

Saving Money
from Concept to Production



Customized Services for Customized Products

Angst + Pfister's expertise in	Engineering Assessment	Design-in and Cost-out	Prototyping and Samples	Series Production
Engineering	– Industry and application references	– Virtual design – Total cost of ownership	– Customization workshops deliver full functionality	– Global sourcing – Production scheduling
Services	– Feasibility studies – Innovative ideas	– CAD, CAE drawings – Numerical analysis	– Fast prototyping – Pre-series production tests	– Blanket purchasing contracts – Just-in-time/kanban
Obvious customer benefits*	– Clearly defined norms	– Detailed product specifications	– Quality certification documents and testing	– Supply chain solutions

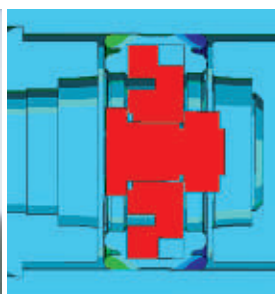
* price based on requirement

Engineering Assessment

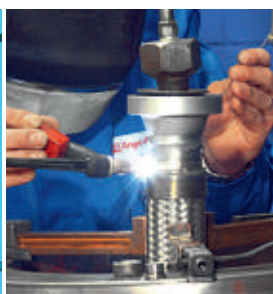
Over the years, Angst + Pfister has built up a comprehensive team of highly qualified application engineers who have amassed expertise across a broad range of industries. Getting Angst + Pfister involved at the beginning accelerates the time-to-money of a new design project. Under the APSO (Angst + Pfister Solutions) brand, our engineering specialists develop tailor-made solutions for practically any application within our five core product areas.



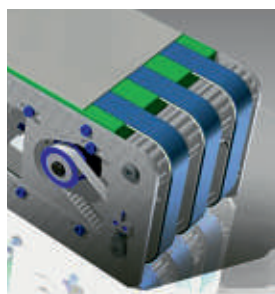
APSOplast® Engineering Plastics Technology



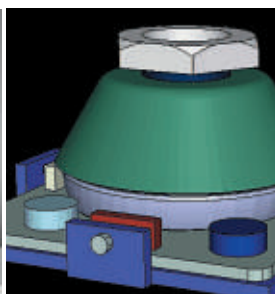
APSOseal® Sealing Technology



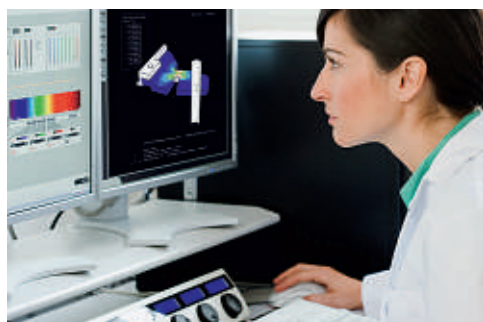
APSOfluid® Fluid Handling Technology



APSOdrive® Drive Technology

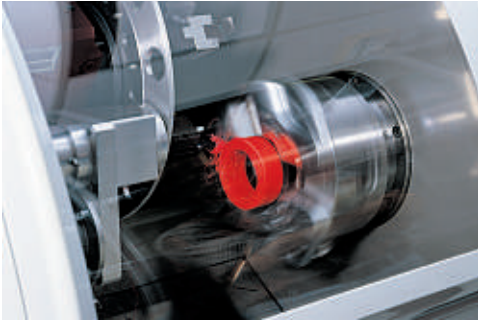


APSOvib® Antivibration Technology



Design-in and Cost-out

Our application engineers' excellent knowledge of materials and deep understanding of the manufacturing process make Angst + Pfister the ideal partner for customer-specific product solutions. Everyday, we create customized components that are developed specifically for our customer's applications and requirements. The experts at Angst + Pfister consider the entire production process and help our customers systematically save money by reducing the total cost of ownership.



Prototyping and Samples

In the development process, Angst + Pfister can save our customers time not only by creating prototypes, but also by manufacturing pilot series. Additionally, we provide declarations of conformity with a wide variety of industry regulatory norms and leading specific certifications, including:



Workshops

Angst + Pfister's state-of-the-art Swiss production facilities perform at the highest quality a variety of value-adding manufacturing steps, such as:

- pre-assembly production
- contour cutting and stamping
- machining of semifinished products into finished components
- exactly calibrating gas springs
- TIG/plasma welding to manufacture metal hose assemblies
- precisely pressing fittings onto hoses
- welding polyurethane toothed belts



Quality Certification Documents

As an ISO 9001:2008-certified enterprise, Angst + Pfister knows that quality is a critical component of sustainable revenue streams and profitability. Therefore, Angst + Pfister is capable of carrying out comprehensive quality testing, providing a wide range of quality certifications and exact test protocols. These include:

Documents*	Norm	Description
Manufacturer certificate of compliance 2.1	EN 10204-2.1	Certification of delivery in compliance with the order specifications
Manufacturer certificate of compliance 2.2	EN 10204-2.2	Certification of delivery through manufacturer's quality-control department
Manufacturer certificate of compliance 3.1	EN 10204-3.1	Certification of compliance with the order specifications including results of specific testing
Manufacturer certificate of compliance 3.2	EN 10204-3.2	More rigorous certification of compliance with the order specifications including results of specific testing
Declaration of conformity	EN ISO/IEC 17050	Certification that the specific properties of a certain good or version meet recognized standards
IMDS entry	VDA 231-106	Entry in International Material Data System and Global Automotive Declarable Substance List
Initial sample test report	pursuant to customer requirements	Initial sample test report in accordance with customer requirements
Initial sample test report in accordance with PPAP Level 3	ISO/TS 16949, VDA volume 2, QS 9000	Special initial sample test report in accordance with customer requirements (automobile industry), i.e. design FMEA, control plan, sample product
Test protocol		Test protocol in accordance with customer requirements

* price based on requirement

Series Production

Drawing on a wide international network of manufacturers, Angst + Pfister can provide the right component at the right price on a just-in-time basis, no matter where the customer is located in Europe or Asia. To ensure best prices and availability, blanket purchasing contracts can be arranged for values greater than EUR 5,000. To reduce the total cost of ownership, contact us for kanban, just-in-time and complete supply chain management solutions.

Services from Angst + Pfister Group

Angst + Pfister – Your supply and solutions partner

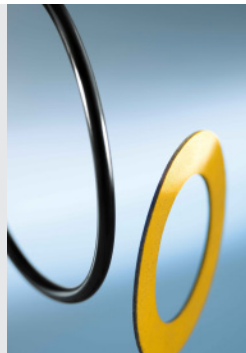
The Angst + Pfister Group is a leading international technical manufacturer and service provider for high-end industrial components. As a supply and solutions partner for engineering plastics, sealing, fluid handling, drive, and antivibration technology as well as

sensors, Angst + Pfister combines efficient logistics concept with comprehensive product application engineering services. Besides providing customer-specific parts, the Group offers a product range consisting of approximately 100,000 standard items.

Our core product divisions



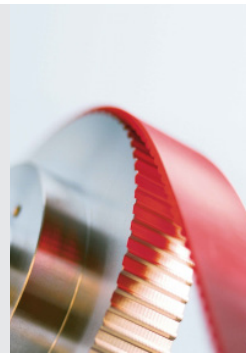
APSOplast®
Engineering Plastics
Technology



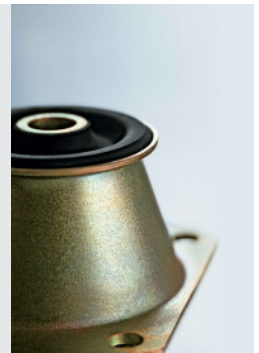
APSOseal®
Sealing
Technology



APSOfluid®
Fluid Handling
Technology



APSOdrive®
Drive
Technology



APSOvib®
Antivibration
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