

Dates for your diary

PLASTEC WEST

January 29-31, 2008
Booth#3921
 Anaheim Convention Center
 Anaheim, CA.
www.plastecwest.com

MASSPLASTICS

March 26 & 27, 2008
Booth#702
 Best Western Royal Plaza & Trade Center
 150 Royal Plaza Drive
 Fitchburg, MA 01420
www.massplastics.com

MOLDMAKING EXPO 2008

April 23 & 24, 2008
Booth#302
 Rock Financial Showplace
 Novi, MI.
www.moldmakingexpo.com

PLASTICS ENCOUNTER AT ANTEC

May 4-8, 2008
Booth#813
 Midwest Airlines Center
 Milwaukee, WI.
www.plasticsencounter.com

EXPOPLAST

October 20 & 21, 2008
Booth#
 Palais des congrès de Montréal
 Montreal, Quebec CANADA
www.expoplast.org



DMS-Diemould Offers Accelerated Pin and Plate Ejection Solutions

DMS-Diemould, the UK's largest manufacturer and distributor of precision engineered standardised injection moulding tool components is offering its customers a range of accelerated technical solutions to increase the speed and effectiveness of mould tool ejection.

Accelerated ejectors, manufactured by CUMSA and distributed in the UK by DMS-Diemould, increase the stroke of selected ejector pins within a mould to a 2:1 ratio over normal ejection stroke. Each unit is applied to a single pin, thus helping the ejected part to clear the core. Each cavity of a multiple cavity mould can have an accelerated pin. The accelerated pin ejectors are easy to install due to their cylindrical shape and can even be retro-fitted into existing conventional tooling in order to increase productivity.

In addition, three standard sizes of plate accelerator, for strokes up to 34 mm and forces of 125 to 500 kg are also available from DMS-Diemould. These units provide a simple and effective method of advancing a second set of ejector plates in a plastic mould

tool, without the need for complicated mechanical components, so minimizing users' costs, and simplifying the automatic cycling on moulds with complicated undercuts and multiple ejectors. It is recommended that assemblies should always include multiples of two units in order to ensure a balanced movement.



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Solutions News

Helping all links in the injection moulding supply chain

SPRING 2008

PDM 2008 The Place to Be

PDM has established itself as one of the key events for designers and producers of plastic products across Europe – and in 2008 DMS-Diemould will once again be exhibiting our latest product range at Telford, between 15 – 17 April, 2008.

Today there is almost no industry sector in which moulded plastic components do not play a vital role: automotive, aerospace, medical and pharmaceutical, they all rely on the products of our industry – but the pressure to deliver innovative and cost competitive mouldings is increasing all the time.

Which is why an increasing number of companies are benefiting from DMS-Diemould's extensive range of over 12,000 productivity-boosting products and services, including our complete mould base and hot runner service, as well as ejector pins, sleeve ejectors, blade ejectors, leader pins, and much, much more.

So... come and see us on stand Q16, to discuss how our products can help your company boost productivity and increase its competitive edge.



Hot Runner Systems Developing Fast

David Odlin, DMS-Diemould MD, looks at recent advances and future trends in hot runner technology.

"Originating in America in the 1930s, hot runners were developed to meet three key objectives which are still relevant today: to increase automation, to avoid post-processing operations and to make the moulding process more economical. Since then, the technology has been constantly developed and improved to reach today's level of flexibility and engineering sophistication.

The move towards ever-smaller mouldings has driven developments in hot runner technology. To serve this market new, smaller and "skinnier" nozzles have been developed with body diameters as low as 9mm, allowing a bore of 10mm in the mould, making it possible, for example, to mould lipstick caps from the inside.

- Today's mouldmakers need to offer increased added value – and hot runners can help, offering a range of benefits including:
- Elimination of the runner,
- Cycle time reduction,
- Improved moulding efficiency,
- Improved part quality,
- Increased automation
- Design flexibility.

A hot runner system can even make economic sense in a single cavity mould if it eliminates the need for an operator to remove the sprue at every shot.

The growing interest in protecting the environment is also giving hot runner technology a boost, with the emphasis on eliminating re-grind and scrap. Another "green" benefit is the reduced energy consumption which results from delivering the hot plastic directly to the cavity and avoiding the need to plasticize a large dose to fill a cold runner system.

For more information ask your representative for a copy of our leaflet, "Complete Hot Runner Solutions" outlining all the hot runner solutions that are available from DMS-Diemould.





Toolmaker Boosts Productivity with Machined Bolsters from DMS-Diemould

A Sussex toolmaker is using specially machined bolsters from DMS-Diemould for high profile injection mould tools – including a recently supplied pre-toughened stainless steel bolster for a highly complicated jar cap mould for a household name brand of coffee.

“We always ensure that the high standards we set ourselves are matched by our suppliers, a factor I am pleased to say DMS-Diemould continues to fulfil. With this in mind we are planning to expand our future business with DMS-Diemould.”

Robin Rapley, MD,
Punctual Precision

Punctual Precision Tooling Ltd has evolved into a leading supplier of fast cycling, multi-cavity mould tools (up to 2.5 tonnes) to the international packaging, cosmetic and pharmaceutical industries. Today the Horsham-based company has formed long-standing working relationships with numerous ‘blue chip’ moulding companies in the UK, Europe, America and South Africa.

“We are committed to providing our customers with the highest quality products and services to enable them to maintain a world class level of performance and profitability,” states the company’s Managing Director Robin Rapley. With this in mind, the suppliers used by PPT have to conform to the highest standards of workmanship and professionalism, which is why the company repeatedly calls upon the services and products of DMS-Diemould.

“I had personal experience of DMS-Diemould before I joined PPT,” says Mr Rapley. “Initially we used the company for standard parts such as pillars and bushes, and the occasional hot runner system, but until recently we had not used them for specially machined bolsters.”

Although PPT explored various avenues of bolster supply, knowledge of the extensive CNC machining capability of DMS-Diemould, made the decision straightforward. “It sounds a bit ‘sugar-coated’ but it is nice to use a UK supplier,” says Mr Rapley. “We knew DMS-Diemould had the potential to meet our requirements and so far I have to say we are very pleased with the products supplied.”

DMS-Diemould has now supplied four sets of specially machined bolsters to PPT. One of the sets was used in a pre-toughened stainless steel tool that moulds jar caps for a very well known brand of coffee.

“Another set of machined bolsters was used for a technically complex prototype part, where quality and accuracy were absolutely paramount,” adds Mr Rapley. “Tolerances for the form in the inserts were in the order of $\pm 0.005\text{mm}$, so the bolster also had to be extremely accurate. However, having seen the capability at DMS-Diemould, I knew this wouldn’t present a problem.”

Mr Rapley insists that although mould tool quality is extremely important, in today’s marketplace it is seen as a “given”. This total quality issue is backed up by the fact that PPT still has mould tools in operation that were originally manufactured in the company’s first year of trading, 24 years ago.

“Delivery is equally crucial today,” he declares. “In this respect DMS-Diemould is excellent. They have not let us down. They know that delivering after their specific due date will potentially make us late and lose all credibility with our customers, and that is something we cannot afford to happen.”

Such attention to customer requirements has helped PPT grow into a 26-employee company that occupies a 12,000 sq ft headquarters from where it offers a complete service, from product and tool design, and mould manufacture through to mould trials and product evaluation.

DMS Hot Runners Provide Bite at Cobra

Hot runner systems supplied by DMS-Diemould to Portsmouth-based Cobra Tool & Die Ltd are providing a quality tooling solution on high profile projects in the pharmaceutical and electrical sectors.

“We have been using DMS from the day we formed Cobra Tool & Die in 1983,” states Trevor Cotsell. “Originally we wanted to support a fellow UK manufacturer, but the quality of the parts, the service we receive and the price we pay means we now use DMS almost exclusively. Today I would estimate 90% of our bolster and ancillary work is supplied by DMS. I’m aware that I could probably buy a die set cheaper from the Far East but it’s not an option that interests me. I would be concerned about quality, project control and lead-times.”

A recent project for a four-impression tool that produces eight different sizes of pharmaceutical pipe connectors required considerable input from DMS-Diemould. Cobra acquired a moving-half bolster that was completely machined along with a hot half with an in-line, four-drop hot runner system fully fitted and tested.

“There is no doubt that DMS does a good job for

us,” he continues. “Nine times out of 10 we undertake the tool design and simply order the die set, however, if it’s more complicated than that, say involving hot runners, then we have no hesitation in requesting input from DMS.”

Cobra Tool & Die specialises in the manufacture of injection mould tools up to 1 tonne capacity for customers within a two-hour radius of Portsmouth. The company also undertakes subcontract spark and wire erosion, as well as 3D CNC Milling, deploying a powerful 3D solid modelling system, which can quickly produce complex cutter paths that are fed directly to the CNC machines. A team of six highly skilled toolmakers then finishes the tooling to high standards, on time.

“The UK toolmaking market is tough at present but we are small and lean enough to weather the storm – in fact we have a number of good, ongoing contracts with a core of customers with whom we have developed relationships over a number of years. It’s all about being able to differentiate ourselves in the market, and using suppliers such as DMS is one way of doing so.”



DMS Announces Cooled Housing Lifter

DMS-Diemould is delighted to announce the new, cooled, PK Housing Lifter, from Cumsa. This unit is the most advanced of a series of three vertical lifters designed to improve undercut release of plastic mouldings, thus shortening injection cycles and increasing productivity.

The primary benefits provided by all three lifters are the elimination of the need for complicated angled machining for installation, together with a small footprint, reducing mould size, cost and complexity.

In operation, the lifters are connected to the ejector plates so that, when the mould starts to eject the plastic part, the insert is guided up the bushing at an angle, producing a lateral movement that releases the undercut

Each unit allows for machining, installation and movement perpendicular to the parting line and components can be machined to suit a range of shapes including curved profiles.

All three units are available ready assembled making installation a simple matter of machining circular holes.

