



ARBURG PACKAGING

Machine concept for maximum production efficiency

BERTRAM STERN

SALES MANAGER PACKAGING

Technology Days 2019

Lossburg, 13th – 16th March 2019

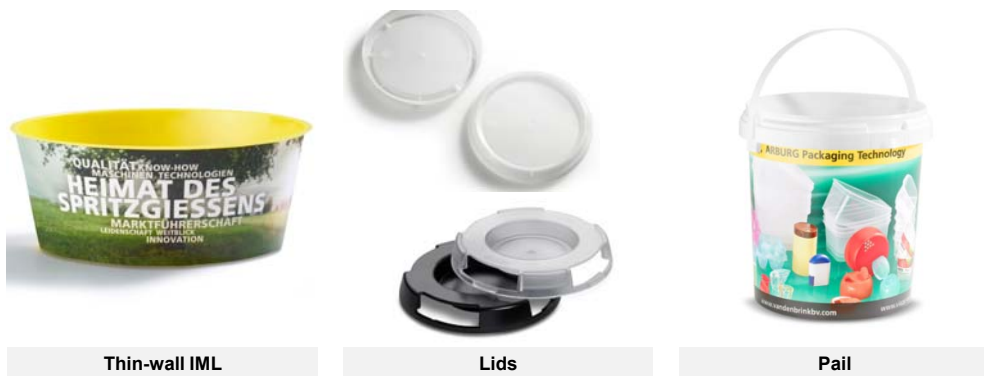
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PACKAGING IS
INDIVIDUAL



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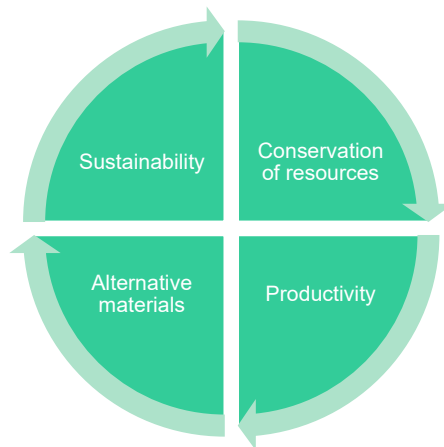
PACKAGING - THIN-WALL



PACKAGING – CLOSURES



WIDE RANGE OF REQUIREMENTS



THE REQUIREMENTS DEFINE THE MACHINE TECHNOLOGY

Prerequisite:

Comprehensive knowledge of

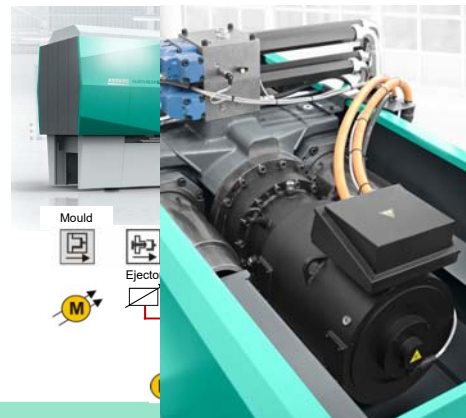
- Market and customer requirements
- Machine, mould and process engineering
- Integration of peripheral devices and automation



ALLROUNDER FOR PACKAGING APPLICATIONS

HYBRID ALLROUNDER IN PACKAGING VERSION

- Hybrid or fully electric drive concept
 - Dynamic injection flow rate
- Servo-electric toggle system
 - Fast and precise mould movements
- Barrier screw and servo-electric dosage drive
 - High plasticising flow rate



HYBRID ALLROUNDER IN PACKAGING VERSION

Dynamic injection	<ul style="list-style-type: none">• Servo-electric dosage drives• Position-regulated screw• Barrier screw
Adapted machine concept	<ul style="list-style-type: none">• FEM-optimised mounting platens• Reinforced machine base• Intuitive machine control and assistance packages
Fast movements	<ul style="list-style-type: none">• Servo-electric toggle-type clamping unit• Symmetrical force application• Spindle with servo-electric direct drive

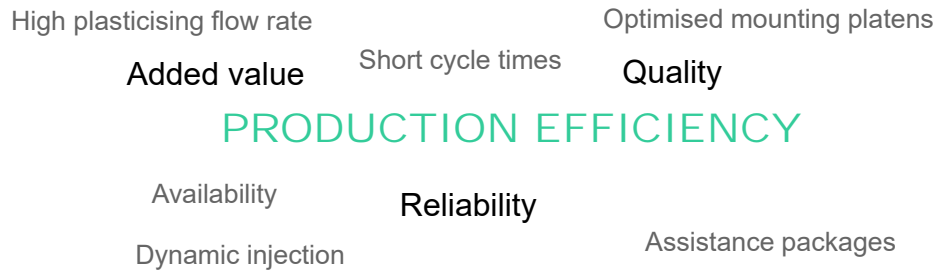
FOCUS – MOST COST-EFFECTIVE SOLUTION

- Interdisciplinary team
- Close cooperation with mould manufacturers and automation specialists
- Comprehensive support for our customers from planning to series production
- Fast worldwide support



YOUR BENEFITS

YOUR BENEFITS – PRODUCTION EFFICIENCY



PRODUCTION EFFICIENCY – WITH HIGH-TECH

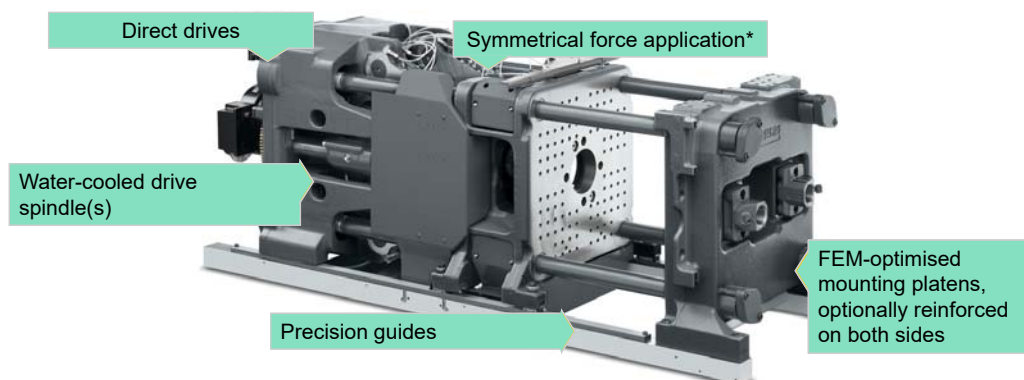
Dynamic injection	<ul style="list-style-type: none">• Short filling times• Consistently high parts quality
Adapted machine concept	<ul style="list-style-type: none">• Minimisation of faulty parts• High machine availability
Fast movements	<ul style="list-style-type: none">• Save cycle time• Fast ROI

HIGH PERFORMANCE AND DYNAMICS

- Adapted drive technology
 - High circumferential speeds
 - High torques
- High acceleration and fast deceleration for short filling times
- Unrivalled precision – position-regulated screw combined with hydraulic accumulator technology



ADAPTED MACHINE CONCEPT



* Through five-point toggle system

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PERMANENT PROCESS RELIABILITY



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APPLICATIONS AND TECHNOLOGIES

ESPRESSO CAPSULE WITH BARRIER TECHNOLOGY

ALLROUNDER 720 A 3200 - 800 / 70

- 2-component injection moulding
- Simultaneous precise movements
- Servo-electric drives for simultaneous injection
- Second vertical injection unit on fixed mounting platen
- Barrier technology



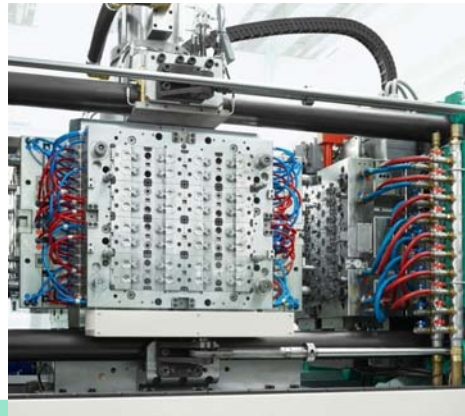
Cavities	32
Cycle time	5.5 [s]
Part weight	1.3 [g]
Material	PP-EVOH

TREND – USE OF INNOVATIVE PROCESSES

- Barrier technology for increased shelf life
- No secondary packaging necessary
- Decoration and functionality all in one (p. ex. IML)
- Production of plastics packaging – injection moulding generally resource-saving

TREND – USE OF INNOVATIVE PROCESSES

- Twice the number of cavities – with the same machine size
- Filling, cooling and removal – all simultaneously
- Inserting, assembling and testing – neutral effect of integration on cycle time
- Tailor-made complete solution from ARBURG



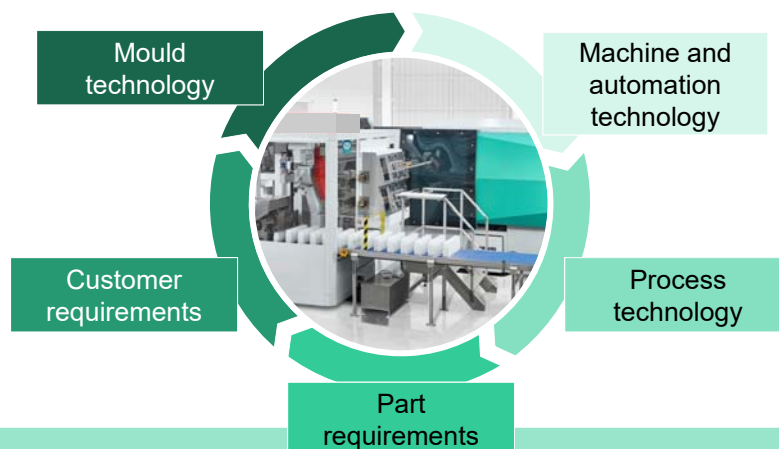
CUBE MOULD SYSTEMS – OF INTEREST TO EVERY SECTOR OF INDUSTRY

- Increasing productivity by 100% – reducing unit costs
- Control system and assistance packages – optimising processes in detail
- Predictive maintenance – reliable production



SUMMARY AND OUTLOOK

INTERDISCIPLINARY EXPERTISE AND SYNERGY



INTERDISCIPLINARY EXPERTISE AND SYNERGY

Modular machine concept
Adaptable to requirements

Packaging version

- For flow path / wall thickness 200 - 400
- For high-speed applications < 8 s

Reliability Condition monitoring and ARBURG Remote Service



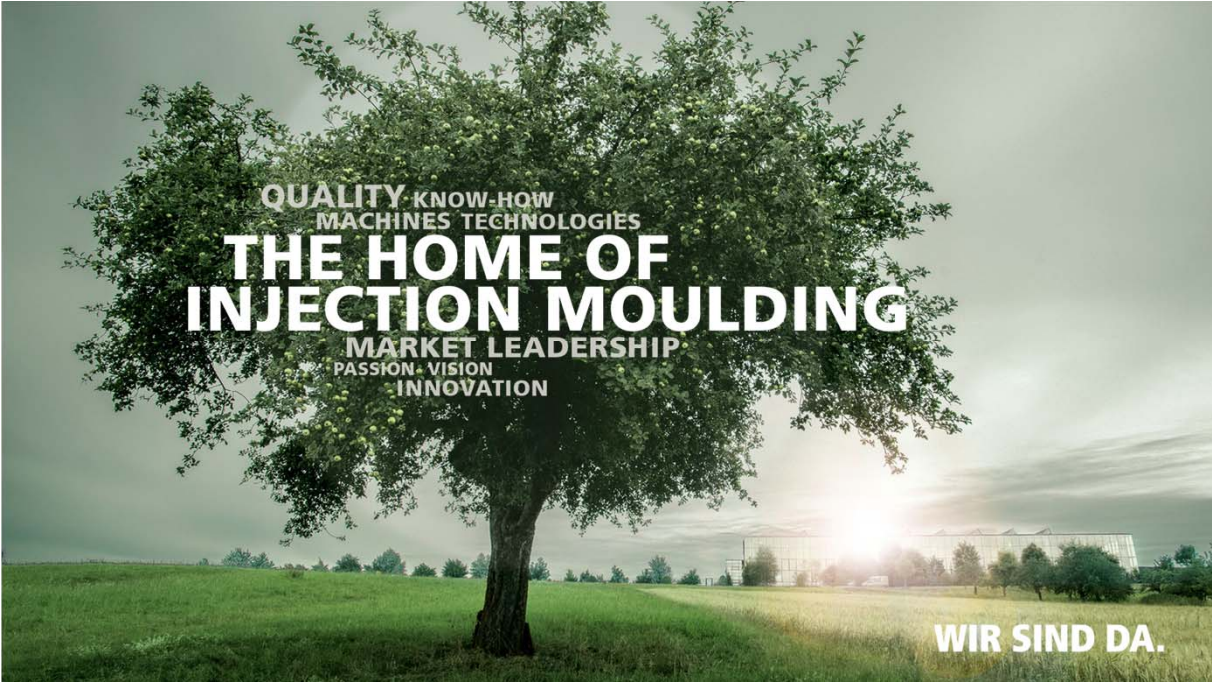
Intuitive control concept

- Proven machine control system
- Practice-oriented assistance packages

Drive systems Excellent injection dynamics and minimal filling times

ADDED VALUE WITH CIRCULAR ECONOMY





QUALITY KNOW-HOW
MACHINES TECHNOLOGIES
**THE HOME OF
INJECTION MOULDING**
MARKET LEADERSHIP
PASSION VISION
INNOVATION

WIR SIND DA.