

Issue 1/2014

Issue 2/2014

Issue 3/2014



The internet as marketing instrument for mold and die makers3

Injection molding tools for large containers6 to 7

Cavity temperature control with recycled CO₂ requires no water..... 8

Current new developments in standard components for mould construction 9 to 11

New quality standard in valve gating for the production of high-quality injection-moulded parts 12 to 13

Highly productive system solution for the production of flat drippers..... 14

Mould for fibre composite parts16 to 17

Freeformer: Producing one-off parts and small-volume batches from 3D CAD files.....18 to 20

Intelligent toolholder management.....21

Efficiency classes for EDM filters required22 to 25

A flexible multi clamping vise with system26

Multifunctional pulse-cooling system for injection moulding27 to 28

Ejector coupling reduces set-up times.....28

Hot runner performance & reliability in one complete package..29

Getting maximum performance out of NC machines with minimum tool wear.....30 to 31

The milling machine for manual and CNC operation 32

New standardized hot runner manifold concept 33

Robust temperature sensors for the injection molding process 34

High-end injection moulding applications in two-component technology and automated manufacturing cell..... 35

HPC machining of aluminium, steel and titanium on one 5-axis horizontal machining center 36 to 37

New generation: Sprueless micro injection molding with flexible production options 38

High-end hot runner temperature control system offers new features 39

2C molded part production with higher shot weights 39

Innovative foaming technology produces light-weight, striation-free visible parts 40 to 41

Tool and coordinate measuring: Quickly, easily, and precisely 42

Highly complex, mechanical slider mold for lever..... 43

Injection moulding of thick-walled optical components..... 44

Innovative software for optimization of product design and mould making 45

New GF die-sinking EDM machines guarantee the highest precision 48 to 49

GF Machining Solutions: New name underscores Georg Fischer's position as unified company with three divisions..... 49

Advantages of aluminum in blow molds 50 to 52

HASCO supports international competitions for mould builders and injection moulders 53

METAV 2014 to focus on holistic production concepts 54

Order Card 55

Summary - Tables of Contents 2013..... 56 to 57

Advertising Companies 58

Personnel expenditure - the most important cost factor in the mold and die industry..... 3

Space-saving tunnel gate inserts 6

New development in the range of guide elements..... 7

New generation of powerful, precise laser marking workstations 8 to 9

Quick-change mould system for test series and small series in medical technology..... 10 to 11

Measuring software with fine tuned user interface and new customer requested tools..... 12

New representation in India..... 13

First 7-component mould to produce toothbrushes... 14 to 15

Double access..... 16

Fakuma 2014 - Production Technology for Plastics..... 17

Limit switches with new versions in a new design..... 18

Pioneers in building prototypes..... 20

DMC 2014 - Die & Mould China..... 21

Manufacturer of furniture fittings saves time and money with standard parts..... 22 to 23

Glass alternative: COC/COP side injection with valve gating..... 24

Direct clamping with a membrane..... 25

Tailor-made latch locks..... 26

Ultra-thin tool heating for injection molding reduces energy costs..... 28 to 29

Efficient, high-precision mouldmaking thanks to lasers 30 to 32

Mr. René Eisenring - New General Manager at HASCO America Inc. 33

Automated 5axis milling machine optimizes the production of complex shapes and large tools..... 34 to 35

Virtual molding saves costs in rubber injection molding..... 36 to 37

New innovative standard components increase productivity of injection moulds..... 38 to 39

Moulds for oil containers..... 40

Individualist among two-stage ejectors 41

Lous F1 Team invested in six new five axis milling centers with integrated automation 42 to 43

Integrated roughing module for 2D machining..... 44 to 45

Power-efficient mini plastics blow moulding machine 46 to 47

Absolute sealed linear encoder for measuring extreme lengths 48

New longitudinal measuring pin for non-contact cavity pressure measuring 49

Reliable and precisely-positioned movement of shut-off needles in hot runner system..... 50

Black Box - Zero maintenance pneumatic valve gate actuator 51

Active production control 52 to 54

Innovative 96-cavity high-speed injection mold for pen stroke..... 55

News..... 56 to 57

Advertising Companies 58

The long way from an inquiry to a completed and settled order 3

Extremely small compact clamp 6

Newly developed clamping system for electrodes 7

Hot runner nozzles made of molybdenum alloy improve wear resistance 8

Saving time and money with the right concept 10 to 12

Smart technology combination for temperature management of injection molding tools 14 to 15

Forming and overmolding of polyamid components in a single mold 16 to 17

Clamping fixture minimises set-up times and boosts productivity..... 18 to 19

Multisensor coordinate measuring technology 20

Successful concept of EuroMold in North America 21

Flexible automation system that grows with manufacturing needs 22 to 23

Efficient extras for clamping force blocks 24

New Push-Lok cooling system..... 25

Milled variety for glass art 26 to 28

DLC coated ejector pins with g6 tolerance..... 29

First-shot success in powder injection micro-molding application..... 30 to 31

New solutions from the clamping and manufacturing technology..... 32 to 33

Process for the production of soft-touch part..... 34

Gas injection technology optimizes mold proving 35

More convenience through intelligent macros 36 to 37

Metal laser melting 38 to 40

High-performance milling cutter cuts costs and machining times associated with large parts..... 42 to 44

Precision casting molds made by 3D printer 45

Rapid prototyping and rapid tooling 46 to 47

Hot runner system with miniature nozzles 48 to 49

3D printing of metal structures offers major potential for complex products and processes..... 50

Junction boxes and plug connectors for individual wiring 51

Extended range of use for nozzle series 51

Voltage module for injection molding machines 52

HASCO education event at the Technical School ITIS JF KENNEDY in Pordeone/Italy 53

Design example: Two stage ejector 54

Two different parts produced on a single tool..... 55

New cam concept for more efficiency..... 56

Order cards 57

Advertising companies 58

Issue 4/2014

Issue 5/2014

Issue 6/2014



Mold and die makers have a secure future 3

High-strength structural material of aluminum for series tool making 6 to 10

A good connection 11 to 14

Ejector pins with corner radii are also available with DLC-coating 15

Two new milling processing centres contribute to doubling productivity at BMW's tool manufacturing plant..... 16 to 20

Collapsible cores for the removal of undercuts..... 21

Efficient side gating 22 to 24

Angle measuring modules..... 25

Robot-supported custom flexible parts production..... 26 to 27

Complex machining of plates..... 28

Polygonal toolholder for HS cutting 29

3D printed injection molds help cut lead times and reduce costs considerably..... 30 to 31

New inductive absolute rotary encoders with hollow shaft..... 32

More efficiency for U.S. mould manufacturers..... 33

Zero-point clamping manually and pneumatically 34

AfriMold 2014 cooperates with leading African automobile show 35

The rich world of linear actuators..... 36

Zero point clamping in the micron range 37

Practice-proven new products for measuring on the machine tools..... 38 to 39

EDM solutions with high respect for details and homogenous surface quality 40 to 41

Precise grinding and polishing of cavities and corners 42 to 43

Die casting molds for valve plates of automatic gears..... 44 to 46

Quick change system shortens workpiece change times 47

Modern zero-point clamping systems accelerate the change of workpieces and devices..... 48 to 50

New development: T and cross ejectors..... 51

Current trends in the machine tool industry 52 to 55

HASCO TopSolid Library 56

Pre-locating unit with DLC-coating 57

Brand relaunch 57

Advertising companies..... 58

Order cards 59

Motivated and qualified mold and die makers will be indispensable 3

Aluminum mold for lemon squeezers..... 5 to 8

Micro-manifold technology for high-cavitation applications 10 to 11

EuroMold presents the concept for the 2014 edition of the leading trade fair..... 12

Ceramic mold inserts 14 to 15

3D printing technology integral to production of iconic RoboCop suit and helmet..... 16 to 17

Uninterrupted melt transfer with swiveling hot runner manifolds 18

More safety with automatic ejector set lock 19

Premium-quality plastic products with injection molding machines..... 20 to 21

Model and mold making: Getting ahead thanks to HSC high-performance milling..... 22 to 26

Flexible and economical clamping technology 27

Extremely small LSR micro injection molding tool for medical technology..... 28

Tapping in the tool and mould making industry 29

Software application optimizes plate machining 30 to 31

Injection molding and die stamping as an alternative to insert overmolding..... 32 to 34

New countersunk screw with Torx®..... 35

Application of technical springs in the mold and die making sector..... 36 to 38

AsiaMold 2014 in Guangzhou from September 15 to 17 39

hyperMILL®: Optimised strategies from drilling to high-performance cutting 40

5-axis high-performance manufacturing center..... 41

Cost-effective, innovative handling system..... 42

Software for perfect machining results and simple operation 43

From entry-machines to highly productive turnkey solutions 44 to 46

From toolmaker to leading manufacturer in the field of standard components..... 48 to 49

Quick-change mould system for test series and small series in medical technology 50 to 51

Faster to new products with aluminum tools..... 52 to 54

Vacuum brazing and laser sintering 55

Smart flow control technologies..... 56

Order cards 57

Advertising companies..... 58

EuroMold 2014 increases its international focus in order to reach global markets 3

Innovative new gating concept 6 to 8

FILLCONTROL now with data export function 9

High-precision sealing ring with fully balanced hot runner system injected from the inside..... 10 to 12

Taking proven SLIMLINE nozzle for engineered resins to the next level..... 14 to 15

3D prints 14-foot tall giant creature..... 16 to 17

Pharmaceutical technology combined with a 96-fold high-speed injection mold 18

New product range 'modular concept' 19

Guiding system with small diameters..... 19

Plastic components for specific medical application cases..... 20 to 21

New high-performance expansion toolholder with integrated anti pull-out locking mechanism 22

Expansion in aerospace sector 24

Tailor-made moulds create added value 25

Plastics technology made to measure for small and medium-size enterprises..... 26 to 28

START PLAST:
Innovation and budding enterprises at Plast 2015 to relaunch Italian industry 29

System solutions for efficient mold construction..... 30 to 31

New features of 5-axis machining center open application horizons in tool and mold making..... 32 to 34

Variable hotrunner solution enhances flexibility in mouldmaking 35

Compact 5-axis machining center with adapted robot system..... 36 to 37

Lost-foam casting and metal injection moulding using copper alloys 39

Description of a 2-cavity injection mold for the maintenance flap of a washing machine.... 40 to 41

Deep-hole drilling centers to support moldmakers..... 42-43

Devices for surface finishing 44

AHP Merkle goes CHINA..... 45



EuroMold Preliminary Fair Report 46 to 57

Advertising Companies 58