

Through the integration of highly sophisticated electronic circuitry coupled with custom designed transducers and titanium atomizing horns, IVEK has developed an elegant, yet simple, liquid atomizing system that is both quantitative and accurate. Traditional spray nozzles utilize pressurized air or liquid to fracture a liquid into small droplets, creating the spray. However, recent advances in ultrasonic atomization technology have rendered these methods virtually obsolete for many applications. Ultrasonic atomization exhibits significant benefits not typically associated with other spraying systems. Instead of using pressure to create a random spray, IVEK's ultrasonics utilize vibrational forces caused by frequencies generated from piezoelectric ceramic crystals to produce effective and efficient atomization. Depending on the application, IVEK uses vibrational frequencies from 20-50 kHz.



## STANDARD FEATURES

- **CUSTOM TITANIUM HORNS**
- **SUBMICROLITER THROUGH MILLILITER ATOMIZATION VOLUME**
- **AUTOTUNING ELECTRONICS**
- **PROGRAMMABLE POWER PROFILE**
- **DIRECTIONAL SIDE SPRAYING HORNS (90, 180, 270, AND 360 DEGREES)**
- **TOTAL INTEGRATION WITH IVEK DISPENSING SYSTEMS**
- **QUANTITATIVE, ACCURATE AND REPEATABLE DISPENSES**

## THE ULTRASONIC ADVANTAGE

- **AIRLESS SPRAYING**
- **SMALL VOLUME ATOMIZATION**
- **REDUCTION OF OVERSPRAY**
- **ENERGY EFFICIENT**
- **LOW VELOCITY SPRAY**
- **RESISTANT TO NOZZLE CORROSION AND FATIGUE**
- **ELIMINATION OF POTENTIAL CLOGGING**

## TYPICAL APPLICATIONS

- **INTERIOR SURFACE COATING**
- **DIAGNOSTIC KIT REAGENT DISPENSING**
- **SMALL PARTS COATING**
- **STERILE APPLICATIONS**
- **VIBRATORY SHEARING OF VISCOUS MATERIAL**
- **CHEMICAL BONDING**
- **LUBRICANT APPLICATION**
- **CUSTOM SPRAY PATTERNS**
- **FRAGRANCE APPLICATION**
- **BLENDING**
- **WEB COATING**
- **BIOLOGICAL TESTING**

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