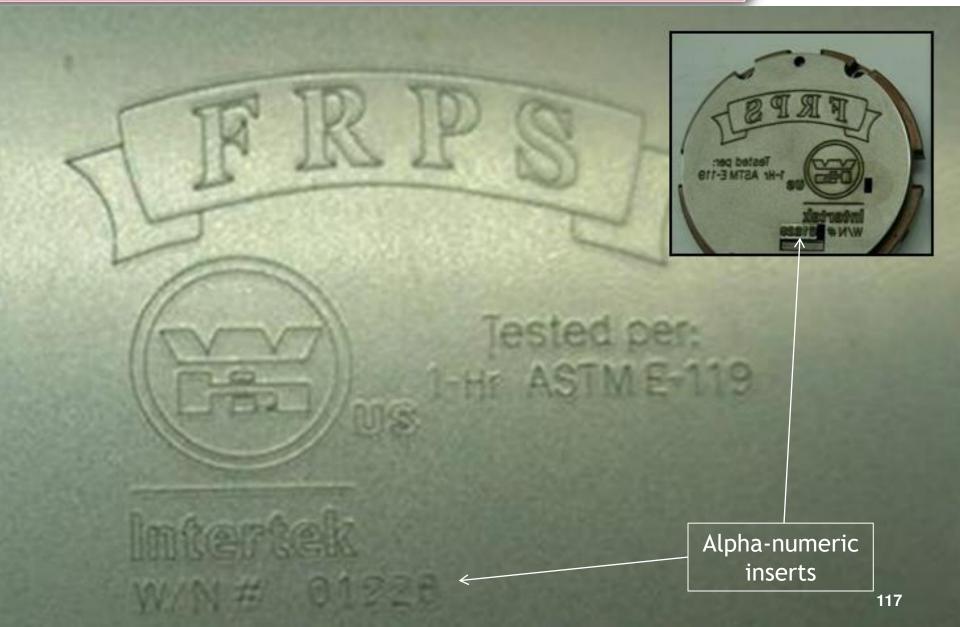




Logo: V-line & insert combination



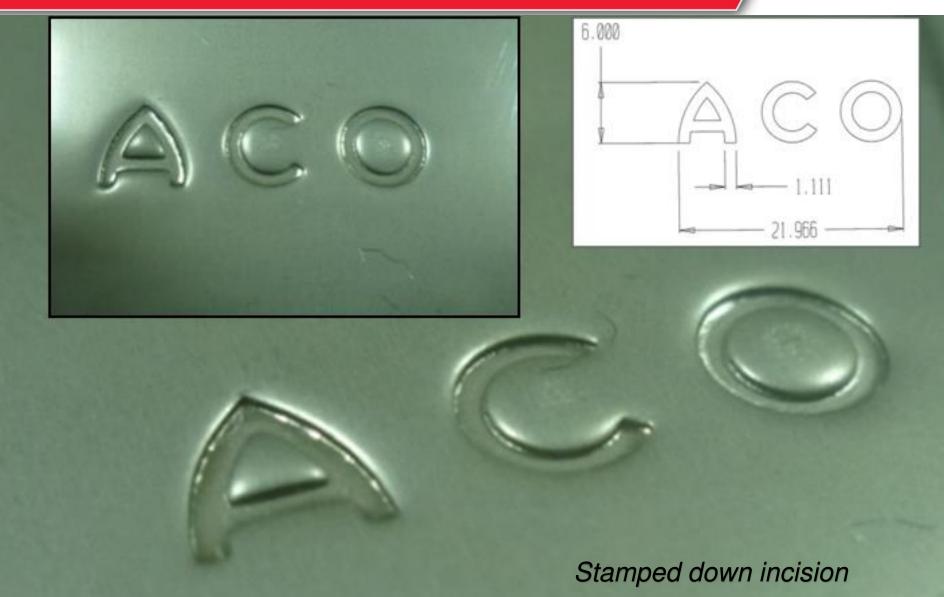




Logo: Stamped













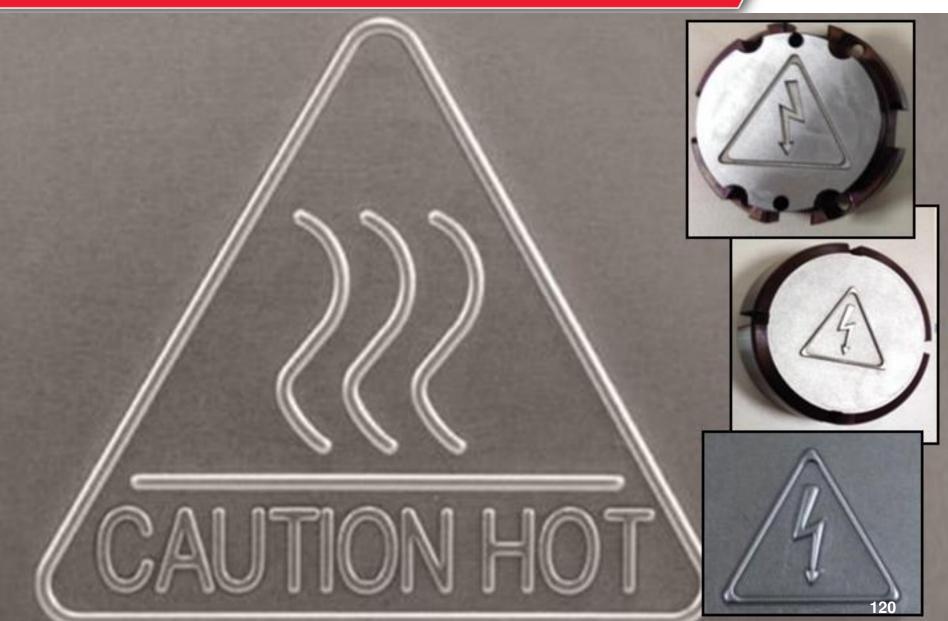




Cold forged raised emboss guarantees readability after painting























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AIR FLOW





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5. Easier Product Assembly



Special Assemblies Gallery

















Quick and secured assembly, eliminating secondary operations









SnapLock Solution





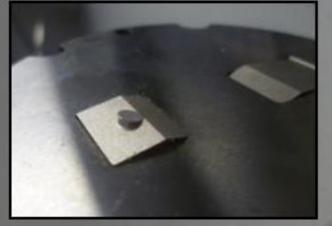


Special SnapLock Assembly Solutions





SnapLock and Lance-and-Form in one tool







HexLock Assembly Solution





Quick and secured assembly, eliminating secondary operations **MATE** HexLock™ 130







Threadform Application



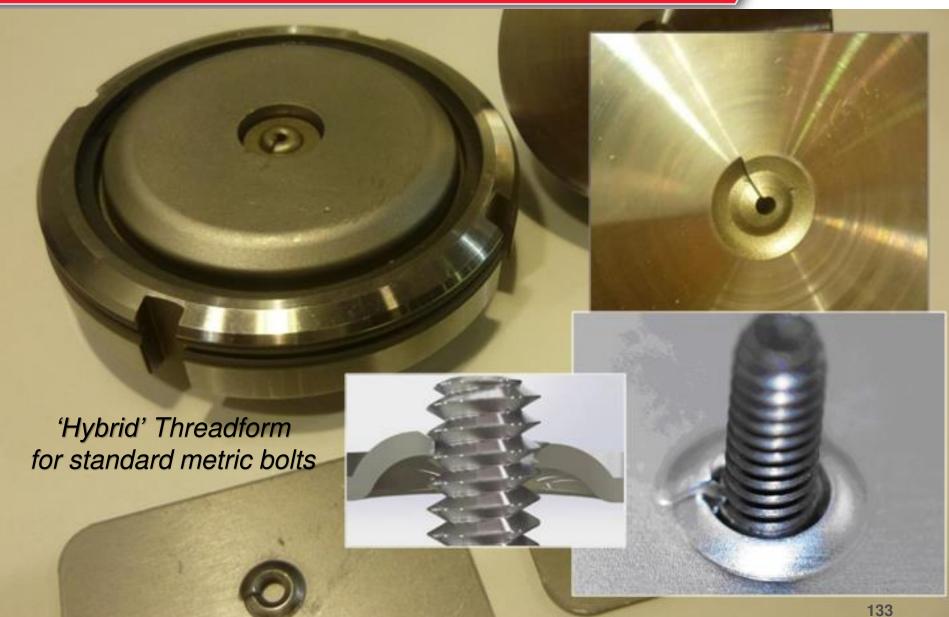




'Hybrid' Threadform Application



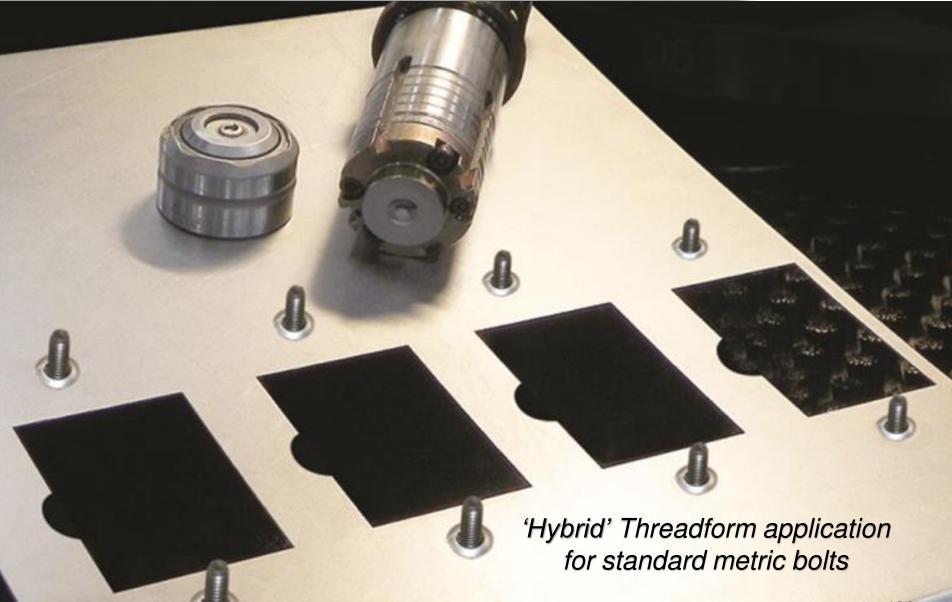




'Hybrid' Threadform Application



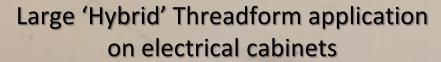




'Hybrid' Threadform Application

















Threadform Application



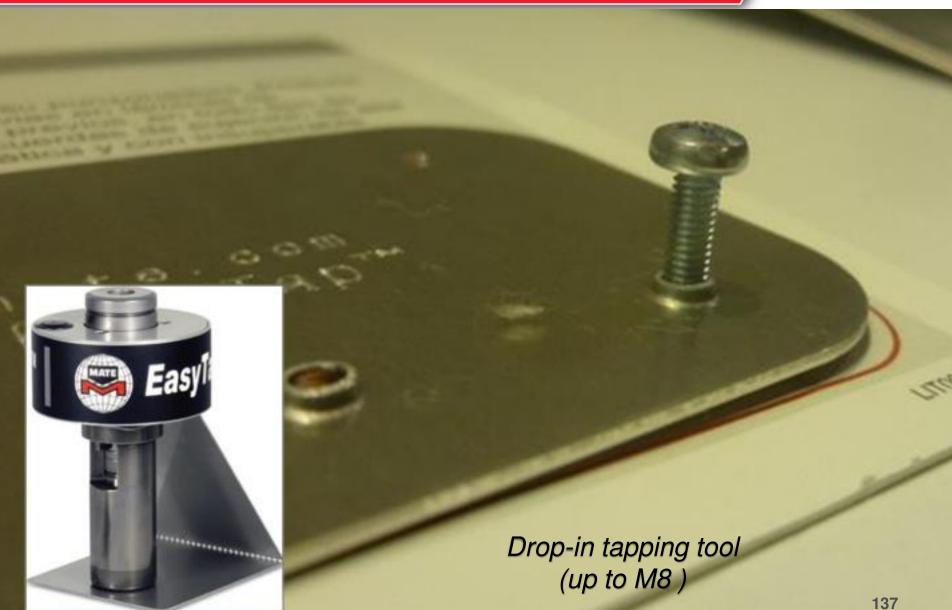




Mate EasyTap







Centerpoint Application





Centerpoints can be made on the top as well as at the bottom of the sheet



Ultraform® Centerpoint-Up

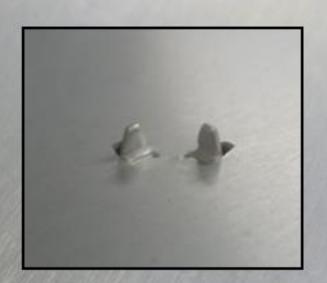


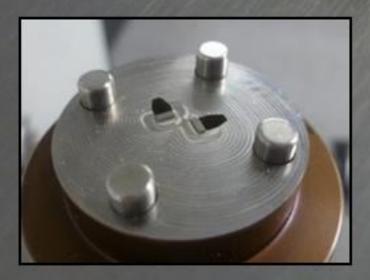


Positioning tabs can make assembly quicker and easier





















Welding solution to keep (etch 03158028) bottom side of sheet flat Bottom of sheet Top of sheet

Assembly Solution 'Positioning Tab'

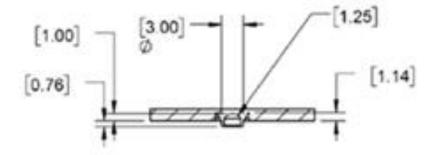


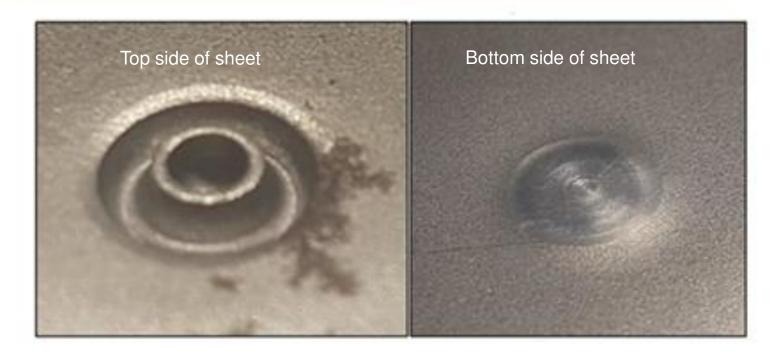


Positioning tab leaves bottom side of sheet flat, and without any mark after painting (Recommended for sheet thickness 0,8 – 1,6mm)

Counterpart only needs a round hole

Etch 04184140 (mt'l 1.0-1.2mm) Etch 04184143 (mt'l 1.5-1.6mm)

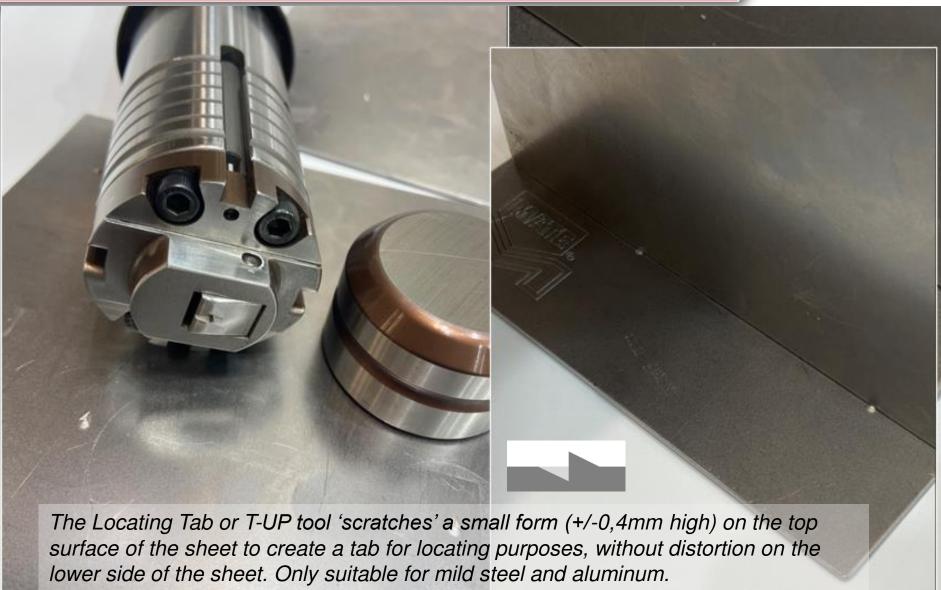




Assembly Solution 'Locating Tab'



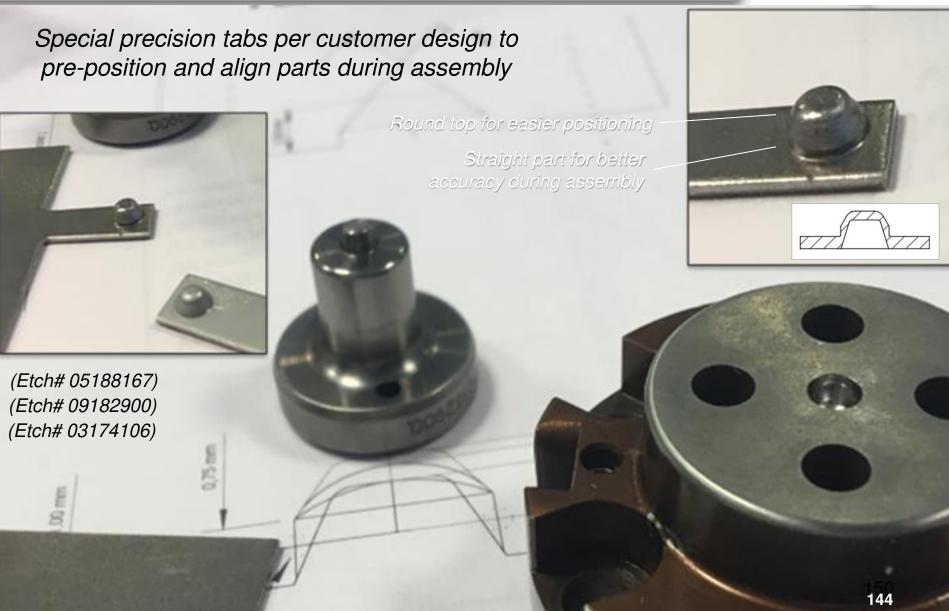




Special Shearbutton Tab







Hinge Solutions



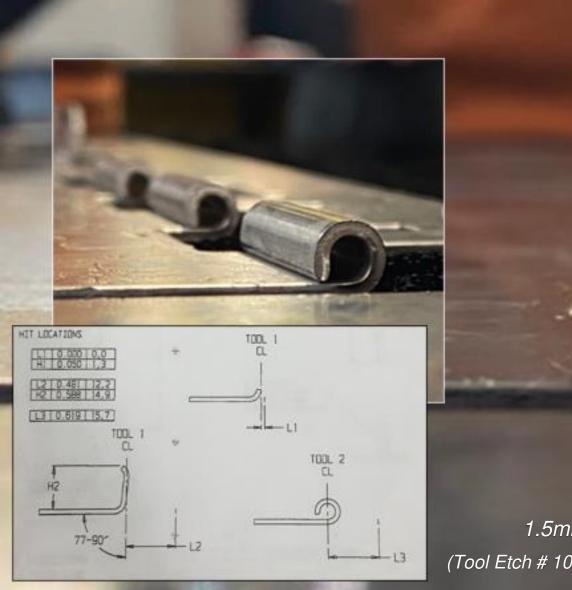




Hinge Solutions





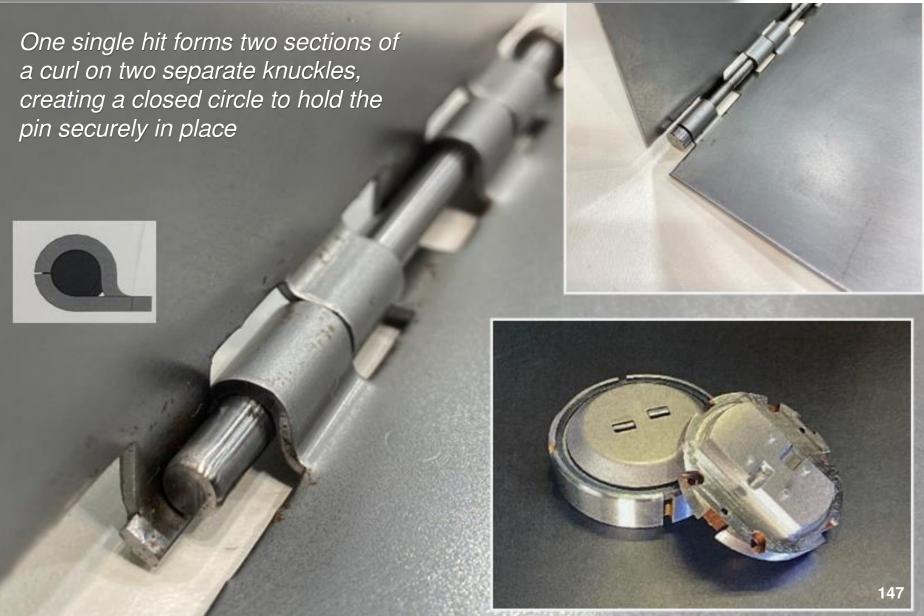


Make your hinges integral with the part 1.5mm Aluminum (Tool Etch # 10217007 and 10217008) 146

One-Hit-Hinge Solution







Scoring Solutions / Foil Cutting





Clear areas for secondary operations with MATE SheetMarker ®



Note: Machine may need special software function.

Scoring Solutions / Foil Cutting





Clear areas for secondary operations



Note: Machine must be able to work in Ram Down mode.





Scoring Solutions / Foil Cutting







Advanced Film Cutter





RESPECT • SUPPORT • INSPIRE



Cutting plastic film without leaving marks (best use with Brush Die)

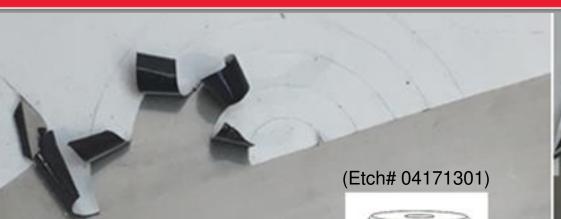
Note: Machine may need special software function.

Advanced Film Cutter





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Cutting plastic film without leaving marks (best use with Brush Die)

Note: Machine may need special software function.





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6. Punching and Forming Combined



Special Assemblies Gallery

Pierce-and-Emboss Up



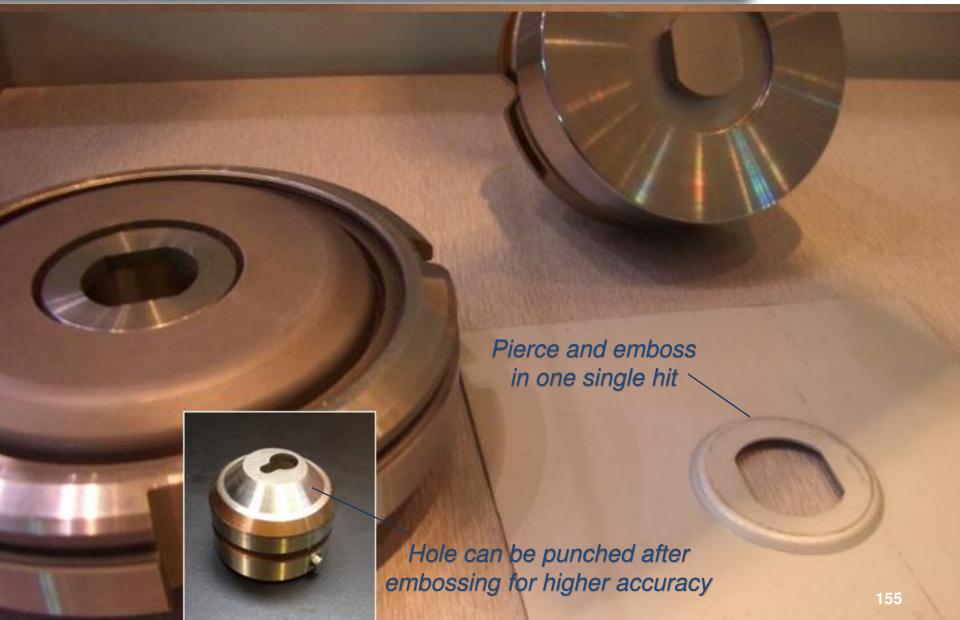


Pre-pierce and Emboss in one single hit

Pierce-and-Emboss Up







Pierce-and-Emboss Down









Pierce-and-Emboss down



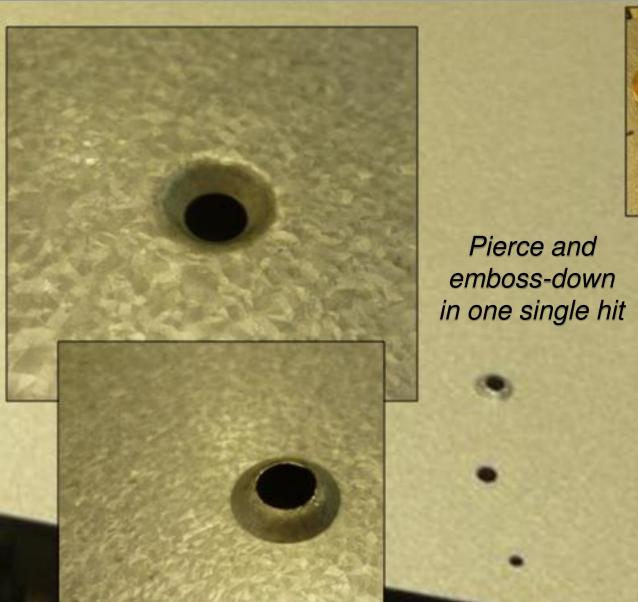


Pierce and emboss-down in one single hit

Pierce-and-Emboss down











Triple Pierce-and-Extrude (down)





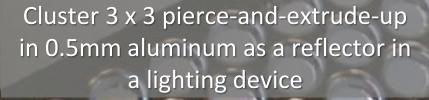


Cluster Pierce-and-Extrude (up)



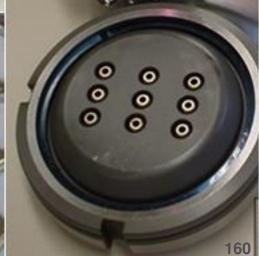


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etch #07013127



Obround Pierce-and-Embossed Countersink down







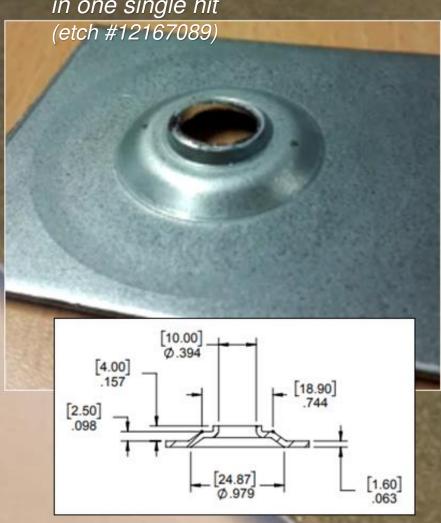
Pre-pierce - Extrusion - Emboss





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Emboss and extrusion in one single hit



Pre-pierce, extrusion and emboss in one single hit



Progressive Applications











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Two or three progressive hits required per part, but every hit finishes a part.

























Special Extrusions and Embosses



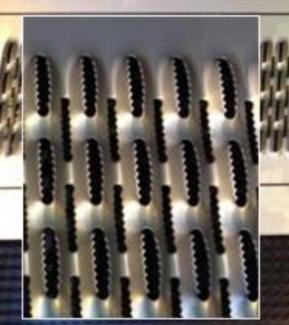


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extrusions and embosses





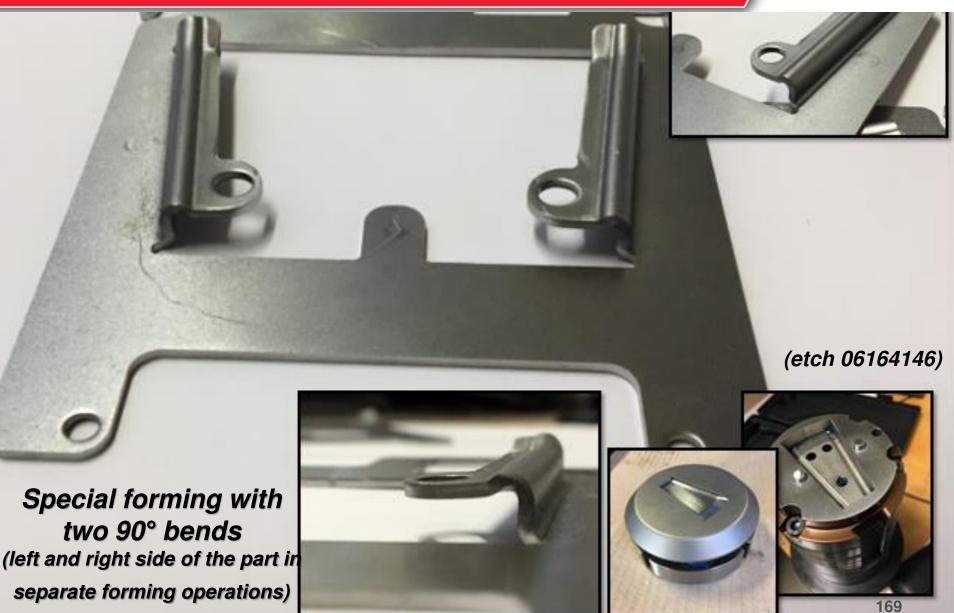




Special 'Z'-Bend Tool



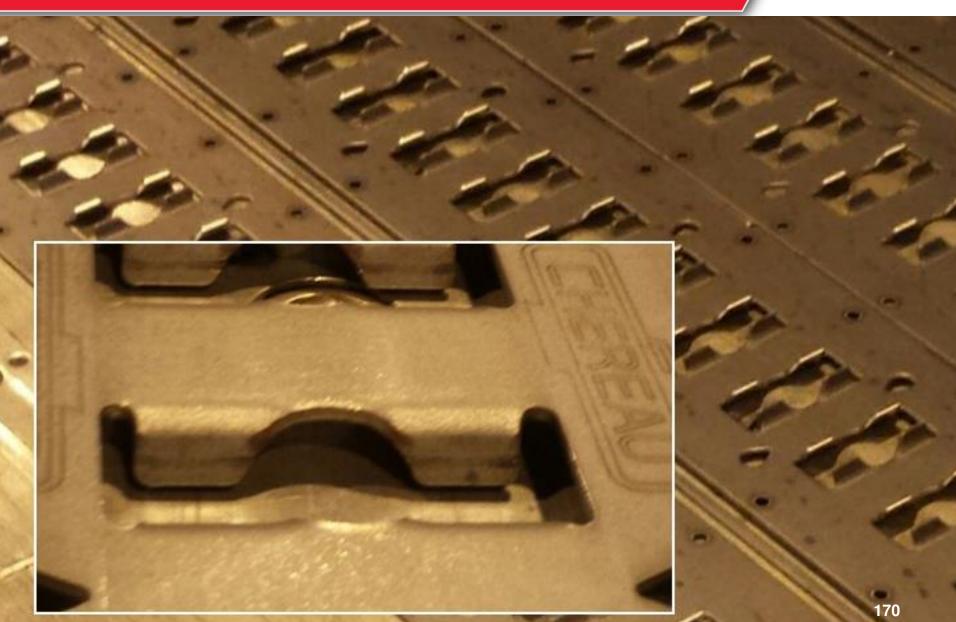




Special Forming Application







Special Embosses







Special Embosses







Small embossed parts





Small part application with 3 different tools (pierce, emboss, blanking)



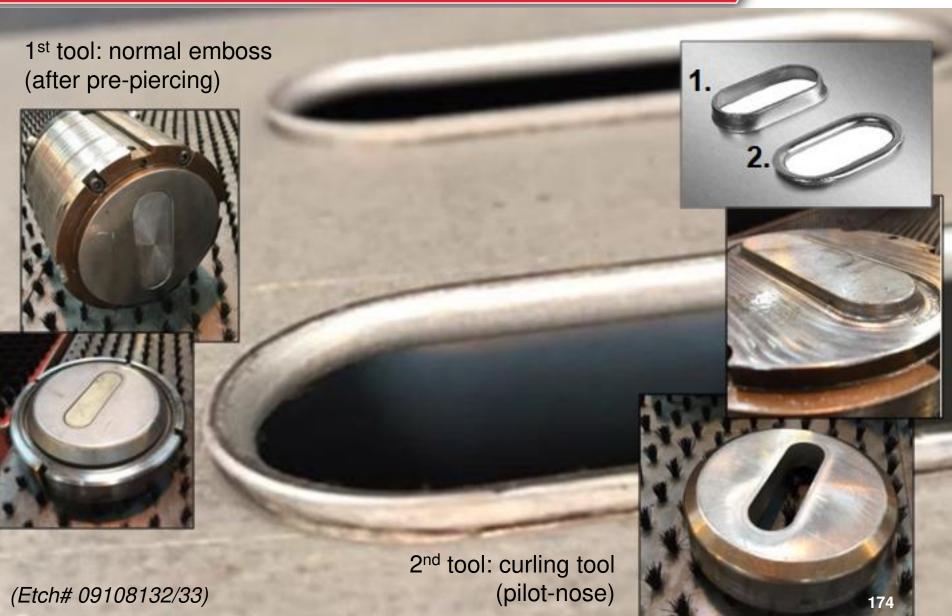




Curled Embosses



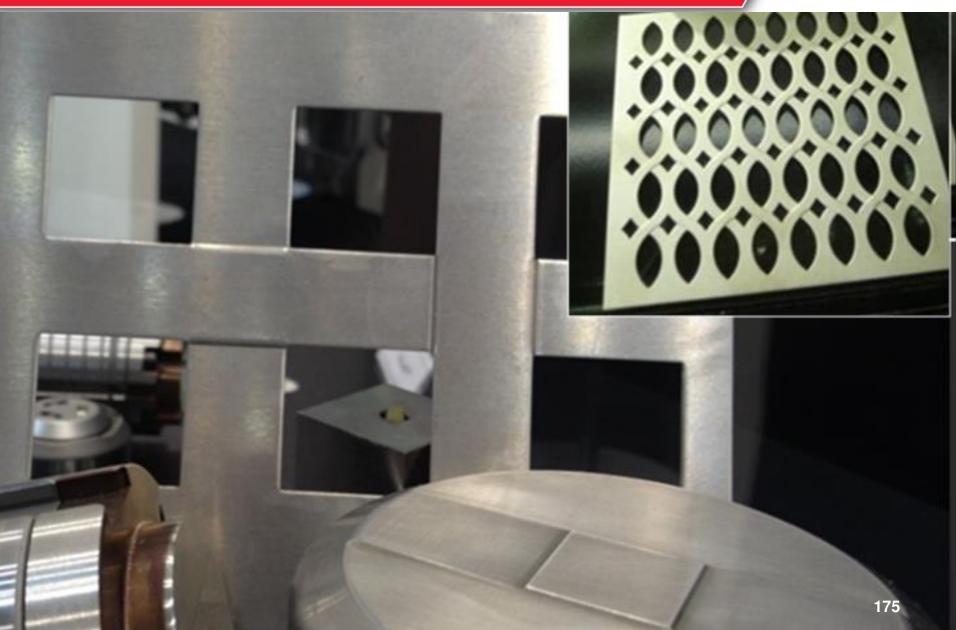




Special Forming











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7. Bending Applications



Special Assemblies Gallery

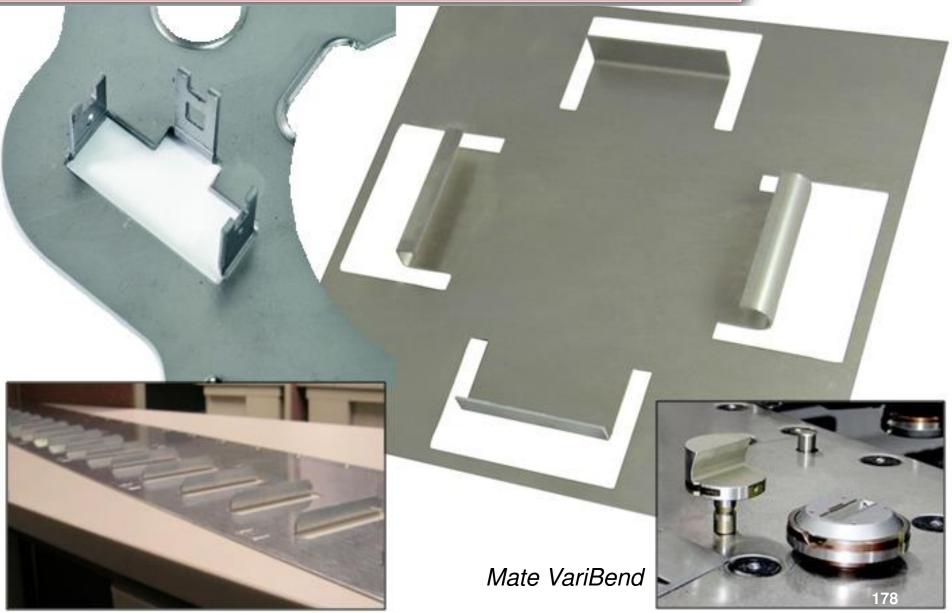






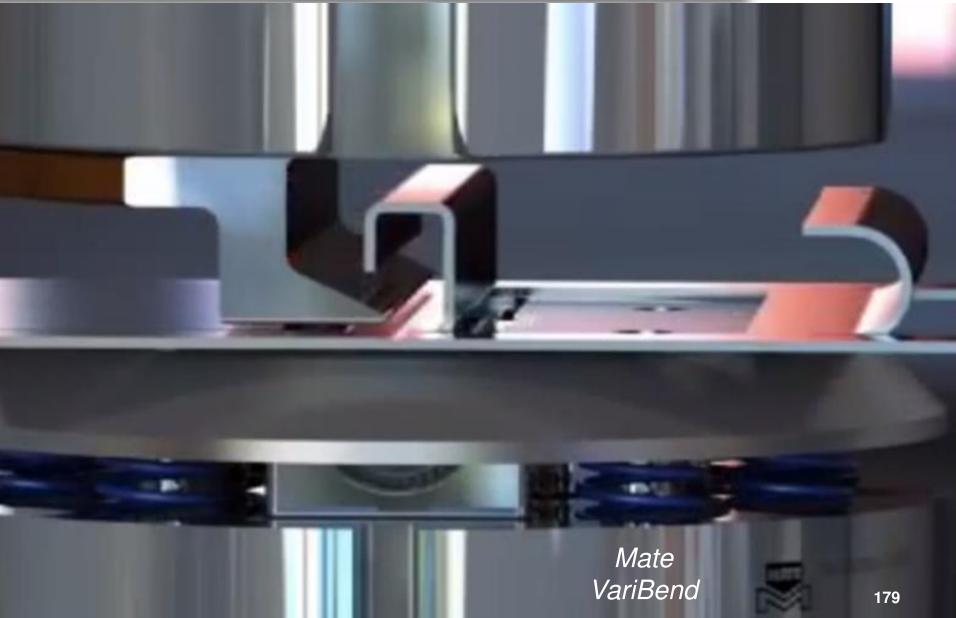






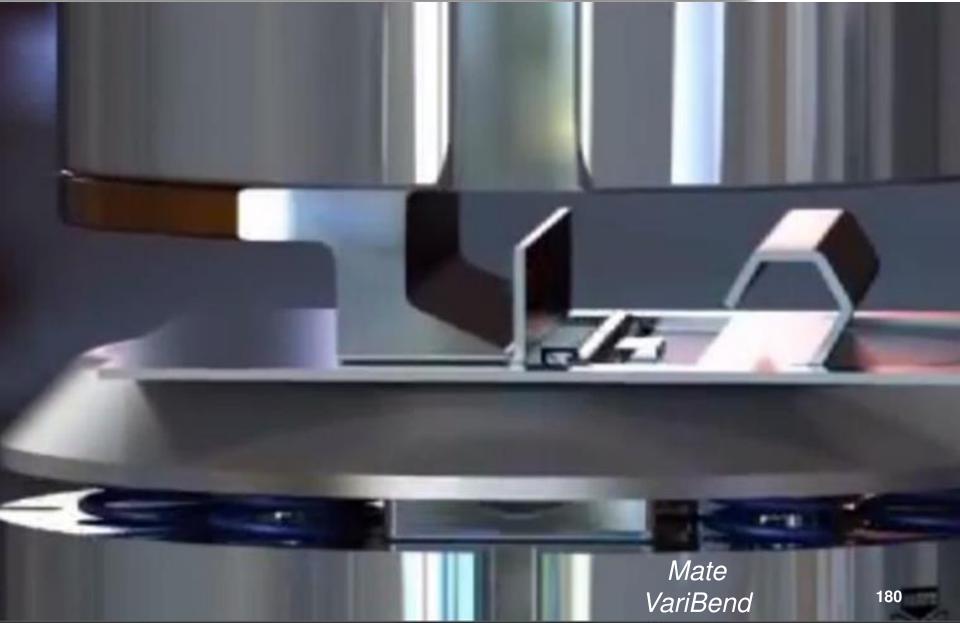








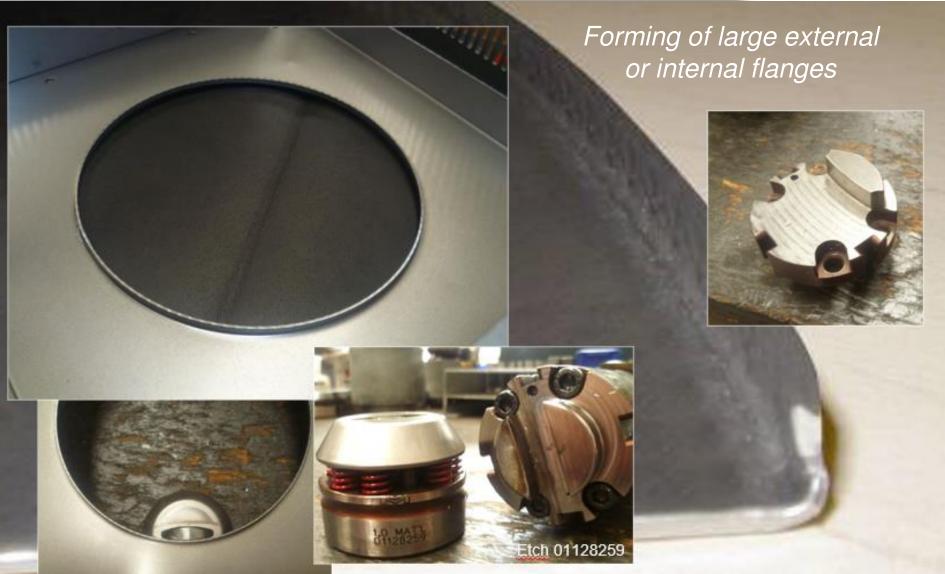




Flange Forming Applications

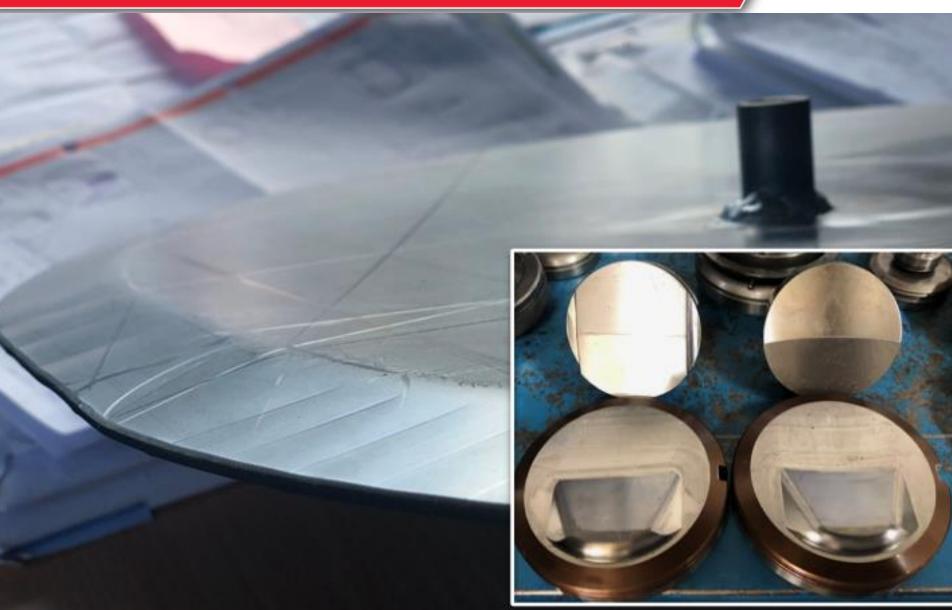












Hemming Application





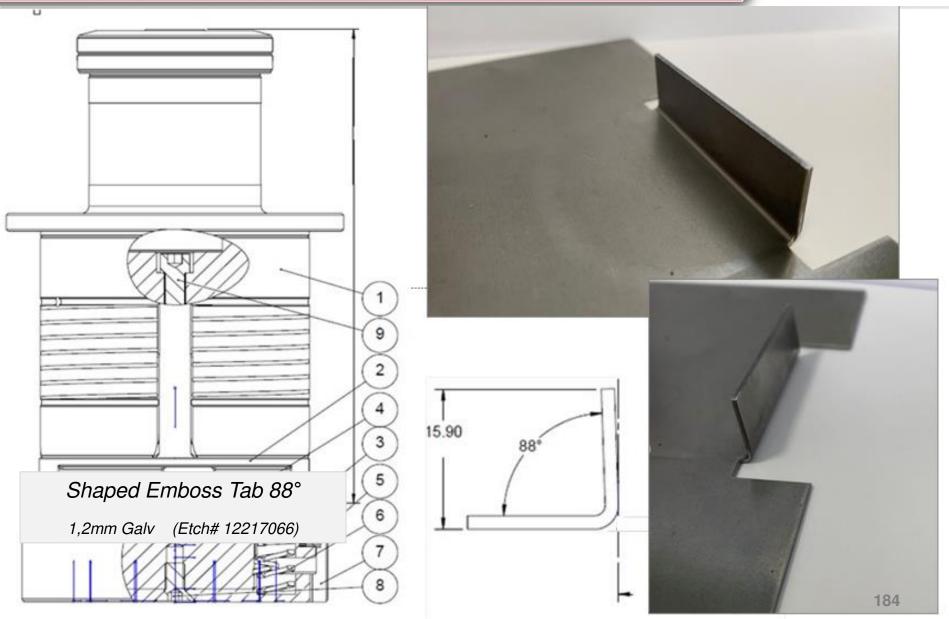


Bending Application over 90°











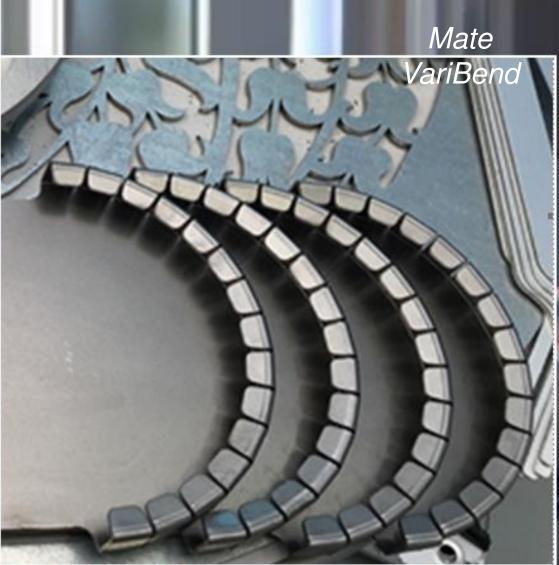












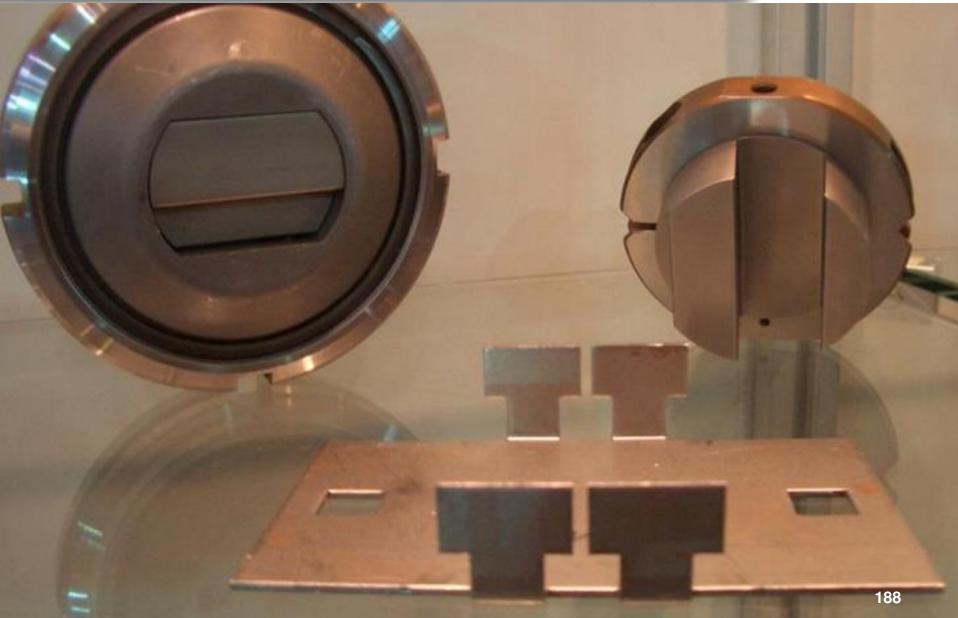
















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8. EasyBend and EasySnap



Special Assemblies Gallery

EasyBend Applications







EasyBend Up

EasyBend Down

190

EasyBend Applications



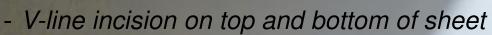




EasyBend can help making sharp and straight bends on the press brake





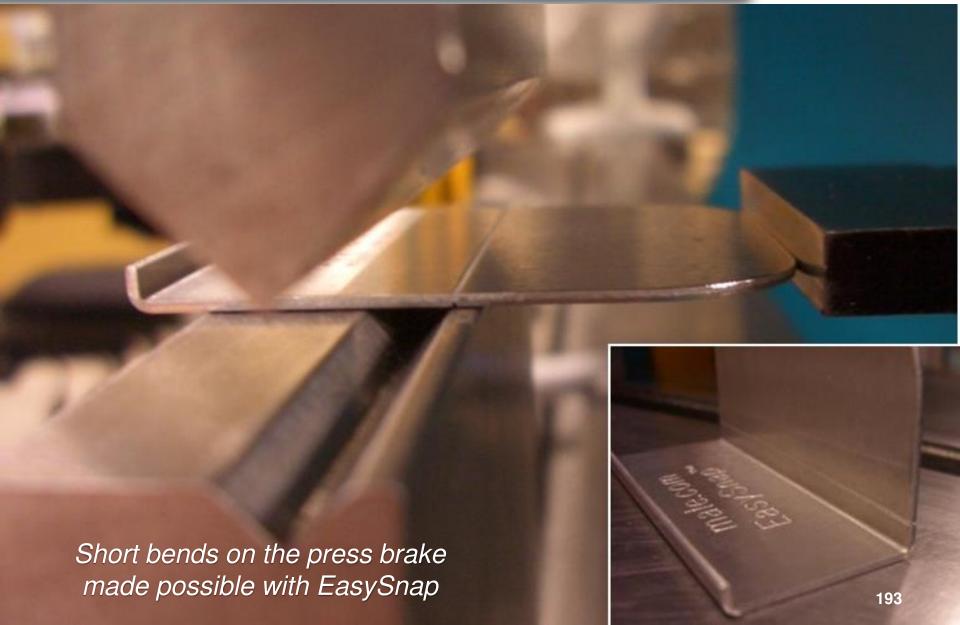


- Ideal for separation of parts
- Microjoint Solution for smoother edges





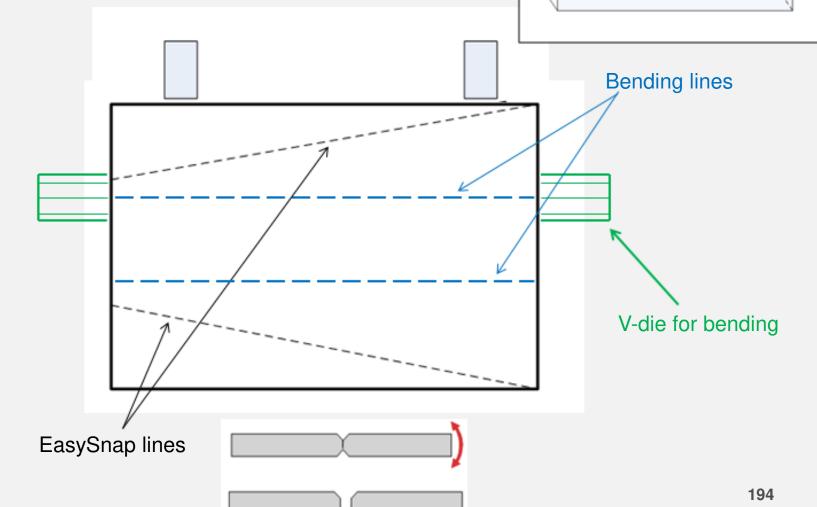








EasySnap lines can solve bending problems ... and leave no burr :







Use of EasySnap lines to separate triangular shaped parts at the end of a punch-bend line (Etch# 06227021)





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9. Deburring Solutions

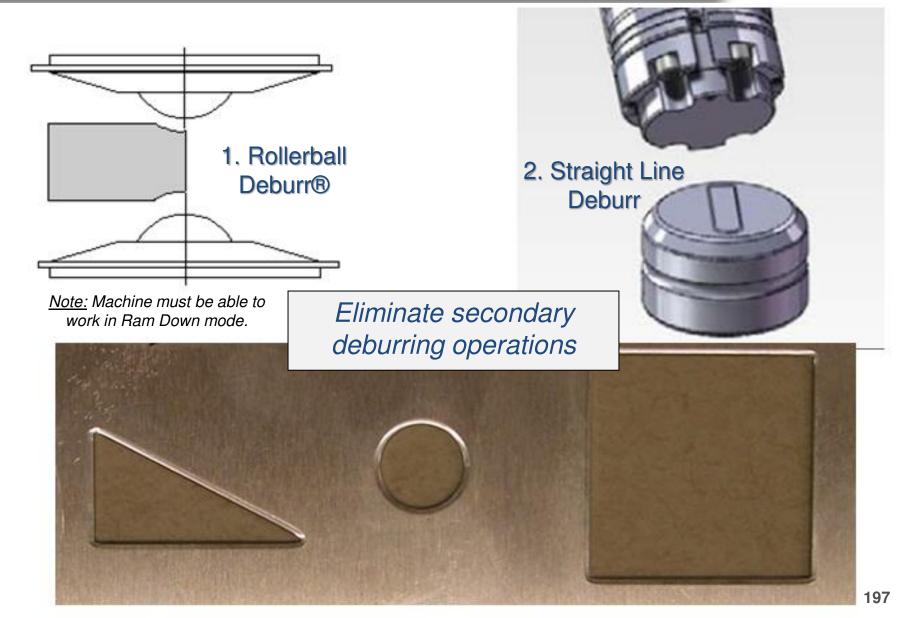


Special Assemblies Gallery

Deburring Solutions











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10. Ribs and Offsets



Special Assemblies Gallery

Roller Applications





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Note: Machine must be able to work in Ram Down mode.

Roller Applications





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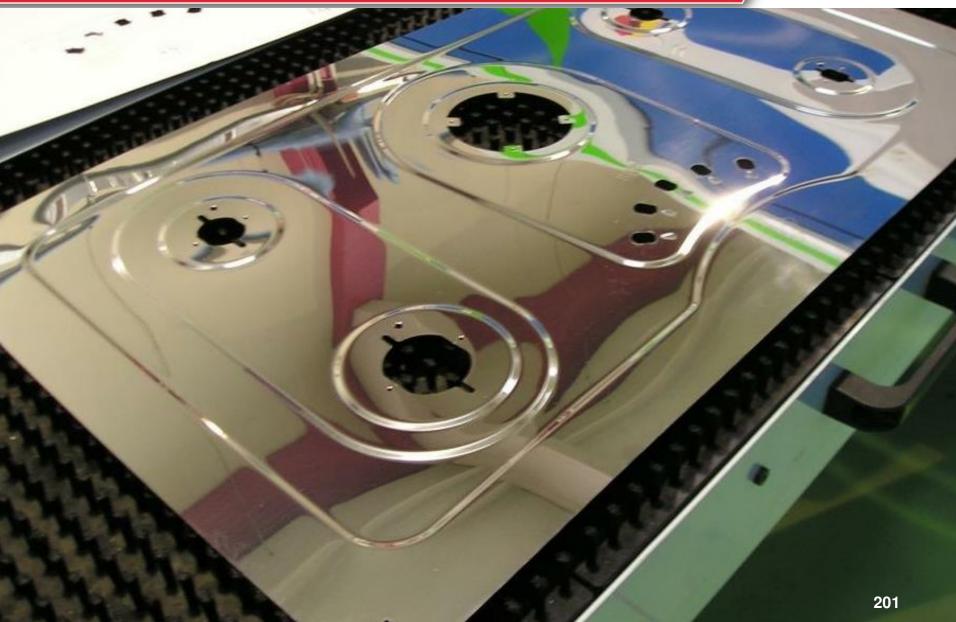


Note: Machine must be able to work in Ram Down mode.

Roller Applications







Mate Roller Solutions







Rolling Pincher

Rib/Bead Solutions













Continuous Beading



















Punching Adds Value!





