

# Thermex purchases gas nitriding from **SecoWarwick**

Thermex Metal Treating is expanding capacity at its Edmonton, Canada, facility with the purchase of a gas nitriding with vertical pit-style loading and SecoWarwick's proprietary control technology, and ferritic nitrocarburizing capability. The furnace is being designed and manufactured in SecoWarwick's Meadville, PA USA, facility.

Thermex offers a wide range of ferrous metal heat treating processes and services in Western Canada, from its base in

Edmonton, Alberta. The purchase of this state-of-the-art equipment is in keeping with Thermex's ongoing commitment to improvement, integration of new technology, and high quality customer service.

SecoWarwick is a technology leader with the proprietary zeroflow method of economical gas flow and precision nitrided layer control. Zeroflow control is based upon performing the nitriding process with the use of only a single-component atmosphere – raw ammo-

nia ( $\text{NH}_3$ ). The adjustment of nitriding atmosphere chemical composition, and therefore the control of nitriding potential, is performed only by analyzing and metering ammonia into the furnace. The zeroflow method is characterized by much lower consumption and emission of gases, requires a simpler control system and allows for forming the hardened layer phase structure with the same precision as in processes with more complex two-component atmospheres.