NEWSLETTER Q1-Q2/18

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ACHEMA 2018
11 - 15 June 2018
Frankfurt am Main, Germany
ADAMUS SA TOOL INSPECTOR TI-2
NEW CHALLENGES!

Ti-2 This is a newest generation of precise system for automated dimensioning of punches and internal dies assessment, which is based on the latest technological developments in the field of optical measurements. The patented algorithm for combining the simultaneous measurement of the synchronous movement in the XY plane, allows the determination of the geometric parameters of the most complex pressing parts.

Moreover, the presence of a dedicated video system with a resolution of 5M pixels, allows for the facilitation of optical Quality Assessment of the tools, and allows to perform the automatic dimensioning of multi-tip punches and dies.

BASIC PARAMETERS OF THE NEW MEASURING MACHINE

- fully automatic measurement, regardless of the complexity of the tool
- non-contact measurement with a resolution of 0.001mm for punches
- non-contact measurements of die bore wearing with a resolution of 0.001mm
- camera with autofocus and 5M pixels resolution with illuminator with controllable power and wavelength
- dedicated, built-in controller of the measuring machine with communication interface USB 2.0

BASIC PROPERTIES OF THE SOFTWARE

- open-architecture application coded in .NET Framework 4.5 technologies
- the ability to run on any PC with Windows 7 and above
- easy and intuitive interface
- automatic load of the CAD files for the measured tooling
- saving protocols, the possibility of personalization and export to Excel or PDF

- saving protocols, the possibility of personalization and export to Excel or pdf
- view from the camera with a maximum resolution with the possibility of controlling the position of the punch / die under the camera by using the Space Mouse; record of the image
- pairing of punches function
- break line, protruding line or engraving height measurement
- multilingual application with the ability to quickly add another language
- open architecture allows for expansion of measuring capabilities of the machine by installing new measurement libraries
WHAT MEASUREMENTS ARE POSSIBLE?

- the machine is supplied with the basic measurement libraries that enable automatic sizing of single tipped punches and dies of the following standards: EURO-B, EURO-D, TSM-(IPT)-B, TSM-(IPT)-B2, TSM-(IPT)-D, FETTE EU 1’441, PHARMA, 20/28, ST-328-2, 25/32, 25/32 SLOTTED, FS12 – NEW!
- in the case of punches, the basic library enables the automatic measurement of geometrical sizes of the following: the total height, L0, working height L1, depth of convex (L0 - L1), longer and shorter dimensions A and B of the shape tooling or diameter D for the round tooling; shaft diameter d1, d2 and the head diameter d3. Possible single, dual and triple tips measurement (L0, L1, D). Possibility for not limited amount of tips for multi-tip punches (L0,...n, L1,...n)
- in the case of dies, the basic library enables the automatic assessment of the profile of the inner die bore with the determination of the difference between the minimum and maximum value
- measuring library for special cases of single tip and multi-tip punches and dies are made on request and delivered as a single installation file that expands the functionality of the measuring machine
- dedicated holders for dies & worn out punches heads
- assessment of dies profiles for up to 4 die bores. We are about to finish implementation work!
- GUI further adjustment & improvements according to customers suggestions. In progress!
- R&D further work for cooperation of the machine with a QR reader in order to automatically record the history of tool measurement. New challenges!

FLUIDS TO PROTECT & CLEANING TOOLS - NEW!

Adamus S.A. focuses consistently on high-quality protection and cleaning solutions for steel tools. Fluids we use here in our company are products which offer a comprehensive range of high-performance fluids for the food and pharma industry.

Easy-to-handle, fully synthetic corrosion protection fluid with excellent yield for use in machinery in the food, pharma and beverage processing and packaging industry. Provides a thin, highly efficient molecular film on components.

Cleaner recommended is a fast and residue-free evaporating. That solution is a highly effective combination of active ingredients ensuring washing and degreasing.

Fluids approved by NSF, Kosher and Halal.

PLASTIC GRANULATES FOR POLISHING MACHINES - NEW!

According to customers’ needs and parallel to the walnut granulate we deliver, we can offer plastic granulate with very similar properties. **Perfect solution where non-organic granulates are required.**

- urea resin with maximum hardness of 3,5 Mohs (Barcol 54-62)
- melamine resin with maximum hardness of 4,0 Mohs (Barcol 64-74)

Granulate sizes:

- 40/60: 250-420 µm  
- 30/40: 420-600 µm  
- 20/30: 600-850 µm  
- 16/20: 850-1200 µm  
- 12/20: 850-1700 µm  
- 12/16: 1200-1700 µm

Our recommendation – type 40/60 for perfect smooth polishing.
SINGLE STATION PRESS FOR SINGLE FOR THREE-LAYER TABLETS. AN INNOVATIVE SOLUTION

A perfect solution for low volume manufacturing or every research purpose

TECHNICAL FEATURES:

- dimensions (H*W*D) cm: 189*140*56
  tools: Euro-B, Euro-D, Euro-BB
- maximum compression force: 80 kN
- maximum ejection force: 10 kN
- the ability to produce single-layer, double-layer and three-layer tablets.
  - 3 layers approx. productivity: 5 tablets per minute (300 tab./h)
  - 2 layers approx. productivity: 10 tablets per minute (600 tab./h)
  - 1 layers approx. productivity: 15 tablets per minute (900 tab./h)
- maximum depth of upper punch in the die bore: 7mm (optional 12 mm)
- usable as the production machine in continuous operation
- the process of filling the die and the tablet compression simulates a rotary tablet press operation
- precisely controlled "dwell time"
- continuous reading and control of the punch position and compression forces.
- simple and safe readjustment process.
- the ability to control achieving the desired thickness of the tablet or desired compression force.
- integration options of machine control system with additional components.
- options of extensive reporting capabilities, file transfer reports via Ethernet or USB with a large internal memory to store recipes and historical data.
- implemented standard Industry 4.0.
- the central lubrication system with a rare necessity of maintenance.
- designed for flexibility of control and for high cleanliness of the workspace.
- expandable with additional elements (automatic weight control, vision system, etc.)
### THE MACHINE VERSION

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**SPARE PARTS FOR TABLET PRESSES - EDITION FOR FETTE NEW!**

Adamus SA prepares for our customers catalogues to show which parts for tablet presses we had already manufactured and we are ready to deliver without any reverse engineering to be prepared. At the beginning parts for Fette type tablet press is ready. Further tablet presses would be prepared soon. Please find these catalogues on our website or directly at our representatives.

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**Parts for Fette tablet presses**

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**Adamus S.A.**

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www.adamus.com.pl
Curious about the latest improvements in tooling for pharmaceutical industry? Visit our stand during ACHHEMA - Hall 3.0, Stand H73

At this year’s ACHHEMA trade fair, ADAMUS S.A. will be exhibiting a wide range of its compression tooling and tooling auxiliary equipment for the pharmaceutical and related industries. Our new Single Station Tablet Press for single, two and three-layer tablets, designed, engineered and manufactured in Poland, will bring an innovative construction solutions. With nearly 40 years of experience in designing and manufacturing compression tooling and machine components used in various industrial sectors, ADAMUS S.A. countinuously delivers world class support and customer service, being a leader on the market of technological solutions of the highest quality.

We guarantee the excellence of our products and services while still maintaining competitive prices. We know how to meet high demands and satisfy the needs of our clients, partners and customers on the global market. We know how important your trust is. We focus on development, continuous improvement and technology transfer.

Find us in Hall 3.0, Stand H73 during ACHHEMA event. In case of any questions, do not hesitate to contact us:

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