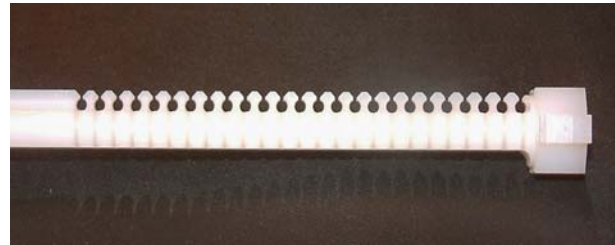
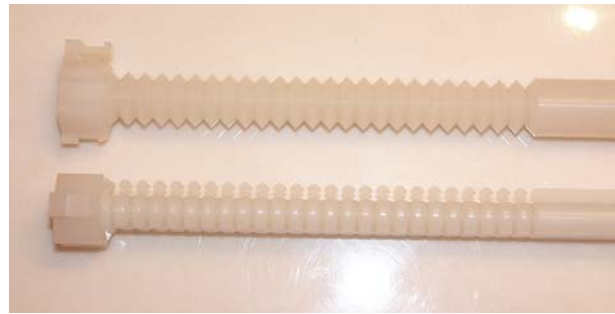
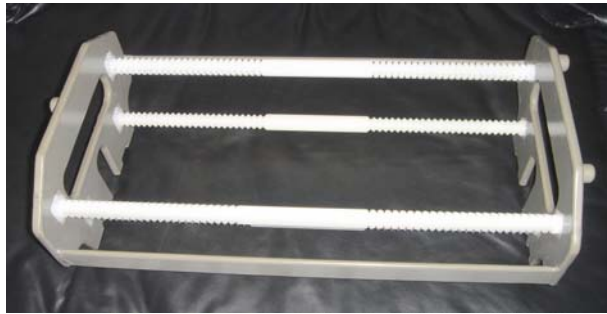


Halar™ Rods and Carriers

innovative Silicon Systems introduces all-Halar™ Carrier Rods, Carrier Frames and complete welded Carriers that are 100% compatible with GAMA™ Series equipment. The carrier rods are constructed from Halar™ with encapsulated alumina or sapphire stiffening rods, offering superior cleanliness, structural integrity and lifetime over standard Teflon/quartz rods.



Upper and Lower Carrier Rods and Carrier Frames are available for both 150 mm and 200 mm GAMA™ quartz frames.

All-welded Carriers made entirely from Halar™ with encapsulated sapphire or alumina stiffening rods and various rod styles are available in both 150 mm and 200 mm wafer sizes. The 150 mm wafer size is offered with a center wafer spacing to match either the current quartz frame spacing or the obsolete welded carrier spacing.



Halar™ is a registered trademark of Solvay Solexis.
GAMA™ is a registered trademark of Aktron.

innovative Silicon Systems offers a range of productivity enhancement tools and consulting services for semiconductor processing. Please contact us for more information.



innovative Silicon Systems

1203 Foxworthy Avenue

San Jose, CA 95118-1212

Tel: 408-265-4842 Fax: 408-265-7108

Halar™ Rods and Carriers

HALAR™ CARRIER PRICE LIST

Effective January 1, 2006

GAMA™ Series Compatible Parts Constructed from Halar™ with Encapsulated Stiffening Rods

Part Number	Description	Price, ea	
Snap-In Rails			
	<i>fabricated in Halar with center stiffening rod</i>	Qty 1-9	Qty 10+
8-20-0011-01	Top Rail, 150mm, Alumina center rod, Right Hand	\$985	\$910
8-20-0011-02	Top Rail, 150mm, Alumina center rod, Left Hand	\$985	\$910
8-20-0021-00	Bottom Rail, 150mm, Alumina center rod	\$765	\$735
8-20-0012-01	Top Rail, 150mm, Sapphire center rod, Right Hand	\$1,115	\$1,035
8-20-0012-02	Top Rail, 150mm, Sapphire center rod, Left Hand	\$1,115	\$1,035
8-20-0022-00	Bottom Rail, 150mm, Sapphire center rod	\$895	\$855
Cassette Frames			
	<i>Halar version of the quartz frame for snap-in rails</i>	Qty 1-4	Qty 5+
8-20-0150-01	Cassette Frame, Halar, 150mm, Alumina rod reinforced	\$2,950	\$2,610
8-20-0150-02	Cassette Frame, Halar, 150mm, Sapphire rod reinforced	\$4,930	\$4,590
Welded Cassettes			
		Qty 1-4	Qty 5+
Original Style			
	<i>Halar welded cassette with original upper and lower rails</i>		
8-20-1135-01	Cassette, Welded, Original, 150mm, Alumina rod reinforced	\$3,570	\$3,310
8-20-1135-02	Cassette, Welded, Original, 150mm, Sapphire rod reinforced	\$4,330	\$4,070
Style 2			
	<i>Halar welded cassette with original upper rails and new style lower rails</i>		
8-20-1140-01	Cassette, Welded, Style 2, 150mm, Alumina rod reinforced	\$3,890	\$3,630
8-20-1140-02	Cassette, Welded, Style 2, 150mm, Sapphire rod reinforced	\$4,650	\$4,390
Style 3			
	<i>Halar welded cassette with new style upper and lower rails</i>		
8-20-1150-01	Cassette, Welded, 150mm, Alumina rod reinforced	\$5,150	\$4,890
8-20-1150-02	Cassette, Welded, 150mm, Sapphire rod reinforced	\$5,910	\$5,650
Cassette Hangers			
	<i>fabricated in Kel-F</i>	Qty 1-3	Qty 4+
2-20-1010-00	Cassette Hanger, Single "Finger"	\$1,405	\$1,090
2-20-1020-00	Cassette Hanger, Double "Finger"	\$2,525	\$2,060
Cassette Carrier			
	<i>fabricated in Teflon with Alumina stiffening rods</i>	Qty 1-4	Qty 5+
2-20-0210-00	Cassette Carrier	\$1,870	\$1,690

200mm Wafer size - Consult Factory



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