

Note 1: OC = Optical comparator, VM = Video measurement, MM = Measuring microscope

Optical Dimensional Measurement Systems Company/Product	Machine Type	Stage Size			Stage Travel			Stage Capacity (lb)	Lenses Z = Zoom F = Fixed	Scale Resolution	Illum.			Screen Dia. (in.) (for opt. comp.)	Display Readout	Op.			Lighting for Video		
		X (in.)	Y (in.)	Z (in.)	X (in.)	Y (in.)	Z (in.)				Profile Transmitted	TTL	Diascopic			External	Manual	DCC or CNC	Top	Bottom	Ring
Acu-Gage Systems Ph. 603-622-2481 Fax 603-626-1277 www.acu-gage.com Acu-Gage Linear Design HPL 683 and HPL 123 High Speed Line (HSL) Linear Motor Design (LMD)	VM	24-132	14-18	4-10	12-120	8-12	4-10	25	Z: 7:1 F: 3 in., 0.75 in. Z: 7:1 F: 3 in., 0.75 in.	20-80 µm 20 µm				Digital linear scales Digital linear scales, rotary enc. Digital scales, rotary enc. Digital linear scales, rotary enc.	x	x	x	x	x	TTL, LED TTL, LED TTL, LED TTL, LED	
	VM	48-60	48-72	4-10	24-36	24-48	4-10	25	Z: 7:1 F: 3 in., 0.75 in.	20-40 µm					x	x	x	x			
	VM	72	72-120	4-10	48	48-96	4-10	1,000	Z: 7:1 F: 6 in.	20-80 µm					x	x	x	x			
	VM	2	2							60 µm					Single monitor, software	x					backlight
American Tech Manufacturing Inc. Ph. 510-657-9370 Fax 510-657-9377 www.igtgonadotech.com SMD 9000	VM	2	2																		
	VM	31.5	7.1					170		10 µm	x			Linear CCD arrays	x						Collimated
	VM	4.9	0.75					2.2		10 µm	x			Linear CCD arrays	x						Collimated
	VM	8	1.2					3.8		10 µm	x			Linear CCD arrays	x						Collimated
	VM	10.8	2					8.8		10 µm	x			Linear CCD arrays	x						Collimated
	VM	13.8	3.1					16		10 µm	x			Linear CCD arrays	x						Collimated
	VM	19.7	3.1					16		10 µm	x			Linear CCD arrays	x						Collimated
CEJohnson, a Newport Corp. Company Ph. 877-764-6397 Fax 949-756-0061 www.cejohnson.com	VM	4-6	8-12	7.5	4-6	8-12	7.5	50	Z: 6.5X F: 2.5 in., 0.5X, 20X	0.25-5 µm	x			Software	x	x	x	x			Programmable
	VM	12-44	12-24	8	12-44	12-24	8	50	Z: 6.5X F: 2.5 in., 0.5X, 20X	0.25-5 µm	x			Software	x	x	x	x			Vector
	VM	10	10	6	10	10	6	33	Z: 6.8X F: 2.5 in., 0.5X, 20X	0.5 µm	x			Software	x	x	x	x			
	VM	9	13	5	6	3	5	30	Z: 5.9X F: 3.5 in.	0.5 µm	x			DRO or software	x	x	x	x			
	VM	120	120	60	120	120	60		Z: 2.5-120 mm F. avail.	1/32 pixel		x	x	Multiple	x	x	x	x			Custom
Computer Recognition Systems Inc. Ph. 617-491-7665 Fax 617-491-7753 www.crs-its.com	VM	120	120	60	120	120	60		Z: 2.5-120 mm F. avail.	1/32 pixel		x	x	Multiple	x	x	x	x			Custom
	VM	12-36	12-36	12-36	12-36	12-36	12-36		F-40X	200 µm				Direct reading scale							
Data Optics Inc. Ph. 800-321-9026 Fax 734-483-9879 www.dataoptics.com Super Gage	VM	12-36	12-36	12-36	12-36	12-36	12-36		F-40X	200 µm				Direct reading scale							
	OC	10-25	6-9	3	10-12	6-8	3	100	Z: 10X-100X	1 µm	x	Surface	16-30	Digital, X,Y,Z, geom. call-outs							
	OC	8	4	3	8	4	3	50	Z: 10X-100X	1 µm	x	Surface	14	Digital, PC-based							
	OC	12	6	3.5	12	6	3.5	100	Z: 5X-100X	1 µm	x	Surface	24	Digital, PC-based, X,Y only							
	VM	2-8	2-8	4	2-8	2-4	4	25-50	Z: 25X-455X	1 µm	x			Digital, X,Y,Z, PC-based	x						Coaxial
VM	12	6	5	12	6	5	50	Z: 25X-455X	1 µm	x			PC-based digital, X,Y,Z	x						Coaxial	
Deltronic Corp. Ph. 800-451-6922 Fax 714-641-0946 www.deltronic.com	VM	12-36	12-36	12-36	12-36	12-36	12-36		F-40X	200 µm				Direct reading scale							
	OC	10-25	6-9	3	10-12	6-8	3	100	Z: 10X-100X	1 µm	x	Surface	16-30	Digital, X,Y,Z, geom. call-outs							
	OC	8	4	3	8	4	3	50	Z: 10X-100X	1 µm	x	Surface	14	Digital, PC-based							
	OC	12	6	3.5	12	6	3.5	100	Z: 5X-100X	1 µm	x	Surface	24	Digital, PC-based, X,Y only							
Deltronic Corp. Ph. 800-451-6922 Fax 714-641-0946 www.deltronic.com	VM	2-8	2-8	4	2-8	2-4	4	25-50	Z: 25X-455X	1 µm	x			Digital, X,Y,Z, PC-based	x						Coaxial
	VM	12	6	5	12	6	5	50	Z: 25X-455X	1 µm	x			PC-based digital, X,Y,Z	x						Coaxial

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		X (in.)	Y (in.)	Z (in.)	X (in.)	Y (in.)	Z (in.)				Profile Transmitted	TTL	Disascope	External		Screen Dia. (in.) (for opt. comp.)	Manual	DCC or CNC	Top	Bottom	Ring
Dorsey Metrology International Ph. 845-454-3111 Fax 845-454-3888 www.dorseymetrology.com	OC/MM OC/MM	30	30	10	30	10	6	500	Z: 10X-200X F: avail.	1 µm	x	x	x	12-60	x	x	x				
Euro-Tech Corp. Ph. 262-781-6777 Fax 262-781-2822 www.eurotechcorp.com	VM	2.4	24	3	8	1.4			7.5X-100X	50 µm	Gooseneck			Computer	x	Gooseneck					
Flexbar Machine Corp., Video Systems Div. Ph. 631-582-8440 Fax 631-582-8487 www.flexbar.com	VM VM	8	4	4	12	4	4	25	Z: 5X-500X Z: 42X-276X	1-2 µm	x	x	x	Digital, software, glass scales	x	x	x				
Gaertner Scientific Corp. Ph. 847-673-5006 Fax 847-673-5009 www.gaertnerscientific.com	VM/MM	4	4	4	4	4	4	5		1 µm	x			Micrometer, digital scales			x				
HI-SCOPE Systems Co. Ph. 877-447-2673 Fax 201-768-3944 www.hiscopesystems.com	VM/MM				20	20			Z: 1X-4,000X	±3µm	Internal						x				
J&L Metrology Co. Ph. 802-886-8333 Fax 802-886-2700 www.jlmetrology.com	OC	5	18	6	12	3	55		Z: 10X-100X	1 µm	x		14	Metronics OC121, OC221	x						
Mahr Federal Inc. Ph. 800-333-4243 Fax 401-784-3246 www.mahr-federal.com	VM VM VM VM VM	18-72 18-49.4 18 10 16-54	18-36 18-36 12 8 16-40	18+ 18+ 9.8 7.9 15.7-39.4	18+ 18+ 15.7 9.8 15.7-53.1	12 18+ 9.8 7.9 9.8-13.8	100+ 500+ 44 22-44 Up to 880			0.1 µm 0.1 µm 0.1 µm 0.1 µm 0.1 µm	x x x x x			Software, on-screen (PC) Software, on-screen (PC) PC PC PC	x x x x x	x x x x x	x x x x x	LED LED Coaxial, back Coaxial, back Coaxial, back			
Micro-Metric Inc. Ph. 800-490-3333 Fax 408-452-8412 www.micro-metric.com	VM/MM	8-16	8-16	4-8	4-8	0.1-8	20		F: 5X-150X	0.01 µm	x	x		On-screen, PC monitor, software	x	x					
Mikro-Vu Corp. Ph. 707-838-6272 Fax 707-838-3985 www.mikrovu.com	VM VM VM VM	26-50 26-50 14-36 8-36	26-62 20-38 14-24 6-18	24-60 18-36 14-24 6-18	24-48 24-48 14-36 8-36	6 6-12 5.5-9 6-12	50 100	Z: 20X-400X Z: 20X-400X Z: 20X-400X Z: 20X-400X	0.1-0.5 µm 0.5-2 µm 0.1-0.5 µm 0.1-0.5 µm					InSpec Q-16 InSpec InSpec Q-16, InSpec	x x x x	x x x x	x x x x	Coaxial Coaxial Coaxial Coaxial			

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		X (in.)	Y (in.)	Z (in.)	X (in.)	Y (in.)	Z (in.)				Profile Transmitted	TTL	Disascope			External	Manual	DCC or CNC	
Spectra 14 Vector Vertex	OC	12	6	3	6	6	3	25	F: 10X-100X	1-2 µm			14	O-16, InSpec	x				
	VM	6-12	6-12	6-12	6-12	6-12	6-12	25	Z: 20X-400X	0.5-2 µm				O-16, InSpec	x	x	x	Coaxial	
	VM	8-12	6-12	6-12	8-12	6-12	6-12	50	Z: 20X-400X	0.1-1 µm				InSpec	x	x	x	Coaxial	
Mitutoyo America Corp. Ph. 630-820-9666 Fax 630-820-7403 www.mitutoyo.com	MM	11-20	10-11					11-44	Z: 10X-2,000X	50-100 µm	x			Linear scale	x				
	OC	16	6	4	8	4	4		F: 10X-100X	50 µm x			14	Linear scale	x				
	OC	16	6	8	8	4	4		F: 10X-100X	5,000 µm x			14	Digitalmic	x				
	OC	17.7	5.7	6	10	6	6	100	F: 5X-50X	100 µm	x		14	Linear scale	x				
	OC	10.5-27.5	10.5-30	8-24	8-24	8-24	6	22-66	F: 32X-960X	100 µm	x			Reflective linear encoder	x	x	x	Coaxial	
	VM	10.5-27.5	10.5-30	8-24	8-24	8-24	6	22-66	Z: 16X-240X	100 µm	x			Reflective linear encoder	x	x	x	Coaxial	
	MM	6-9.5	6	2	2-4	2	2	11	F: 30X	100 µm	x			Digitalmic micrometer	x				
	Mycrona Inc. Ph. 734-453-5880 Fax 734-453-4076 www.mycrona.com	VM							50	Z: 10 Step F: 3X-50X	0.1-0.4 µm				Measuring accuracy		x	x	
		VM				17	16	6-12	25	Z: 10 Step F: 3X-50X	0.1-0.5 µm				Measuring accuracy		x	x	
		VM				12	12	6-8	25	Z: 10 Step F: 3X-50X	0.1-0.5 µm				Measuring accuracy		x	x	Custom
Nikon Instruments Inc. Ph. 631-547-8500 Fax 631-547-8518 www.nikonusa.com	OC	20	6	2	20	6	2	100	F: 5X-200X	1 µm	x	x		Linear glass scales	x				
	MM	2-6	2-4	6	2-6	2-4	6	33	Z: custom F: 1X-100X	0.4 µm	x	x	14	Linear glass scales	x	x	x	Custom	
	MM	2-10	2-6	8	2-10	2-6	8	44	Z: custom F: 1X-100X	0.4 µm	x	x		Linear glass scales	x				
	OC	10	6	2-6	2-10	2-6	2-6	44	F: 5X-500X	0.1 µm	x	x	12	Linear glass scales	x				
	OC	10	6	2-6	2-10	2-6	2-6	44	F: 5X-100X	0.1 µm	x	x	20	Linear glass scales	x				
	OC	8.9	3.9	3.9	8.9	3.9	3.9	66	F: 5X-200X	0.1 µm	x	x	24	Linear glass scales	x				
	MM	2-6	2-4	6	2-6	2-4	6	33	Z: custom F: 1X-100X	0.4 µm	x	x		Linear glass scales	x				
	MM	2-10	2-6	8	2-10	2-6	8	44	Z: custom F: 1X-100X	0.4 µm	x	x		Linear glass scales	x				
	VM	Up to 40	Up to 32	6	6-40	6-32	6	11-88	Z: 17X-1725X	0.1 µm	x	x		Linear glass scales	x	x	x	Custom	
	VM	12	12	6	12	12	6	66	Z: 17X-1725X	0.01 µm	x	x		Dual linear high-ries. glass scales	x	x	x		
	VM	12	8	6	12	8	6	44	Z: 15X-900X	0.1 µm	x	x		Linear glass scales	x	x	x		
	VM	25	21	6	25	21	6	66	Z: 15X-900X	0.1 µm	x	x		Linear glass scales	x	x	x		
	VM	Up to 12	Up to 8	6	6-12	6-8	6	11-22	Z: 17X-1725X	0.2 µm	x	x		Linear glass scales	x	x	x	Custom	
	VM	10	8	6	10	8	6	22	Z: 17X-1725X	0.2 µm	x	x		Linear glass scales	x	x	x	Custom	
	VM	20	21	6	20	21	6	66	Z: 17X-1725X	0.2 µm	x	x		Linear glass scales	x	x	x	Custom	
Operations Technology Inc. (OPTEK) Ph. 800-606-7835 Fax 908-362-5966 www.optek.net	VM			7	12-18	18-24	7		Z: 50X-350X, 25X-1.75X, 2,000X	0.1-1 µm	x	x				x	x	Coaxial, Z-Trac	
	VM/MM			4	4-12	4-12	4	22	F: 2.5X-25X	0.1 µm	x	x				x	x		
Optical Gaging Products Inc. Ph. 716-544-0400 Fax 716-544-0131 www.ogpnet.com	VM																		
	VM																		

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		X (in.)	Y (in.)	Z (in.)	X (in.)	Y (in.)	Z (in.)				Profile Transmitted	TTL	Disascope	External		Manual	DCC or CNC	Top
Avant ATIS Avant ZIP 300 Avant ZIP 400/600 Focus Contour Projector OC 308 Contour Projector QL 20 QL 30 Contour Projector SmartScope Flare 200 SmartScope Flare 400/600/700 SmartScope Flash 200 SmartScope Flash 400/600/700 SmartScope Quest 250 SmartScope Quest 450/600/650 SmartScope ZIP 250	VM/MM				18-30	18-24	6	220	Z: 40X-200X F: 2.5X-10X	0.5 µm	x	x	x	x	x	x	x	
	VM/MM				12	12	6	55	Z: 40X-200X F: 2.5X-10X	0.5 µm	x	x	x	x	x	x	x	
	VM/MM				18-24	18	6	45-65	Z: 40X-200X F: 2.5X-10X	0.5 µm	x	x	x	x	x	x	x	
	OC	17.8	4.3	1.5	8-12	5	3	45	F: 10X-50X	1 µm	x	x	x	14				
	OC	32	8		15	10	3	550	F: 10X-100X	1 µm	x	x	x	30				
	OC	32	8		15	9	3	550	F: 10X-100X	1 µm	x	x	x	20-30				
	VM/MM				8	8	6	35	Z: 32X-280X	0.5 µm	x	x	x					
	VM/MM				18-24	18-24	8	65	Z: 32X-280X	0.5 µm	x	x	x					
	VM/MM				8	8	6	35	Z: 32X-280X	0.5 µm	x	x	x					
	VM/MM				18-24	8-24	8		Z: 32X-280X	0.5 µm	x	x	x					
	VM/MM				12	6	8	55	Z: 32X-320X	0.1 µm	x	x	x					
	VM/MM				18-20	18-26	6-12	260	Z: 32X-320X	0.1 µm	x	x	x					
	VM/MM				10	6	6	55	Z: 40X-200X F: 0.5X-1.5X	0.5 µm	x	x	x					
	PPT Vision Ph. 952-996-9500 Fax 952-996-9501 www.ppvision.com PPT861	VM	14	12		14	12	4	10	F: many	2.5 µm							
Questar Corp. www.questar-corp.com Ph. 800-247-9607 5290/SZ180/SZ182	VM/MM				4	4	2	50	Z: 5-position EFL F: avail.	1 µm								Digital linear, micrometers
RMS	VM/MM				4	4	2	50	Z: 5-position EFL F: avail.	1 µm								Digital linear, micrometers
OMI/OMI 100	VM/MM				4	4	2	50	Z: 5-position EFL F: avail.	1 µm								Digital linear, micrometers
S-T Industries Inc. Ph. 800-326-2039 Fax 507-375-4503 www.stindustries.com	OC	20	5		12-16	7	3	150	F: 5X-100X	1 µm	x							Quadra Chek, geometric digital
1600 Series	OC	14-18	10		8-10	4	5	25	F: 5X-100X	1 µm	x							Quadra Chek, geometric digital
2400 Series	OC	24	5		12-16	8	5	200	F: 5X-100X	1 µm	x							Quadra Chek, geometric digital
2450 Series	OC	35	8		12-24	9	3	500	F: 5X-100X	1 µm	x							Quadra Chek, geometric digital
2600/5600 Series	OC	16	5		7-10	4	3	25	F: 5X-250X	2 µm	x							Quadra Chek, geometric digital
3500 Series	OC	21	5		12-16	5	3	100	F: 5X-250X	1 µm	x							Quadra Chek, geometric digital
3650 Series	OC	16	6		2-6	2	5	25	F: 5X-250X	1 µm	x							Quadra Chek, geometric digital
4400 Series	OC	14-18	10		8-12	4	5	25	F: 5X-250X	1 µm	x							Quadra Chek, geometric digital
4600 Series	OC	14-18	10		8-12	4	5	25	F: 30X-180X	1 µm	x							Quadra Chek, geometric digital
8600 Series	VM																	
L.S. Starrett Co. Ph. 800-784-2887 www.starrett.com	VM	32-53	29-74		24-28	24-40	10	100	Z: 7:1	50 µm	x							OC 5000 software
AV 2424/10/2828/10/4028/10 Granite Bridge	OC	17	5		10	6	2	110	F: 10X-100X	50 µm	x							OC 100, OC 220, OC 4000
HB 400	OC	32	8		20	10	3	500	F: 10X-100X	50 µm	x							OC 100, OC 220, OC 4000
HC 800 Inline and HCS 800 SieBed	OC	17	5		12	6	2	110	F: 10X-100X	50 µm	x							OC 100, OC 220, OC 4000
HD 400 Dual Lens	OC	17-19	5-6		8-10	4	1.5-2	60	F: 10X-100X	50 µm	x							OC 100, OC 220, OC 4000
HE 350/400	OC	25-32	8-9		16	8	3	330	F: 10X-100X	50 µm	x							OC 100, OC 220, OC 4000
HF 600/750	OC	10	9		6	4	6	22	Z: 7:1	50 µm	x							OC 100, OC 220, OC 4000
MN646 Manual Vision	VM																	

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				X (in.)	Y (in.)	X (in.)	Y (in.)	Z (in.)	Profile Transmitted				TTL	Diastrophic	External	Screen Dia. (in.) (for opt. comp.)		Display Readout	Manual DCC or CNC	Top	Bottom	Ring	Other																
Company/Product	VB 300	OC	10	6	6	2	4	4	11	F:10X-100X	50 µm	x																											
	VB 400	OC	17	11	10	6	4	4	22	F:10X-100X	50 µm	x	x																										
	VF 500/600	OC	16	9	8	4	3-4	4	22-66	F:5X-100X	50 µm	x																											
Suburban Tool Inc. Ph. 248-391-7800 Fax 248-391-7462 www.subtool.com																																							
Master-View II	OC	19	4.5	8	4	4	4	100	F: 10X, 20X, 50X	100 µm	x																												
View Engineering Ph. 805-578-5000 Fax 805-578-5249 www.vieweng.com																																							
Pinnacle 250/300	VM	31.3-36	33.5-37.5	10-12	6.5-12	4-6	4-6	55	Z: 35X-700 F: 1X-150X	0.1 µm	x	x																											
Summit 450/600/800	VM	40-56	71-82	18-30	18-32	6	6	75	Z: 35X-700 F: 1X-150X	0.1 µm	x	x																											
Voyager 612	VM	29	32	12	6	6	6	55	F: 1X-20X	0.1 µm	x	x																											
Vision Engineering Inc. Ph. 860-355-3776 Fax 860-355-0712 www.visioneng.com																																							
Dynascope Ultra	OC/MM	Up to 8	Up to 6	Up to 8	Up to 6	Up to 6	Up to 6	37.5	F: up to 100X	1 µm	x	x																											
Series 5 Dynascope	OC/MM	Up to 16	Up to 12	16	12	2	2	50	F: up to 1,000X	1 µm	x	x																											
Workshop Dynascope	OC/MM	2-6	2-6	Up to 6	Up to 6	Up to 2	Up to 2	25	F: up to 50X	2 µm	x	x																											
Werth America Ph. 716-667-2720 Fax 716-667-2725 www.werthamerica.com																																							
Inspector FQ Multisensor CMM	VM			6	16	8	8	150	Z: 10:1 F: 1X-50X	0.5 µm																													
Scope-Check Multisensor CMM	VM			8-16	6	6	6	150	Z: 10:1 F: 1X-50X	0.5 µm																													
Video-Check Multisensor CMM	VM			10-140	5-70	2-32	2-32	600	Z: 10:1 F: 0.2X-100X	0.1 µm																													

The following companies are distributors of optical/video dimensional measurement systems:

A.A. Jansson Inc. Ph. 248-674-4811 Fax 248-674-1234 www.aajansson.com	Dimensional Control Corp. Ph. 650-591-0365 Fax 650-591-9087 dimensionalcontrol.com	Fryer Co. Inc. Ph. 847-669-2000 Fax 847-669-2056 www.fryerco.com	Precision Measurement Co. Ph. 610-279-2422 Fax 610-279-5169 Micro-Nu	R&R Gage Co. Ph. 770-409-9801 Fax 770-409-9787 www.rrgage.com
Flexbar, J&L Metrology, OKM/ENA, OPTEK, OCS	OGP	Flexbar, Nikon		J&L Metrology
ACI Metrology Ph. 508-520-0001 Fax 508-520-3322 Flexbar, RAM Optical, S-T Industries	ETC Ph. 408-980-1734 Fax 408-988-4482 etcsales.com	Measure-All Inc. Ph. 513-829-0900 Fax 513-929-1105 www.measure-all.com	Quality Control Co. Ph. 818-761-2454 Fax 818-761-7026 Mitutoyo, Flexbar, S-T Industries	
	Micro-Metric	Avid Corp., Flexbar, Mitutoyo, RAM Optical, L.S. Starrett, S-T Industries, Suburban, View Engineering, Werth America		