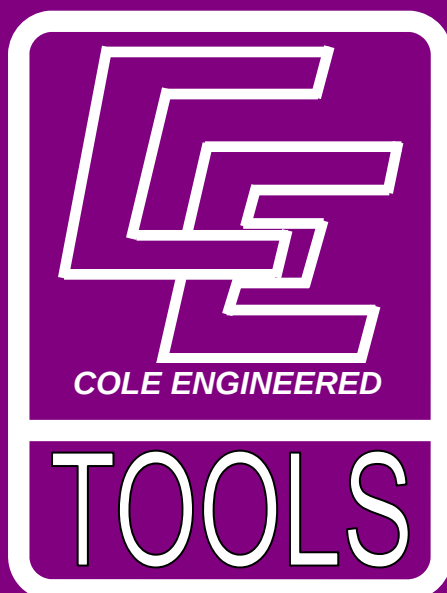


C.E. TOOLING

Section **8**

Pricing Booklet

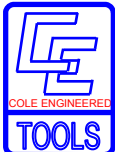


SALVAGNINI TOOLING STYLE *Type III* .



For S2, S4.25, S4.3, S4.4,
Pluri,
and compatible machine

*"Salvagnini" is a trademark of Salvagnini Transferica s.p.a.



Salvagnini Type III Style Tools

We are still developing this product line, so are continually adding products.

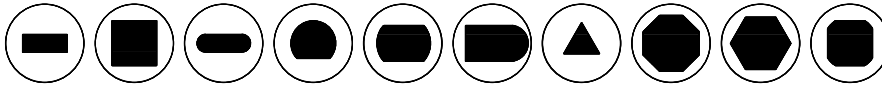
We emphasize our Salvagnini style tooling towards offering a better alternative for special shapes, cluster, and form tools

Tool Description	Delivery Days
S1, S4, S6	3- 8 Work Days
S5, S8, S9, SA, P5	12 Work Days
PO, P3, P9 Punch & Die Only	5 Work Days
P0, P3, P9 Punch Assembly or Guide only	10-15 Work Days
S5	

Expedite services available

10 STANDARD SHAPES

RT Rectangles • SQ=Square • OB=Obround • SD=Single-D • DD=Double-D • LD=Long-D • EQ=Equilateral • OC=Octagon • HX=Hexagon • QD=Quad-D Add \$10 per set to standard price for LD & EQ



Salvagnini Shape Codes: Round=01, Square=2Q, Single-D=41, Double-D=42, Rectangle=2R, Rect-w/4rAD=43, Obround=08, Hexagon=45, Octagon=49, SP50=11 (+k0,k1,k2,k3=std dim), SP20=12(t0,t1,t2,t3=std dim.),

SPECIAL SHAPES



Add 25% to set price for **Clearance** of .003(.08mm) & <

ADDITIONAL COSTS FOR NON-STANDARD OPTIONS

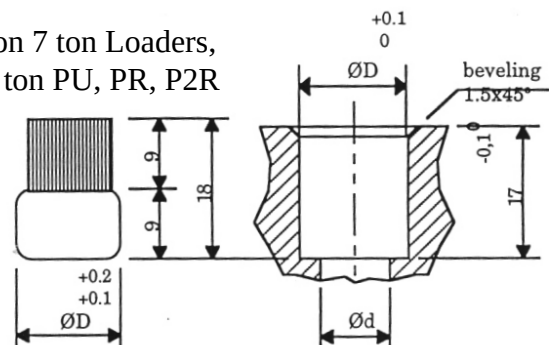
RADIUS or 45°CHAMFERS + \$.00 per corner			
	PUNCHES	Corners 1-3 X #	4(all)
With Length under 1.625 and any size Radius or Chamfer	# X \$10.00		\$10.00
With Length over 1.625 & .032 maximum Radius or Chamfer	# X \$10.00		\$30.00
With Length over 1.625 and Radius or Chamfer over .032(.8mm)	# X \$15.00		\$40.00
Add On To All DIES any size Radius or Chamfer	# X \$10.00		\$10.00
No Extra Charge for STRIPPERS or GUIDES When Ordered With Set			

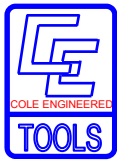
Shapes on Angles other than 90° Increments

Punch: 7 ton Sta. + \$45.00
12 ton sta. + \$60.00
26 ton Sta. + \$90.00
Dies 7 ton Sta. + \$25.00
12 ton sta. + \$45.00
26 ton Sta. + \$90.00

Sheet Protection Brushes Used on 7 ton Loaders, dies & strippers of 26 ton and some 12 ton PU, PR, P2R

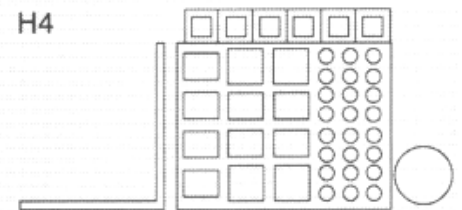
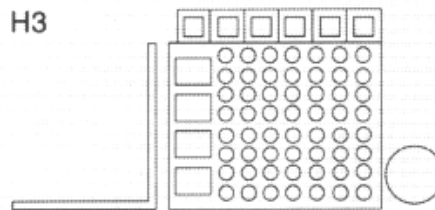
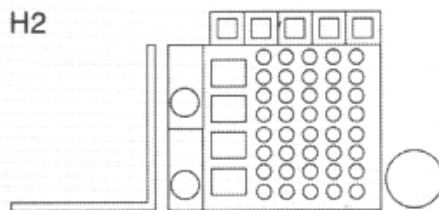
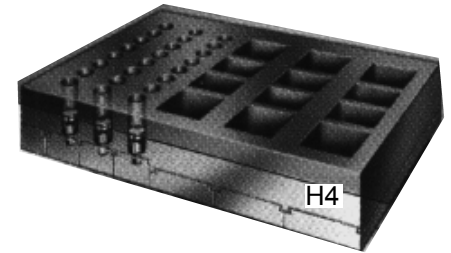
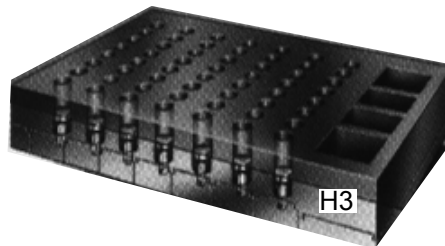
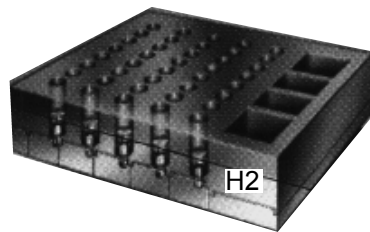
Code	D	d
3153010048	4.5	3
2121092A4	8	5
3153010004	13	10





Salvagnini Style PUNCH HEADS

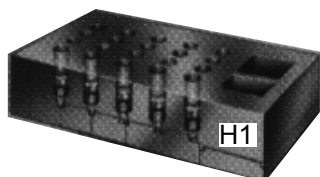
For S2, S4.25, S4.3, S4.4, Pluri,
and compatible machine models



Configuration	H2	H3	H4
7 ton presses - Max tool $\varnothing 33$ mm	40	56	24
26 ton presses - Max tool 90x70 mm	4	4	12
Optional fixed presses for punching (12 tons) or embossing (8 tons) - Max tool $\varnothing 60$ mm	5	6	6
Optional double rotary presses for punching (12 tons) - Max tool $\varnothing 60$ mm	2	3	3

**Pluri
or H2
Head
Config.**

BU31-BU35 are optional presses commonly used for embossing (forming). Upper cylinder has 8 ton force, lower has 7 tons. Max. depth of upward stroke is 16mm, down is 7mm.



↓ Double
Rotating
punching
unit
P2R36
12 ton

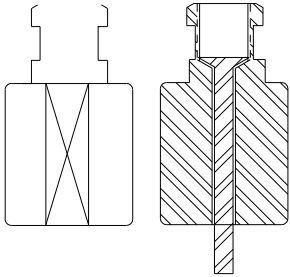
	BU31	BU32	BU33	BU34	BU35
24 (3.0) 90 X 90 SA F-__	60	56	52	48	44
	59	55	51	47	43
23 (3.0) 70 X 90 SA E-__	58	54	50	46	42
	57	53	49	45	41
22 (3.0) 70 X 90 SA E-__	20	16	12	8	4
	19	15	11	7	3
21 (3.0) 90 X 90 SA F-__	18	14	10	6	2
	17	13	9	5	1



Salvagnini StyleType III 7 Ton 33mm Positions 1-20, 41-76

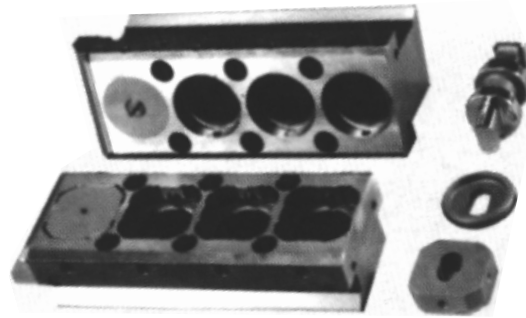
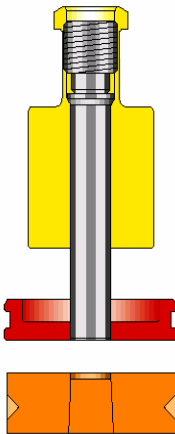
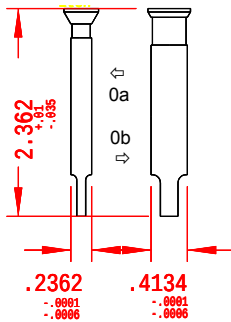
PUNCH CHUCKS

0a (*A-SA0aPC)
0b (*A-SA0bPC)



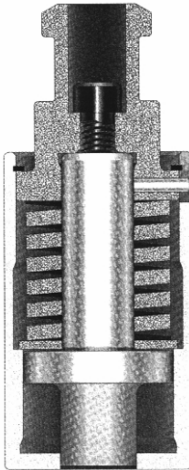
SIZE 0a SIZE 0b
.031-.236 .236-.413
(.8-6,mm) (6,-10,5mm)

Ref. Compatible for use
in Mate® or Pass Chucks



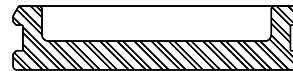
Small Sizes
<.093+30%
<.062
+50%,
<.046 +
100%

Grind Life:
Punch & Dies
OEM recom-

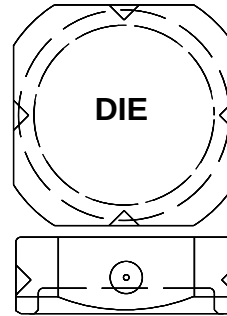


Square Clutch Shown,
some symmetrical shapes
such as rounds and
squares, have Rectangle

STRIPPER

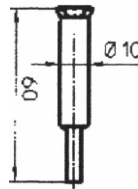


DIE



Ref. Compatible for use
in Salvagnini Chucks

SIZE 0f
.031-.393
,8-10,mm



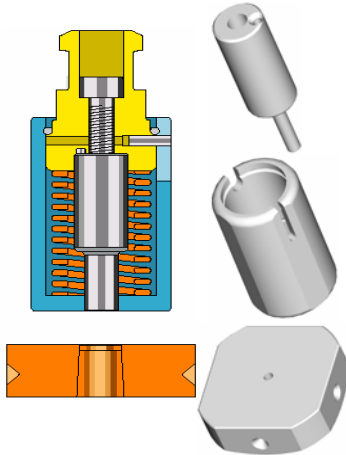
	DESCRIPTION	Range Diagonally	Salvagnini Part #	Mate Part # =shape	Pass Part # =shape	C.E.Part# *=R-round S=shape	PRICE ROUND	PRICE SHAPE
Mate® Style compat- ible	SET Punch Insert 0a Stripper & Die	.0315-.236"	N/A	PAPA0A S6PA_A DAPA_0	S3P1_1 S3 A1-5_1 S3M3-5M1_1	SA0a-PDS-*		
	Punch INSERT 0a <i>HSS</i>	.8-6,0mm	N/A	PAPA0A	S3P1_1	SA0a-P-*		
	SET Punch Insert 0b Stripper & Die	.0315-.413"	N/A	PAPB0ADS 6PB0A DAPB00	S3P1_2 S3 A1-5_1 S3M3-5M1_1	SA0b-PDS- *		
	Punch INSERT 0b <i>HSS</i>	.8-10,5mm	N/A	PAPB0A	S3P1_2	SA0b-P-*		
S1	SET Punch Insert 0a Stripper & Die	.0315-.393"		N/A		SA0fPDS		
	Punch INSERT 0f <i>HSS</i>	.8-10mm	PS1-*	N/A	S3 P2_2-3	SA0f-P-*		
	DIE D2 18%chrome		DS4-*	DAPA-C_0	S3M1-5M1_1	SAC-D-*		
S4	SET Solid Punch Punch, Stripper & Die	.0315-1.299 ,8-33mm		PAPC_A S6PA-C#A DAP A-C#0	S3S1-5D1 S3 A1-5_1 S3M3-5M1_1	SAC-PDS-*		
	PUNCH SOLID <i>HSS</i>		PS4-*	PAPC_A	S3S1-5_1	SAC-P-*		
	STRIPPER		SS4-*	S6PA-C_A	S3A1-5_1	SAC-S-*		
	DIE D2 18%chrome		DS4-*	DAPA-C_0	S3M1-5M1_1	SAC-D-*		



Salvagnini Style Type III 7 Ton 33mm Positions 1-20, 41-76 Fully Guided Perforating Assembly

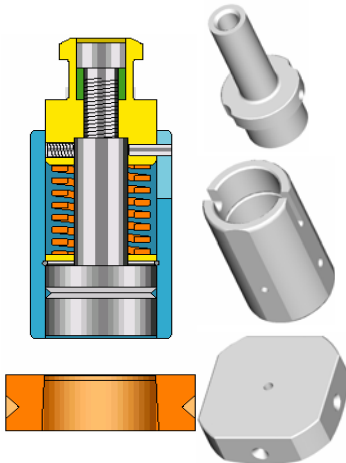
Salvagnini P0 Style – Compatible

Sharpening Life: Round: Punch .118 3,0mm Die .06" 1,5mm
Shaped: Punch .079 2,0mm Dies .06" 1,5mm



	DESCRIPTION	Range Diagonally	Salvagni ni Part #	Pass #	C.E. Code *=R-round S-shape	PRICE ROUND	PRICE SHAPE
P0	SET Punch Assembly & Die	0315- .393” .8 - 10mm			SA0-PAD-*		
	Punch ASSEMBLY		UP0-*		SA0-PA-*		
	PUNCH HSS=M2		PP0-*	PAS0 A_	SA0-P-*		
	Punch GUIDE		BP0-*	S2PN_A	SA0-G-*		
	DIE D2 18%chrome		DP0-*	DAPC_0	SAC-D-*		
Tang Assembly Includes spring, washer, draw bolt, and retaining ring					SATA-0		

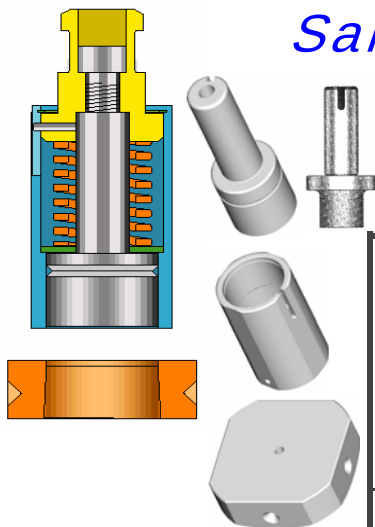
Salvagnini P3 Style – Compatible



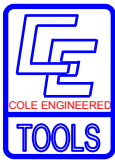
	DESCRIPTION	Range Diagonally	Salvagni ni Part #	Pass #	C.E. Code *=R-round S-shape	PRICE ROUND	PRICE SHAPE
P3	SET Punch Assembly & Die	0315- 1.023” .8 - 26mm	UP3-*		SA3-PAD-*		
	Punch ASSEMBLY		UP3-*		SA3-PA-*		
	PUNCH HSS=M2		PP3-*	PAS0 A_	SA3-P-*		
	Punch GUIDE		BP3-*	S2PN_A	SA3-G-*		
	DIE D2 18%chrome		DP3-*	DAPC_0	SAC-D-*		
Tang Assembly Includes spring, washer, draw bolt, and retaining ring					SATA-3		

Salvagnini P9 & Mate® Style–Compatible

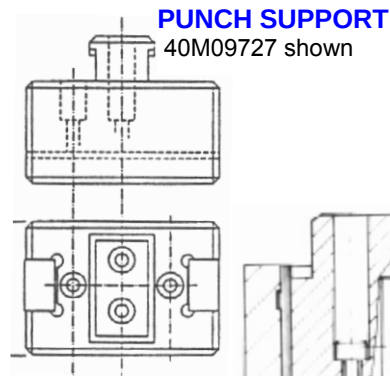
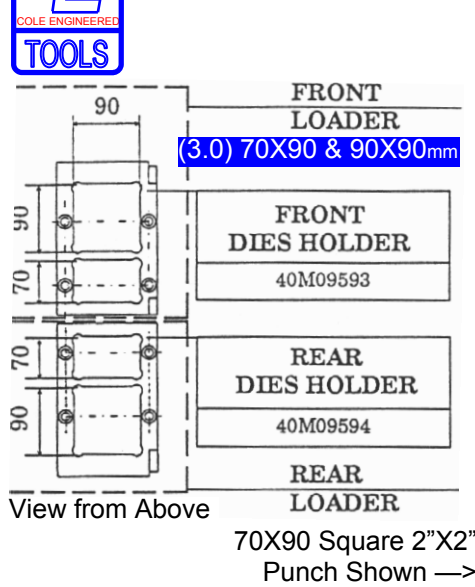
Sharpening Life: Round: Punch .118 3,0mm Die .06" 1,5mm
Shaped: Punch .079 2,0mm Dies .06" 1,5mm



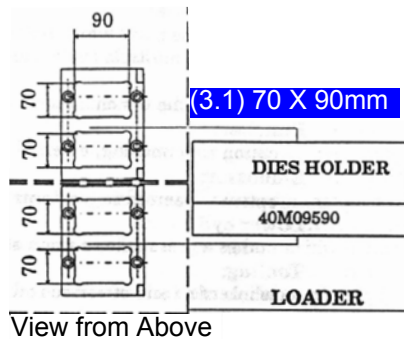
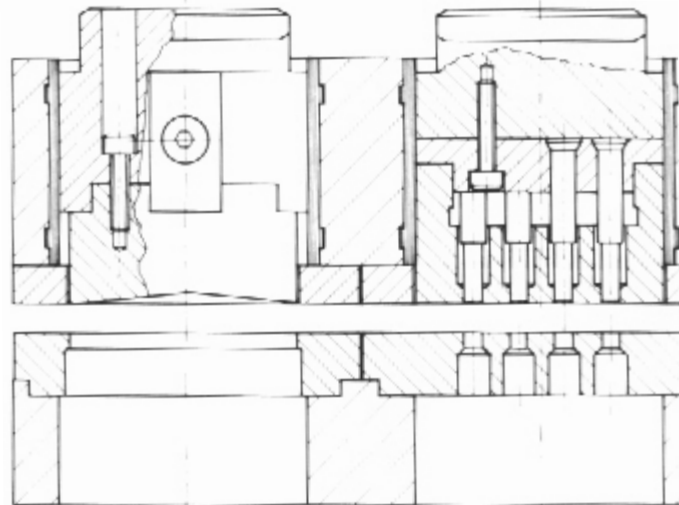
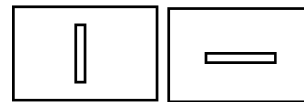
	DESCRIPTION	Range Diagonally	Salvagni- ni Part #	Ref. Mate Part #	C.E. Code *=R-round S-shape	PRICE ROUND	PRICE SHAPE
P9	SET Punch Assembly & Die	0315- 1.023” .8 - 26mm			SAM-PAD-*	Only Die is available. No P9 Punch or Assembly CE/Ketec	
	Punch ASSEMBLY		UP9-*		SAM-PA-*		
	PUNCH HSS=M2		PP9-*	PAS0 A_	SAM-P-*		
	Punch GUIDE		BP9-*	S2PN_A	SAM-G-*		
	DIE D2 18%chrome		DP9-*	DAPC_0	SAC-D-*		
Tang Assembly Includes spring, washer, draw bolt, and retaining ring				VCPCS	SATA-M		



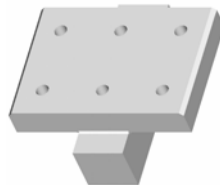
Large Station 26 Ton Tools Positions 21-24



Specify orientation of shapes
"Y" Axis or "X" Axis



PUNCH



STRIPPER

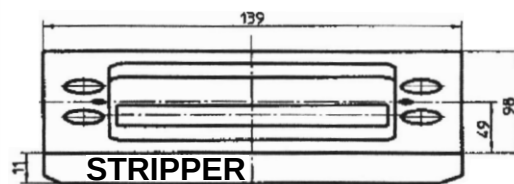
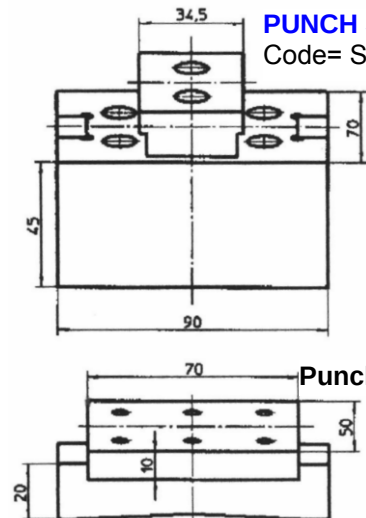


DIE

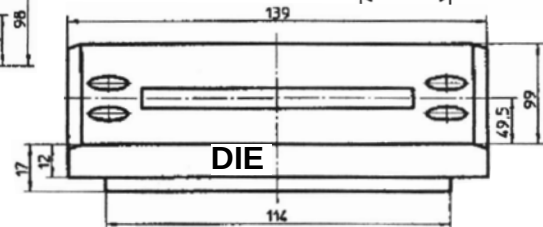
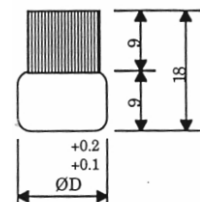


(3.1) 70 X 90mm Positions 21, 22, 23, 24

Only for machines that DO NOT have a 90X90 Head.



Sheet Protection Brushes
*A3153010004
Package of 16
\$50.00



		Range X = ↔ Y = ↓	Salvagnini Part #	Mate # _ = shape	Pass # _ = shape	C.E. Part # * = R-round S-shape	PRICE ROUND	PRICE SHAPE
S8	SET Punch Stripper & Die	2.75X3.543	US8-*			SAEPDS-*		
	PUNCH HSS=M2	70X90mm Max. Dim.	PS8-*	PAPE_A	SX S6_1	SAE-P-*		
	STRIPPER	↔X = 90mm ↓Y = 70mm	SS8-*	S6Q E_A	SX A6_1	SAQ-S-*		
	DIE D2 18%chrome		DS8-*	D2Q E_O	SX M6_1	SAQ-D-*		



Large Station 26 Ton Tools Positions 21-24

(3.0) 70 X 90mm Positions 22&23 Station sits between 90X90 Only for machines also having a 90X90 Head.

PUNCH SUPPORT: \$400.00
Code= SA-40M09727 Ref. Mate®=VSPES

Sheet Protection Brushes
*A3153010004
Package of 16
\$50.00

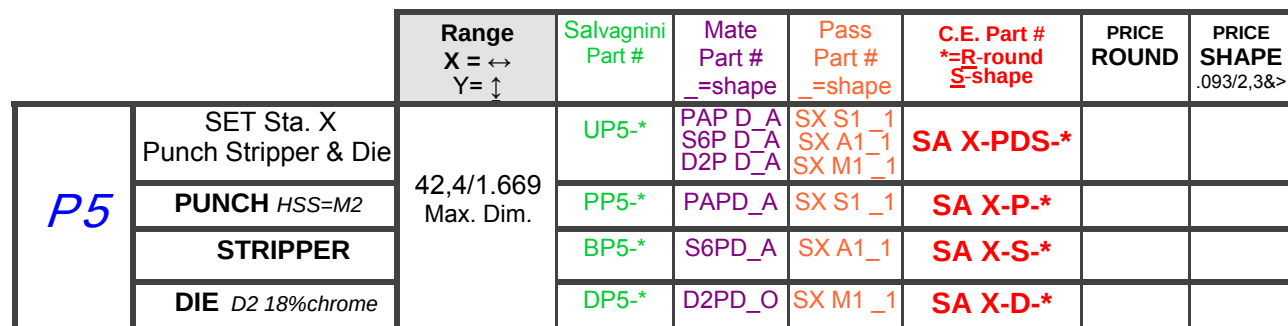
	Range X = ↔ Y = ↑↓	Salvagnini Part #	Mate Part # _shape	Pass Part# _shape	C.E. Code *=R-round S-shape	PRICE ROUND	PRICE SHAPE .093/2,3&>
S9	SET Punch Stripper & Die	2.755 X 3.543		PAP E_A S6P E_A D2P E_A	SX S6_1 SX A6_1 SX M6_1		
	PUNCH HSS=M2	70X90mm Max. Dim.	PS9-*	PAPC_A	SX S6_1	SA E-P-*	
	STRIPPER	↔X=90mm ↑Y=70mm	SS8-*	S6PE_A	SX A6_1	SA E-S-*	
	DIE D2 18%chrome		DS8-*	D2PE_O	SX M6_1	SA E-D-*	

(3.0) 90 X 90mm Positions 21&24 Station sits between 90X90 Only for machines also having a 90X90 Head.

PUNCH SUPPORT: \$400.00
Code= SA-40M09728 Ref. Mate®=VSPFS

Sheet Protection Brushes
*A3153010004
Package of 16
\$50.00

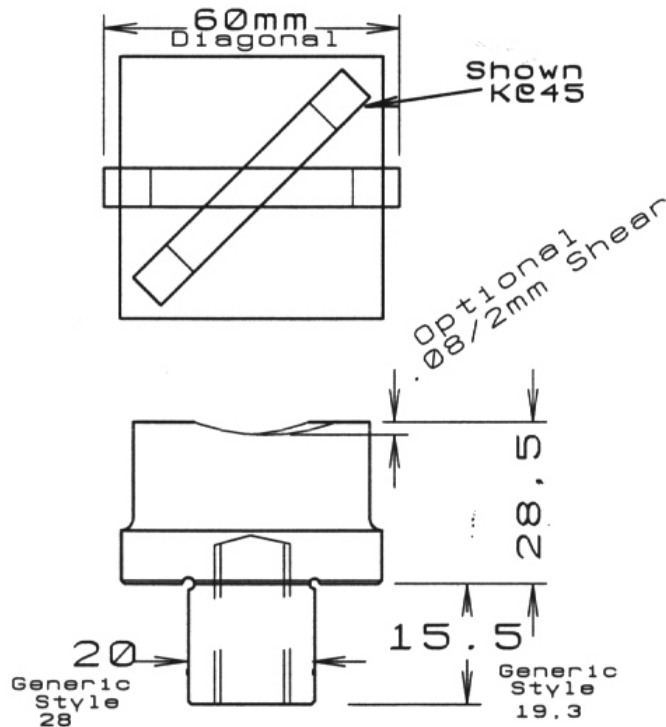
	Range X = ↔ Y = ↑↓	Ref. Salvagnini Code	Ref. Mate # _shape	Ref. Pass # _shape	C.E. Code *=R-round S-shape	PRICE ROUND	PRICE SHAPE .093/2,3&>
SA	SET Punch Stripper & Die	3.543 X 3.543		PAP F_A S6P F_A D2P F_A	SX S7_1 SX A7_1 SX M7_1		
	PUNCH HSS=M2	90X90mm Max. Dim.		PAPF_A	SX S7_1	SA F-P-*	
	STRIPPER	↔X=90mm ↑Y=90mm	40M09###	S6PF_A	SX A7_1	SA F-S-*	
	DIE D2 18%chrome		40M09###	D2PF_O	SX M7_1	SA F-D-*	



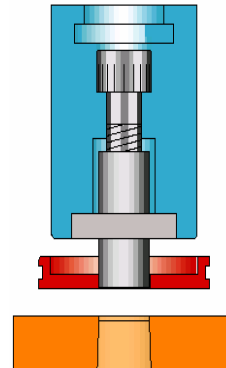


Salvagnini Style: Optional 12 Ton 60mm

S6 Auto Index Punch Sta.D

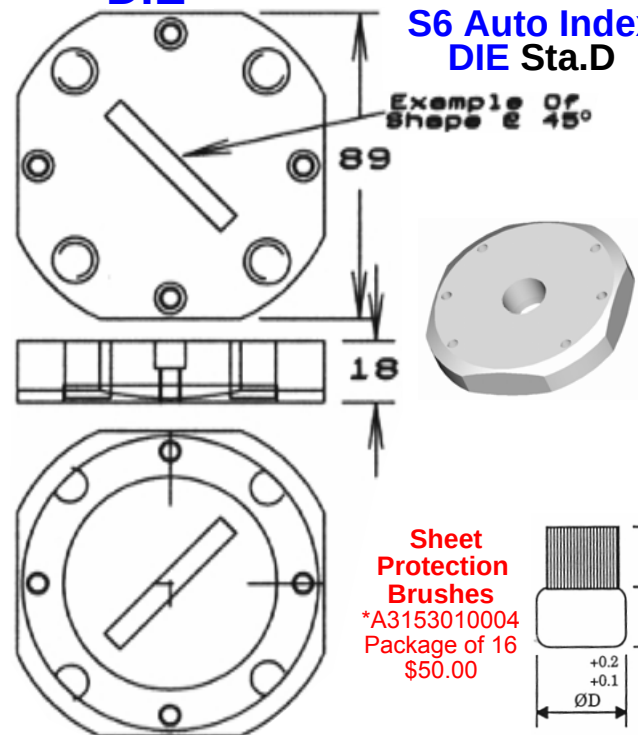


S6 Sta. D

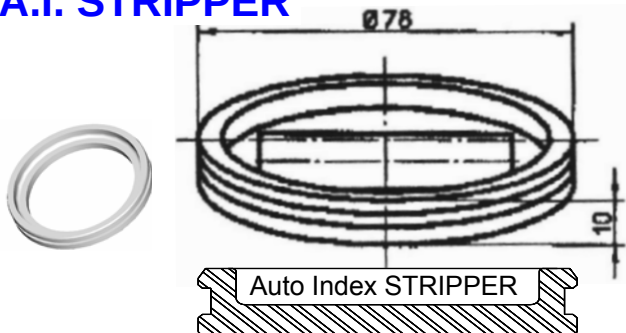


DIE

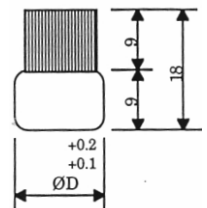
S6 Auto Index DIE Sta.D



A.I. STRIPPER



Sheet Protection Brushes
*A3153010004
Package of 16
\$50.00



		Range X = ↔ Y = ↑↓	Salvagnini Part #	Mate Part # _shape	Pass Part # _shape	C.E. Part # *R-round S-shape	PRICE ROUND	PRICE SHAPE
S6	SET Sta. D Punch Stripper & Die	60mm/2.362 Max. Dim. 60 X 20	US6-*			SA D-PDS-*		
	PUNCH HSS=M2	2.362X.78"7	PS6-*	PAPX_A		SA D-P-*		
	STRIPPER	Rectangle ↔X=60mm ↑Y=20mm	SS6-*	S6PX_A		SA D-D-*		
	DIE D2 18%chrome		DS6-*	D2PD_O	SX M1 _1	SA D-D-*		

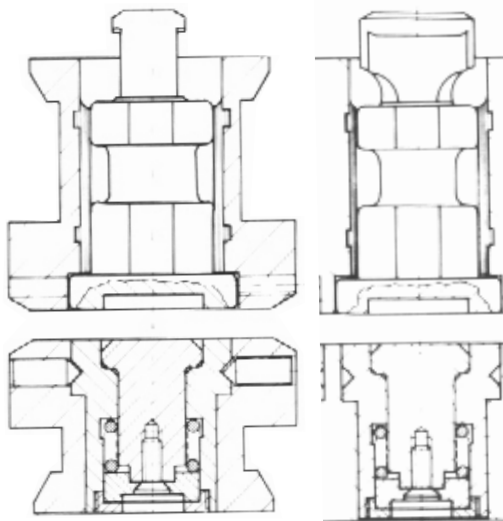


Salvagnini Style: Special Application Tools

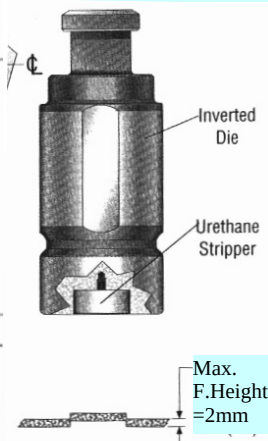
EI Emboss Station, Optional Some positions can be fitted for low profile forming operations (max. FH=6,5mm) where no scrap is generated.

Position 30-35 BU Emboss Option Double action 8+7 ton press Forming applications (Max FH=16mm)

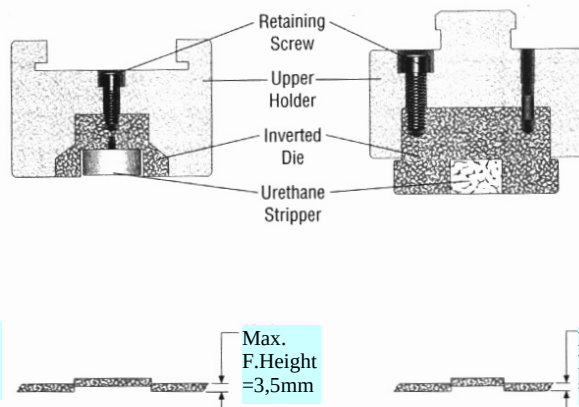
Form Up EI, 7 Ton Position-



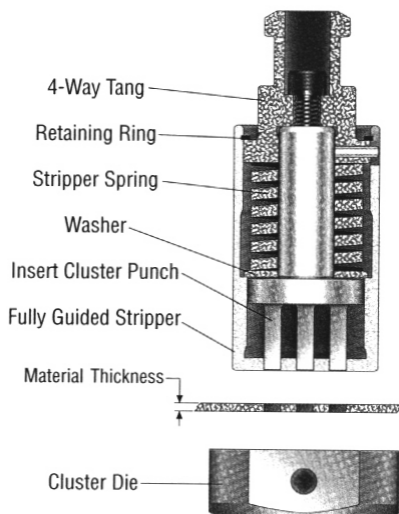
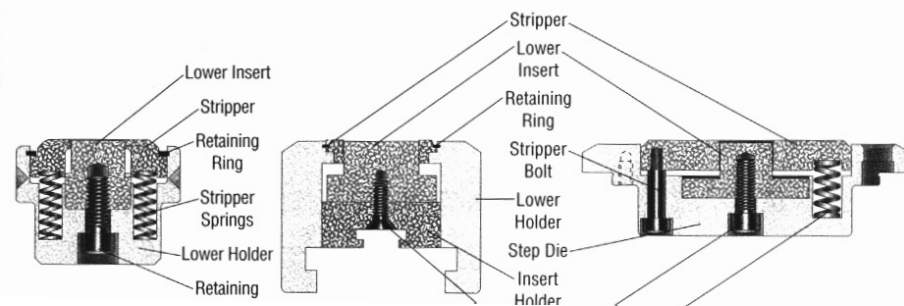
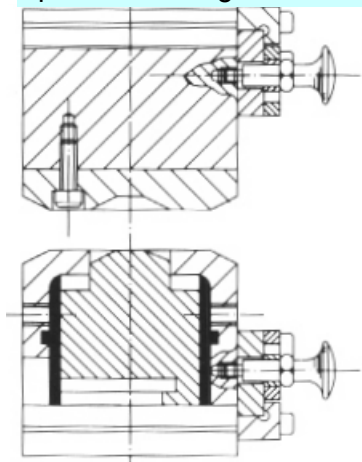
Standard 7 Ton Position



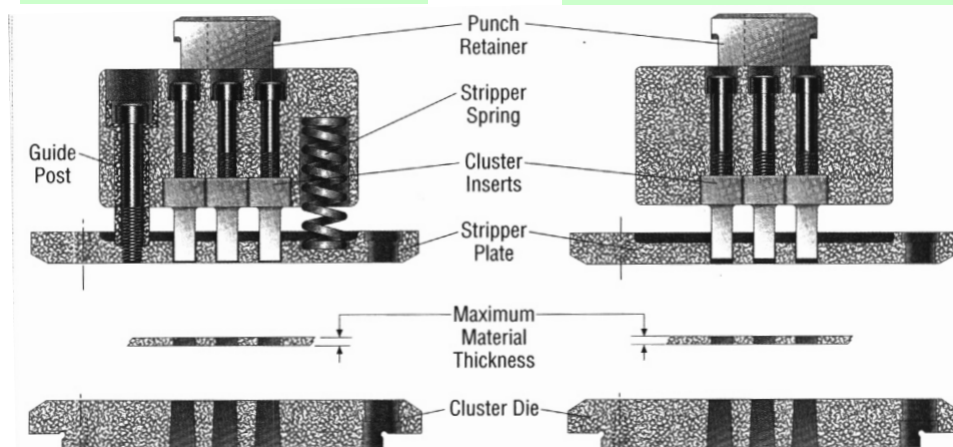
Large 26ton Station



BU Embossing Tool for Upward Forming



CLUSTER: Fully Guided Punch Assembly



CLUSTER



SPECIAL APPLICATION FORMING TOOLS

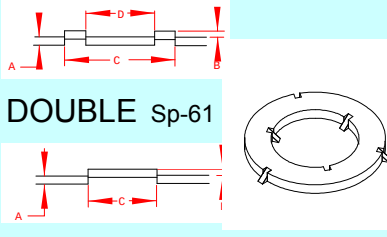
HIGHER PRODUCTIVITY THROUGH SUPERIOR ENGINEERING

ELECTRICAL KNOCK OUTS

SINGLE Sp-60

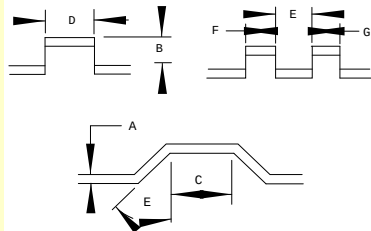
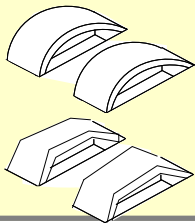
Conduit Size	Actual Size	Conduit Size	Actual Size
1/2"	.875	1 1/2"	2.000
3/4"	1.125	2"	2.500
1"	1.375	2 1/2"	3.000
1 1/4"	1.750	3"	3.625

DOUBLE Sp-61



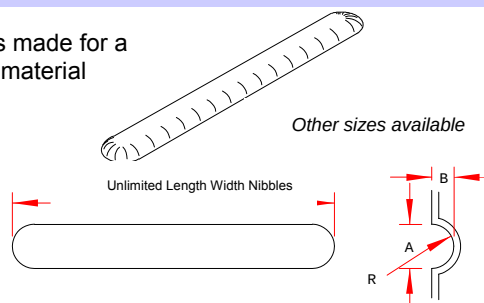
BRIDGE TOOL

SINGLE Sp-65 DOUBLE Sp-66



PROGRESSIVE STIFFENING RIB

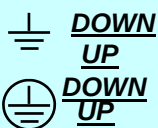
Punch is made for a specific material



Standard Size	"A"	"B"	"R"
	3/8	3/16	3/16

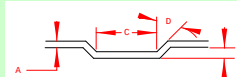
GROUND SYMBOL

Standard=1/2"Ø Longest horizontal line=3/8 length +\$50 for non standard

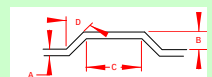


EMBOSES ROUND OR SHAPED

Form Down Sp74 Form Up Sp63



D >= 45° DIE w/No Stripper
Punch and Die Cat. Code
*FAT_PD-D72
Delivery 5-8 days

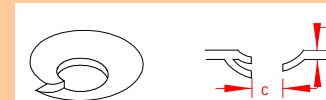


D >= 45° DIE w/No Stripper
Punch and Die Cat. Code
*FSA_PD-U63

D < 45° DIE w/Built in Stripper
Punch and Die Cat. Code
*FSA_PD-D72

D < 45° DIE w/Built in Stripper
*FSA_PD-U63
Delivery _ _ _ days

THREAD FORM DOWN ONLY



Replaceable Top Inserts *FIP81 Bottom *FID81

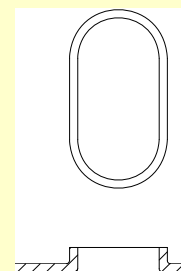
Ordering Notes:

Order by Screw & Thread size

Limitations Thread Pitch must be < than material thickness.

Contact C.E. Tooling Engineers with your specific needs, and they can discuss the feasibility and pricing for Thread

EXTRUSION



**FABRICATING TOOLS
and Accessories for most
Punching, Bending and
Shearing Equipment**



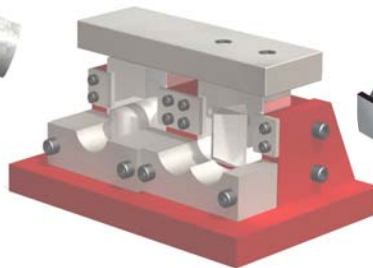
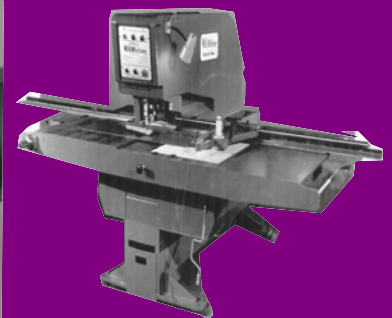
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