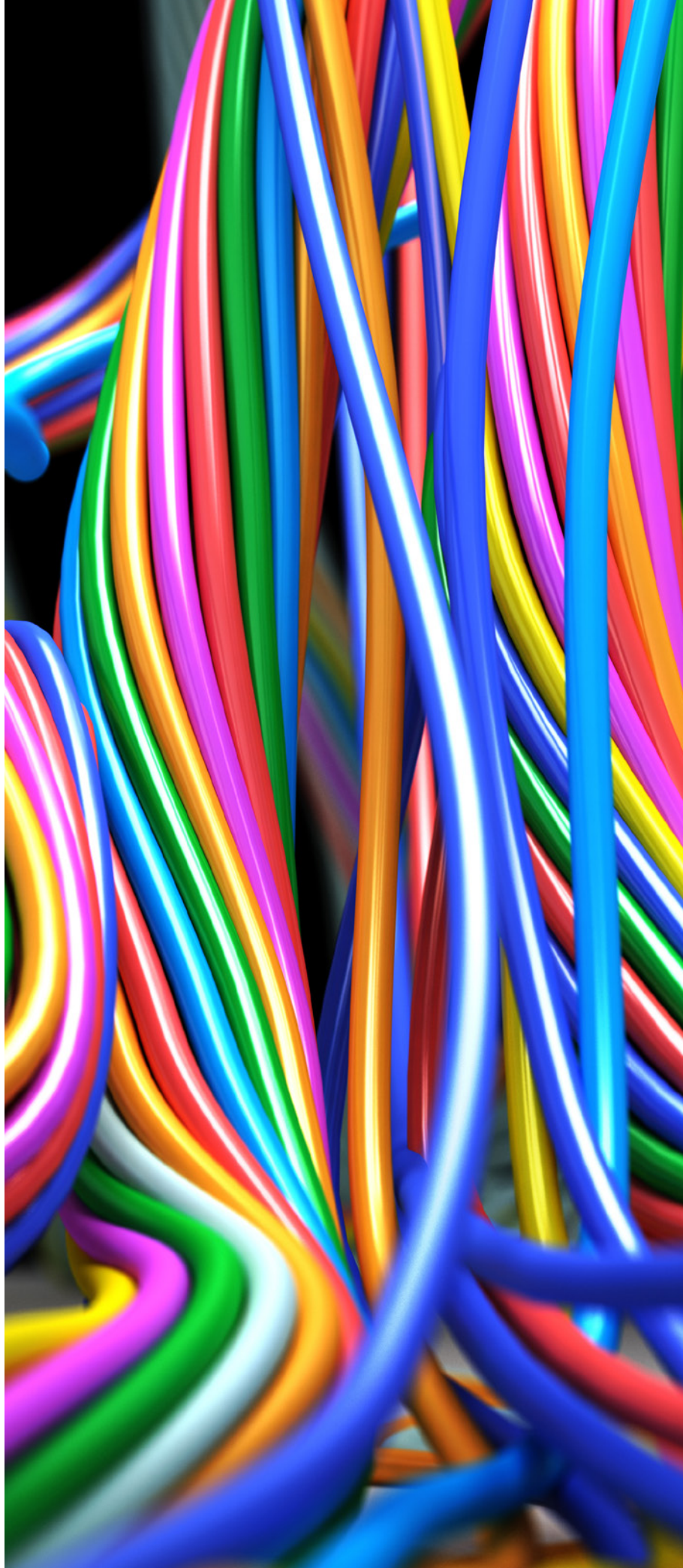


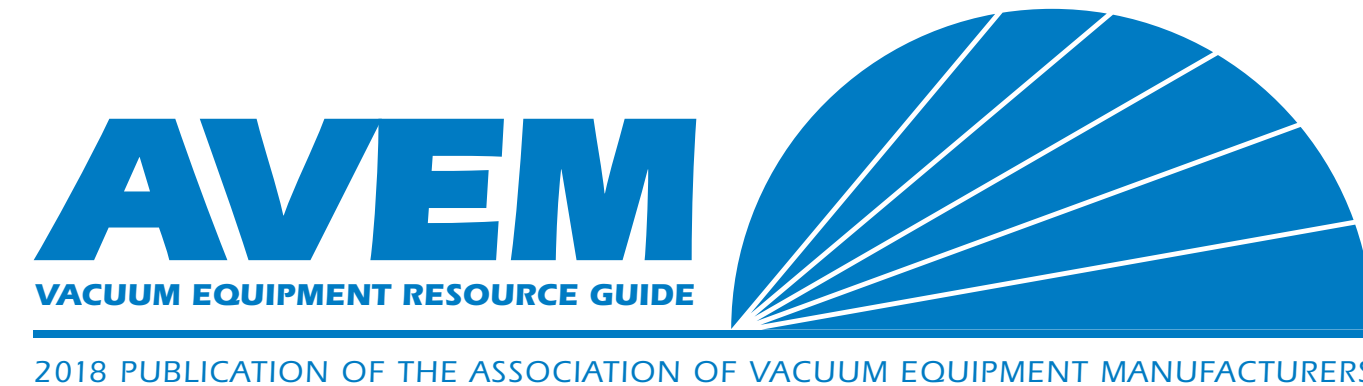
Vacuum System Components (continued)/Vacuum Systems Accessories

Note: Only the companies who sell the products on these two pages are listed.

Companies	ANCORP www.ancorp.com	Brooks www.brooks.com	Busch Vacuum Pumps and Systems www.buschusa.com	DigiVac www.digivac.com	Edwards www.edwardsvacuum.com	GNB Corporation www.gnbvalves.com	Kurt J. Lesker Company www.lesker.com	Leybold Vacuum USA Inc. www.leybold.com	Mass-Vac, Inc. www.massvac.com	MDC Vacuum Products, LLC www.mdvvacuum.com	Nor-Cal Products www.n-c.com	Osaka Vacuum, U.S.A., Inc. www.osakavacuum.com	Sumitomo (SHI) Cryogenics of America, Inc. www.shicryogenics.com	Tuohill Vacuum & Blower Systems www.tuohillvacuum.com	UC Components, Inc. www.uccomponents.com	Vacuum Research Corporation www.vacuumresearch.com	VAT, Inc. www.vatvalve.com	Weich Vacuum - Gardner Denver www.weichvacuum.com	XEI Scientific, Inc. www.evactron.com
Vacuum System Components (continued)																			
11.16 Heat exchangers																			
11.17 Mechanical components - bearings										•								•	
11.18 Pumps - aspiration					•														
11.19 Pumps - booster			•		•		•	•				•		•					
11.20 Pumps - cryo, colder than -160C		•			•		•	•		•			•						
11.21 Pumps - cryo, warmer than -160C		•			•		•	•		•									
11.22 Pumps - diaphragm				•	•		•	•											•
11.23 Pumps - diffusion			•		•		•	•											
11.24 Pumps - getter					•														
11.25 Pumps - ion					•		•	•											
11.26 Pumps - mechanical, oil-sealed			•	•	•		•	•	•			•		•			•		•
11.27 Pumps - mechanical, oil-free			•	•	•		•	•	•			•		•					•
11.28 Pumps - sorption																			
11.29 Pumps - turbomolecular			•		•		•	•				•							
11.30 Traps & baffles - diffusion pumps	•	•	•		•	•	•	•	•	•									
11.31 Traps & baffles - mechanical pumps	•				•	•	•	•	•	•	•						•		•
11.32 Traps & baffles - exhaust	•				•	•	•	•	•	•	•						•		•
11.33 Tubing, flanges, fittings & seals	•			•	•	•	•	•	•	•	•				•		•	•	•
11.34 Vacuum chambers	•				•	•	•	•	•	•	•						•	•	
11.35 Valves (<2 inches)	•				•	•	•	•	•	•	•						•	•	
11.36 Valves (>2 inches)	•				•	•	•	•	•	•	•						•	•	
11.37 Valves - soft pump/let-up					•	•				•	•						•	•	
11.38 Valves - ultrahigh vacuum	•				•	•	•	•		•	•						•	•	
11.39 Valves - variable conductance					•	•				•	•						•	•	
11.40 Windows	•						•	•		•	•						•		
Vacuum Systems Accessories																			
12.1 Decontaminators, Anti-contamination Systems														•					•
12.2 Plasma Cleaners																			•



2019 Vacuum Equipment Resource Directory



The Association of Vacuum Equipment Manufacturers (AVEM) is the only non-profit U.S. association dedicated completely to companies that manufacture vacuum equipment and supplies that serve and advance vacuum science and technology. AVEM was founded in 1969 and is the only non-profit source for market data across the vacuum industry in North America.

AVEM Mission

The Association of Vacuum Equipment Manufacturers promotes member interests and provides services to enhance membership value and understanding of the global market.

Benefits of Membership

- Executive-level networking
- Quarterly statistics reports demonstrating regional and global industry trends
- Representation in the International Statistics on Vacuum Technology (ISVT) Working Group to ensure that the ISVT program operates to the benefit of member participants
- Vacuum industry resource guide that includes a buyers guide of member products and services
- Promotion of member company products and services via the AVEM website in the Online Buyers Guide and the Newsroom
- Advertising opportunities in the AVEM Resource Guide and on the AVEM website at discounted rates
- Member company representation at trade shows via literature displays in the AVEM booth
- Meetings with provocative and educational speakers
- Online training and education
- Opportunities to steer AVEM in directions that benefit the industry by participation on AVEM committees
- Online career center to post job opportunities
- Washington alliances provide alerts to policy and regulations that may impact business operations

Deposition Supplies, Gas Control, Ion/Plasma Sources, Plasma/Sputtering/Arc Components, Reclamation Services

Companies	DigiVac www.digivac.com	Edwards www.edwardsvacuum.com	FI-Tech www.fitech.com	INFICON www.inficon.com	Kurt J. Lesker Company www.lesker.com	Mass-Vac, Inc. www.massvac.com	MDC Vacuum Products, LLC www.mdvvacuum.com	Nor-Cal Products www.n-c.com	Rocky Brook Associates, Inc. 800-547-6934	Teledyne Hastings Instruments www.teledyne-hi.com	Televac www.fredericcompany.com	Vacuum Research Corporation www.vacuumresearch.com	VAT, Inc. www.vatvalve.com	XEI Scientific, Inc. www.evactron.com
Deposition Supplies														
1.1 Arc cathode materials														
1.2 Evaporation filaments & crucibles			•		•					•				
1.3 Evaporation materials			•		•		•			•				
1.4 Sputtering target materials					•		•			•				
1.5 Substrate materials														
1.6 Single Crystal substrates														
1.7 Crystals Utilized in Quartz Crystal Micro Balances			•	•	•				•					
1.8 Single Crystal Standards														
Gas Control														
2.1 Exhaust conditioning systems														
2.2 Gas manifolds							•							
2.3 Gas purifiers														
2.4 Gas storage							•							
2.5 Mass flow meters	•				•		•			•				•
2.6 Pressure controllers					•		•			•	•	•	•	•
2.7 Variable leaks					•		•	•						•
Ion/Plasma Sources														
3.1 Cold cathode sources			•											
3.2 ECR sources														
3.3 End Hall sources														
3.4 Inductive coupled plasma					•									
3.5 Kaufman ion guns			•		•									•
3.6 RF sources														
Plasma/Sputtering/Arc Components														
4.1 Arc power supplies														
4.2 DC power supplies	•				•		•							
4.3 Microwave power supplies														
4.4 RF power supplies					•		•							•
Reclamation Services														
5.1 Evaporation/sputtering materials					•		•							
5.2 Vacuum pump oil	•	•			•	•	•							

