



## **Fully Guided P0 & P9 Perforating Systems** FOR SALVAGNINI PUNCH PRESSES

Mate's Salvagnini style fully guided P0 and P9 perforating tools are designed specifically for punching smaller hole sizes in the 7 ton stations of Salvagnini punch presses. Designed to accommodate any shape up to 0.492" (12,50) diameter in the P0 and up to 1.023" (26,00) diameter in the P9, these systems have all of the quality Mate features you expect. Punches are made from Mate's specially formulated MPM82™ powdered tool steel for superior wear resistance and longest tool life. Tight stripper clearance prevents lateral punch movement for assured, accurate hole punching. Mate's Salvagnini style P0 and P9 perforating systems are the ideal solutions for both the low and high range sizes of the 7 ton station. All Mate Salvagnini style P0 and P9 punches, dies and strippers are fully OEM-compatible.

### Punches:

- Premium, specially formulated MPM82™ powdered tool steel provide incredibly long tool life, even under the most extreme punching conditions.
- High abrasion resistance, high anti-galling properties, plus toughness against chipping.
- P0 Fully guided perforating tool has punch size range to 0.492" (12,50).
- P9 Fully guided perforating tool has punch size range to 1.023" (26,00).
- Punches can be sharpened up to 0.059" (1,49).
- A wide variety of special shape punches can be made to your specifications.
- Nitride treatment, Maxima™ and SuperMax™ coatings available

### Strippers:

- Fully guided perforating stripper has unique design to support punch point throughout the punching cycle.
- The stripper is assembled into the upper cartridge.

### Dies:

- Standard Salvagnini C station die.
- High speed steel.
- A wide variety of special shapes are available to a clearance of your choice, as well as standard shapes.
- SLUG FREE® dies are available as a no additional cost option
- Specify die clearance as punch size PLUS total clearance, NOT as clearance per side.

### Assembly Fixture

- Industries first P0 and P9 assembly and dis-assembly fixture.
- Easy to use. Special pliers to remove round wire rings with ease.
- Safer than a vise or arbor press.
- Small compact size can be mounted on table or held in a vise.



**MATE02484 — ASSEMBLY FIXTURE**

	30	31	32	33	34	35
90 x 90	76	68	60	56	52	48
24	75	67	59	55	51	47
70 x 90	74	66	58	54	50	46
23	73	65	57	53	49	45
70 x 90	72	64	20	16	12	8
22	71	63	19	15	11	7
90 x 90	70	62	18	14	10	6
21	69	61	17	13	9	5

## SALVAGNINI POSITIONS

1-20, 41-76 7 TON

**RECOMMENDED FOR**

**POLI PUNCH STATION -**

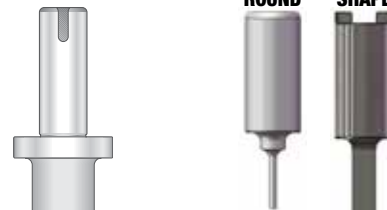
P9 — 1.023(26.0) MAXIMUM

P0 — 0.492(12.50) MAXIMUM

**P9**

**P0**

ROUND SHAPE



Insert Punch



Fully Guided Stripper



Die

**MSP3**

Package 6 each: .004(0.1), .008(0.2), .012(0.3)

SLUG FREE DIES AVAILABLE

## AVAILABLE SHAPES

STANDARD	SPECIAL	
Round	Arc Oval	Quad D
Rectangle	Arc U-Shape	2-Way Radius
Oval	Band aid	4-Way Radius 9-Way
Square	Break-Away	Radius
Single D	Cable Opening	Rect/Oval
Double D	Cable Opening with Tabs	Double Rectangle
Hexagon	Bi-Diameter	Rectangle with
Octagon	Tri-Diameter	Chamfered Corners
	Quad-Diameter	Rectangle with
	Diamond	Rounded Corners
	Ellipse	Rectangle with Tabs
	Football	Rectangle with Notch
	Keyways	Teardrop
	Keyholes	Trapezoid
	Parallelogram	Triangle
	Pentagon	

## AVAILABLE SHEARS

STANDARD	OPTIONAL	
Flat	Rooftop	1-Way
	2-Way Concave	4-Way Concave



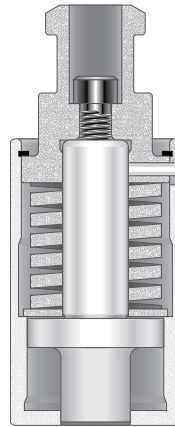


Shape Chuck Assembly

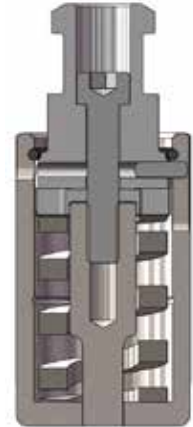


Round Chuck Assembly

**P9 FULLY GUIDED PERFORATING TOOL**



**PØ FULLY GUIDED PERFORATING TOOL**



**P9 ORDER GUIDE**

PART NUMBER	DESCRIPTION	
<b>PUNCHES</b>		
PAPSOA	Round	
PAPS_A	Shape	
<b>FULLY GUIDED STRIPPERS</b>		
S2PN0A	Round	
S2PN_A	Shape	
<b>DIES</b>		
DAPCOA	Round	
DAPC_A	Shape	
<b>COMPLETE UPPER ASSEMBLY</b>		
(Punch, Fully Guided Stripper, Chuck Assembly)		
Round		
Standard Shape*		
<b>CHUCK ASSEMBLY</b>		
(Chuck, Spring, Retaining Ring, Drawbolt)		
VCPCS	Round and Shapes	
<b>CHUCK ASSEMBLY REPLACEMENT PARTS</b>		
VPPC00CH	Chuck	
SPR00035	Spring	
VPPC00SW	Spring Washer	
SHC12298	Drawbolt	
MIS97287	Retaining Ring	
<b>ASSEMBLY FIXTURE</b>		
MATE02484	Complete Assembly	

**PØ ORDER GUIDE**

PART NUMBER	DESCRIPTION	
<b>PUNCHES</b>		
PAPTOA	Round	
PAPT_A	Shape	
<b>FULLY GUIDED STRIPPERS</b>		
S2PT0A	Round	
S2PT_A	Shape	
<b>DIES</b>		
DAPCOA	Round	
DAPC_A	Shape	
<b>COMPLETE UPPER ASSEMBLY</b>		
(Punch, Fully Guided Stripper, Chuck Assembly)		
Round		
Standard Shape*		
<b>CHUCK ASSEMBLY</b>		
(Chuck, Spring, Retaining Ring, Drawbolt)		
MATE02344	Round	
MATE02345	Shape	
<b>CHUCK ASSEMBLY REPLACEMENT PARTS</b>		
MATE02341	Chuck, Round	
MATE02343	Chuck, Shape	
SPR33443	Spring	
SHC00033	Drawbolt	
MATE02477	Retaining Ring	
<b>ASSEMBLY FIXTURE</b>		
MATE02484	Complete Assembly	

**AVAILABLE OPTIONS**

GENERAL	
Non-Standard Straight before Radius (SBR) Dimension	
Special Angle Settings	
Optional Shear	
COATINGS AND TREATMENTS	
SuperMax™ Coating	
Maxima™ Coating	
Nitride Treatment	

SMALL DIAMETER ROUND TOOLS	
Diameter 0.020(0,51) to 0.061(1,55)	
Diameter 0.062(1,56) to 0.092(2,34)	
Special Angle Settings	
NARROW WIDTH SHAPE TOOLS	
Widths under 0.079(2,00)	

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## **MATE PRECISION TOOLING** GLOBAL COVERAGE

### **WORLDWIDE HEADQUARTERS:**

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