

TOOLING FOR PUNCH PRESSES





CATALOG

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COMPANY PROFILE

A dynamic team

Matrix improved even further its commitment to innovation after joining Salvagnini group in 2017 and thus widening its product range, services and R&D department.

Thanks to the synergy with the reference worldwide machines manufacturer, Matrix redefines today the tools of tomorrow.

The customer, a unique partner

Each customer deserves special care, that's why Matrix doesn't simply offer a product but also a specialized consulting service and technical support, in order to reach the high competitive level required by the market.

Punches and dies born to last

The high reliability and life lasting which characterize Matrix' products, are the result of experience, devotion, constant research and use of superior quality raw materials.

Innovative technologies for high performances

Matrix invests on the best technologies: from designing software to the most modern planning techniques, from cutting edge machineries to sophisticated control systems.

Energies oriented to the maximum accuracy

The constant investments in machineries for our production is a must in order to keep the elevate standard level required by processing.







WHAT'S NEW?



RollFORM tooling are an evolution of our JetFORM range for high speed deformations processing on punch press machines.

An efficient solution for emboss and offsets production on sheet metal, as well as to produce a partial cut in the sheet metal to allow easy part separation.

RollFORM tooling grants costs reduction with interchangeable inserts.

Insert sets to work on a wide range of materials and designed to be used on specific material and thickness. Standard insert sets are designed to produce a 3,2 mm height deformation, while special insert sets are designed for heights between 1,5 and 4,7 mm.

RollFORM tooling require hydraulic or electrical punching machines with ram stroke control and proper software.

JETFORM

Jetform, line of tools for sheet metal forming, for efficient machine performances. Processings available from extrusions to engravings, clips and embosses and many others.

JETFORM inserts holder line is available on B, C, D and E station, with interchangeable inserts to reduce the costs for a new forming.

To better adapt to the specific customer's needs, Matrix' offer includes two types of inserts holders. The Green Series characterized by an accurate step adjusting of tool height; the best choice for punching machines with imprecise or missing stroke adjusting.

The White series, without adjusting, exploits the stroke adjusting of the most recent punching machines.

All inserts holders are manufactured with a total components lubrication system; this works by getting a specific oil from the top, either automatically or manually.





LUBRIFICATION: A MUST

It's the first rule to apply; being punching a shearing and extrusion process, in order to get a good result, lubrication of the shearing area is a must. Lubrication has an essential role on punching machines, particularly on punching stamps.

During punching phases, small quantities of material get stuck to the tool surface.

A lubricant oil with proper characteristics acts as a barrier between tool and material reducing significantly both friction and material build up on the tool surface, improving therefore the tool life.

On machines without an automatic lubricating system please daily fill up the central bore with sliding oil and always to each equipping.

Inobservance of this rule will cause an excessive insert holders wearing.

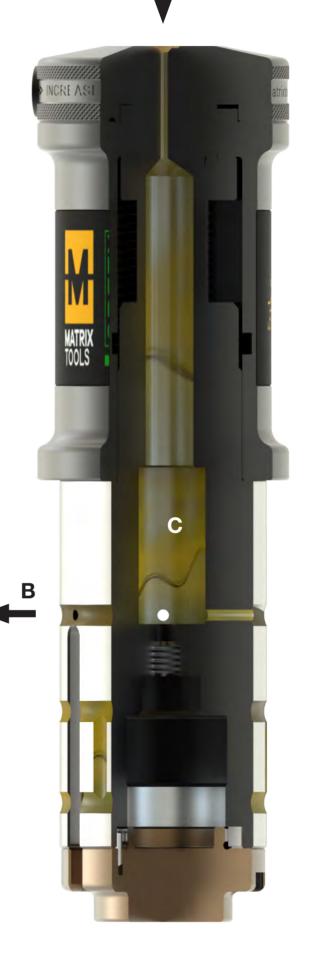
With the schema on the left, valid for B station, you can see the course of the lubricant.

The letters respectively indicate:

- A Bore for lubricant liquid
- **B** Bore to let the lubricant liquid into the outer punch holder walls and its housing contact area
- C Tank for lubricant

The oil, by lubricating the tool cutting part, improves shearing and pulling

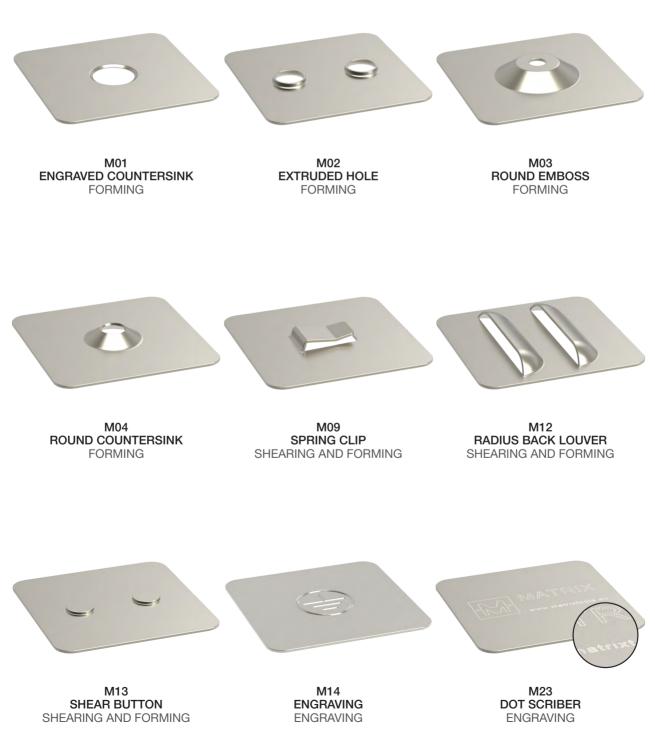
Matrix can supply lubricant and shearing oils for different working requirements. Evaporable oils are also available whenever grease waste parts must be avoided.



COMMON FORMING

jetform

The most common forming are embosses, countersinks, engravings, logos, louvers and many others. The great diffusion of these forming allows to handle a wide offer of standardized products, reducing drastically delivery times. This type of forming is continuously growing, so please contact our sales department for assistance.





SPECIAL FORMING

jetform

Our technical department is available to develop the best solutions for our customer's requirements. Thanks to this versatility we have no limits to satisfy the most complex requirements. The constant research of new solutions extends the possibility on the forming field, adding to normal engraving also tridimensional images.

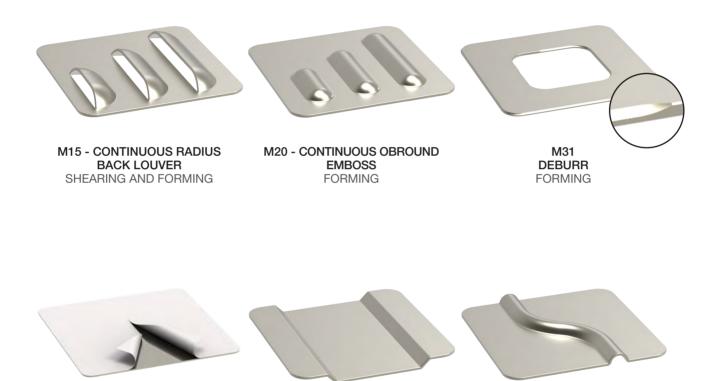


CONTINUOUS FORMING AND SPECIAL APPLICATIONS

jetform

The most recent technical solutions implemented on the modern punching machines for much better tools control than in the past, gives great impulse to new applications. New special tools have been developped to shear the protecting film laid on the sheet metal or continuous embosses or to deburr sheared parts.

These are only some examples of what you could get from your punching machine just using Matrix products.



M32 FOIL SLITTING TOOL ENGRAVING

M41 ROLLFORM OFFSET FORMING M42 ROLLFORM RIB FORMING



TOOLING FOR PUNCH PRESSES



JETFORM HOLDERS

CATALOG

JETFORM - WHITE SERIES



WHITE SERIES

White Series insert holders, for extremely advantageous forming processes on punching machines recently manufactured, taking advantage from the stroke adjusting.



Tools for the most common formings are available for a quick delivery. Our sales department is at your complete disposal to provide you with updated list.

JETFORM GREEN SERIES

(Adjustable Height)



GREEN SERIES

Accurate tool height adjusting by mean of 0.08 mm steps which characterize Green Series insert holders, for the maximum performances on punching machines with imprecise or without stroke adjusting.



Tools for the most common formings are available for a quick delivery. Our sales department is at your complete disposal to provide you with updated list.





TOOLING FOR PUNCH PRESSES



ROLLFORM

CATALOG





Upper Insert Holder

OFFSET

Support

OFFSET Lower Insert

Upper Insert



Lower Insert Holder

COMPLETE TOOL: FBB69200BJ

INSERTS SET

Insert sets to work on a wide range of materials and designed to be used on specific material and thickness.

Standard insert sets are designed to produce a 3,2 mm height deformation, while special insert sets are designed for heights between 1,5 and 4,7 mm.

RollFORM tooling require hydraulic or electrical punching machines with ram stroke control and proper software.



OFFSET Upper Insert



Support



OFFSET Lower Insert



Lower Insert Holder



M42 ROLLFORM- RIB





Upper Insert Holder



Lower Insert Holder

COMPLETE TOOL: FBB69200BL

INSERTS SET

Insert sets to work on a wide range of materials and designed to be used on specific material and thickness.

Standard insert sets are designed to produce a 3,2 mm height deformation, while special insert sets are designed for heights between 1,5 and 4,7 mm.

RollFORM tooling require hydraulic or electrical punching machines with ram stroke control and proper software.



RIB Upper Insert



Support



RIB Lower Insert



Lower Insert Holder

M43 ROLLFORM- PINCHER



COMPLETE TOOL: FBD79200BO

INSERTS SET

Insert sets to work on a wide range of materials and designed to be used on specific material and thickness.

RollFORM tooling require hydraulic or electrical punching machines with ram stroke control and proper software.



Lower Insert Holder



Lower Insert Holder



TOOLING FOR PUNCH PRESSES



JETFORM INSERTS SETS

CATALOG

M01 ENGRAVED COUNTERSINK



The inserts are shown to obtain an up forming operation.

For down forming operations, please contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.

It is necessary to supply technical sheet of the screw in case the purpose of the forming is to house a screw with the top part under the sheet plan.



Lower Insert Holder



Upper Insert



Stripper

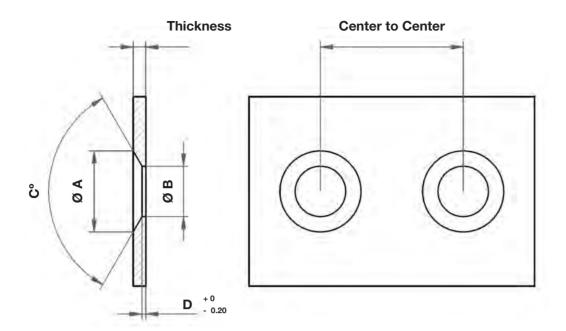


Springs



Lower Insert





Required Measures (indicate the most important ones)										
Α	A B C° D Thickness C. to C.									

Dimensional Limits									
Material	C°	Thickness	Maximum Deformation (Thickness - D)						
		1.20÷2.00	85 %						
Mild Steel	Maximum 100°	2.10÷3.00	60 %						
		Over 3.00	50 %						
Aluminium	Maximum 100°	Over 1.20	85 %						
		1.20÷2.00	85 %						
Stainless Steel	Maximum 100°	2.10÷3.00	60 %						
		Over 3.00	50 %						

M02 EXTRUDED HOLE



The inserts are shown to obtain an up forming operation.

For down forming operations, please contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.

This forming requires a suitable pre hole. Multiple close formings might bend the sheet metal.

Each set of insert is composed of all the following parts.

all lower inserts are coated with B coating.





Lower Insert Holder



Spring

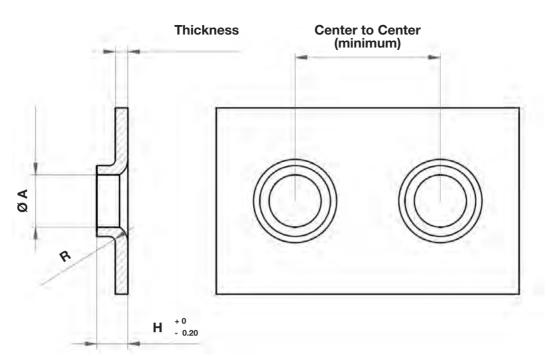


Ejector



Upper Insert





Required Measures (indicate the most important ones)								
Thread	Α	Thickness	н	R	C. to C.			

Dimensional Limits							
Α	Н	Thickness					
Maximum 10	Maximum 2,5 x Thickness	Maximum 5					

	Thick Turret B Station Standard Insert Sets										
Thread	Α	Pre Hole	Thickness	Inserts Set Code	Н	R	C. to C.				
			0.80÷1.00	FB09237421.305	2.5	0.5	10.8				
M4	3.3	2.0 ±10%	1.10÷1.30	FB09237421.979	3.0	0.6	11.1				
			1.40÷1.60	FB09237421.A43	3.75	0.75	11.55				
			0.80÷1.00	FB09237422.305	2.5	0.5	11.7				
M5	4.2	2.5 ±10%	1.10÷1.30	FB09237422.979	3.0	0.6	12.0				
			1.40÷1.60	FB09237422.A43	3.75	0.75	12.45				
		3.0 ±10%	0.80÷1.00	FB09237423.305	2.5	0.5	12.5				
M6	5.0		1.10÷1.30	FB09237423.979	3.0	0.6	12.8				
			1.40÷1.60	FB09237423.A43	3.75	0.75	13.25				
			0.80÷1.00	FB09237424.305	2.5	0.5	14.3				
M8	6.8	4.1 +10%	1.10÷1.30	FB09237424.979	3.0	0.6	14.6				
IVIO	0.0	4.1±10%	1.40÷1.60	FB09237424.A43	3.75	0.75	15.05				
			1.90÷2.10	FB09237424.217	5.0	1.0	15.8				
			0.80÷1.00	FB09237424.305	2.5	0.5	16.0				
M10	8.5	51+1004	1.10÷1.30	FB09237424.979	3.0	0.6	16.3				
	0.0	5.1 ±10%	1.40÷1.60	FB09237424.A43	3.75	0.75	16.75				
			1.90÷2.10	FB09237424.217	5.0	1.0	17.5				

M03 ROUND EMBOSS







Lower Insert Holder

The inserts are shown to obtain an up forming operation.

For down forming operations, please contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.

This forming requires a suitable pre hole. Multiple close formings might bend the sheet metal.

It is necessary to supply technical sheet of the screw in case the purpose of the forming is to house a screw with the top part under the sheet plan.

Each set of inserts is composed of all the following parts.



Upper Insert



Stripper

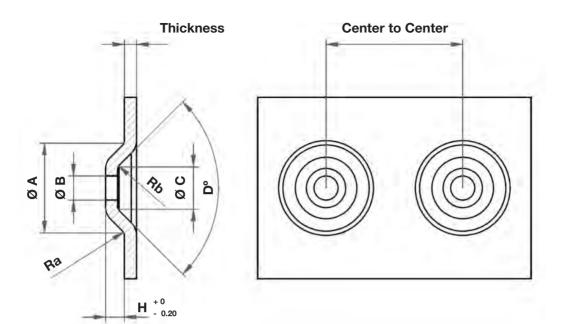


Springs



Lower Insert





	Required Measures (indicate the most important ones)									
Α	A B C D° H Ra Rb Thickness C. to C.									

	Dimensional Limits										
Station	D°	н	Thickness	Recommended C. to C.							
В	Minimum 80°	Maximum 6	0.50÷3.00	Minimum A + 3 x Thickness							
С	Minimum 80°	Maximum 7	0.50÷3.00	Minimum A + 3 x Thickness							
D	Minimum 80°	Maximum 7	0.50÷3.00	Minimum A + 3 x Thickness							



M04 ROUND COUNTERSINK







Lower Insert Holder

The inserts are shown to obtain an up forming operation.

For down forming operations, please contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.

This forming requires a suitable pre hole. Multiple close formings might bend the sheet metal.

It is necessary to supply technical sheet of the screw in case the purpose of the forming is to house a screw with the top part under the sheet plan.

Each set of inserts is composed of all the following parts.



Upper Insert



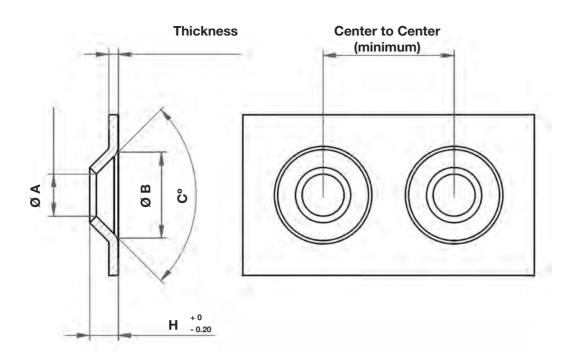
Stripper





Lower Insert





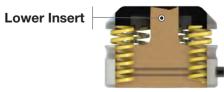
	Required Measures (indicate the most important ones)										
Α	В	Thickness	Н	C°	C. to C.						

			Thick 7	Furret B Statio	on Standard Insert Sets				
Screw	Α	В	Pre Hole	Thickness	Inserts Set Code	Н	C°	C. to C.	
			3.66 ±10%	0.80÷1.20	FB09237239.305	3.06	90°	14.0	
M4	4.5	9.2	4.43 ±10%	1.50÷1.90	FB09237239.BP5	3.55	90°	14.61	
			4.43 ±10%	2.00÷2.50	FB09237239.844	3.91	90°	15.0	
			4.25 ±10%	0.80÷1.20	FB09237240.305	3.56	90°	16.0	
M5	5.5 11	11.2	5.02 ±10%	1.50÷1.90	FB09237240.BP5	4.05	90°	16.6	
			5.57 ±10%	2.00÷2.50	FB09237240.844	4.41	90°	17.0	
	6.5		4.83 ±10%	0.80÷1.20	FB09237241.305	4.06	90°	18.0	
M6		6.5	13.2	5.61 ±10%	1.50÷1.90	FB09237241.BP5	4.55	90°	18.6
			6.16 ±10%	2.00÷2.50	FB09237241.844	4.91	90°	19.0	
			5.92 ±10%	0.80÷1.20	FB09237242.305	5.16	90°	22.2	
M8	8.5	17.4	6.70 ±10%	1.50÷1.90	FB09237242.BP5	5.65	90°	22.8	
				7.25 ±10%	2.00÷2.50	FB09237242.844	6.01	90°	23.2
			9.13 ±10%	0.80÷1.20	FB09237243.305	5.51	90°	26.4	
M10	12	2 21.6	9.91 ±10%	1.50÷1.90	FB09237243.BP5	6.0	90°	27.0	
			10.46 ±10%	2.00÷2.50	FB09237243.844	6.36	90°	27.4	

M09 SPRING CLIP







Lower Insert Holder

The inserts are shown to obtain an up forming operation.

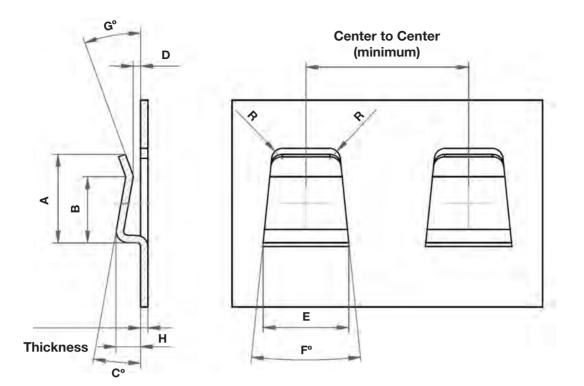
For down forming operations, please contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.







	Required Measures (indicate the most important ones)									
Α	Thickness	В	C°	D	Е	F°	Н	C. to C.		

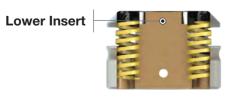
Dimensional Limits					
F° H					
Minimum 10°	Maximum 5				

Thick Turret B Station Standard Insert Sets									
Α	Thickness	Inserts Set Code	В	С	D	E	F°	Н	C. to C.
12	0.80÷1.00	FB08237255.305	5.34	3.63	1.00	11.599	11.592	4.30	
	1.10÷1.30	FB08237255.979	5.46	3.70	1.20	11.600	11.408	4.90	22.00
	1.40÷1.60	FB08237255.A43	5.64	3.81	1.50	11.603	11.144	5.80	

M10 KNOCKOUT







Lower Insert Holder

The inserts are shown to obtain an up forming operation.

For down forming operations, please contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.



Ejector



Upper Insert



Stripper

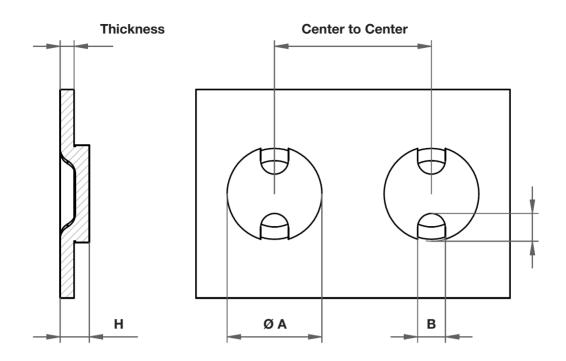


Springs



Lower Insert





Required Measures (indicate the most important ones)							
Α	В	С	Н	Thickness	C. to C.		

Dimensional Limits					
B C Thickness					
3 x Thickness	2,5 x Thickness	Maximum 3			



M12 RADIUS BACK LOUVER



The inserts are shown to obtain an up forming operation.

For down forming operations, please contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.



Upper Shearing Insert



Stripper





Lower Insert

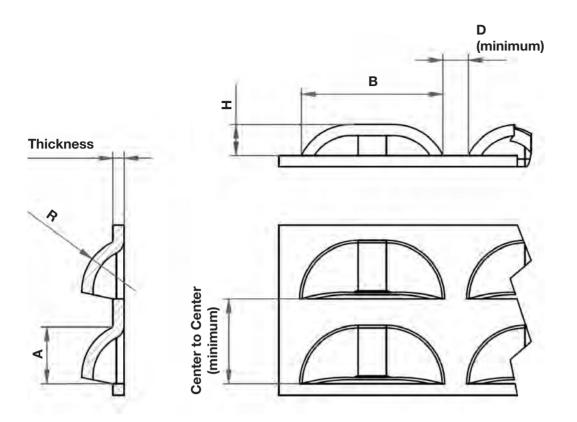




Lower Insert

Lower Insert Holder





Required Measures (indicate the most important ones)								
Thickness Station A B C H R C. to C.								

Dimensional Limits							
Station B H							
В	25.00	5.50					
С	50.00	6.00					
D	80.00	7.00					

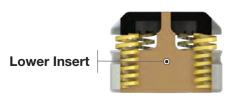
Thick Turret Standard Insert Sets									
Thickness Station Inserts Set Code A B C H R C. t								C. to C.	
0.80÷2.00	В	FB08236968	10.00	25.00	4.50	5.50	9.50	15.00	
	С	FB10236968	12.00	50.00	10.50	6.00	10.00	17.00	
	D	FB12236968	15.00	80.00	16.50	7.00	14.00	20.00	

M13 SHEAR BUTTON





Upper Insert Holder



Lower Insert Holder

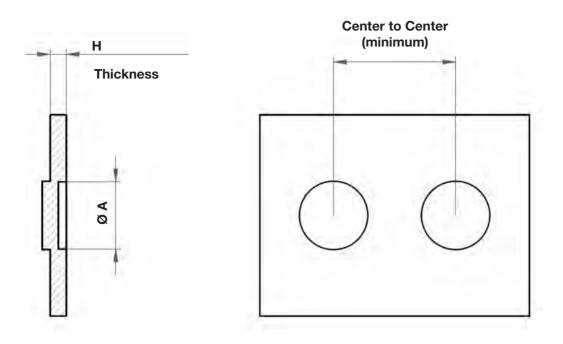
The inserts are shown to obtain an up forming operation. For down forming operations, please contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.







	Required Measures (indicate the most important ones)						
Α	Thickness H C. to C.						

Thick Turret B Station Standard Insert Sets						
Α	Inserts Set Code	Thickness	Н	C. to C.		
5.00	FB09237471	1.00 . 1.00	Maximum	9.10		
8.00	FB09237470	1.00÷4.00	Thickness x1.5	12.10		



M14 ELECTRICAL GROUND SYMBOL



The inserts are shown to obtain an up forming operation.

For down forming operations, please contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.

With the set of inserts proposed, it is possible to obtain a standard electrical ground symbol with or without circle, upwards or downwards.



Lower Insert Holder



Upper Insert



Stripper



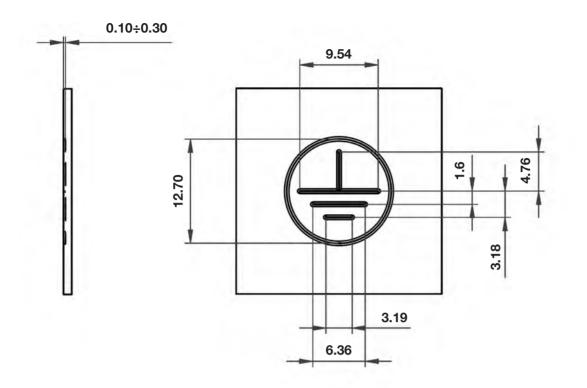
Springs



Lower Insert



M



	Thick Turret B Station Standard Insert Sets							
Circle	Forming Inserts Set Code		Thickness					
Yes	downforming	FB08238173	0.50÷4.00					
fes	upforming	FB08237273	0.50÷4.00					
No	downforming	FB08238174	0.50÷4.00					
No	upforming	FB08237274	0.50÷4.00					



M15 CONTINUOUS RADIUS BACK LOUVER



The inserts are shown to obtain an up forming operation.

For down forming operations, please contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.

Screws



Upper Insert

Upper Shearing Insert



Stripper



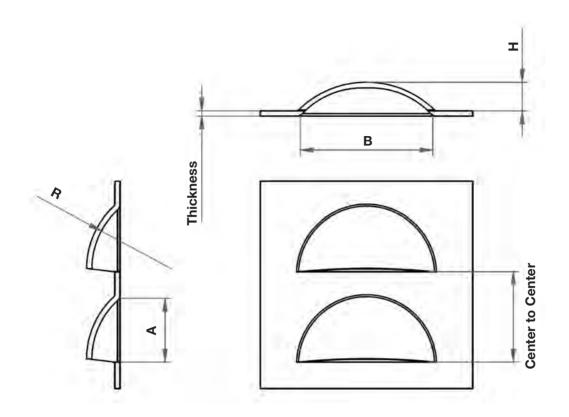
Lower Insert



Upper Insert Upper Shearing

Lower Insert

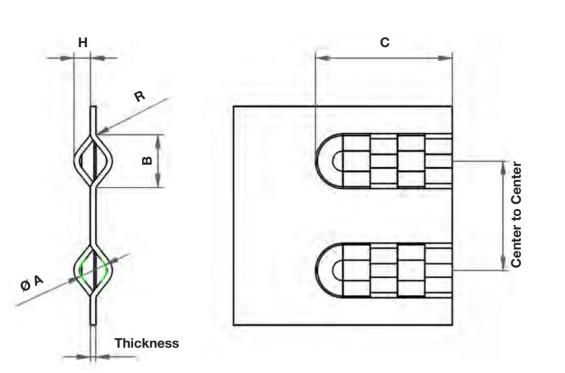
Insert



	Thick Turret Standard Insert Sets							
Station	Α	В	н	R	Thickness	Inserts Set Code	C. to C.	
					0.80÷1.20	FB08237476.305	17.00	
В	12.00	25.00	5.30	5.30 15.00	1.30÷1.70	FB08237476.A43	17.00	
					1.80÷2.50	FB08237476.844	17.00	







Required Measures (indicate the most important ones)						
Thickness	ØA	В	С	н	R	C. to C.



M20 CONTINUOUS OBROUND EMBOSS



The inserts are shown to obtain an up forming operation. For down forming operations, please

contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.





Upper Insert



Stripper

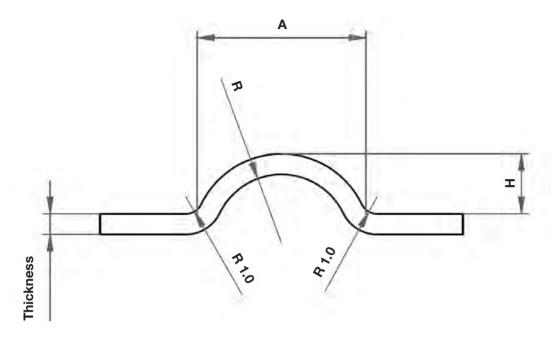


Springs



Lower Insert





	Required Measures (indicate the most important ones)					
R	A Thickness H					

Dimensional Limits				
Α	Н			
Minimun H x 2	Maximum 5,00			

Thick Turret B Station Standard Insert Sets							
R	Α	Thickness	Inserts Set Code	н			
4.00	9.83	0.80÷1.60	FB08237291.979	2.50			
4.00	11,533	2.00÷3.00	FB08237291.218	3.50			



M

M22 CUSTOM LOGO



The inserts are shown to obtain an up forming operation.

For down forming operations, please contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.

Besides using technical drawings in .DWG or .DXF format, it is possible to produce tools for logos starting from images on the most common formats or even from file .PDF.





Upper Insert



Stripper

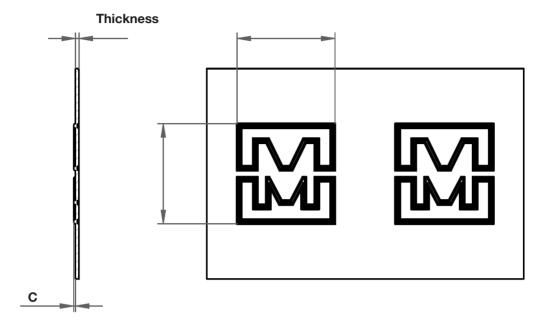


Springs



Lower Insert









M23 DOT SCRIBER





Upper Insert Holder



The inserts are shown to obtain a down forming operation.

For up forming operations, please contact our sales department.

INSERTS SET

Available on both A and B Stations. To be used on inserts holders WHITE

and GREEN series, not included in the standard set.

This type of working requires hydraulic or electrical punching machine with ram stroke control and whenever not possible, an upper insert holder with compensating spring is avilable.

The penetration (H) depends on thickness and type of material as well as punching machine power.

Attention: reduce to the minimum the approaching speed of the insert to the sheet metal.



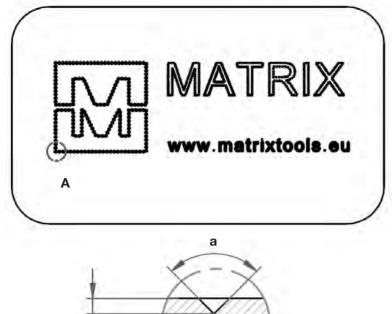
Upper Insert



Insert



Die





Th	Thick Turret Standard Insert Sets				
Station	Inserts Set Code	а			
А	FAZL238197	90°			
В	FB09238197	90°			



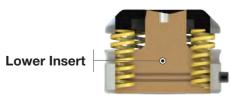


M24 CLIP WITH SAFETY BUTTON





Upper Insert Holder



Lower Insert Holder

The inserts are shown to obtain an up forming operation.

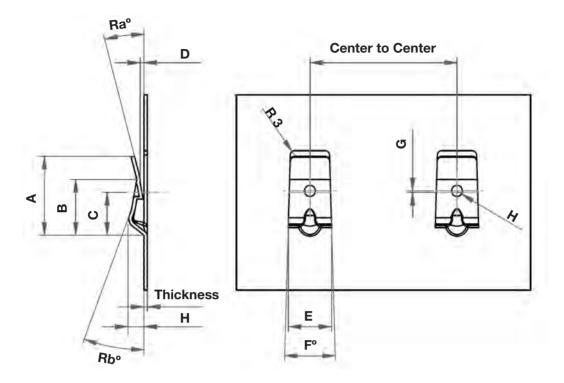
For down forming operations, please contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.

This solution allows to joint materials without using any screws, avoiding also welding and riveting operations.





Required Measures (indicate the most important ones)									
Thickness	Α	В	С	D	E	F°	G	н	C. to C.

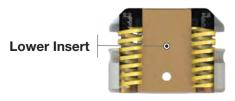


M25 STRENGHTENED CLIP





Upper Insert Holder



Lower Insert Holder

The inserts are shown to obtain an up forming operation.

For down forming operations, please contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.



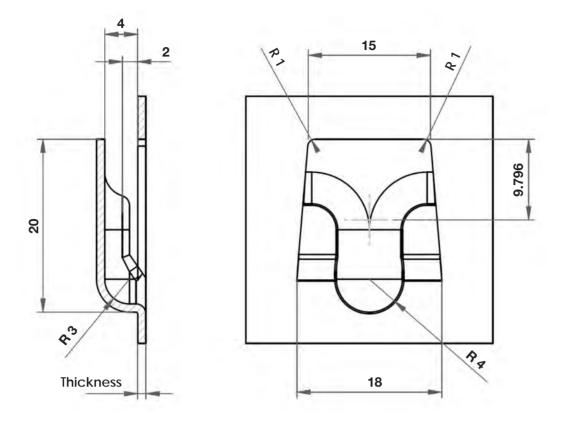
Springs



Lower Insert



Screws



Thick	Thick Turret B Station Standard Insert Sets				
Thickness Inserts Set Code					
0.80÷1.00	FB082372AA.305				



M

M26 EMBOSS FOR ELECTRICAL CABLE



The inserts are shown to obtain a down forming operation.

For up forming operations, please contact our sales department.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.

Before using this specific set of inserts, it is necessary to perform an extruded hole duly dimensioned type M02.



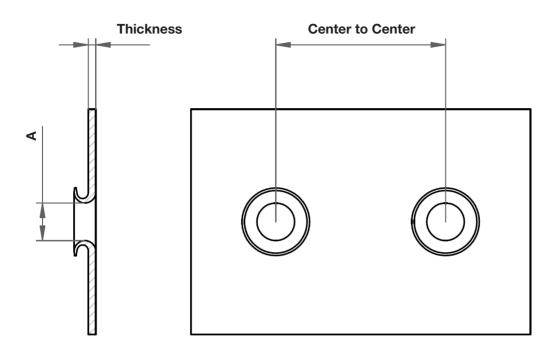
Die



Upper Insert



Die



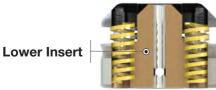
Required Measures	Required Measures (indicate the most important ones)				
Thickness	Α	C. to C.			



M27 BRIDGE & EXTRUDED HOLE





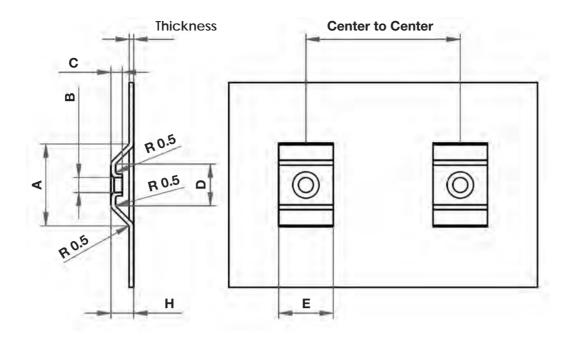


Lower Insert Holder

The inserts are shown to obtain an up forming operation.

For down forming operations, please contact our sales department.





Required Measures (indicate the most important ones)							
Thickness	Α	В	С	D	E	н	C. to C.





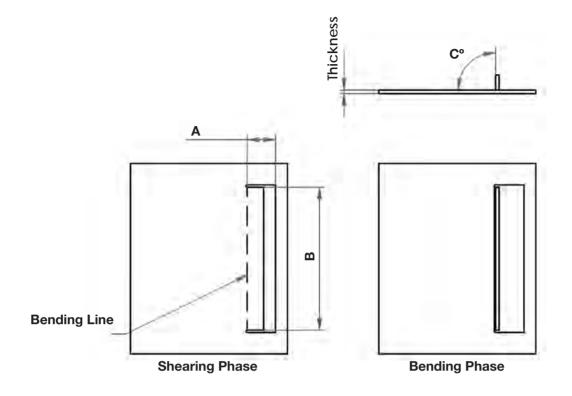
The inserts are shown to obtain an up forming operation.

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.

Before using this specific set of inserts, it is necessary to perform a shearing duly dimensioned.





Thick Turret Standard Insert Sets						
Station	Station A B C° Thickness Total Height		Total Height	Inserts Set Code		
С	Min. 12	Max. 50	Max. 91	Max. 1.50	Minimum 8 - Maximum 17	FB102369AH
D	Min. 12	Max. 80	Max. 91	Max. 1.50	Minimum 10 - Maximum 16	FB122369AH

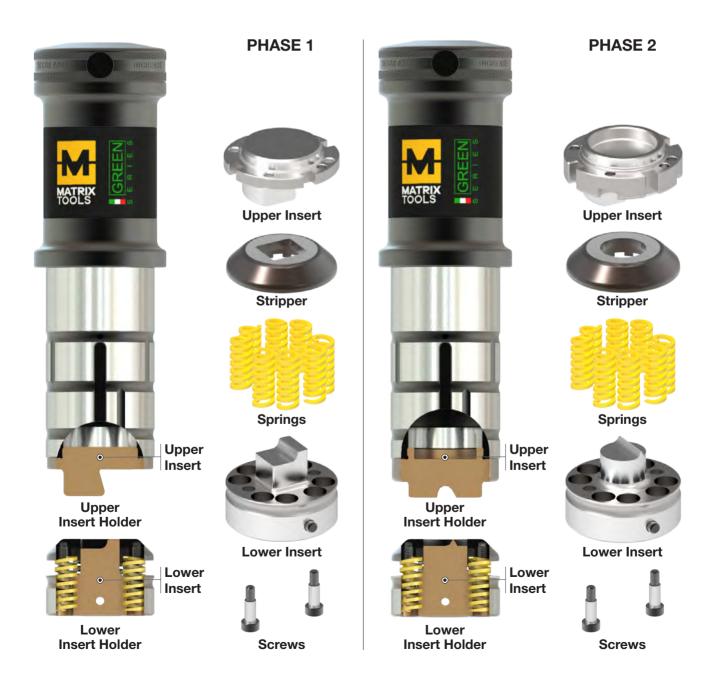




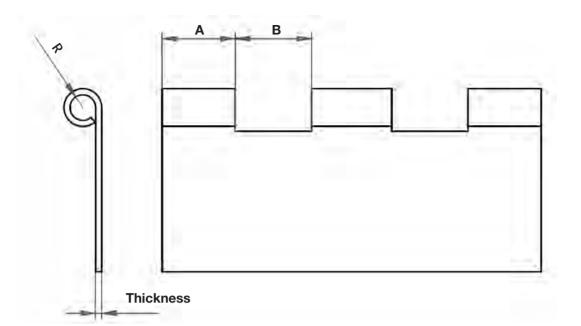
INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.

In order to obtain the shown result, it is necessary to proceed with two separate working steps, for which a specific set of inserts is required.



58 FB25VQ00REV03



Required Measures (indicate the most important ones)					
Thickness	Α	В	R		

Dimensional Limits				
Thickness	R			
0.80÷1.50	0.80÷2.38			



M31 DEBURR





Upper Insert Holder



Lower Tool

INSERTS SET

To be used on inserts holders WHITE and GREEN series, not included in the standard set.

This type of working requires hydraulic or electrical punching machine with ram stroke control and proper software.

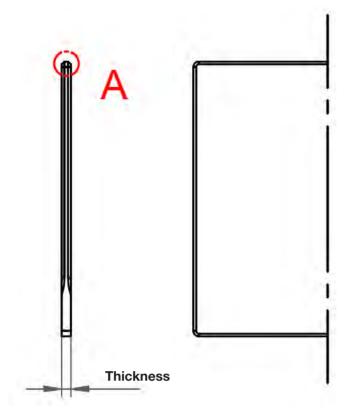


Upper Insert



Lower Tool





Thick	Thick Turret B Station Standard Insert Sets			
Thickness	Inserts Set Code			
Max 6.00	FB092300AN			



M32 FOIL SLITTING TOOL



INSERTS SET

Available on both A and B Stations. To be used on inserts holders WHITE and GREEN series, not included in the standard set.

This type of working requires hydraulic or electrical punching machine with ram stroke control and proper software. Recommended working speed between 2 and 6 m/min.

Attention: reduce to the minimum the approaching speed of the insert to the sheet metal.



Upper Insert



Screw





Shearing Insert



Insert Guide

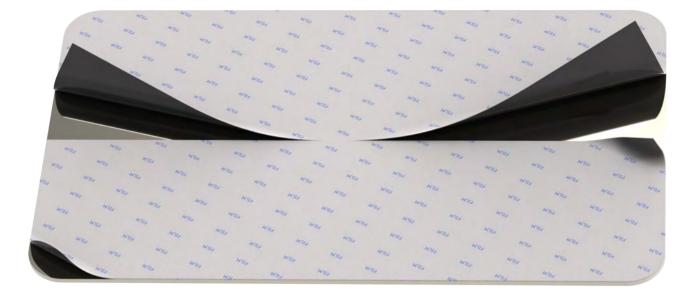


Die





Die



Thick Turret Standard Insert Sets				
Station Inserts Set Code				
Α	FAZL2381AP			
В	FB092381AP			



M

TÄGLICH AKTUALISIERTE LAGERLISTE UNTER www.hesse-maschinen.com

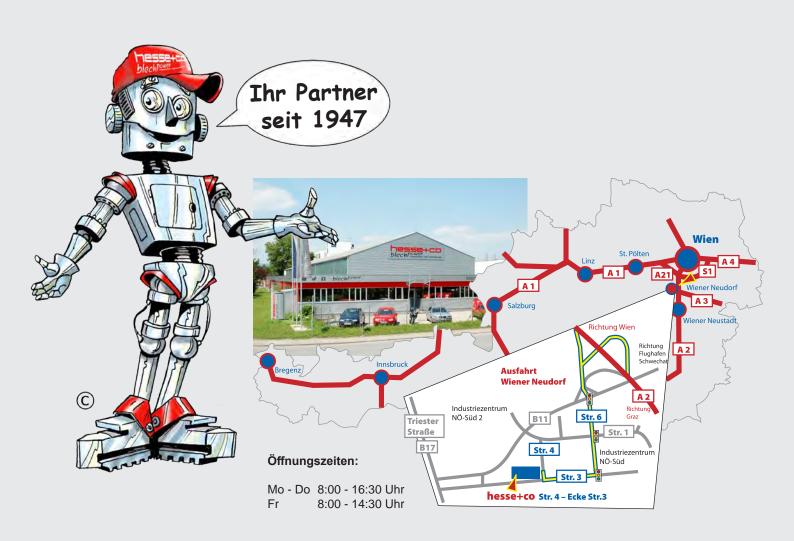
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