



## REPAIR SERVICE PARTNERSHIP DESCRIPTION & CAPABILITIES

Atlas Air & Water is aligned with a business partner that has been in the manufacturing and repair business since 1992 who has experience ranging from the very small (2" gear size) thru the Roots 32" gear blowers. Along with this partner, our mission upon is to provide high quality service at a reasonable price while listening to the customers needs and responding appropriately.

Our partner has an 18,000 sq. ft facility that is equipped with heavy-duty overhead lifting cranes, in-house machining capability, re-conditioning facilities and test capabilities. In addition, they have built strong relationships with outside vendors to handle some of the operations that require specialized equipment or talent. These types of operations include blanchard grinding, large turning, re-boring of housings, gear cutting, dynamic balancing of impellers and others, as the repair business always has a twist or turn. They have also built relationships with the blower manufacturers in order to have availability of OEM parts for repairs.

Our approach to the repair business is very individualized. Each blower that comes to us is set up with a job ticket folder upon arrival so that all details relevant to the customer's comments and needs are available to each person involved with the job. We document the condition of the blower and note anything special to that unit, if necessary; pictures are taken to preserve the image of original condition. Upon disassembly we pay close attention to the reason for the blower being sent in to us. Many times there is a mechanical failure, we will do our best to relay this information back to the customer so that if something needs to be changed/adjusted the failure will not be duplicated. If something is worn, again we will convey this information to the customer so that they understand what happened and what steps are going to be taken to repair the blower.

Our partner has repaired many different brands of blowers in all size categories. Just to name a few of the blower brands that have gone through their shop; Sutorbilt, Roots, Gardner Denver, Duroflow, Tuthill, Kaeser, Stokes, Holmes, Pfiefer and Cord. In that the bulk of the blowers being utilized in industry are generally smaller than 8" dia. Gear, this has generally been the largest volume of business over the years. However, each year they seem to repair an increasing number of blowers of the larger gear sizes. Many of these units are in the 10", 12", and 14" gear sizes with an occasional 18" & 20" machine.

Repairs are done in their shop so as to control the many variables that come into play during the repair process. Due to the size of the larger blowers, they require special attention to be paid too many items including the balancing of the impellers after reconditioning, the bearing fits on the shafts, the finish on the seal journals and most importantly the tolerance of the final internal clearances. Upon completion of all repairs we perform a mechanical run test.

This procedure allows them to run the blower at a slow speed and perform a slip test to gauge performance against published original equipment performance. On larger blowers they only perform the run portion. This allows them to be assured of mechanical integrity, proper oil pressure & flow and to listen to the gears & bearings for smooth or unusual running conditions. This testing procedure also allows the opportunity to correct anything that is not up to standards prior to leaving their facility. Together with our partner, we provide a 1 year warranty on the repairs, it is important that our customers understand that we want the equipment operate as it should when it is re-installed in their plant.

We operate in a manor and an environment that allow us to be covered by the required insurance coverages and in addition, finished products liability coverage. We provide and environment that has encouraged our shop help to stay with us for many years.

Contact us today with your repair needs and we would be happy to give you a quote.

### ATLAS AIR & WATER

PO Box 283 • Lakeland, MN 55043 • Phone: (612)940-9946 • Fax: (651) 490-3450  
sales@atlasairandwater.com • atlasairandwater.com

AAW 1007 - 1282013