



# COSMOS MACHINERY NEWS

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## South China welcomes mega-event in May - Cosmos composes gorgeous movement with double happiness

On May 16th morning, Cosmos Machinery held a splendid ceremony in front of the new office complex and new assembly workshop in ZhouWu, DongCheng, DongGuan, and warmly celebrated "Grand Opening of CML Complex and Celebration of 25th Anniversary of DongHua Machinery Ltd.". Honored guests were from include DongGuan Municipal Government, DongGuan Science & Technology Bureau, DongGuan Economy & Information Technology Bureau, DongGuan Quality & Technology Supervision Bureau and DongCheng District Government, domestic and overseas partners, financial communities, academic institutes, industry associations and press organizations etc., about 500 guests joined the pleasant event.

Chairman LI JianGuo of China Light Industry Machinery Association, Deputy Director LIANG FengMing of DongGuan Science & Technology Bureau and Secretary QIN WenDong of ZhouWu Community, DongCheng District on behalf of government functional department gave the speeches. They highly have appreciated Cosmos Machinery's success and contribution to science and technology innovation, encouraged our company to make efforts on own technology and brand, and pursued higher goal.

Chairman TANG To, of Cosmos Machinery group, on behalf of board of directors and all employees, expressed the sincerest gratitude to the care and support from government, partners and customers, he stated Cosmos Machinery will continuously uphold the belief of "People-oriented, Excellence through people, Sharing the future together", and makes great efforts to create our own developed

technology and brand, dedicates to offer safer, more energy-saving, more environmental-friendly quality products, focuses on research and development of "Domestic-made Substitutes the Imported" machines. We will try hard to break the similar machines dependent on imported in the past many years and make due contribution to prosperity of national industry, strive to make all subsidiaries attain a higher goal under the guidance of the "12th Five-Year-Plan".

After the opening ceremony, the guests visit the modern factory and office building of Cosmos Machinery (DongGuan manufacturing base), they were impressed deeply by the advanced fully automatic processing machines, tidy assembly and production lines, humanized office environment and spirit of employees. In the exhibition hall, the glorious history, the core product portfolios and honors are displayed vividly. Our achievements on innovation inspire the guests, they deeply feel that the milestones of Cosmos Machinery for over 20 years is the roadmap of innovation and development through continuous self exploration.

After the factory tour, luncheon of "Grand Opening of CML Complex and Celebration of 25th Anniversary of DongHua

Machinery Ltd." was hosted at the Holiday Inn DongGuan. General Manager Raymond LI of Cosmos Machinery delivered an enthusiastic speech in both Chinese and English during the lunch. While the guests were having meals, they enjoyed wonderful performances such as sand painting, Cantonese opera etc. The celebration ceremony finished with good wishes from the guests.



Celebration of 25th Anniversary of DongHua Machinery Ltd



M'SIA-PLAS 2011  
Date: Jul 21-24  
Venue: Putra World Trade Centre, Malaysia  
Booth: 2126 ~ 2135  
Machine: IMM



APPLAS 2011  
Date: Sep 6-9  
Venue: SNIEC, Shanghai  
Booth: W2-100  
Machine: IMM



Plast Eurasia Istanbul 2011  
Date: Oct 27-30  
Venue: TUYAP Fair, Turkey  
Machine: IMM



**DEKUMA**

**Lowest Unit Energy Consumption in the Industry**

**DEKUMA PE/PPR DUAL PIPE EXTRUSION LINE**

**Main characteristic and advantages: stable performance, perfect plasticizing properties, high output, space-saving, low energy consumption, convenient operation etc.**

**DEKUMA PE/PPR dual pipe extrusion line with maximum stable production speed of 2x20m/min consists:**

- ◆ Single screw extruder with SIEMENS PLC control system  
Type: DKM-EI70X33A high-speed and high-efficiency single screw extruder, motor power: 90kW, stable output ≥360kg/h
- ◆ DKM-EGM63S dual die head  
Optimum double helix structure, especially applying for the materials such as, PE/PP/PERT extruded in the condition of high-speed, low temperature and low pressure; dual flowing can be independently adjusted by the throttle; smooth extrusion and solved well the problem of high-speed extrusion against the die expansion; centre distance: 250mm; it can produce two different pipe sizes at the same time.
- ◆ DKM-EI30X25A co-extruder
- ◆ Independent dual stainless steel vacuum calibrating tank (9m)
- ◆ High-speed dual calibrator  
Depending on different material properties, DEKUMA engineers have developed a variety of different structures of high-speed calibrator, which can properly adapt to materials PE/PP/PERT etc.
- ◆ Independent power saving dual stainless steel cooling tank  
Automatic water temperature and level control system; integrated centre height adjustment mechanism. Main advantages: high efficiency, power saving and convenient operation.
- ◆ Independent high-speed dual haul off unit  
Each caterpillar with independent frequent synchronization driving, haul off speed: 0.5-30m/min, extremely in low-speed situation, smoothly working; maximum haul-off force can top to 8,000N.
- ◆ Independent dual planetary swarfless cutting unit  
Compact structure; independent PLC control system; cutting length setting freely; smooth and clean cutting profile; maximum cutting speed: 40m/min; cutting frequency: 9 times/min.
- ◆ Automatic tilting table



DKM-EGM63S dual die head



Independent dual stainless steel vacuum calibrating tank (9m)



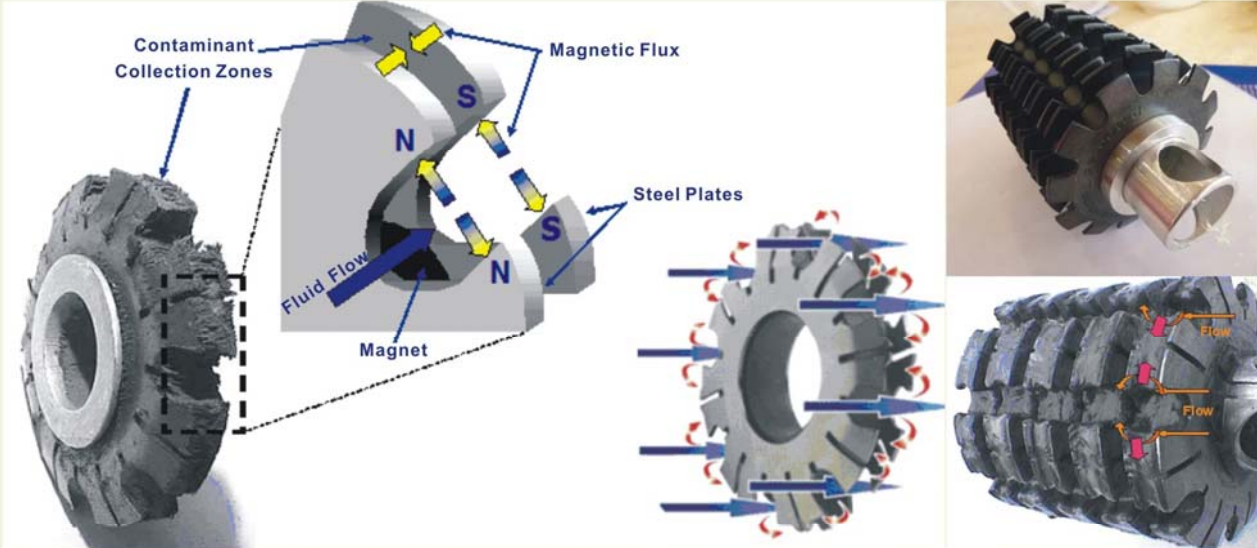
Independent high-speed dual haul off unit



Independent dual planetary swarfless cutting unit

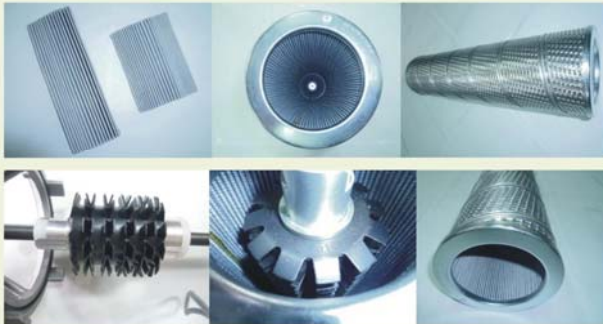
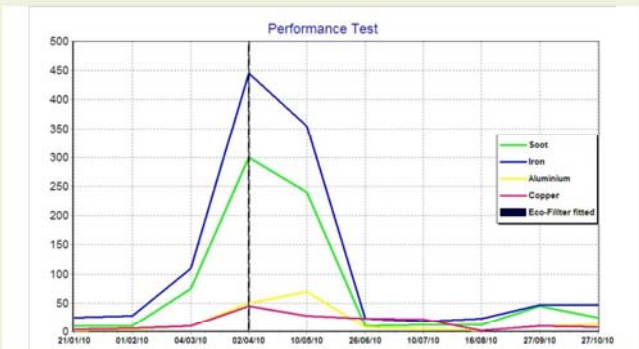


**CML Eco-friendly In-line Return Filter with Microfiber & Magnet Element**  
**Combine: Patent Design Magnetic Core + High Performance Absolute**  
**Filtration 10 μm Fiberglass element (Standard item for Se series machines)**



- ◆ Multi-flow channels and catchers design High density Magnetic core
- ◆ Fully blocked and capture ferrous particles less than 0.1 μm
- ◆ Negligible pressure drop and back pressure even the core at its full dirt capacity, due to the multi-channels design
- ◆ Ferrous contaminant holding capacity up to 200 gm
- ◆ Contaminant can be cleaned by workshop compressed air.

Performance : Before & after applying the Magnetic Core + Absolute Filter



- ◆ The element outside support tube with downward spiral passage design to keep the return flow smooth without turbulence
- ◆ Achieved oil cleanliness code NAS 8 or ISO 19/17/14 or better meeting the cleanliness code as specified by the Piston pump and Internal gear pump manufacturers

Comparison Items	Traditional By-Pass Type Oil Filter	CML Eco-friendly In-line Return Filter with Microfiber & Magnet Element
Effective Filtration Area	250 cm <sup>2</sup>	10,000 cm <sup>2</sup> (40 times of traditional by-pass oil filter)
Filtration Flow Rate	1-3 L/min, by-pass type	300L/min, full flow type and double filtration
Ferrous Contaminants	Not possible to be cleaned	Patent design ferrous contaminants particles retained in magnetic core can be cleaned, environmental friendly product
Dirt Holding Capacity	Paper element with limited capacity	10 μm Fiberglass element can last more than 12 months when work with magnetic core
Beta Ratio	Not applicable	Fiberglass element Beta Ratio >1000 gives 99.9% efficiency
Change of Filter Element	High risk in causing cross contamination	Filtration flow inside-out, contaminant is collected inside the U-tube type element itself
Filter Element Working Life Indicator	Not included	Provided



Flow : 300 L/min  
 Working pressure : 10 Bar  
 Inlet port : G 1-1/2 or SAE 1-1/2 Flange  
 By-pass setting : 1.75 Bar  
 Element : 6, 10, 16, 25 μm  
 Indicator : Visual or Electrical



## Report of the 12th China International Machine Tool Exhibition

The grand opening ceremony of 12th China International Machine Tool Exhibition was held in China International Exhibition Center, Beijing on April 11, 2011, it was sponsored and organized by China Machine Tool & Tool Builders' Association.

Cosmos NC Machinery Ltd. exhibited CNC (Computerized Numerical Control) Hydraulic Turret Punch Press "LX230B". This machine featured with complete punching, shaping and cutting sheet material in one process. It can generate workpiece directly from raw material, replace the traditional

separated punching and cutting processing operations, reduce at least 40% processing time, and save 6% to 10% material. It is a machine with robust structure, advanced technology, stable performance and high efficiency.

Its nature green color and neat appearance with attracted a mass of visitors. And, our sales engineers answered the visitors' questions on site one by one. This exhibition has further enhanced the brand publicity of Cosmos CNC Turret Punch in North China, and fostered our foothold in the market of North China.



## Sharing with INMR World Congress 2011

INMR World Congress 2011 was held at Seoul, Korea from April 17 to 20. It was the third time that Dekuma attended this conference as the professional insulator processing equipment manufacturer.

INMR World Congress is the world's leading technical exhibition and forum in the field of electrical insulators, surge arresters, bushings and related components as well as inspection equipment and laboratory testing services for power transmission and distribution applications.

Attendees can obtain the information covering following topics: product standard, purchasing, optimizing line design, improving reliability, reducing maintenance costs and incorporating into the network of latest technologies for overhead lines, substations and cable systems.

The event began with a special technical site - the 765 kV Shin-Ansung Substation visit, located just outside Seoul, which is Asian first ever UHV GIS substation and



one of the world's first applications of composite bushings at 800 kV. It also featured something one

cannot normally find at such an installation - a center devoted to education about UHV as well as a large technical exhibition area where most of the line components used on the KEPCO network were displayed, a very meaningful learning experience for all manufacturers.

Mr. Foster YI from Dekuma made the technical presentation of "Processing Technology of Manufacturing High Voltage Hollow Insulator" as the delegate of China insulator processing equipment supplier. This speech focused on trouble-shooting based on the common problems happening in the production of hollow insulator. Provided the perfect solution for the perfect insulator manufacturing and improved the equipment technology to solve the bottleneck, such as air bubbles on or in the shed, material leakage, etc. In addition, with the introduction of Dekuma background and products, patents of "Remediation Device" and "Floating Nozzle for Cold Runner", this was one big Dekuma image promotion to the attendees.

At the moment, Dekuma Rubber Injection Machines are widely used in the electric insulator market at home and abroad, also has invented and produced the largest clamping force machine in China. Dekuma is the Total Solution Provider to meet your need for Rubber Injection Processing Technology.

## Dongguan Lychee "Very beautiful"

On June 26, the Lychee Town of Dongguan City, Dalang ushered a group of distinguished guests - 84 consular officers and their families came from 15 different countries. They tasted fresh lychees in Dalang orchard and praised "Very beautiful".

This was a fellowship activity between the Consulate Generals in Guangdong and the Dongguan government. The Consul Generals of Singapore, Mexico, Pakistan, Ethiopia and Greece attended the event. Mr. JIANG Ling, Vice Mayor of Dongguan, banqueted them with warmth.

After tasted the lychees just picked, Mr. Constantin CAKIOUSSIS, the Consul General of Greece in Guangzhou, thumbed up and said "Very beautiful". He said these lychees are very delicious; it is quite different

from the ones in the market. And Mr. CAKIOUSSIS spoke highly to the environment in Dalang. He said this is the first time he comes to Dalang and he feels very happy.

Not only the delicious lychees impressed the consuls, the changes happened in Dongguan also surprised them. Mr. HONG QiQuan, the leader of the delegation and Consul General of Singapore, said Dongguan is changing every day and developing very fast. He wished Dongguan will go on the road of glory.



Mr. Paolo SALA from Consulate General of Italy and his daughter

## One of the bright spots at the Chinaplas 2011 Dekuma Extrusion Line

Chinaplas 2011 was held at China Import & Export Fair Pazhou Complex, Guangzhou from May 17 to 20. Dekuma displayed the Extrusion Line at Hall E2.1, the new techniques gathering show.

DKM-E80\*33A high output single screw extrusion line (extrusion output: 500kg/h) equipped with Nano InfraRed Heater which achieves an energy saving of 35% approx as comparing with traditional resistive type heater, which greatly reduces the operating cost for the customers.

The five layer co-extrusion PE-RT antioxidant ground heating pipe high speed extrusion line which has combined the Dekuma techniques in recent ten years, researched and developed by the Sino-German experts and engineers, officially accepted in April 2011. Producing the  $\Phi 16-\Phi 32$  (63) PE-RT antioxidant ground heating pipe with not less than 25m per minute based on the five layer co-extrusion technique, it has attained the world-class level.

The triple layer co-extrusion polypropylene high temperature

silent drainage pipe extrusion line also caught customers' attention, the new building



drainage pipe extrusion technique developed with the high density special molecular structure material to suit the market demand. The main material of the polypropylene high temperature silent drainage pipe is recyclable environment friendly polypropylene resin which greatly reduced the noise of building drainage pipe, with chemical and heat resistance performance.

The last bright spot, Dekuma cutting machine, cut the pipes onsite attracted lots of customers to our booth. "Dekuma extrusion line would be our first choice while the other domestic competitors cannot satisfy the quality requirement of high speed and efficiency we pursued" some visitors said that.

It's greatly increasing Dekuma's popularity and influence to the industry through the Chinaplas.

## Green Tips

Do you travel to work daily by car?  
(Based on an average of travelling to work 20 days per month)

Instead of driving a car to work, travelling by public transportation can help reduce 5,380g of CO<sub>2</sub> per trip.

Where have you been travelling this year?

Reduce travelling to other countries by direct flight, each passenger can reduce at least 553kg to 1,790kg of CO<sub>2</sub> per trip.

