

Tooling



All precision cannot be measured in hundredths of a millimeter

When you think of tools, you no doubt think of precision down to one-hundredth of a millimeter. We think that way at AP&T as well, but for us precision means much more than that when it comes to tools.

AP&T's approach to our tool business encompasses the customer's entire production process. Because of our expertise in the areas of automation, presses and complete lines, we not only know how to make a tool, we also know how that tool will function in the environment in which it is to be used. This provides the right configuration for your end product, and ensures process reliability. AP&T also has extensive experience in managing large projects. As our customer, you know when everything will be ready – delivery precision is one of our cornerstones.

People talk about precision down to the microscopic level. Here at AP&T, you get that level of precision and so much more. You can read more about it in this brochure.





Production expertise:

The tool – a part of the entire production process

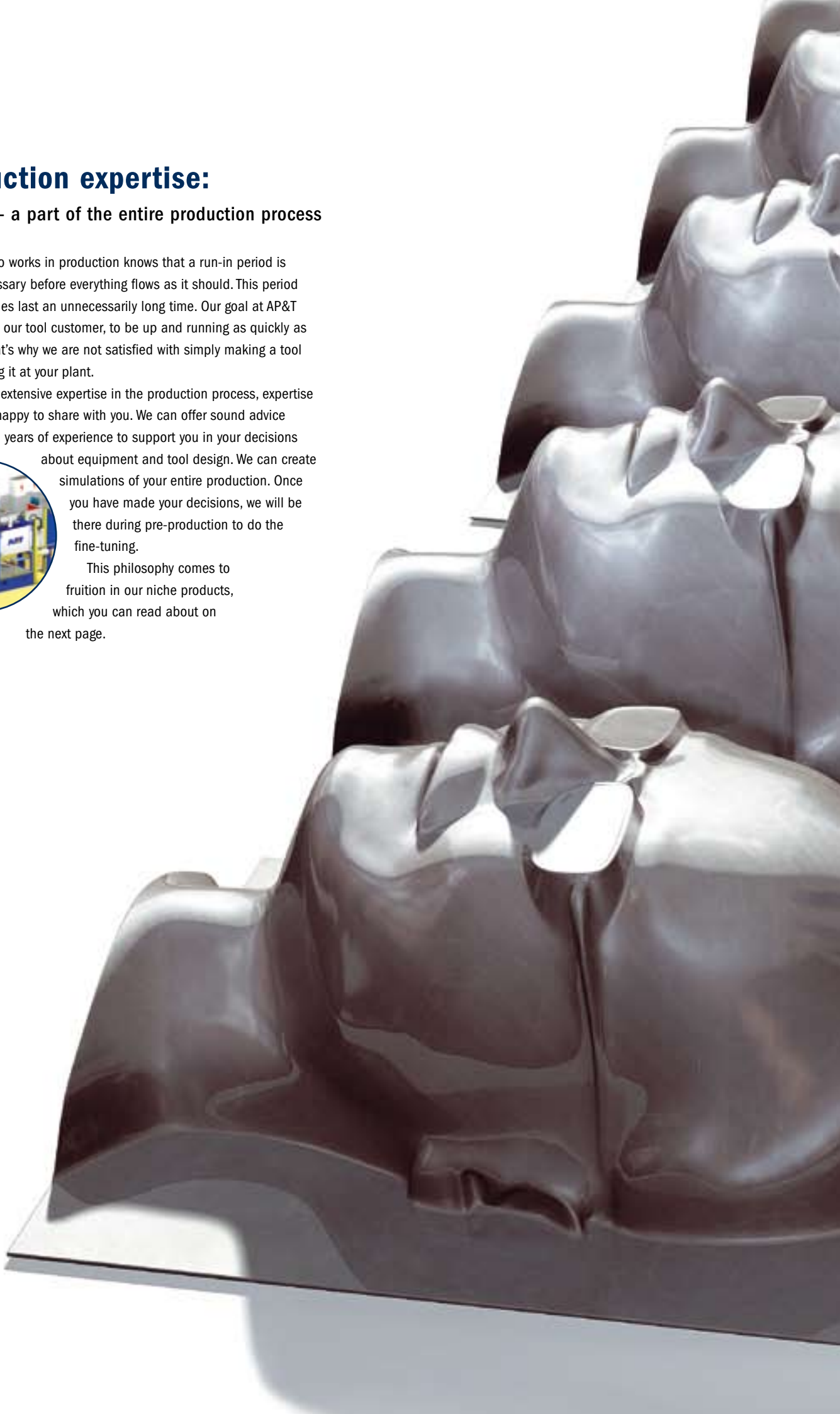
Everyone who works in production knows that a run-in period is always necessary before everything flows as it should. This period can sometimes last an unnecessarily long time. Our goal at AP&T is for you, as our tool customer, to be up and running as quickly as possible. That's why we are not satisfied with simply making a tool and installing it at your plant.

AP&T has extensive expertise in the production process, expertise that we are happy to share with you. We can offer sound advice based on 45 years of experience to support you in your decisions

about equipment and tool design. We can create simulations of your entire production. Once you have made your decisions, we will be there during pre-production to do the fine-tuning.

This philosophy comes to fruition in our niche products, which you can read about on

the next page.





Niche products:

Why reinvent the wheel?

Here at AP&T we have a well-defined offering of so-called "niche products." It includes tools and complete production lines for product areas in which appearance and dimension standards are already established. Examples of such niche products include solutions to produce components for use in ventilation systems, heat exchangers, fire extinguishers and filter housings.

AP&T has been consistently refining the production technology for such components for quite some time. This includes everything from the actual tool to controlling the entire process. In theory, someone who had never been involved in the production of one of these niche products could get the right solution directly from us. Looking for new products where a total production concept can be applied has been a continuous and ongoing process for AP&T. Why should you, as a customer, have to invest expensive resources in developing something that we have already developed?

Facts about niche products

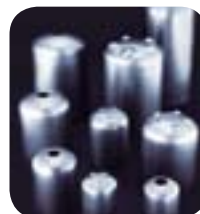
AP&T's niche tools and production solutions are available in the following product areas:



Deep Drawing



Filter Housings



Fire Extinguishers



Heat Exchanger Plates



Air Duct Parts



Pressure Vessels

Outside the press: AP&T's specialized machines

A part is seldom finished when it comes out of the tool. AP&T's expertise in the entire production process enables us to offer specialized machines for finishing operations such as folding, bending, creasing and joining. One example is a solution that accomplishes the joining operation in the production of cavities.





Isolation is not strength

We are not an independent toolmaker. Being part of AP&T means that we have access to production expertise in automation, presses, tools and complete lines. It also means that we are part of an international organization that can keep up with global customers anywhere in the world. Our international presence enables us to benefit from the experiences of many different customers in many different markets. This makes us even better able to deliver the best possible tool solution for you.



Automation



Presses



Tooling



Press Lines

AP&T's approach to our tool business

encompasses the customer's entire production process. Our long history of tool making combined with our expertise in the areas of automation, presses and complete lines means we not only know how to make a tool, we also know how that tool will function in the environment in which it is to be used.

So regardless of whether you are looking for a single tool or a total solution, be assured that AP&T has the expertise to help you achieve the precision you need.

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