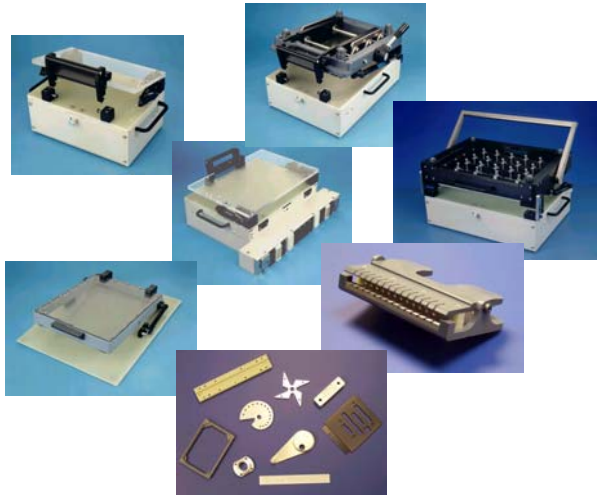


**SEMCO MACHINE  
CORPORATION**

# Product Catalog



January 2002

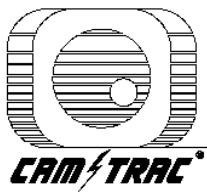
**SEMCO MACHINE CORPORATION**

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**SEMCO MACHINE  
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## Product Classification

<b>MECHANICAL TEST KITS &amp; SIDE ACCESS UNIT</b>	Series 10, 11, 12
<b>VACUUM OVERCLAMPS</b>	Series 20, 21, 22
<b>GENRAD MECHANICAL KITS</b>	Series 30, 31
<b>GENRAD RECEIVERS</b>	Series 32
<b>CAM/TRAC® TEST KITS</b>	Series 40, 41
<b>GENRAD CAM/TRAC®</b>	Series 43
<b>CAM/TRAC® UPPER TEST HEAD</b>	Series 44
<b>CAM/GATE</b>	Series 45
<b>CAM/TRAC® TEST STATION &amp; INTERFACES</b>	Series 48
<b>VACUUM SEALING BOXES STD &amp; CUSTOM</b>	Series 50, 51, 58
<b>VACUUM TEST KITS</b>	Series 63, 66
<b>WIRELESS</b>	Series 73, 78
<b>INTERFACE MODULES</b>	
<b>HARDWARE</b>	

Note: Call for Availability and Special Requirements

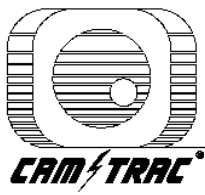
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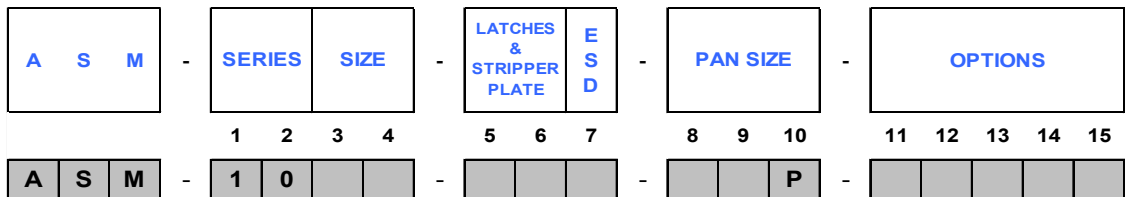


# SEMCO MACHINE CORPORATION

## ASM SERIES 10 - MT MECHANICAL TEST KITS

Semco's MT Series 10 mechanical test kits are an inexpensive solution to printed circuit board testing. With multiple configurations and available options, this product is sure to meet your testing needs.

The MT Series features a hinged 3/8" FR4 probe plate, tooling holes for accurate drilling, and side handles for easy transportation



### Kit Sizes and Available Pan Sizes

3	4	Numbering Code Location			8	9	10
KIT SIZE		Description	Actual Size	Max UUT	Pan Style Available		
0	1	MT-101	8"x12"	5"x6"	2.5", 4.0"		
0	2	MT-101S	12"x8"	9"x4"	2.5", 4.0"		
0	3	MT-102	12"x16"	9"x10"	2.5", 4.0"		
0	4	MT-102S*	16"x12"	13"x7"	2.5", 4.0", Slope		
0	5	MT-103*	16"x20"	13"x14"	4.0", 8.0"		
0	6	MT-103S	20"x16"	17"x10"	4.0", 8.0", Slope		
0	7	MT-104	20"x24"	17"x18"	4.0"		
0	8	MT-104S	24"x20"	21"x14"	4.0", 8.0", Slope		
1	0	MT-105S	30"x20"	27"x18"	4.0", 10.0", Slope		

### UHA, Latches, Stripper Plate & ESD

5	6	7	Numbering Code Location
-	-	-	No Latches, No Options, 4" Pan
X			Pan Latches
X	T		Pan Latches & Stripper Plate
U			Upper Head Assembly - No Pan
B			Bare Board & Pan - No UHA
B	X		Bare Board, Pan & Pan Latches
		E	ESD

### Available Options

11	12	13	14	15	No. Code Location
A					Gas Shocks
	W				Microswitch
		H			Extender Handle *
			R		Riser Blocks

### Riser Block Sizes

R1 = .250"	R5 = .750"
R3 = .500"	R7 = 1.00"

Note: Call for Availability and Special Requirements

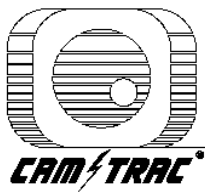
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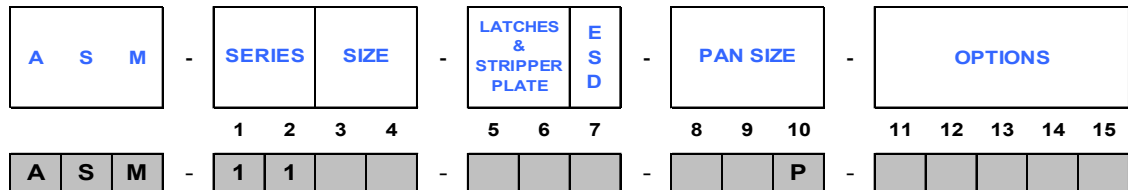
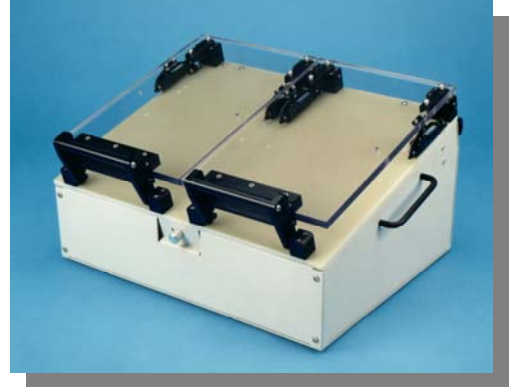


# SEMCO MACHINE CORPORATION

## ASM SERIES 11 - MT DUAL WELL MECHANICAL TEST KITS

Semco's MT Series 11 dual well mechanical test kits are an inexpensive solution to printed circuit board testing. With multiple configurations and available options, this product is sure to meet your testing needs.

The MT Series features a hinged 3/8" FR4 probe plate, tooling holes for accurate drilling, and side handles for easy transportation



### Kit Sizes and Available Pan Sizes

3	4	Numbering Code Location			8	9	10
KIT SIZE		Description	Actual Size	Max UUT	Pan Style Available		
0	4	MT-102S-DW	16"x12"-DW	4.5"x6" (2)	2.5", 4.0", Slope		
0	6	MT-103S-DW	20"x16"-DW	6.5"x10" (2)	4.0", 8.0", Slope		
0	8	MT-104S-DW	24"x20"-DW	8.5"x14" (2)	4.0", 8.0", Slope		
1	0	MT-105S-DW	30"x20"-DW	11.5"x14" (2)	4.0", 10.0", Slope		

### UHA, Latches, Stripper Plate & ESD

5	6	7	Numbering Code Location
-	-	-	No Latches, No Options, 4" Pan
X			Pan Latches
X	T		Pan Latches & Stripper Plate
U			Upper Head Assembly - No Pan
		E	ESD

### Available Options

11	12	13	14	15	No. Code Location
A					Gas Shocks Microswitch Riser Blocks
	W				
		R			

### Riser Block Sizes

R1 = .250"	R5 = .750"
R3 = .500"	R7 = 1.00"

Note: Call for Availability and Special Requirements

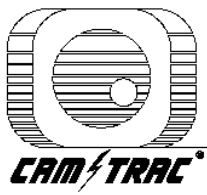
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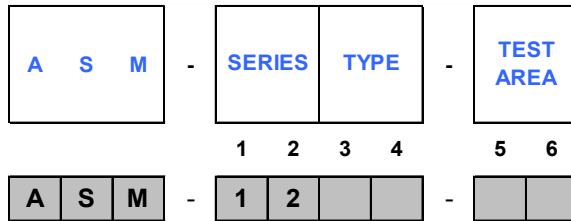


# SEMCO MACHINE CORPORATION

## ASM SERIES 12 - SAU SIDE ACCESS UNIT

Semco's SAU Series 12 Side Access unit is a simple and inexpensive way to probe PC Boards which require probing to right angle connectors. Available in either mechanical or automatic configurations, this product provides both a simple and reliable solution to side probing.

The model 1210 Mechanical version may be used as a stand alone unit or in conjunction with a variety of Semco Mechanical or Vacuum fixtures. The 1220 Automatic model is typically used with Semco's Camtrac® or CamGate test fixtures with Z motion.



### Unit Type and Horizontal Travel

3	4	Numbering Code Location	
UNIT TYPE		Description	Horizontal Travel
1	0	Mechanical SAU	0.88"
2	0	Automatic SAU*	0.50"

\*1220 formerly model 8220

### Unit Test Area

5	6	Numbering Code Location
		Test Area for Model 1210
0	6	6.00"
0	9	9.00"
		Test Area for Model 1220
0	4	4.25"
0	9	9.62"
1	6	16.00"

Note: Call for Availability and Special Requirements

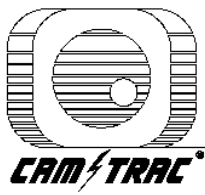
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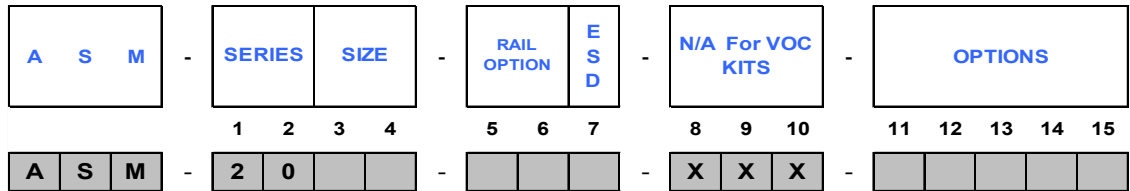
# SEMCO MACHINE CORPORATION

## ASM SERIES 20 - VOC VACUUM OVERCLAMP KITS

Semco's VOC Series 20 overclamps are used for testing bare or loaded printed circuit boards with open vias and to minimize board flex.

The VOC Series 20 overclamp comes with adjustable delrin pressure fingers, anti-rotating hex nuts, hinge and latching assemblies, mounting instructions and hardware

The VOC Series 20 overclamps will accommodate fixtures with dress frames or newer style fixtures using full size top plates



### Kit Sizes Available

3	4	Numbering Code Location				
KIT SIZE		Description	Fixture Size	Max UUT	No. Rails	No. Fingers
0	1	VOC-101	16"x12"	9.6"x6.5"	4	14
0	2	VOC-102	20"x16"	13.6"x9.5"	5	18
0	3	VOC-103	24"x20"	17.6"x13.5"	6	22
0	5	VOC-102S	24"x20"	17.6"x9.5"	5	18
0	9	VOC-101-HP	16"x18"	9.6"x11.5"	5	18

### Rail Options & ESD

5	6	7	Numbering Code Location
S			Standard Rails
R			Solid Rails
G			G-10 Insert
L			Lexan Insert
		E	ESD

### Available Options

11	12	13	14	15	No. Code Location
A					Gas Shocks
	W				Microswitch
		H			Extender Handle
			S		Top Plate Stiffener
				R	Riser Blocks

### Riser Block Sizes

R1 = .250"	R5 = .750"
R3 = .500"	R7 = 1.00"

Note: Call for Availability and Special Requirements

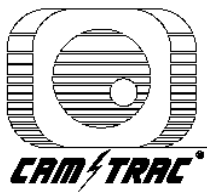
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# SEMCO MACHINE CORPORATION

## ASM SERIES 21 - VOC DUAL WELL VACUUM OVERCLAMP KITS

Semco's VOC Series 21 dual overclamps are used for testing bare or loaded printed circuit boards with open vias and to minimize board flex.

The VOC Series 21 dual overclamp comes with adjustable delrin pressure fingers, anti-rotating hex nuts, hinge and latching assemblies, mounting instructions and hardware

The VOC Series 21 dual overclamps will accommodate fixtures with dress frames or newer style fixtures using full size top plates

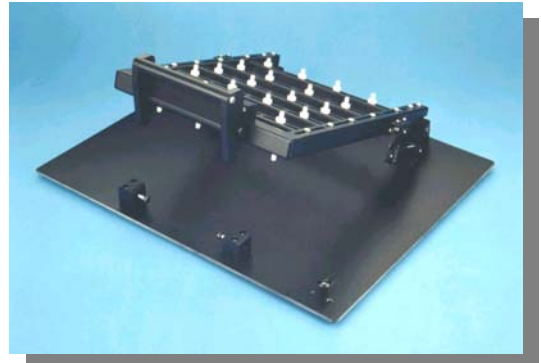
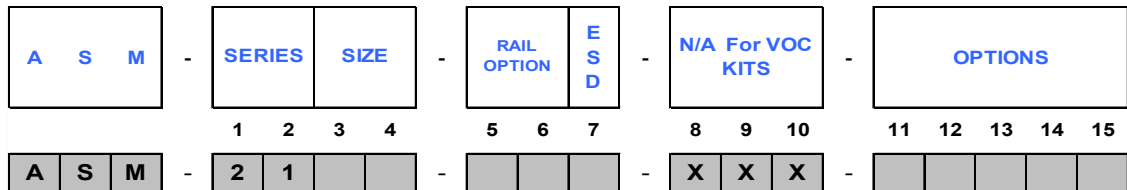


Photo is of Single Well Unit



### Kit Sizes Available

3	4	Numbering Code Location				
KIT SIZE		Description	Fixture Size	Max UUT	No. Rails	No. Fingers
0	4	VOC-102-DW2	20"x16"-DW	4.3"x9.5"	5	18
0	6	VOC-103-DW	24"x20"-DW	5.5"x11.5"	5	18
0	7	VOC-102-DW1	20"x16"-DW	4.3"x5.5"	4	12

### Rail Options & ESD

5	6	7	Numbering Code Location
S			Standard Rails
R			Solid Rails
G			G-10 Insert
L			Lexan Insert
		E	ESD

### Available Options

11	12	13	14	15	No. Code Location
A					Gas Shocks
	W				Microswitch
		H			Extender Handle
			S		Top Plate Stiffener
				R	Riser Blocks

### Riser Block Sizes

R1 = .250"	R5 = .750"
R3 = .500"	R7 = 1.00"

Note: Call for Availability and Special Requirements

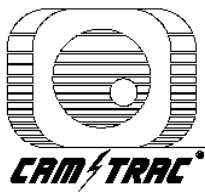
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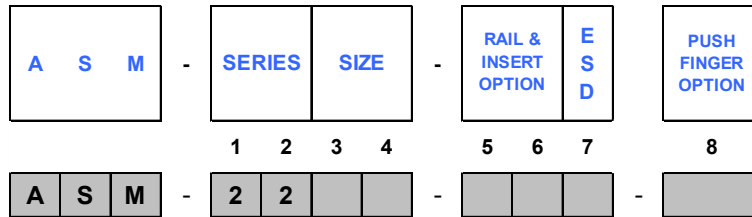
# SEMCO MACHINE CORPORATION

## ASM SERIES 22 - VOC HEAVY DUTY VACUUM OVERCLAMP KITS

Semco's VOC Series 22 Heavy Duty Overclamps are used for testing high pin count bare or loaded printed circuit boards with open vias. The rugged design of the VOC Series 22 is designed to accept the higher pressures resulting from high probe counts while minimizing board flex.

The VOC Series 22 Heavy Duty Overclamps come with fixed delrin pressure fingers, hinge and latching assemblies, mounting instructions and hardware.

VOC Series 22 Heavy Duty Overclamps will accommodate fixtures with dress frames as well as newer style fixtures using full size top plates



### Kit Sizes Available

3	4	Numbering Code Location					
KIT SIZE	Description	Overclamp Size	Test Fixture Size	Max UUT	No. Rails	No. Fingers	
0	6	HDOC-103S	16"x12"	20"x16"	13"x9"	6	36
0	8	HDOC-104S	20"x16"	24"x20"	17"x13"	8	48
1	0	HDOC-105S	24"x16"	30"x20" (or) 30"x18" HP	21"x13"	12	72
1	2	HDOC-106S	24"x20"	30"x24"	21"x17"	12	72

### Rail - Insert & ESD

5	6	7	Numbering Code Location
H			Solid Rails -Horizontal
V			Solid Rails -Vertical
	G		G-10 Insert
	L		Lexan Insert
		E	ESD

### Push Finger Options

8	Push Finger Options
F1	Rails - .100 UUT Stop
F2	Rails - .125 UUT Stop
F3	Insert - .100 UUT Stop
F4	Insert - .125 UUT Stop
FC	Custom - Call for details

**Note:**

Choose desired Rail (H/V) and Push Finger (F) configuration  
Custom Push Finger sizes and UUT Stops available

**Note:** Call for Availability and Special Requirements

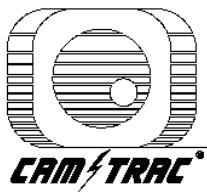
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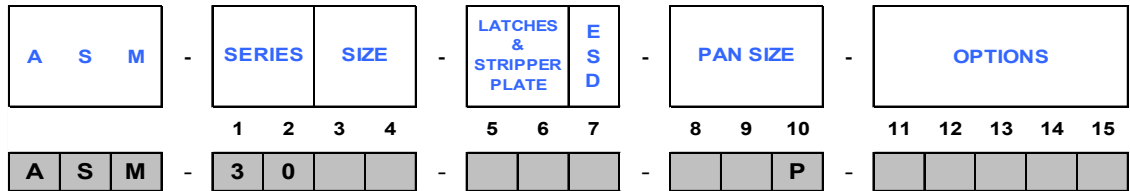
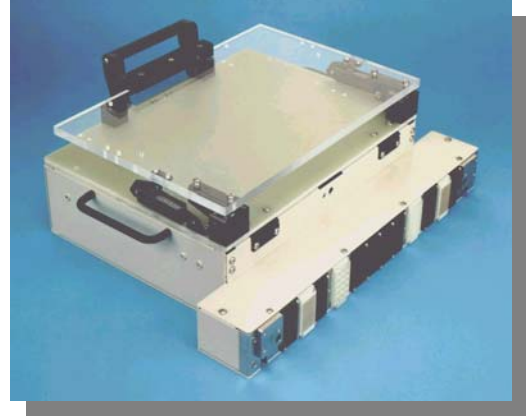


# SEMCO MACHINE CORPORATION

## ASM SERIES 30 - GR GENRAD MECHANICAL KITS

Semco's GR Series 30 mechanical kits are an inexpensive solution to printed circuit board testing that requires the benefits of interface compatibility

The GR Series 30 features a hinged 3/8" FR4 probe board, tooling holes for precision alignment, removal sides for rapid fixture modifications, and pan latch assemblies.



### Kit Sizes and Available Pan Sizes

3	4	Numbering Code Location			8	9	10
KIT SIZE	Description	Actual Size	Max UUT	Pan Style Available			
0 4	MT-GR-102S*	16"x12"	13"x7"	2.5", 4.0", Slope			
0 5	MT-GR-103	16"x20"	13"x14"	4.0", 6.0"			
0 6	MT-GR-103S	20"x16"	17"x10"	2.5", 4.0", 8.0", SL			
0 8	MT-GR-104S	24"x20"	21"x14"	4.0", 8.0", Slope			

### Pan Latches, Stripper Plate & ESD

5	6	7	Numbering Code Location
X			Pan Latches
X	T		Pan Latches & Stripper Plate
B			Bare Board & Pan - No UHA
B	X		Bare Board, Pan & Pan Latches
		E	ESD

### Available Options

11	12	13	14	15	No. Code Location
A					Gas Shocks
	W				Microswitch
		H			Extender Handle*
			R		Riser Blocks

### Riser Block Sizes

R1 = .250"	R5 = .750"
R3 = .500"	R7 = 1.00"

Note: Call for Availability and Special Requirements

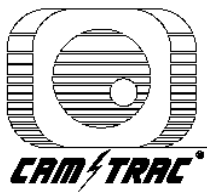
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# SEMCO MACHINE CORPORATION

## ASM SERIES 31 - GR GENRAD DUAL WELL MECHANICAL KITS

Semco's GR Series 31 dual well mechanical kits are an inexpensive solution to printed circuit board testing that requires the benefits of interface compatibility

The GR Series 31 features a hinged 3/8" FR4 probe board, tooling holes for precision alignment, removal sides for rapid fixture modifications, and pan latch assemblies.

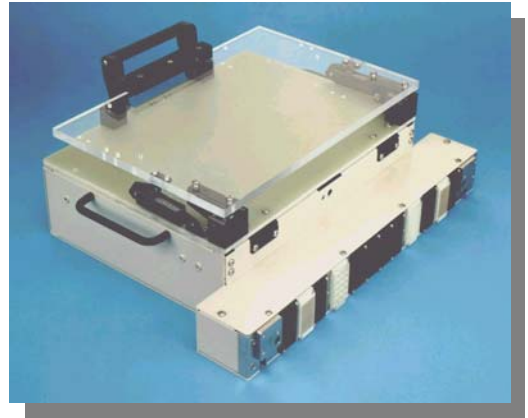
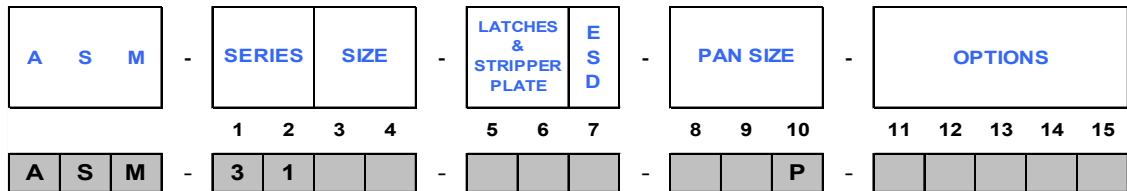


Photo is of Single Well Unit



### Kit Sizes and Available Pan Sizes

3	4	Numbering Code Location			8	9	10
KIT SIZE	Description	Actual Size	Max UUT	Pan Style Available			
0 4	MT-GR-102S-DW	16"x12"-DW	4.5"x6" (2)	2.5", 4.0", Slope			
0 6	MT-GR-103S-DW	20"x16"-DW	6.5"x10" (2)	2.5", 4.0", 8.0", SL			
0 8	MT-GR-104S-DW	24"x20"-DW	8.5"x14" (2)	4.0", 8.0", Slope			

### Pan Latches, Stripper Plate & ESD

5	6	7	Numbering Code Location
X			Pan Latches
X	T		Pan Latches & Stripper Plate
		E	ESD

### Available Options

11	12	13	14	15	No. Code Location
A					Gas Shocks
	W				Microswitch
			R		Riser Blocks

### Riser Block Sizes

R1 = .250"	R5 = .750"
R3 = .500"	R7 = 1.00"

Note: Call for Availability and Special Requirements

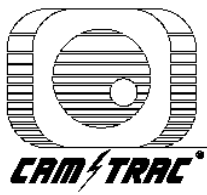
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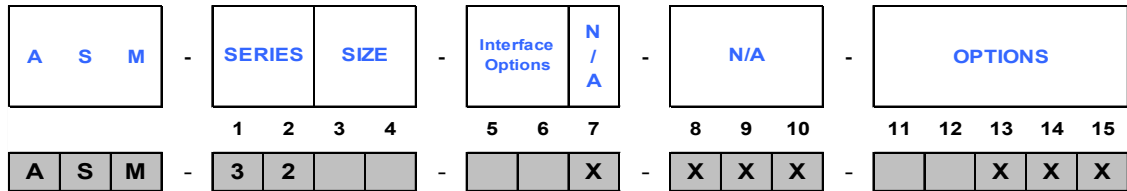
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# SEMCO MACHINE CORPORATION

## ASM SERIES 32 - GR GENRAD FLAT RECEIVERS

Semco's GR Series 32 Flat Receiver is designed for interfacing the GR 2270 style test fixture. Using Semco's patented CAM/TRAC® design, the Series 32 Flat Receiver provides a locking system that assures consistent contact throughout the entire interface. With a 5/8" stroke, the Series 32 Flat Receiver allows additional clearance for coax and custom block applications. Bench top mounting holes are provided



### Available Sizes

3	4	Numbering Code Locations
SIZE		Description
1	0	GenRad Flat Receiver

### Interface Types

5	6	Numbering Code Location
-	V	For vacuum fixtures - with 2 vacuum ports
-	M	For mechanical fixtures - with 12 position interface

### Available Options

11	12	13	14	15	No. Code Location
W	C				Microswitch *Custom Modifications

\* Call to discuss your requirements with our engineers

Note: Call for Availability and Special Requirements

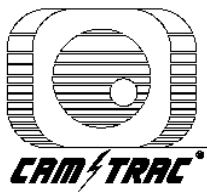
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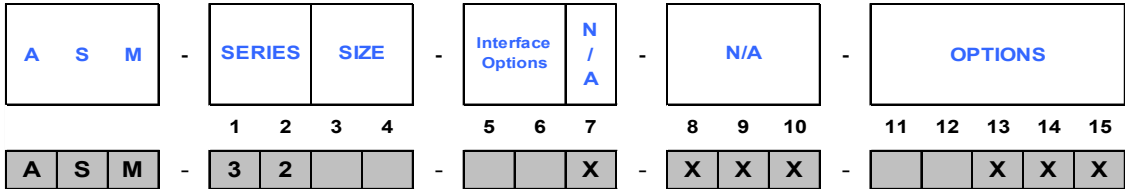
e-mail: semco@camtrac.com



# SEMCO MACHINE CORPORATION

## ASM SERIES 32 - GR GENRAD SLOPE RECEIVERS

Semco's GR Series 32 Slope Receiver is designed for interfacing the GR 2270 style test fixture. Using Semco's patented CAM/TRAC® design, the Series 32 Slope Receiver provides a locking system that assures consistent contact throughout the entire interface. With a 5/8" stroke, the Series 32 Slope Receiver allows additional clearance for coax and custom block applications. Bench top mounting holes are provided



### Available Sizes

3	4	Numbering Code Locations
SIZE		Description
1	1	GenRad Slope Receiver

### Interface Types

5	6	Numbering Code Location
-	V	For vacuum fixtures - with 2 vacuum ports
-	M	For mechanical fixtures - with 12 position interface

### Available Options

11	12	13	14	15	No. Code Location
W	C				Microswitch *Custom Modifications

\* Call to discuss your requirements with our engineers

Note: Call for Availability and Special Requirements

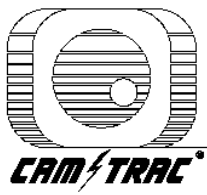
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# SEMCO MACHINE CORPORATION

## ASM SERIES 32 - GR GENRAD RACK MOUNT RECEIVERS

Semco's GR Series 32 Rack Mount Receiver is designed for interfacing the GR 2270 style test fixture with a 19" rack mount application. Using Semco's patented CAM/TRAC® design, the Series 32 Rack Mount Receiver provides a locking system that assures consistent contact throughout the entire interface. With a 5/8" stroke, the Series 32 Rack Mount Receiver allows additional clearance for coax and custom block applications. Bench top mounting holes are provided



A S M			SERIES		SIZE		Interface Options		N / A	OPTIONS							
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A	S	M	3	2					X	X	X				X	X	X

### Available Sizes

3	4	Numbering Code Locations
SIZE		Description
1	2	GenRad Rack Mount Receiver

### Interface Types

5	6	Numbering Code Location
-	V	For vacuum fixtures - with 2 vacuum ports
-	M	For mechanical fixtures - with 12 position interface

### Available Options

11	12	13	14	15	No. Code Location
W	C				Microswitch *Custom Modifications

\* Call to discuss your requirements with our engineers

Note: Call for Availability and Special Requirements

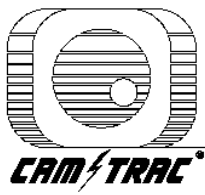
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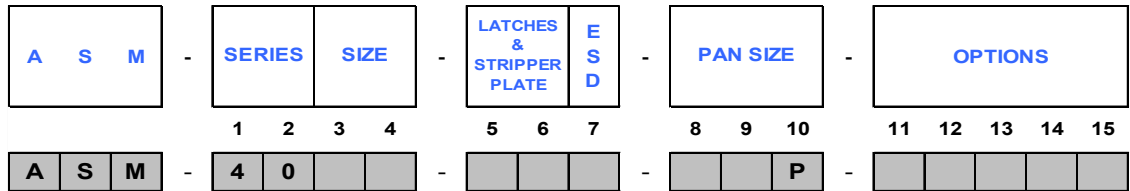
## ASM SERIES 40 - CT

### CAM/TRAC® TEST KITS

Semco's CT Series 40 CAM/TRAC® mechanical kits, utilizing the patented CAM mechanism<sup>1</sup>, offer precision linear motion. The "Z" axis motion is ideal for larger point count mechanical test applications

The CT Series 40 features a hinged 3/8" FR4 probe board, tooling holes for precision alignment, removable sides, precision shafts and cam slide block assemblies, and a pan latch assembly.

1. US Patent Number: 5,550,481



### Kit Sizes and Available Pan Sizes

3	4	Numbering Code Location			8	9	10
KIT SIZE		Description	Actual Size	Max UUT	Pan Style Available		
0	1	CT-101	8"x12"	5.5"x8.5"	2.5", 4.0"		
0	2	CT-101S	12"x8"	9.5"x4.5"	2.5", 4.0"		
0	3	CT-102	12"x16"	9"x12"	2.5", 4.0"		
0	4	CT-102S	16"x12"	13.5"x8.5"	2.5", 4.0", Slope		
0	5	CT-103	16"x20"	13.5"x16"	2.5", 4.0", 8.0"		
0	6	CT-103S	20"x16"	17.5"x12.5"	4.0", 8.0", Slope		
0	8	CT-104S	24"x20"	21.5"x16.5"	4.0", 8.0", Slope		

### UHA, Latches, Stripper Plate & ESD

5	6	7	Numbering Code Location
U			Upper Head Assembly - No Pan
X			Pan Latches
X	T		Pan Latches & Stripper Plate
		E	ESD

**Note:**

\* Choose Lexan or G10 Push Plate

\*\* Choose 1/2" or 3/4" stroke - 3/4" not available with Draw Bar Option

Handle Extender available upon request

### Available Options

11	12	13	14	15	No. Code Location
D					Draw Bar
	W				Microswitch
		L/G			Lexan/G10 Push Plate*
			K2		Stroke = .5" **
			K3		Stroke = .75" **
				R	Riser Blocks

### Riser Block Sizes

R1 = .250"	R5 = .750"
R3 = .500"	R7 = 1.00"

Note: Call for Availability and Special Requirements

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# SEMCO MACHINE CORPORATION

## ASM SERIES 41 - CT DUAL WELL CAM/TRAC® TEST KITS

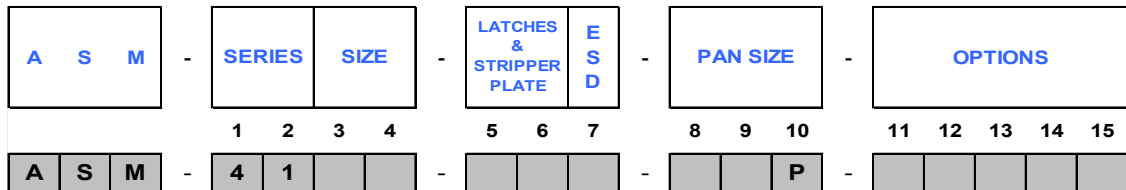
Semco's CT Series 41 dual well CAM/TRAC® mechanical kits, utilizing the patented CAM mechanism<sup>1</sup>, offer precision linear motion. The "Z" axis motion is ideal for larger point count mechanical test applications

The CT Series 41 features a hinged 3/8" FR4 probe board, tooling holes for precision alignment, removable sides, precision shafts and cam slide block assemblies, and a pan latch assembly.

1. US Patent Number: 5,550,481



Photo is of Single Well Unit



### Kit Sizes and Available Pan Sizes

3	4	Numbering Code Location			8	9	10
KIT SIZE		Description	Actual Size	Max UUT	Pan Style Available		
0	6	CT-103S-DW	20"x16"-DW	5.5"x8.5" (2)	4.0", 8.0", Slope		

### UHA, Latches, Stripper Plate & ESD

5	6	7	Numbering Code Location
U			Upper Head Assembly - No Pan
X			Pan Latches
X	T		Pan Latches & Stripper Plate
		E	ESD

**Note:**

\* Choose Lexan or G10 Push Plate

\*\* Choose 1/2" or 3/4" stroke - 3/4" not available with Draw Bar Option

Handle Extender available upon request

### Available Options

11	12	13	14	15	No. Code Location
D					Draw Bar
	W				Microswitch
		L/G			Lexan/G10 Push Plate*
			K2		Stroke = .5" **
			K3		Stroke = .75" **
				R	Riser Blocks

### Riser Block Sizes

R1 = .250"	R5 = .750"
R3 = .500"	R7 = 1.00"

### SEMCO MACHINE CORPORATION

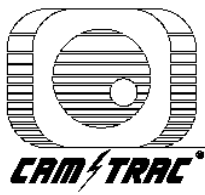
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Note: Call for Availability and Special Requirements



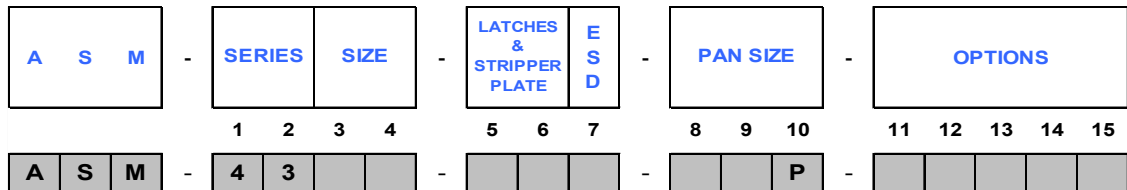
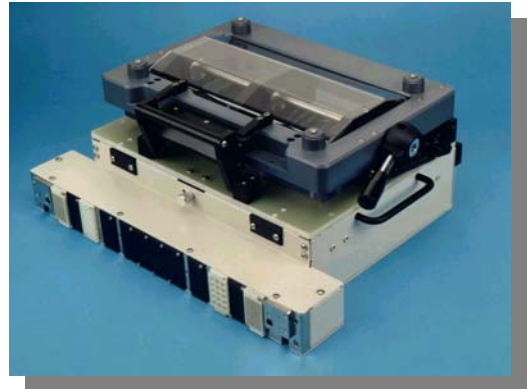
# SEMCO MACHINE CORPORATION

## ASM SERIES 43 - GR GENRAD CAM/TRAC® KITS

Semco's GR Series 43 CAM/TRAC®<sup>1</sup> kits offer the same "Z" axis motion as the standard CT series with the advantage of interface compatibility.

Standard features include locking handle assembly, 3/8" FR4 probe plate, and 12 position I/O block interface.

1. US Patent Number: 5,550,481



### Kit Sizes and Available Pan Sizes

3	4	Numbering Code Location			8	9	10
KIT SIZE		Description	Actual Size	Max UUT	Pan Style Available		
0	4	CT-GR-102S	16"x12"	13.5"x8.5"	2.5", 4.0", Slope		
0	5	CT-GR-103	16"x20"	13.5"x16"	4.0", 6.0"		
0	6	CT-GR-103S	20"x16"	17.5"x12.5"	4.0", 8.0", Slope		
0	8	CT-GR-104S	24"x20"	21.5"x16.5"	4.0", 8.0", Slope		
1	6	CT-GR-103S-DW	20"x16"-DW	5.5"x8.5" (2)	4.0", 8.0", Slope		

### Pan Latches, Stripper Plate & ESD

5	6	7	Numbering Code Location
X			Pan Latches
X	T		Pan Latches & Stripper Plate
		E	ESD

### Available Options

11	12	13	14	15	No. Code Location
D					Draw Bar
	W				Microswitch
		L/G			Lexan/G10 Push Plate*
			K2		Stroke = .5" **
			K3		Stroke = .75" **
				R	Riser Blocks

**Note:**

\* Choose Lexan or G10 Push Plate

\*\* Choose 1/2" or 3/4" stroke - 3/4" not available with Draw Bar Option  
Handle Extender available upon request

#### Riser Block Sizes

R1 = .250"	R5 = .750"
R3 = .500"	R7 = 1.00"

Note: Call for Availability and Special Requirements

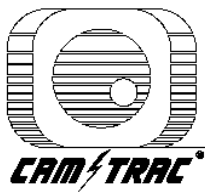
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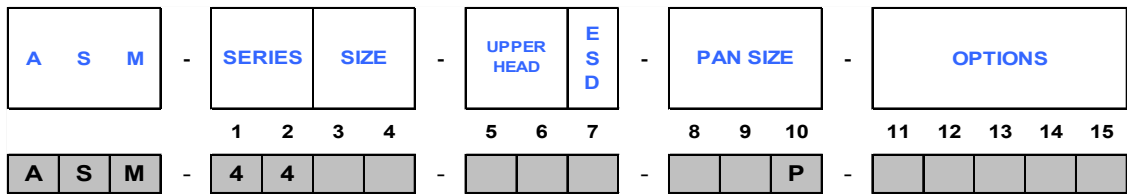


# SEMCO MACHINE CORPORATION

## ASM SERIES 44 - CT CAM/TRAC® UPPER TEST HEAD

Semco's CT Series CAM/TRAC® mechanical kits, utilizing the patented CAM mechanism<sup>1</sup>, offer precision linear motion. The CT Series 44 is available with top side probing capability. Using the CAM/TRAC® "Z" axis motion, an upper probe field is mounted to the push plate for accurate top side testing.

1. US Patent Number: 5,550,481



### Kit Sizes and Available Pan Sizes

3	4	Numbering Code Location			8	9	10
KIT SIZE	Description	Actual Size	Max UUT	Pan Style Available			
0	1	CT-101	8"x12"	5.5"x8.5"	2.5", 4.0"		
0	2	CT-101S	12"x8"	9.5"x4.5"	2.5", 4.0"		
0	3	CT-102	12"x16"	9"x12"	2.5", 4.0"		
0 (3)*	4	CT-102S	16"x12"	13.5"x8.5"	2.5", 4.0", Slope		
0 (3)*	5	CT-103	16"x20"	13.5"x16"	4.0", 6.0"		
0 (3)*	6	CT-103S	20"x16"	17.5"x12"	4.0", 8.0", Slope		
0 (3)*	8	CT-104S	24"x20"	21.5"x16"	4.0", 8.0", Slope		
1 (4)*	6	CT-103S-DW	20"x16"	5.5"x8.5" (2)	4.0", 8.0", Slope		

\* NOTE:

For single well units a (3) in this column, or for dual well units a (4) in this column indicates a Genrad GR2270 Interface

### UHA & ESD

5	6	7	Numbering Code Location
U		E	Upper Head Assembly-No Pan ESD

Note:

\* Choose Lexan or G10 Push Plate

\*\* Choose 1/2" or 3/4" stroke - 3/4" not available with Draw Bar Option  
Handle Extender available upon request

### Available Options

11	12	13	14	15	No. Code Location
D	W	L/G	K2	R	Draw Bar Microswitch Lexan/G10 Push Plate* Stroke = .5" ** Stroke = .75" ** Riser Blocks

### Riser Block Sizes

R1 = .250"	R5 = .750"
R3 = .500"	R7 = 1.00"

Note: Call for Availability and Special Requirements

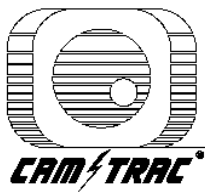
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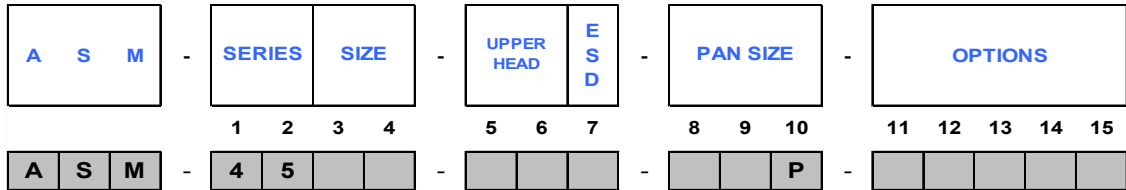


# SEMCO MACHINE CORPORATION

## ASM SERIES 45 - CG CAM/GATE KITS

Semco's CG Series 45 CAM/GATE linear overclamp kits provide an accurate "Z" axis motion using the same patented<sup>1</sup> mechanism as our CAM/TRAC® Series products. The CAM/GATE allows for easy access to the U.U.T for debugging and calibration. The latch assembly engages and releases when actuating the clamping assembly.

1. US Patent Number: 5,550,481



### Kit Sizes and Available Pan Sizes

3	4	Numbering Code Location			8	9	10
KIT SIZE		Description	Actual Size	Max UUT	Pan Style Available		
0 (3)*	1	CG-101	9"x12" (16"x12")**	5"x8.6"	2.5", 4.0"		
0 (3)*	4	CG-102S	16"x12"	12"x8.6"	2.5", 4.0", Slope		
0 (3)*	6	CG-103S	20"x16"	16"x11.8"	4.0", 8.0", Slope		
0 (3)*	8	CG-104S	24"x20"	20"x16.6"	4.0", 8.0", Slope		
8	7	CG-HP-101***	16"x18"-HP3070	10"x11.8"	Used on HP 3070		

#### GENRAD NOTES:

- \* A (3) in this column indicates a Genrad GR2270 Interface
- \*\* 16"x12" is a Genrad specific size

#### HP NOTES:

\*\*\* Part No. ASM 4587 was formerly No. ASM 8237 and is available in "U" configuration only

### Upper Head Assembly & ESD

5	6	7	Numbering Code Location
U			UHA-Choose S/F/R & G/L Options
X			Pan Latches
X	T		Pan Latches & Stripper Plate
		E	ESD

### Available Options

11	12	13	14	15	No. Code Location
W					Microswitch Solid Latch Solid Plate Floating Plate Solid Rails Lexan/G10 Plate Riser Blocks
	B				
		S			
		F			
		R			
			L/G		
				R	

#### Riser Block Sizes

R1 = .250"	R5 = .750"
R3 = .500"	R7 = 1.00"

Note: Call for Availability and Special Requirements

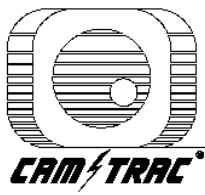
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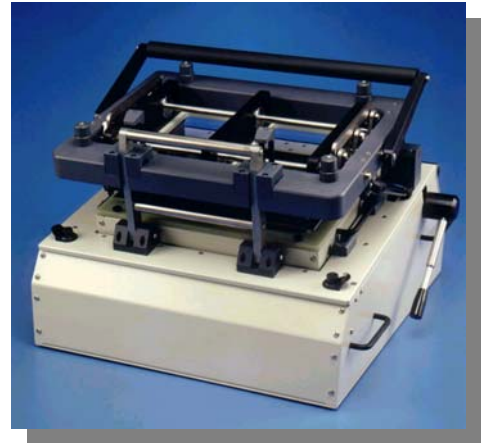


# SEMCO MACHINE CORPORATION

## ASM SERIES 48 - CT CAM/TRAC® UNIVERSAL TEST STATION

The CAM/TRAC® Series 48 Universal Test Station is an affordable solution to custom configured test platforms. The receiver is easily adaptable to test hardware through the back panel. In addition, the receiver has enough room to house power supplies, load banks, and computer peripherals. The removable kit has a 4" pan to house product specific hardware. These systems are available in stand-alone models as well as custom workstations.

Systems may be configured with or without the CAM/TRAC® unit. Base only configurations with MT style (interfaced) or vacuum actuated kits are also available.



A S M			-	SERIES		SIZE		-	N/A		E S D		-	N/A			-	OPTIONS					
				1	2	3	4		5	6	7				8	9	10		11	12	13	14	15
A	S	M	-	4	8			-	X	X		-	X	X	X	-							

### Kit Sizes Available

3	4	Numbering Code Location			
KIT SIZE		Description	Base Size	Kit Size-Type	Max Test Pts
0	0	CT-800	22"x26"	16"x12"- 4804	800
0	3	CT-1600	26"x30"	20"x16"- 4806	1600

### Available Options

11	12	13	14	15	No. Code Location
N					Pneumatic Actuation
	T				Top Side Probing
		V/M			Vacuum or Mechanical Application
			B		Base Receiver Only
				C	*Custom Modifications

\* Call to discuss your requirements with our engineers

Note: Call for Availability and Special Requirements

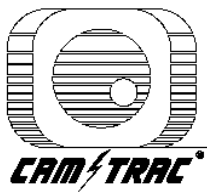
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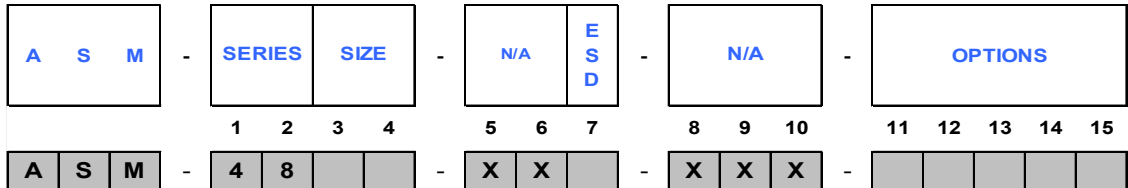
e-mail: semco@camtrac.com



# SEMCO MACHINE CORPORATION

## ASM SERIES 48 - CT CAM/TRAC® INTERFACE KITS

Semco's CT Series 48 Kits interface with the CT Series 48 Universal Test System. The kit interface is aligned to the receiver base using 3 guide pins. Kits are available in mechanical MT style, mechanical CAM/TRAC® style and vacuum style.



### Kit Sizes Available

3	4	Numbering Code Location			
KIT SIZE		Description	Actual Size	Max Test Points	Max UUT
0	4	CT-800	16"x12"	800	13.5"x8.5"
0	6	CT-1600	20"x16"	1600	17.5"x12.5"

### ESD Protection

5	6	7	Numbering Code Location
		E	ESD

### Available Options

11	12	13	14	15	No. Code Location
W	I	V/M	C		Microswitch Custom Interface Loads Vac or Mech Application *Custom Modifications

\* Call to discuss your requirements with our engineers

Note: Call for Availability and Special Requirements

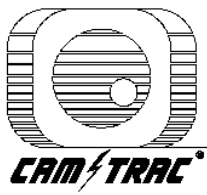
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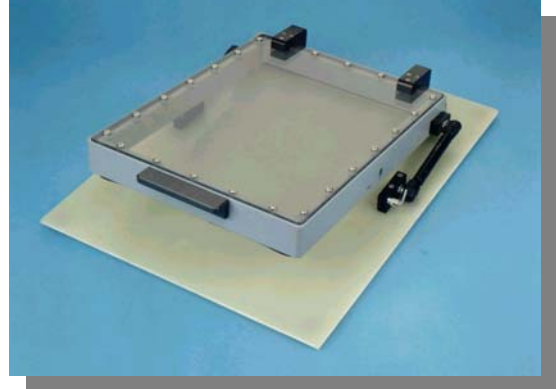
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# SEMCO MACHINE CORPORATION

## ASM SERIES 50 - VSB VACUUM SEALING BOX KITS

Semco's VSB Series 50 vacuum sealing box kits are designed for testing loaded printed circuit boards with open vias. Minimizing board flex was also a primary concern in the design of this product. The VSB Series 50 is ideal for GR Opens Express® or HP Test Jet® applications due to it's 1.300" inside closed height. The hinged top cover option provides protection for the Opens Express® or HP Test Jet® devices as well as top access probing.



A S M			SERIES SIZE				N/A For VSB KITS			E S D			N/A For VSB KITS			OPTIONS		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
A	S	M	5	0			X	X		X	X	X				X	X	

### Kit Sizes Available

3	4	Numbering Code Location			
KIT SIZE		Description	VSB Size	Fixture Size	Max UUT
0	4	VSB-102S	12"x8.5"	16"x12"	10.5"X6.5"
0	6	VSB-103S	16"x12.5"	20"x16"	14.5"X10.5"
0	8	VSB-104S	20"x16.5"	24"x20"	18.5"X14.5"
1	0	VSB-105S	23.5"x16.5"	30"x20"	22"X14.5"
1	1	VSB-106S	23.5"x21"	30"x24"	21.6"X18.5"

### ESD Option

5	6	7	Numbering Code Location
		E	ESD

### Available Options

11	12	13	14	15	No. Code Location
-	-	-			Standard Cover
T					Top Cover

Note: Call for Availability and Special Requirements

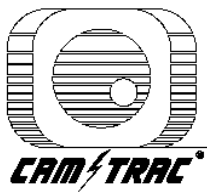
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# SEMCO MACHINE CORPORATION

## ASM SERIES 51 - VSB DUAL WELL VACUUM SEALING BOX KITS

Semco's VSB Series 51 dual well vacuum sealing box kits are designed for testing loaded printed circuit boards with open vias. Minimizing board flex was also a primary concern in the design of this product. The VSB Series 51 is ideal for GR Opens Express® or HP Test Jet® applications due to it's 1.300" inside closed height. The hinged top cover option provides protection for the Opens Express® or HP Test Jet® devices as well as top access probing.

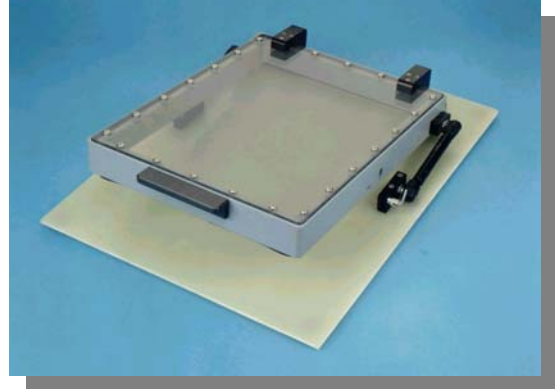


Photo is of Single Well Unit

A S M			SERIES SIZE				N/A For VSB KITS			ESD			N/A For VSB KITS			OPTIONS		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
A	S	M	5	1			X	X		X	X	X				X	X	

### Kit Sizes Available

3	4	Numbering Code Location			
KIT SIZE		Description	VSB Size	Fixture Size	Max UUT
0	4	VSB-102S-DW	8.5"x12"	20"x16"-DW	7"x10" (2)

### ESD Option

5	6	7	Numbering Code Location
		E	ESD

### Available Options

11	12	13	14	15	No. Code Location
-	-	-			Standard Cover
T					Top Cover

Note: Call for Availability and Special Requirements

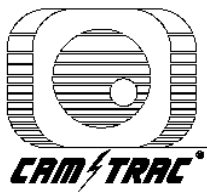
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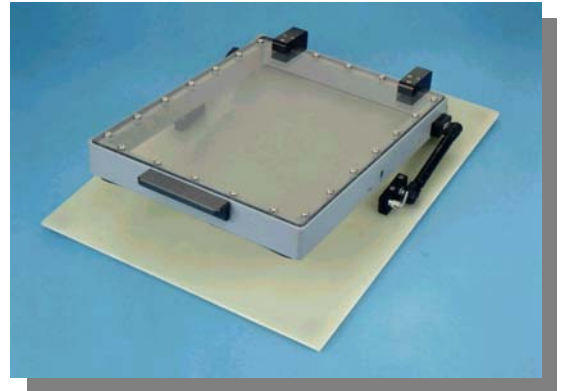


# SEMCO MACHINE CORPORATION

## ASM SERIES 58 - VSB HP 3070 CUSTOM VACUUM SEALING BOX KITS

Semco's VSB Series 58\* HP 3070 custom vacuum sealing box kits are designed for testing loaded printed circuit boards with open vias. Minimizing board flex was also a primary concern in the design of this product. The VSB Series 58\* is ideal for HP Test Jet® applications due to it's 1.300" inside closed height. The hinged top cover option provides protection for the HP Test Jet® devices as well as top access probing.

\* Formerly ASM 80 and 81 series



A S M			SERIES		SIZE		N/A For VSB KITS			E S D		N/A For VSB KITS			OPTIONS		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A	S	M	5	8			X	X		X	X	X				X	X

### Kit Sizes Available

3	4	Numbering Code Location		
KIT SIZE		Description	Fixture Size	Max UUT
0	0	VSB-HP-101B	16"x18"HP	12.5"X11"
0	1	VSB-HP-101	16"x18"HP	10.5"x13"
0	2	VSB-HP-102	16"x18"HP	17"X13.5"
0	7	VSB-HP-103	18"x30"HP	20.5"X13.5"
2	5	VSB-HP-101-DW	16"x18"HP-DW	5.6"x10" (2)

### ESD Option

5	6	7	Numbering Code Location
		E	ESD

### Available Options

11	12	13	14	15	No. Code Location
-	-	-			Standard Cover
T					Top Cover

Note: Call for Availability and Special Requirements

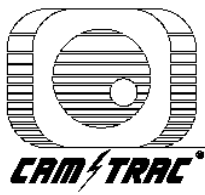
### SEMCO MACHINE CORPORATION

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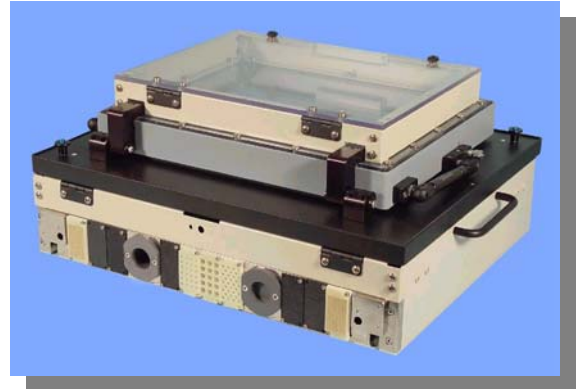
# SEMCO MACHINE CORPORATION

## ASM SERIES 63 - VT GENRAD 2270/71 INTERFACE VACUUM TEST KITS

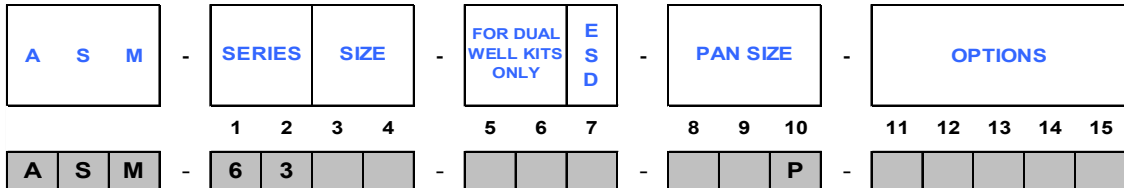
Semco's VT Series 63 vacuum test kits provide both an affordable and versatile solution for printed circuit board testing requiring a Genrad 2270/71 interface.

The VT Series 63 kits, available in Single and Dual Well models, incorporate a robust design which includes a variety of pans for easy access, dedicated registration pins, quick release pins and both an FR-4 top plate and probe plate. The interface has 1700 points. Coaxial and 170 pin interface blocks are available

Semco also offers a wide variety of support products to enhance the flexibility of its VT test kits, including Vacuum Sealing Boxes and Overclamps as well as Cam/Trac and Cam/Gate Upper Test Heads



Shown with available Vacuum Box and Interface Blocks



### Kit Sizes Available

3	4	Numbering Code Location			8	9	10
KIT SIZE		Description	Actual Size	Max UUT	Pan Style Available		
0	4	VT-GR -102S	16"x12"	12"x8"	2.5", 4.0", Slope		
0	6	VT-GR -103S	20"x16"	16"x12"	2.5", 4.0", 8.0", SL		
0	8	VT-GR-104S	24"x20"	20"x16"	4.0", 8.0", Slope		
1	0	VT-GR -105S	30"x20"	26"x16"	4.0", Slope		
0	6	VT-GR -103S-DW	20"x16"-DW	7.5"x12" (2)	2.5", 4.0", 8.0", SL		
0	8	VT-GR-104S-DW	24"x20"-DW	9.5"x16" (2)	4.0", 8.0", Slope		
1	0	VT-GR -105S-DW	30"x20"-DW	12.5"x16" (2)	4.0", Slope		

### Dual Well & ESD

5	6	7	Numbering Code Location
D	W	E	Dual Well Fixture ESD

### Available Options

11	12	13	14	15	No. Code Location
W	G	K		C	Microswitch Ground Plane Cycle Counter  *Custom Modifications

\* Call to discuss your requirements with our engineers

Note: Call for Availability and Special Requirements

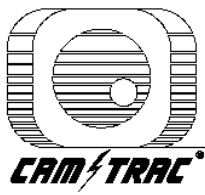
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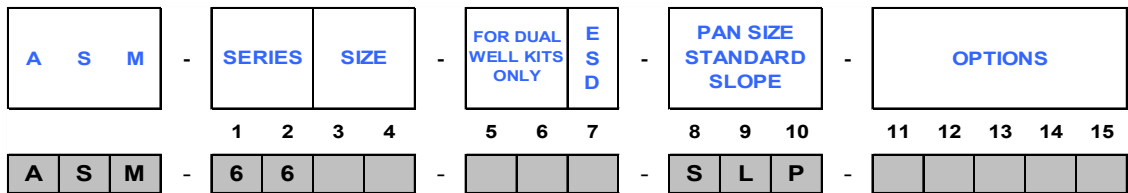
# SEMCO MACHINE CORPORATION

## ASM SERIES 66 - VT TERADYNE 18XX INTERFACE VACUUM TEST KITS

Semco's VT Series 66 vacuum test kits provide both an affordable and versatile solution for printed circuit board testing requiring a Teradyne 18XX interface.

The VT Series 66 kits incorporate a robust design which includes: a slope pan for easy access to wiring and the interface, dedicated registration pins, quick release pins and both an FR-4 top plate and probe plate. Kits are available in both Single and Dual Well models.

Semco also offers a wide variety of support products to enhance the flexibility of its VT test kits, including Vacuum Sealing Boxes, Vacuum Overclamps as well as Cam/Trac and Cam/Gate Upper Test Heads



### Kit Sizes Available

3	4	Numbering Code Location			
KIT SIZE		Description	Actual Size	Max UUT	Max Test Pts
0	4	VT-TD -102S	16"x12"	12"x8"	320
0	6	VT-TD -103S	20"x16"	16"x12"	640
1	0	VT-TD -105S	30"x20"	26"x16"	1024
0	6	VT-TD-103S-DW	20"x16"	7.5"x12" (2)	640
1	0	VT-TD-105S-DW	30"x20"	12.5"x16" (2)	1024

Note: Kits come with Standard 7 degree Slope Pan

### ESD Protection

5	6	7	Numbering Code Location
D	W	E	Dual Well Fixture ESD

### Available Options

11	12	13	14	15	No. Code Location
W	G	K		C	Microswitch Ground Plane Cycle Counter  *Custom Modifications

\* Call to discuss your requirements with our engineers

Note: Call for Availability and Special Requirements

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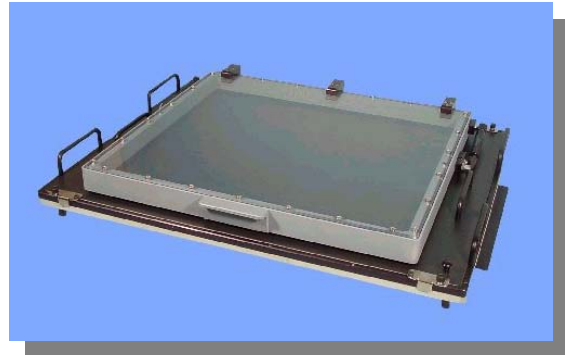


# SEMCO MACHINE CORPORATION

## ASM SERIES 73 - WIR GENRAD INTERFACE WIRELESS TEST FIXTURE

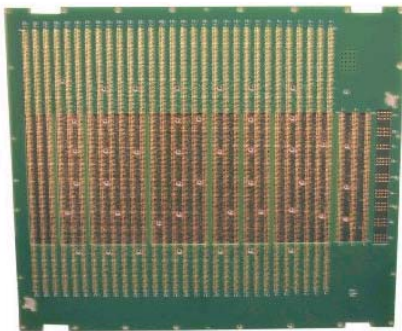
Semco Machine Corporation is licensed to manufacture and sell and Wireless Test Fixture Kits under US Patents 5,550,606 and 5,157,325. Semco's WIR Series 73 Wireless Test Fixtures are machined to close tolerances so as to ensure consistent and uniform probe stroke on both the U.U.T and I.P.C.B sides of the fixture. The Series 73 Fixtures are for use with Genrad's 2287L, 2282 and 2286 interfaces.

Test Fixtures are sold with or without Semco's Vacuum Sealing Box and optional Top Cover. Semco also provides value added suppliers for I.P.C.B. fabrication and finishing resources.

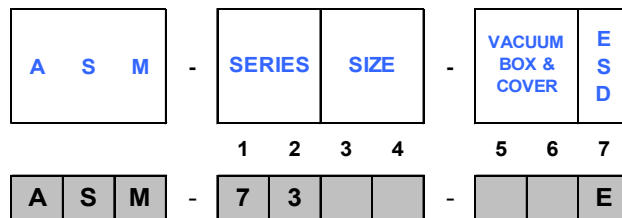


Fixture Shown with Vacuum Box

The unique one piece cavity design of the Interface Printed Circuit Board, patent pending, provides a higher degree of reliability by eliminated solder joints and their associated inherent problems. The dual level design, which is built to Genrad dimensional specifications, ensures proper probe stroke as specified by the probe vendors.



Genrad 2287L Interface P.C.B



### Kit Sizes Available

3	4	Numbering Code Location			
KIT SIZE		Description	Fixture Size	Max UUT	Max UUT w/Vac Box
0	8	WIR-GR -2282/86	24"x19"	17.5"x13.5"	17.3"x13.3"
1	0	WIR-GR-2282/86	30"x20"	22.3"x16.5"	22"x14.5"
1	2	WIR-GR -2287L	30"x24"	22.3"x18.5"	21.5"x18.5"

### Vacuum Box & ESD

5	6	7	Numbering Code Location
-	-	-	No Vacuum Box
V			With Vacuum Box
V	T		With Vacuum Box & Top Cover
		E	ESD Protection (Standard)

Note: Call for Availability and Special Requirements

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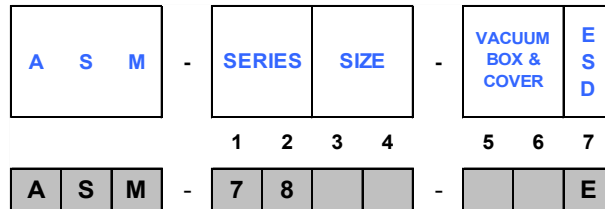
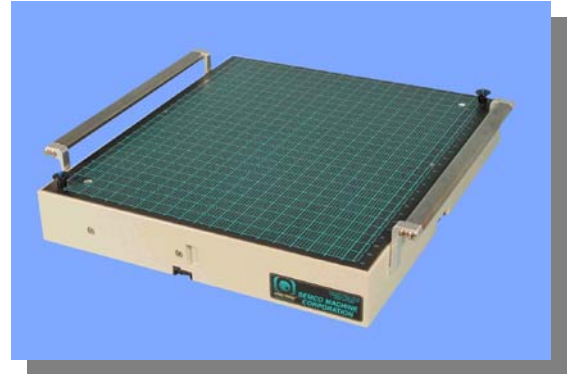


# SEMCO MACHINE CORPORATION

## ASM SERIES 78 - WIR HP-3070 INTERFACE WIRELESS TEST FIXTURE

Semco Machine Corporation is licensed to manufacture and sell and Wireless Test Fixture Kits under US Patents 5,550,606 and 5,157,325. Semco's WIR Series 78 Wireless Test Fixtures are machined to close tolerances so as to ensure consistent and uniform probe stroke on both the U.U.T and I.P.C.B sides of the fixture. The Series 78 Fixtures are for use with HP's 3070 interface.

Test Fixtures are sold with or without Semco's Vacuum Sealing Box and optional Top Cover. Semco also provides value added suppliers for I.P.C.B. fabrication and finishing resources.



### Kit Sizes Available

3	4	Numbering Code Location			
KIT SIZE		Description	Fixture Size	Max UUT	Max UUT w/Vac Box
0	6	WIR-HP-3070 Single Bank	16"x18"	14"x13"	13"x10.5"
1	0	WIR-HP-3070 Dual Bank	30"x18"	25"x16"	20.5"x13.5"

### Vacuum Box & ESD

5	6	7	Numbering Code Location
-	-	-	No Vacuum Box
V			With Vacuum Box
V	T		With Vacuum Box & Top Cover
		E	ESD Protection (Standard)

Note: Call for Availability and Special Requirements

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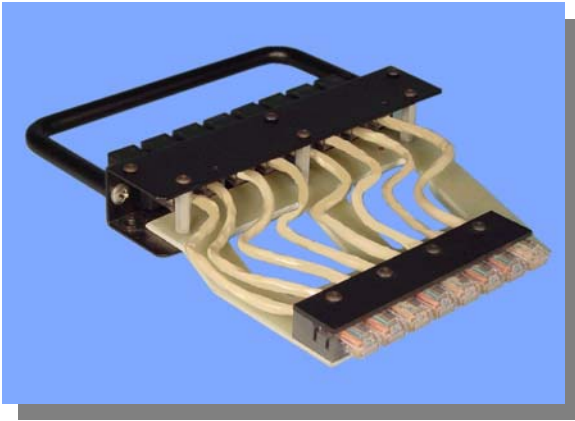
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e-mail: [semco@camtrac.com](mailto:semco@camtrac.com)

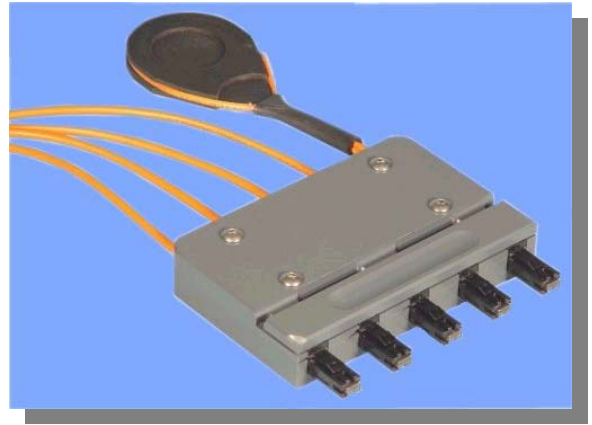


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## INTERFACE MODULES



RJ 45 Interface Module



Fiber Optic Interface Module  
(patent pending)

Semco Machine Corporation manufactures a variety of Network Interface Modules which interface with RJ 45 or fiber optic connectors. The modules are designed to permit rapid connection and disconnection to respective interfaces. The Fiber Optic Interface Module (patent pending) is also available for rapid removal and re-insertion of fiber optic dust covers.

The basic design of both units is such that various configurations can be fabricated to meet your specific application.

### RJ 45 Interface Module

The typical RJ 45 Interface Module contains 8 connectors although units have been fabricated with up to 16 (2 rows of 8)

### Fiber Optic Interface Module

The typical Fiber Optic Module contains 5 connectors or is capable of removing 5 dust covers simultaneously.

Note: Call for Availability and Special Requirements

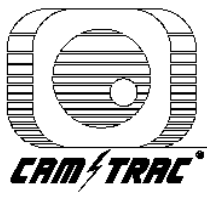
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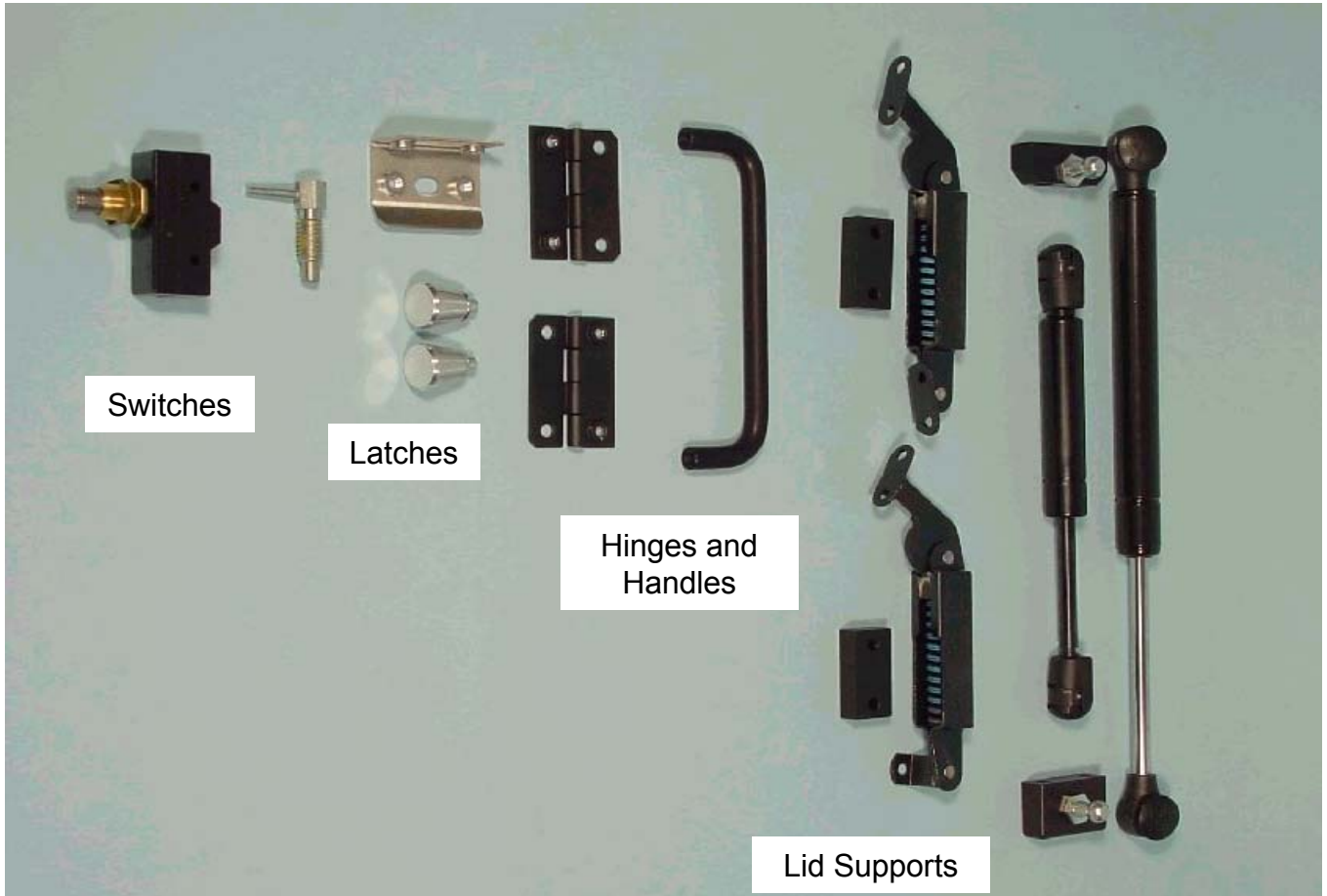
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## HARDWARE



## Miscellaneous Fixture Hardware

Semco Machine Corporation carries a complete line of fixture support hardware.

Note: Call for Availability and Special Requirements

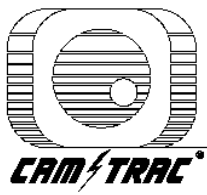
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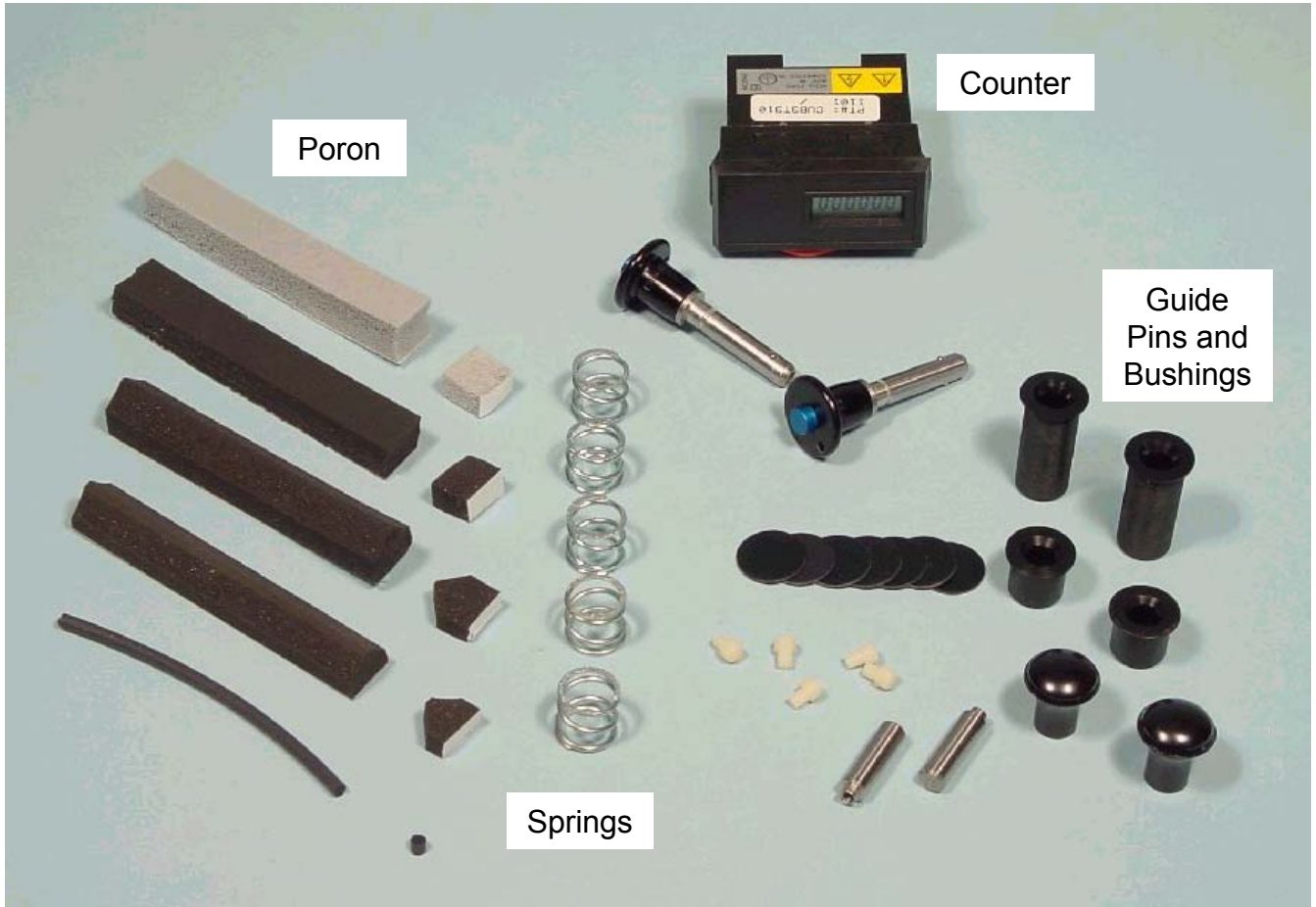
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**SEMCO MACHINE  
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# HARDWARE



## Vacuum Test Fixture Hardware

Semco Machine Corporation carries a complete line of fixture support hardware.

Note: Call for Availability and Special Requirements

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**SEMCO MACHINE  
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## HARDWARE

PC Board  
Spring Clip

Assorted  
"Push Down"  
Pins

GenRad  
Opens Express®

Tooling  
Pins

## Tooling Pins Push Down Pins and Hardware

Semco Machine Corporation carries a complete line  
of fixture support hardware.

Note: Call for Availability and Special Requirements

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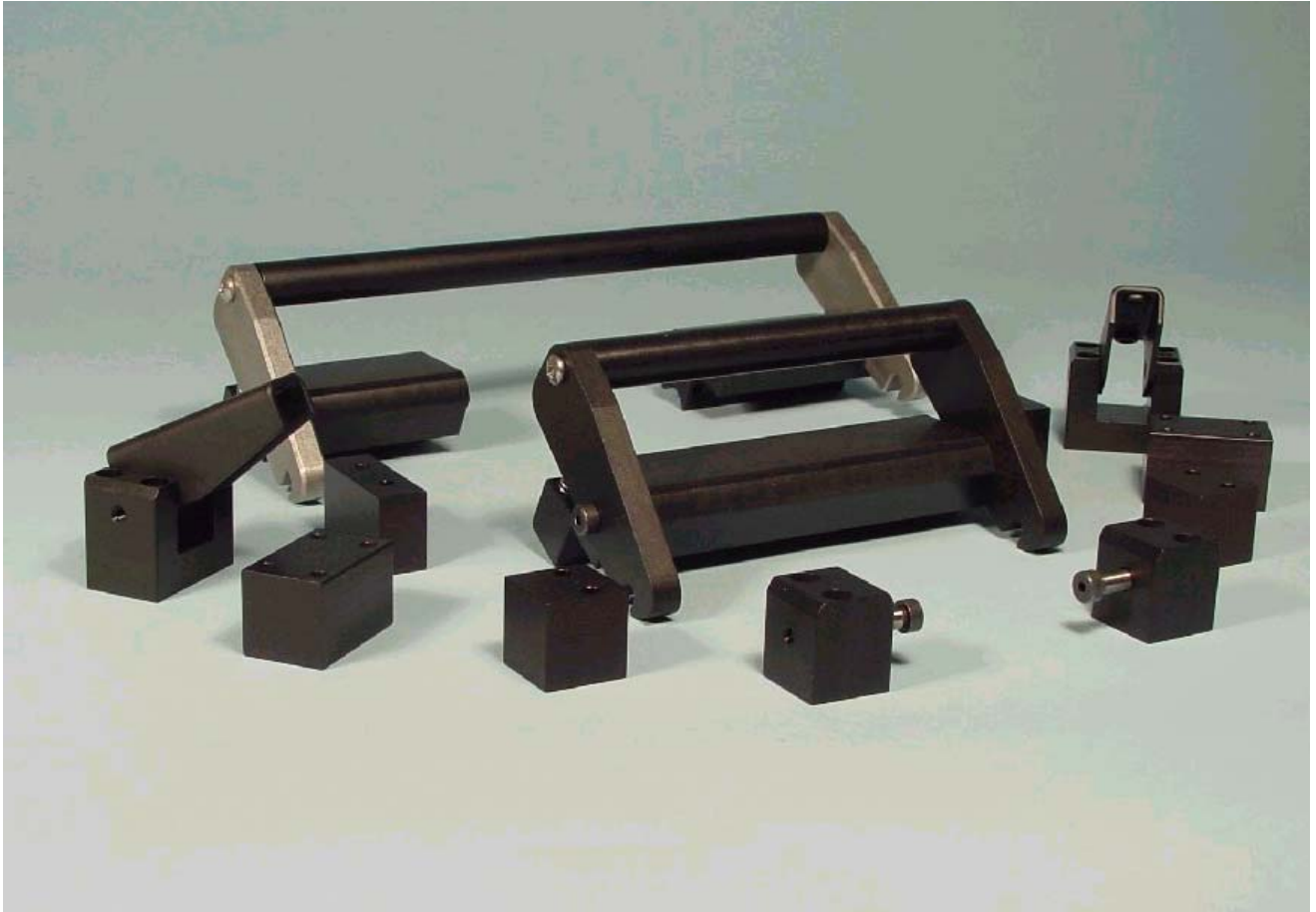
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**HARDWARE**



## Lid Handle and Latch Assemblies

Semco Machine Corporation carries a complete line  
of fixture support hardware.

Note: Call for Availability and Special Requirements

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