

740 N Washington Ave. in Minneapolis





Early Horizontal Injection Press





The New Pangborn



1955 Precision Associates is incorporated in April of 1955 by Arnold Kadue and Wells Hoveroid. The original location is in 4 small bays of a large warehouse building at 740 N Washington Ave in Minneapolis. The name Precision Associates was chosen to reflect Arnold's vision of a team of "associates" working together to produce only "Top Quality" precision molded rubber goods.

Wells had a background in rubber molding, having worked at two rubber firms in the twin cites, while Arnold's background was hardware manufacturing. Arnold and a third party provided the finance. Wells had an idea for a new way to manufacture rubber products and convinced the others to invest in his plan. As it turns out, Wells' idea was a flop, but Arnold provides a second plan, using his experience in metal die casting to invent a new style of vertical injection molding that PAI still uses today. Rubber molds were purchased from the Standard Machine Company in Minneapolis.

Among the first custom items manufactured is a rubber washer that incorporates an O-Ring shape within. The seal was used in a Honeywell ventilation system damper. PAI continues to manufacture this washer until 1998 when the damper is finally phased out of use.

Again from his experience in the hardware industry, Arnold had been exposed to the comparatively new sealing device called an O-Ring. Relatively little used prior to World War II, military sealing requirements during the war provided lots of useful applications for this simple seal. After the war, designers began to utilize these O-Rings in plumbing, fluid power and many other types of applications. Arnold remembers how relatively expensive these O-Rings were at that time and believes it will be a lucrative business to cultivate.

Resultantly, the company chooses to add O-Rings as its first line of standard products. By 1957 Precision Associates has a catalog consisting of the first 15 sizes of the original AN 6227 O-Ring specification. Arnold finally feels he can hit the road, proudly showing his nice line of available O-Rings, *plus* the company's custom shape capability. A <u>price list</u> from that year shows that Buna N O-Rings were available in 4 durometers, with pricing not too much lower than today's.

1960 The 1960's bring growth and change to the company. Wells Hoveroid is bought out, and Arnold develops a more efficient, horizontal version of his injection press. Additional areas of the 740 building are annexed, cleaned, painted and added to the manufacturing space.

In 1964 Arnold invents and patents the Multiseal[®], a low friction dynamic seal suitable for use in
O-Ring grooves. The company now has a second line to add to its catalog. Shortly afterward, the company creates its first logo, incorporating the Multiseal[®] design.

The mid 60's also bring the purchase of a Pangborn, our first cryogenic deflashing machine for the then princely some of \$65,000. Some thought Arnold crazy for spending so much on one machine, but it was not the last time PAI would invest in a new and sometimes as yet unproven technology.

Our first of many materials is certified by an outside agency. PAI compound 5747 is approved 1966 • by UL in 1966. Our organization has had 5 UL listed materials over the years.

A company Profit Sharing plan is instituted in 1968. It has been modified over the years, but the original plan of sharing profits with the team that produces the profits continues today.







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2023

2019 After a twenty-year successful involvement with our subsidiary company, Sil-Pro is sold. Under our ownership the company grew 10 fold.

The Manufacturers Alliance names Precision Associates their Medium Sized Manufacturer of the Year.

2021 The Clean Room is expanded to 13,000 square feet doubling it's former size.

2022 The company begins molding Liquid Silicone Rubber in the new Clean Room to expand the medical device business.

The facility achieves ISO 13485:2016 Certification that details the requirements for a quality management system specific to the medical device industry. There are a total of 6 LSR machines. 2 Horizontal, 1 Vertical and 2 Vertical/Horizontal Arburg presses.