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Transonic Systems Celebrates A Quarter Century of Biomedical Innovation

Pride in past accomplishments and an optimistic future mark Transonic Systems 25th anniversary celebration. Transonic Systems is the recognized global leader in biomedical flow measurement with citation in more than 4,000 scientific publications.

Transonic products are found in operating rooms, intensive care units, radiology suites, hemodialysis clinics and research laboratories throughout the world. They have also encircled the globe on space flights as part of the payloads for cardiovascular studies in zero gravity. Over the last 25 years Transonic has refined its flow measurement capability to the point that Transonic miniature flow tools can now measure blood flow in a mouse's hair-sized renal artery to study high blood pressure.

Transonic products play key roles in numerous medical procedures. During open-heart surgery Transonic blood flow measurements provide heart surgeons with critical data while also monitoring flow through heart- lung machines. Neurosurgeons performing brain surgery rely on Transonic flow devices to guard against the devastating consequences of a stroke during the operation. Transplant and vascular surgeons use Transonic flow data to confirm the quality of their surgical interventions and extend the lives of their patients.

For persons whose kidneys have failed and depend on hemodialysis to remove toxins from their bodies, Transonic flow surveillance is the new Standard of Care. All these medical breakthroughs began with basic scientific research in laboratories where flow is routinely measured with Transonic devices.

Transonic Systems' core technology "transit time ultrasound" was developed by Cornelis J. Drost while working as a senior research associate at the New York State College of Veterinary Medicine at Cornell University. He had been recruited by Professors of Physiology Alan Dobson (Emeritus) and the late Alvin Sellers to find a better technology to measure blood flow in chronic studies. In 1978, Drost presented his ultrasound measurement theory at a San Diego Biomedical Engineering symposium. Soon after, Cornell University obtained a patent for the technology. Early measurements and validations of the technology were in animal models.

On this milestone, Transonic Systems President Cornelis Drost reflects, "Over the past 25 years we have established ourselves as the worldwide Flow Measurement Specialists. This is the result of innovation-centered R &D, state-of-the-art engineering, superior application support, marketing and sales, and highly efficient manufacturing: in short, a superior, dedicated workforce."

With worldwide distribution in over 50 nations, research and development, manufacturing and administration are located at the Ithaca, NY USA headquarters while sales, marketing and customer service departments are divided among Ithaca and at its European and Asian subsidiaries in Maastricht, The Netherlands and Tapei, Taiwan.

With an impressive 25-year track record of technological advances and solid growth, Transonic Systems now looks forward to its next quarter century optimistic that its innovation will continue to contribute to medicine and enhance the health and lives of many.