

# IT'S A SERIOUS GAME

**EAS**  
MOULD & DIE CHANGE SYSTEMS



# THERE'S MONEY TO GAIN

**EAS**  
MOULD & DIE CHANGE SYSTEMS

## NEW SAFETY DEVICE FOR MAGNETIC CLAMPING SYSTEMS

Magnetic clamping systems are nowadays applied for quick clamping of moulds. The advantage of these systems is that the mould does not need to be standardized. When applied in the right way, these magnetic systems are safe and reliable. Safety is an important aspect with injection moulding machines. If for some reason the clamping force is no longer sufficient to hold the mould on to the machine platen, the machine is stopped by sensor signals. In order to prevent the mould from also falling into the machine with the risk of all kinds of damage, EAS has developed a simple mechanical safety device. This patented device actually prevents the mould from falling, which is an enormous safety enhancement. Again Ideas come from EAS. We have this safety device on display on our booth to demonstrate to you.



## NEW CD ROM WITH EAS PRODUCTS AND APPLICATIONS

A new and updated, user friendly CD Rom with all our products and their applications is available on our booth. This CD Rom not only shows the products but also features application pictures and videos for a better understanding. We thank all our customers for allowing us to use their applications for this purpose.



## NEW TOTAL SOLUTION DOCUMENTATION

If you want to receive our new complete solution documentation, please ask us or pick it up on our booth. We will be happy to inform you about more of the complete solutions we have successfully implemented or discuss your application.

[www.EASchangesystems.com](http://www.EASchangesystems.com)

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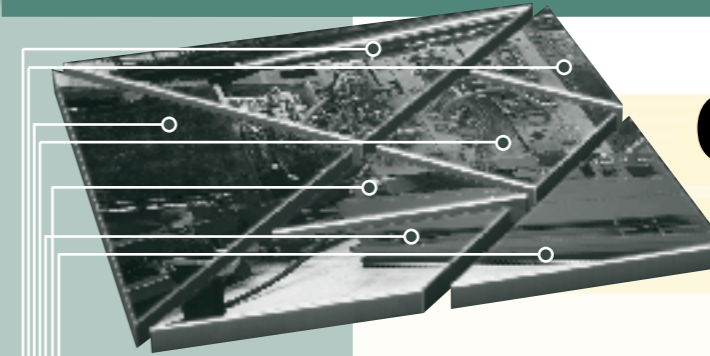
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# make THE CHANGE to EAS

Periodical about QMC and QDC changing systems 2004 - 14



### The seven EAS 'Tangram' components are:

- consulting and engineering
- clamping systems
- ejector couplers
- mono and multi coupler solutions
- mould & die handling solutions
- mould maintenance and mould storage solutions
- project co-ordination and installation.

## COMPLETE QMC & QDC SOLUTIONS FROM ONE SOURCE...

**One turnkey supplier, from concept to completion - that is what EAS can offer you. We invite you to come to our booth on the K 2004 show in Düsseldorf, Hall 10 Stand B39 and/or to our booth on the Euromold in Frankfurt, Hall 9.0 Stand D86. We want to show you how you can save time and money with our quick mould change (QMC) and quick die change (QDC) solutions.**

2004

**Hall 10 B 39**  
Dusseldorf, 20-27 October 2004

**Hall 9.0 D 86**  
Frankfurt, 1-4 December 2004



### Colofon

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New Page

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**EAS**  
MOULD & DIE CHANGE SYSTEMS

Like the old Chinese Tangram game, EAS can solve all your quick change problems with seven product-service items, from a simple mono coupler to a complete automated factory. Visit our booth, get a Tangram game and see for yourself how many solutions you and we can create with only seven standard components.

In this bulletin, in our new system catalogue and on our booth we will show you a few examples of our successful total solutions approach.

### New patented safety device for magnetic clamping

"Ideas come from EAS" is one of our slogans. With more and more permanent magnetic systems sold, the market is also demanding more safety when using these systems. Besides sensor technology to determine that the mould is clamped, we have developed and patented a simple mechanical safety device for magnetic clamping systems, which will prevent the mould from falling if for some reason the clamping force is no longer sufficient to hold the mould on to the machine platen. Another simple but very safe idea from EAS. See you at the K or Euromold!

*Harm Nijzink*

Harm Nijzink  
President

Complete QMC systems



### Complete solutions from one source on the K2004





# COMPLETE QMC SOLUTIONS FROM ONE SOURCE...



Dashboard Skoda made by Peguform



**MAXIMUM UTILIZATION OF THE MACHINES**  
Today's modern plastic injection manufacturing plants, even in low-wage countries, often use Just-In-Time principles for their production. This achieves low or virtually no inventory, production of smaller lots and multiple mould changes. To achieve maximum utilization of the injection moulding machine, one cannot lose a lot of time with unproductive mould changeover times.

The QMC systems from EAS reduce these unproductive times of your machine, resulting in not only a higher machine utilization and a lower manufacturing cost, but also enhance the safety of the operators on the machines.

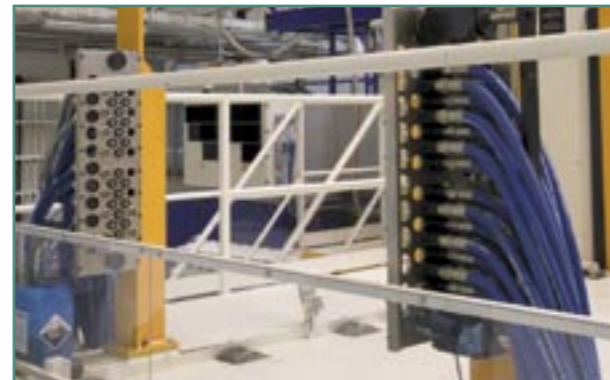
In previous issues of 'The Change' we already showed you how complete solutions by EAS resulted in drastic reduction of changeover time, from hours to only a few minutes, at well known manufacturers like Sulo, AEG Haushaltgeräte and others.

## TIME IS MONEY

As time is money the following examples will also show you how EAS, with its complete solutions, was able to reduce manufacturing costs for other well known international customers - customers that selected EAS because of our total concept approach.

EAS offers not only the most complete product line for QMC and QDC applications, but also does the consulting for you, comes up with the best concept, co-ordinates the project with you, the machine maker and the mould maker, and does the installation and first production run. All from one source.

Pre heating and cooling down.



Magnetic clamping system, powered rollers for fast mould movements and automatic multi couplers for leakproof connection and disconnection of the cooling, hydraulic and electrical connections in a few seconds.



Mould change table with powered rollers and automatic preheating and cooling multi couplers on a 2700 t Krauss Maffei injection moulding machine.



Mould change tables for 1000 t KM machines for fast and flexible production, equipped with powered rollers and multi couplers to preheat and cool the large moulds.



## ALL SOLUTIONS FOR PEGUFORM

For the well know global automotive supplier, Peguform, EAS did the concept solutions, the design and manufacturing, the co-ordination and the installation for several of their manufacturing plants. For one of their plants in the Czech Republic, where they produce automotive parts such as dashboards for Skoda and other companies, EAS equipped several large injection moulding machines with a fully automatic horizontal mould change system. This system consists of permanent magnetic clamping systems, safety latches, powered rollers, multi coupler solutions, mould change tables with powered rollers as well as pre-heating equipment on the mould change tables. Mould half locking devices on the moulds were also delivered to keep the mould halves locked together during movements on the table and during storage. With these solutions a mould change time of less then 3 minutes was achieved for moulds up to 40 t in weight.

## ALL SOLUTIONS FOR AN AUTOMOTIVE INDUSTRY

Another example of a total solution project was for an Italian automotive industry for a complete automated system for one of their factories in Spain. For two large 2700 t Italtech injection moulding machines, EAS designed, manufactured, co-ordinated and installed the following complete QMC system.

The injection moulding machines were equipped with a hydraulic clamping system and rollers for horizontal loading of the 50 t moulds, as well as with automatic multi coupler systems for a quick and leakproof connection of all utility connections.

A rail-guided mould change car carrying 2 moulds of max. 50 t was installed, as well as the rails for this car and the power supply. Nine mould storage systems are installed on the other side of the guide car rails, including an automatic preheating station to automatically preheat the mould that is going into the machine. This also saves hours by doing this outside the machine instead of when the mould is on the machine.

Each machine is equipped with self-locking adaptive hydraulic clamping and rollers for quick and easy horizontal loading and clamping of the moulds.



The rail-guided mould change car for two moulds of max 50 t. This car can be operated by means of a remote control unit and is equipped with steps for easy access to the top of the car, as well as safety bumpers.



On the other side of the rail guide car are 9 mould storage systems, on which the moulds are stored using the mould change car.



Each mould has standardized backplates and is equipped with standard automatic multi coupler plates on which water, hydraulic and electrical connections are gathered.



The storage systems also include a preheating station, which is shown here during the installation period.

- The ancient Chinese knew that the most complicated problems can be solved through inventive combinations.
- **2004** So come to the K 2004 in Dusseldorf, hall 10, stand B39 and we'll show you how you can save time and earn money during mould changes.

- **EUROMOLD** So come to the Euromold in Frankfurt, hall 9.0, stand D 86 and we'll show you how you can save time and earn money during mould changes.

Consulting and engineering

Project co-ordination and installation

Mould maintenance and mould storage solutions

Ejector couplers

Mono and multi coupler solutions

Clamping systems

Mould & die handling solutions

- Ideas come from EAS Discover our newly patented safety systems.
- Complete solutions come from one source: EAS
- TANGRAM has only winners Come play the game at EAS K 2004, hall 10, B39 Euromold, hall 09, D86
- Your ideal image can be realised with the seven components of EAS.