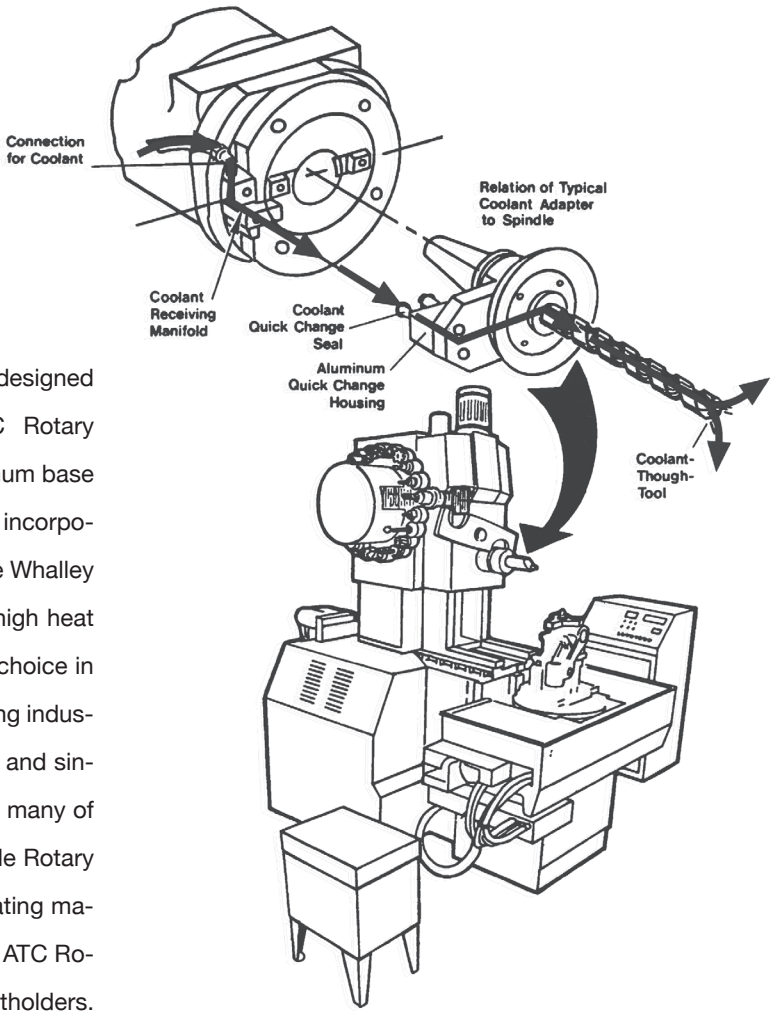
INTRODUCTION TO AUTOMATIC TOOL CHANGE (ATC) RETROFIT SYSTEM

The George Whalley Company Automatic Tool Change (ATC) Retrofit System is available to users of CNC machining centers with magazine or matrix-type tool storage features. The ATC Retrofit System eliminates the need for manual loading of coolant-fed tooling when high speed unattended operation is desired.



The ATC Retrofit System consists of a specially designed coolant-thru-the-tool holder assembled with an ATC Rotary Coolant Gland. The gland, which is mounted in an aluminum base assembly, is a uniquely designed bronze wear bushing incorporated with a special double seal only found in The George Whalley ATC Rotary Coolant Gland. The seal is self-lubricating, high heat and wear resistant making it the rotary coolant gland of choice in many manufacturing facilities throughout the metal working industry. ATC Rotary Coolant Glands are supplied in face seal and single or dual pin O-ring seal configurations, designed to fit many of today's popular machining centers. The Manual ATC Style Rotary Coolant Gland is a cost effective alternative when evaluating machine feasibility. These glands can be upgraded easily to ATC Rotary Coolant Glands without having to purchase new toolholders.

REQUIREMENTS FOR RETROFITTING

- **SUFFICIENT CLEARANCE IN TOOL CAROUSEL AND TOOL TRANSFER ARM AREAS.**
- **PROPER FILTERED AND PRESSURIZED COOLANT SUPPLY TO SERVE AUXILIARY MANIFOLD AT SPINDLE FACE.**
- **COOLANT FILTRATION AND PUMPING SYSTEM CAPABLE OF PRODUCING THE VOLUME AND PRESSURE NECESSARY FOR TYPES OF TOOLS BEING USED.**
- **PROPER MATCHING OF THE SPINDLE SPECIFICATIONS TO THE CORRECT HOLDER AND GLAND.**
- **CNC CONTROLS ABLE TO OPERATE COOLANT FLOW TO THE AUXILIARY MANIFOLD.**
- **APPROPRIATE SHIELDING OF THE MACHINE TO HANDLE COOLANT FLOW WITHOUT SPLASHING.**