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Cybernet Systems Co., Ltd.

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## **Injection Molding CAE System “PlanetsX” joins DatapointLabs' TestPaks® Alliance Program to improve the system for overseas users.**

**Take advantage of the material properties measurement services to get accurate analysis results!**

CYBERNET SYSTEMS CO., LTD. (hereinafter “CYBERNET SYSTEMS”; Head Office: Tokyo; President: Kuniaki Tanaka), has agreed to an alliance (TestPaks® Alliance Program) with DatapointLabs, LLC (hereinafter “DatapointLabs”; Head Office: Ithaca, New York; President: Hubert Lobo) for polymer material properties measurement and model fitting service for plastic molding CAE software PlanetsX.

TestPaks® provided by DatapointLabs serve customers with material properties measurements combined with model calibration, formatted as input decks for each alliance partner's CAE software. Materials that can be tested include plastics as well as metals, rubbers, foams, and other materials.

Through overseas partners, CYBERNET SYSTEMS has also accelerated the sale of PlanetsX. Users of PlanetsX overseas will have the opportunity to get high precision CAE plastic molding using the polymer material properties data that was measured and formatted specifically for use with PlanetsX software through the TestPaks alliance with DatapointLabs.

The PlanetsX CAE system for polymer processing analysis realizes a unified (seamless) simulation from plastic flow to mechanical properties of a product in the superior pre-/post-processing environment of ANSYS Workbench. With accurate material data and a proper data-fitting operation, this system provides mold/mechanical engineers with high-precision solutions to predict mold defects, i.e. warpage, sink, weld lines and air traps.

To simulate plastic molding, injection molding analysis requires heat flow characteristics (viscosity, thermal conductivity, specific heat, PVT characteristic) which are used to calculate the heat flow of resin, and Warp Analysis requires mechanical properties (Young's modulus, Poisson's ratio, coefficient of linear expansion) which are used to calculate warpage deformation of the molded product. Also in the case of using thermosetting resin for the analysis, it requires viscosity growth curve and reaction heat by DSC.

In PlanetsX, a database containing these properties for some commonly used materials is provided as a sample for the customer. However, in order to obtain a simulation result that closely predicts the actual phenomena, it is very important to specify precisely the molding conditions, which include the measured properties data of the material actually used to produce the plastic product, for input to the simulation.

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Through alliance with DatapointLabs, users of PlanetsX can receive measurement data for their resin, and their specific PlanetsX simulation. It is possible to request a quote from DatapointLabs by selecting the simulation type of PlanetsX TestPaks. The TestPak suggests all the physical properties needed for that PlanetsX simulation. The measurement data comes from a team with many years of experience and skill for use of material data in CAE. The measurement data is in a format that can be read in by PlanetsX. Charges can vary by the number of samples, temperature at which data is to be measured, and if data is needed faster than the normal five business day delivery time.

For more information on PlanetsX, visit

<http://www.cybernet.co.jp/ansys/planetsx/en/>

For more information on DatapointLabs' TestPaks, visit

<http://www.datapointlabs.com/ShowDetails.asp?CAEPackId=47&MfrId=37>

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## **About DatapointLabs**

Customers at 1200 companies from 34 countries recognize DatapointLabs ([www.datapointlabs.com](http://www.datapointlabs.com)) as their materials science partner for new product design, CAE, and research and development efforts across a range of industries.

DatapointLabs tests more than 1800 materials annually in an ISO 17025 production environment, using the latest technologies in quantitative material testing to characterize physical properties in the solid and melt states, and delivers results within five business days for standard tests.

Today, DatapointLabs, together with its affiliate, Matereality ([www.matereality.com](http://www.matereality.com)), offers expert material testing services and data delivery, as well as software for material data visualization, modeling and management.

## **About CYBERNET SYSTEMS**

CYBERNET SYSTEMS, headquartered in Tokyo, Japan, was established in 1985.

The Company provides best-in-class CAE\* solutions for plastic molding, mechanical and fluids analysis, process integration and design optimization, control design, formula manipulation, tolerance optimization, optical design, electronic and electronics design, visualization and multi-domain solutions.

The Company also offers professional services including educational services, technical support, engineering services and consulting.

The Company maintains business relationships with CYBERNET SYSTEMS Group companies, including three CAE software development subsidiaries, in Japan, China, Taiwan, Korea, USA, Canada, Belgium, Germany and France, in addition to overseas software partners and distributors. Please refer following web site for more details of CYBERNET SYSTEMS.

<http://www.cybernet.co.jp/>

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\*CAE (Computer Aided Engineering) : is the alternative technology that manufacturers enable to perform testing and experimenting its prototype of product on computer simulation and analysis at research and development stage of “Monozukuri” (manufacturing), instead of actually making physical prototype that is traditionally done. CAE significantly reduce the number s of physical prototype and experiment, as well as predict and solve various issue with no overlooking of such issue. CAE also contribute the implementation of environment-conscious manufacturing by tremendously reducing waste materials which are produced from physical prototype or experiments.

## **About PlanetsX Channel Partners**

- **TAESUNG S&E, INC ([www.tsne.co.kr](http://www.tsne.co.kr))**

Taesung S&E Inc. has started their engineering s/w distribution and consulting business in Korea since 1988. With wide range of expertise in heavy industry, electronics, shipbuilding, chemical, automotive, aerospace and bio-medical, they are providing the high quality technical support, training and consulting services to industrial and academic customers more than 2,000 sites. Taesung S&E Inc.’s mission is ‘To be a #1 Engineering service provider in Korea’.

- **EnginSoft SpA ([www.enginsoft.it](http://www.enginsoft.it))**

EnginSoft is a premier consulting firm in the field of Simulation Based Engineering Science (SBES) with a global presence. It was founded in 1984, but its founder and initial employees had been working in SBES since the mid ‘70s. Throughout its long history it has been at the forefront of technological innovation and remains a catalyst for change in the way SBES and CAE technologies in general are applied to solve even the most complex industrial problems with a high degree of reliability.

Today, EnginSoft is comprised of groups of highly qualified engineers, with expertise in a variety of engineering simulation technologies including FEM Analysis and CFD, working in synergic companies across the globe. We are present in Italy, France, Germany, the UK, Sweden and the U.S.A. and have a close partnership with synergetic companies located in Greece, Turkey, Israel, Portugal, Brazil, Japan and the U.S.A.

- **PERA Global ([www.peraglobal.com](http://www.peraglobal.com))**

PERA Global– the leader of perfect-pursuing R&D Technology and Services

Dedicated to promoting the development of perfect-pursuing R&D technology, PEAR Global provides the most advanced high end R&D informatization technology, product and service based on the product R&D process, so as to help the customer to enhance the added value on product and technology, and thus improving the core competitiveness.

Established in 1996, PERA Global has become the leader in the field of perfect-pursuing R&D through 15 years’ development, with 13 branches in the countryside, and more than 600 employees. We have about 3000 users in

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China, covering many areas such as national defense, marine, aerospace, electronics, automotive, university research institutes, etc.

• **Ozen Engineering Inc. ([www.ozeninc.com](http://www.ozeninc.com))**

Ozen Engineering, Inc. provides ANSYS simulation sales and support to some of the most prestigious companies in Northern California. Headquartered in the heart of Silicon Valley, Ozen Engineering collaborates with best-in-class companies to optimize product design performance and improve product development processes for clients across a wide variety of industries. Ozen Engineering, Inc. is passionate about developing accurate simulation and realistic modeling as core competencies within client companies and helping them realize unparalleled results from their FEA and CFD investments. Visit [www.OzenInc.com](http://www.OzenInc.com) for more information or e-mail us at [info@ozeninc.com](mailto:info@ozeninc.com).

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