


SERVICES FOR SEMICONDUCTOR MANUFACTURING

AX7610 PLASMA APPLICATOR	S&D Materials provides refurbishment for the MKS/ASTeX AX7610 family of plasma applicators with new sapphire and quartz tubes. We replace tubes with a new sapphire or quartz tube, or we can provide the entire plasma applicator of tube inside a copper cooling coil.		
	SAPPHIRE DISCHARGE TUBE	OEMS	
	<ul style="list-style-type: none"> ▪ New applicators available with new copper cooling coil ▪ Standard & extra long tubes 	AMAT, Axcelis, ASTeX, LAM, Novellus, Ulvac, Varian	
	QUARTZ DISCHARGE TUBE	▪ New Applicators Available ▪	

FERROFLUID SEAL SALES & REPAIR	S&D Materials sells, repairs and overhauls spindles, feedthroughs, rotary gas unions in semiconductor tools from TEL, Varian, AMAT, Novellus & Axcelis for Diffusion, Ion Implantation & CVD. We also repair and rebuild custom ferrofluid seals from Ferrotec, Rigaku, EKK and others.				
	MODEL	PROCESS AREA	NEW	REPAIR	SWAP
	TEL 8", 12" TEL 12"	DIFFUSION	X	X	X
	VARIAN Vision 80 8" RMS VARIAN 8" 3180, 3290 AXCELIS HE 3	IMPLANTATION	X	X	
	NOVELLUS Concept 2 NOVELLUS Concept 3 VECTOR	CVD	X	X	X
	<i>More models available - Contact sales@sdmaterials.com</i>				

CLEAN & RESURFACE	As part of our core value proposition of keeping our customers' manufacturing equipment functioning at peak performance for as long as possible, we also clean and resurface parts and components from multiple process areas. We manage the process from end to end, guaranteeing the fastest turnaround time at the lowest prices possible.	
	SERVICE	DESCRIPTION
	Atomic Level Cleaning	Safe deposition removal and surface treatment on parts subject to damage from traditional abrasive-type cleaning; 'Dry Ice Blasting' available for some items
	InSitu Deposition Inhibition	Cleaning technology with defect reduction built into the process; final surface contamination controlled
	Performance Coatings	Coatings include: Ytria oxide, zirconium oxide, composite TWAS, adhesion coating for multi-layer solutions, plasma coating for quartz, CTE-matching TWAS coatings