



ENGLISH

Your strategic partner for high-tech precision tools, spare parts and moulds for mass production

# ADAMUS HIGH TECHNOLOGY

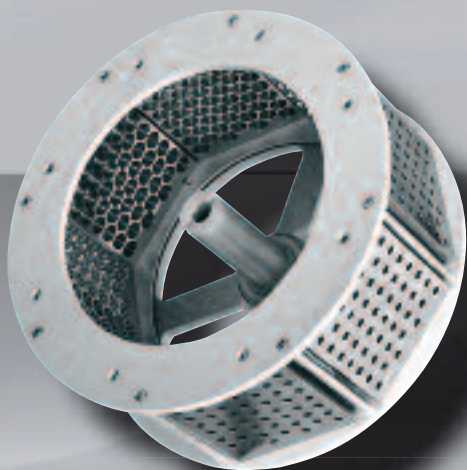
ADAMUS HT was established in 1981 as a company specializing in designing and production of injection moulds for plastic processing industry. Two years later, designing and production of tablet press tooling was started and company gradually broaden the product portfolio for the pharmaceutical industry adding other spare parts for tablet presses, capsule fillers and format parts for blister lines.

Our Company Vision and Mission is to deliver to the customers products and services of the highest quality and competitive price, maintaining short delivery times. To reach these goals ADAMUS HT systematically modernizes the software (CAD/CAM, ProEngineer) and machinery to keep pace with the increasing customer requirements. All products leaving the workshop are passing the final Quality Control Procedure which is the part of Quality Management System ISO 9001:2000 certified by Germanischer Lloyd which we introduced in 2004.

For tools and spare parts production, the only certificated materials from certified producers are used. The heat treatment process is carried out internally in our own Heat Treatment Department. In the case of tools requiring special coating (chromium, chromium nitride, titanium nitride or DLC coating) ADAMUS HT collaborates with proven quality subcontractors.



All these quality features combined together with a large sales network allow us to distribute our products all over Europe and the Middle East, to the individual and leading international pharmaceutical concerns.



## Adamus HT

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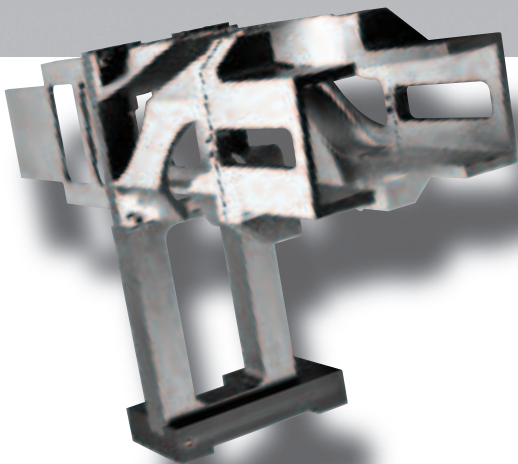
punches & dies

spare parts for tablet presses

spare parts for capsuling machines

blister format parts

services



# CERIFICATES

In 2004, after auditing by Germanischer Lloyd, we obtained Quality Management System Certificate ISO 9001:2000 for seven internal processes:

1. System supervising.
2. Resources management.
3. Determining of the customer requirements.
4. Designing.
5. Purchasing
6. Production and services.
7. Measuring, analysis, improving

These procedures are one of the main pillars of our operations.



# TECHNOLOGY

Our own Design Department using CAD / CAM system, modern machinery, own heat treatment facility, 100% quality check and certified Quality Management System ISO 9001:200 give us the position to offer the highest quality products and services with competitive price.



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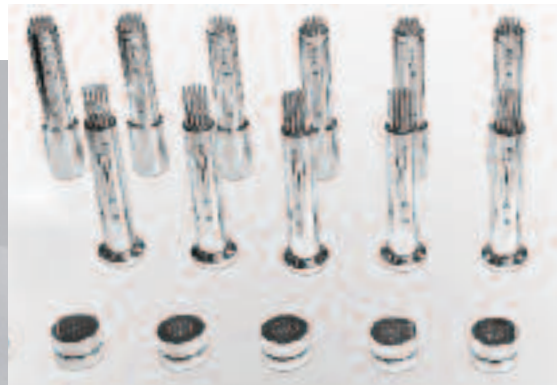
services

# PUNCHES AND DIES FOR TABLET PRESSES

Punches and dies constitute the key element of the tableting process. They impact on the final appearance and dimensions of the produced tablets, so they must be designed and produced with great precision and accuracy. During the operation the tools are exposed to large pressures, very often they press abrasive or corrosive powders or granulates, which require the use of the highest quality steel, having proper heat treatment and sometimes special coating preventing the tools from wearing or sticking or even using other special materials such as tungsten carbide. Some applications such as for example household chemistry products sometimes require using plastic inserts (teflon or vulcolan) for additional punch pressing part protection.

ADAMUS HT designs and produces punches and dies for all types of tablet presses, according to EU or IPT standards or to the specific standards of tablet press producers, whatever is required by the customer. In this range, the product portfolio consists in round and shape tools, mono- or multitips. The tools can be delivered in special plastic boxes adjusted to store the tools safely before and after use. Each consignment includes a Measuring Report of each individual tool.





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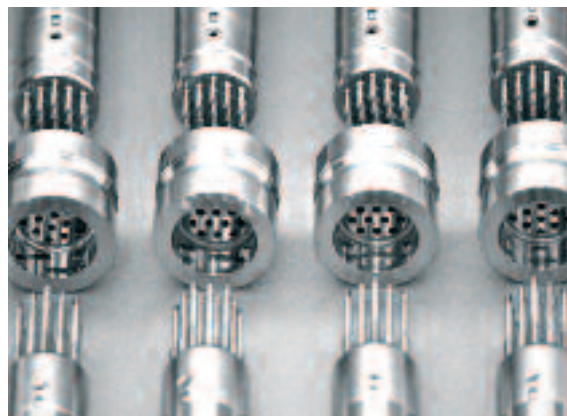
punches & dies

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# SPARE PARTS FOR TABLET PRESSES

Our knowledge about the tableting process gained during design and production of the tools, helps to solve customer process problems. Our modern machinery for production of the parts of such high precision and accuracy allows us to broaden our product portfolio by adding manufacture of other spare parts for tablet presses.

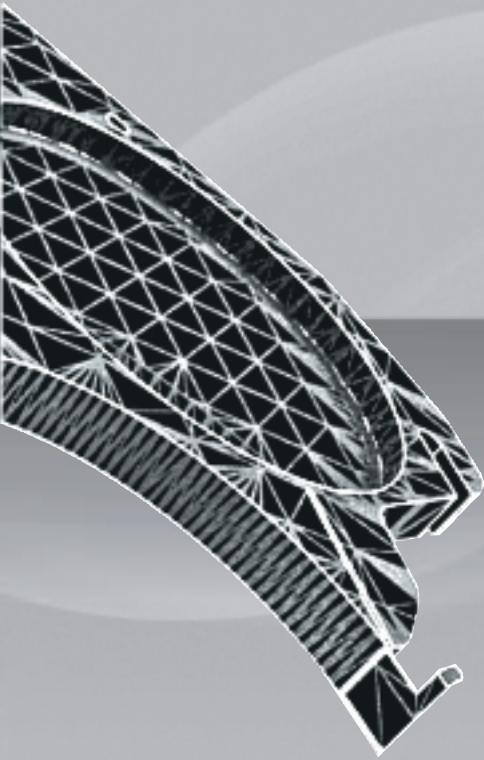
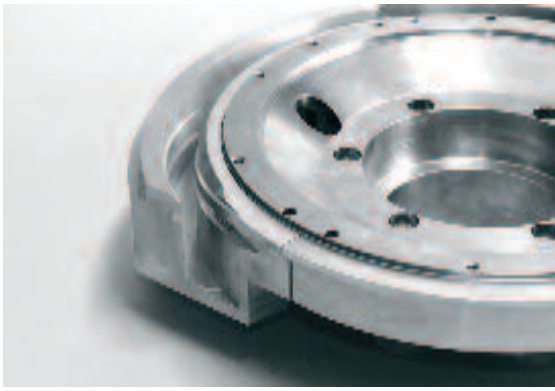
High quality of the produced parts, their reliability and lower price in comparison to OEM producers gives our customers the possibility to achieve substantial savings without the risk of deteriorating the working parameters of their tablet presses.

Our Spare Parts portfolio consists of:

- Cams from plastic, bronze or steel
- Pressing rolls
- Feeders
- Scrapers
- Turrets
- Other mechanical parts







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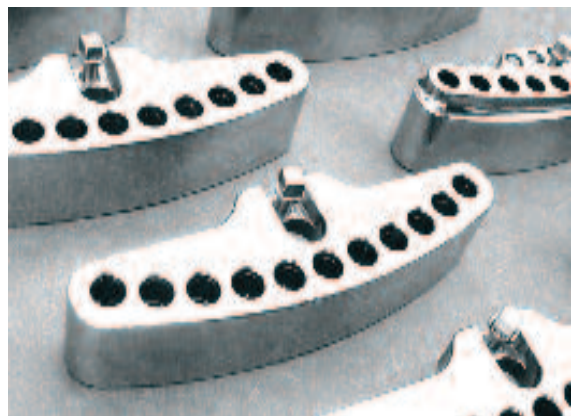
blister format parts

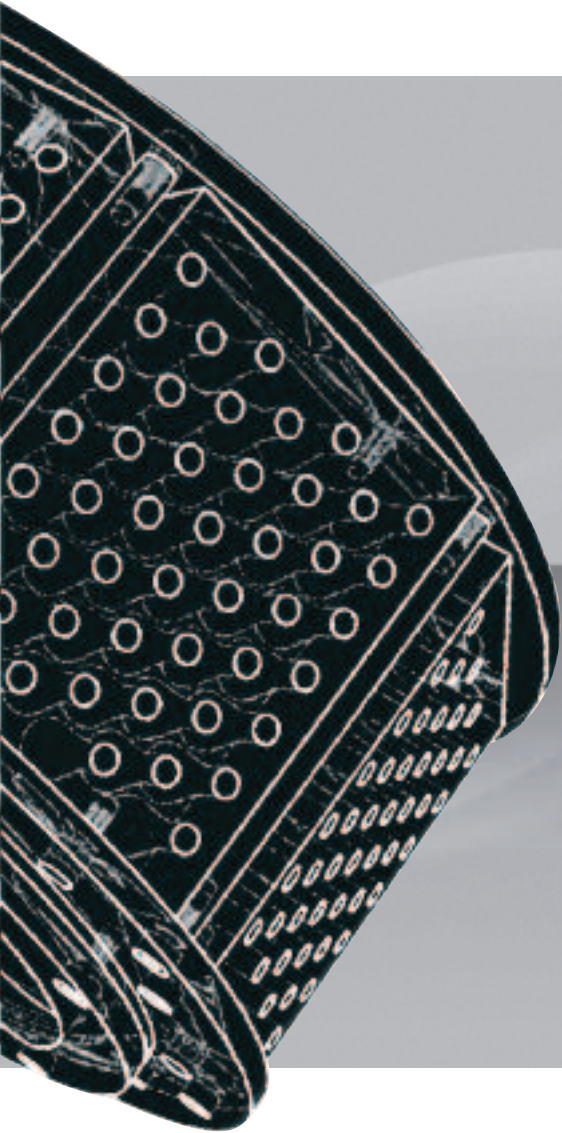
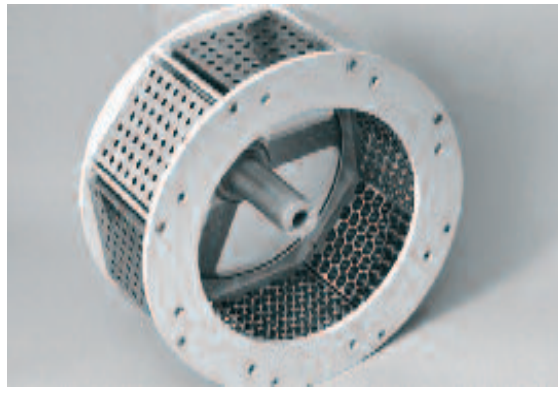
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# SPARE PARTS FOR CAPSULING MACHINES

We offer spare parts and format parts for different types of capsuling machines. Most frequently ordered parts are powder filling devices, capsule orientation segments, closing segments and capsule sorting drums.





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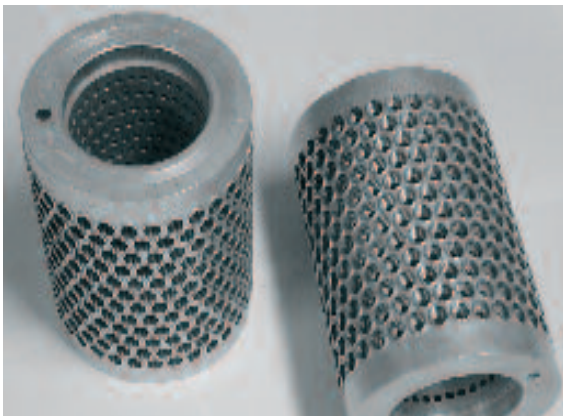
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# BLISTER FORMAT PARTS

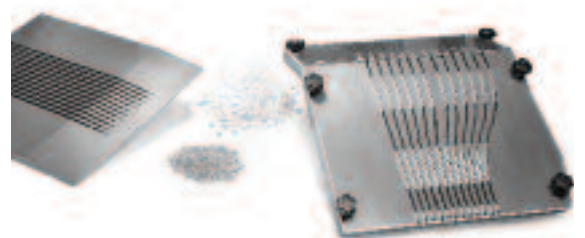
Understanding the customer requirements for fast introduction of new products, ADAMUS HT offers high quality format parts for blistering machines of all types. We have extensive knowledge and experience with UHLMANN, BOSCH, MARCHESINI, IMA, CAM and KLOCKNER machines. Our well-equipped Engineering Department allows us to prepare reliable design and documentation which assure correct blister line operation.

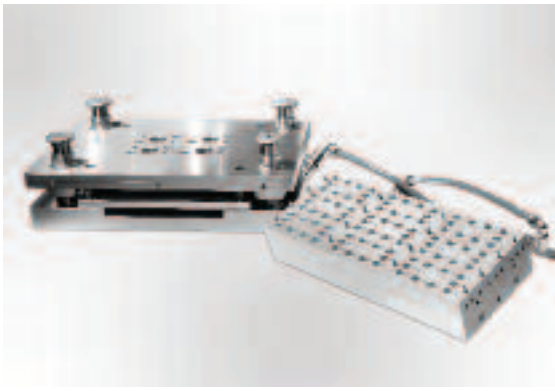
We offer:

- 2-D or 3-D design of the blister with visualization which allows to estimate the appearance and functionality before producing the format parts and finally the blister itself,
- Short delivery times which allow to reduce the time needed for product launch into the market,
- Very efficient communication
- Correct blister line operation
- Immediate reaction when customer needs our help

Commonly supplied parts:

- Forming plates,
- Feeding devices,
- Foil guiding rails,
- Sealing plates,
- Sealing and guiding rolls,
- Perforating station,
- Cutting tools,
- Coding stations.





ADAMUS HT experience include also for design and production of cartoning machine format parts. This gives us the capability to execute complex projects for setting up whole packing line.

The complete ADAMUS HT product portfolio consists of pressing tools (punches and dies), spare parts for tablet presses, format parts for blister lines and cartoning machines allowing us to offer to customers the full package starting from tablet design and ending to packing the blister into cartons.



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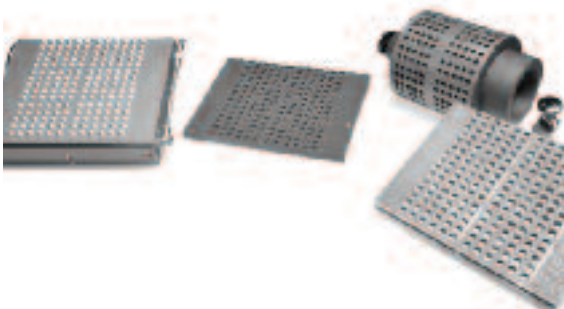
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# TABLETS DESIGN

In the tools creation process the first step is usually tablet design. Our engineering department on the customer instructions can make such a design based on the received tablet or tool samples. Additionally, they can provide the calculation of designed tablet weight or proposal of different tablet shapes, simultaneously keeping required tablet volume. On request, 3-D tablet visualization is available. Our vast and long-time experience allows us to design the tablets with different shapes, various embossing and logos, taking into account the requirements for maximum working life of tools used for tablet pressing and durability of the tablets during finishing steps (coating, blistering etc.).



# TURRETS OVERHAUL

Additionally we specialize in restoring the proper turret working parameters. We offer:

- Assistance for turret diagnosis
- Determining the turret elements which require overhaul or replacement
- Regeneration of the complete turret or its individual parts
- New turret production

The key factor is our knowledge and experience of all technical conditions which are essential for proper operation of the tablet press according to manufacturers specification.

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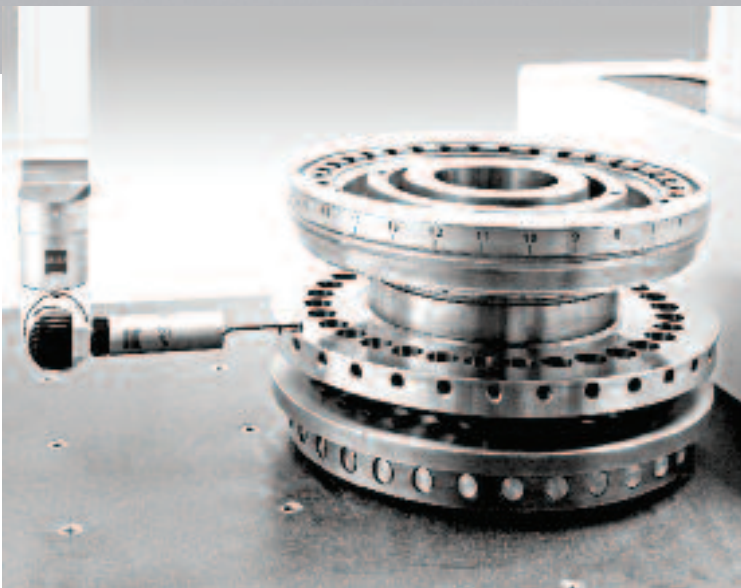
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