HAIDLMAIR

COMPANY PRESENTATION

The Company

Technical Sales

Technologies

Product Overview

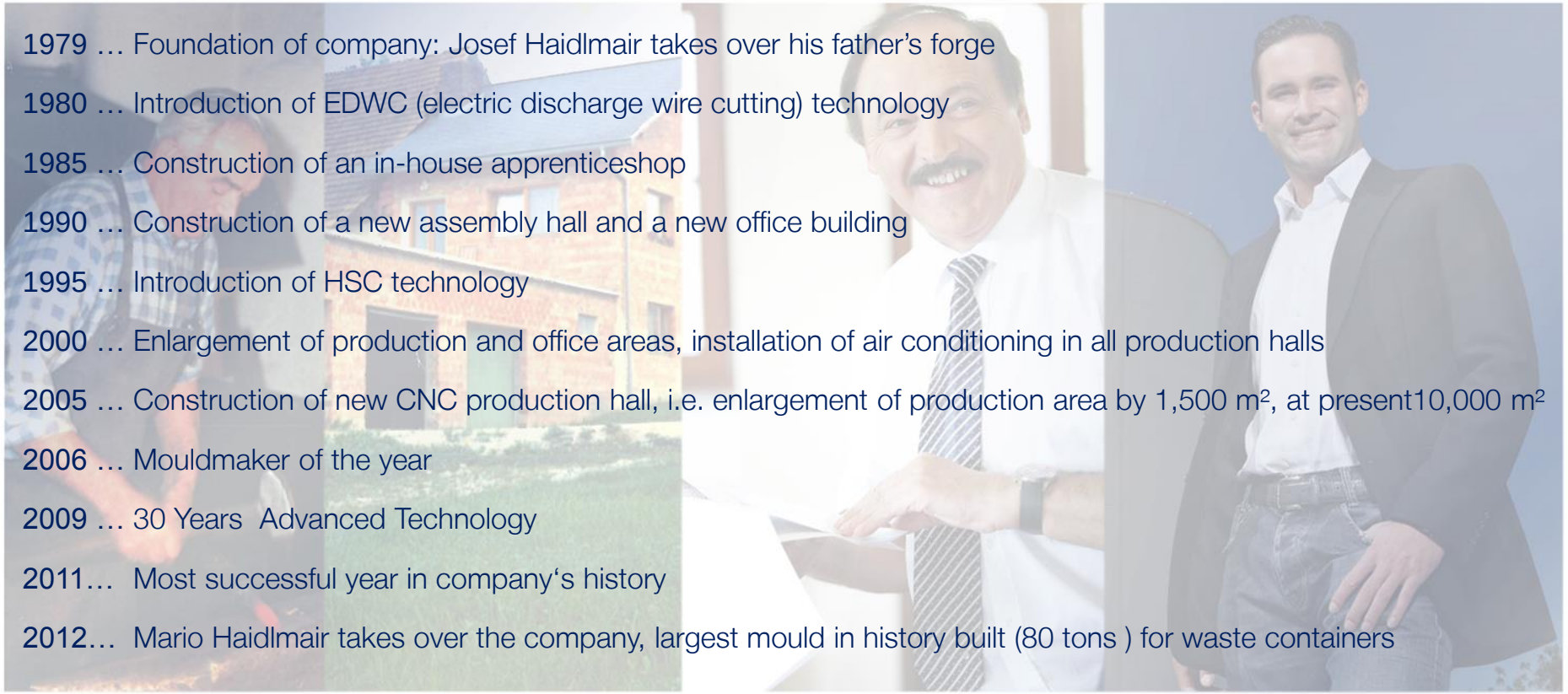
Production

Haidlmair group

HAIDLMAIR

THE COMPANY

THE COMPANY:
HISTORY



1979 … Foundation of company: Josef Haidlmair takes over his father's forge

1980 … Introduction of EDWC (electric discharge wire cutting) technology

1985 … Construction of an in-house apprenticeshop

1990 … Construction of a new assembly hall and a new office building

1995 … Introduction of HSC technology

2000 … Enlargement of production and office areas, installation of air conditioning in all production halls

2005 … Construction of new CNC production hall, i.e. enlargement of production area by 1,500 m^2, at present10,000 m^2

2006 … Mouldmaker of the year

2009 … 30 Years Advanced Technology

2011… Most successful year in company's history

2012… Mario Haidlmair takes over the company, largest mould in history built (80 tons) for waste containers

THE COMPANY:
CORPORATE FIGURES

+ **Workforce:**

  over 200 at the headquarter in Nußbach (of which 28 apprentices), about 500 in the whole HAIDLMAIR group

+ **Production area:** approx. 10.000 m²

+ **Turnover:** € 38 Mio. 2011/2012

+ **Export share:** 90%

CEO:

Mario Haidlmair

Technical Manager:

Willibald Windhager

Authorised Signatory:

Günther Hitzl

Head of Purchase & Logistics:

Andreas Rosenegger

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TECHNICAL SALES

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THE COMPANY:
SALES TEAM

Sales Manager:
Roland Gradauer

Strategic Development/Customer Service:
Gerhard Weiermeier

Distribution/Customer Service:
Günther Auer

Distribution/Customer Service:
Peter Zott

Distribution/Customer Service:
Michael Wöckl

Distribution/Customer Service:
Andreas Heim

Distribution/Customer Service:
Dietrich Hunold

Distribution/Customer Service:
Martin Thoma

Distribution/Customer Service:
Kurt Blechner

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THE COMPANY:
PROJECT MANAGER

Project Manager:

Johann Schimpelsberger

Project Manager:

Josef Karlhuber

Project Manager:

Christian Inreiter

Project Manager:

Franz Pramhas

Project Manager:

Werner Bohaty

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TECHNICAL SALES:
DISTRIBUTION AREAS

HAIDLMAIR

PRODUCTION

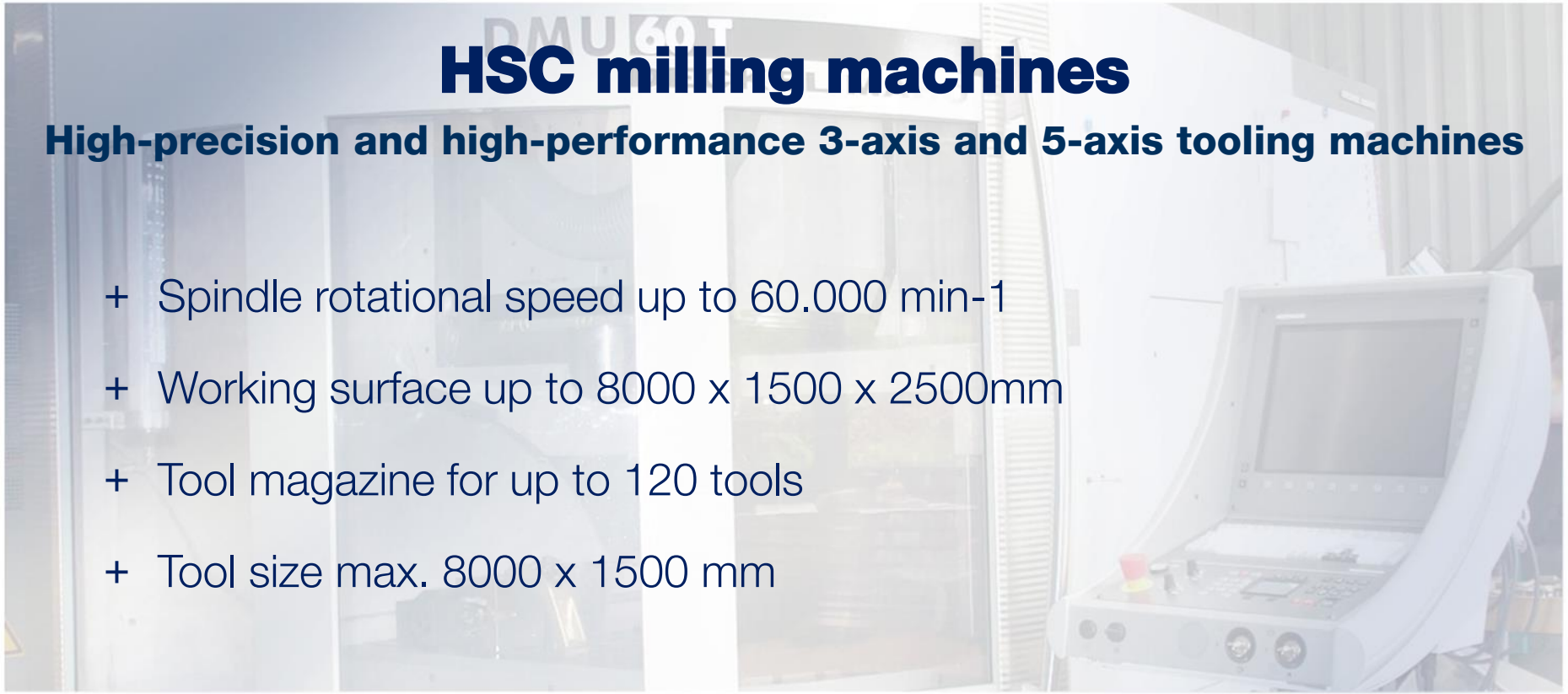
IXION Deep hole boring machines

- \+ Table load 20 t
- \+ Table dimensions 2200 mm x 2200 mm
- \+ Boring depth, max. 2100 mm
- \+ Rotational speed range 300-6000 min^{-1}

- \+ Table load 5 t
- \+ Table dimensions 1500 x 1000 mm
- \+ Boring depth, max. 1000 mm
- \+ Rot. speed range 300-6000 min^{-1}

HSC milling machines

High-precision and high-performance 3-axis and 5-axis tooling machines



+ Spindle rotational speed up to 60.000 min-1
+ Working surface up to 8000 x 1500 x 2500mm
+ Tool magazine for up to 120 tools
+ Tool size max. 8000 x 1500 mm

CNC machines

+ Spindle rotational speed up to 12.000 min-1
+ Tool magazine for up to 64 tools
+ Tool size max. 1200 x 600 x 600 mm

Duties and responsibilities of the optimization department:

+ Assistance of the assembly (adjustments, modifications) without disturbing the main production
+ Insertion of client wishes after the sampling of the moulds
+ Manufacturing of small parts and minor prefabrications

HSC machines

+ Spindle rotational speed up to 12.000 min-1
+ Tool size max. 700 x 600 x 400 mm

Engraving milling machine

Electric discharge machining (EDM) machines

+ Makino 32
+ Makino 43
+ Makino 85
+ Makino 65s
+ OPS Ingersoll Eagle 1200

+ Traverse path up to 1000 x 1500 x 650 mm
+ Clamping area: 1770 x 1270 x 680 mm

EDWC machines type *Fanuc*

- Alpha 0iC
- Alpha 1C
- Alpha 1iC
- W2

– Cutting area up to 520 x 370 x 300 mm

– Clamping area: max. 700 x 550 x 300 mm

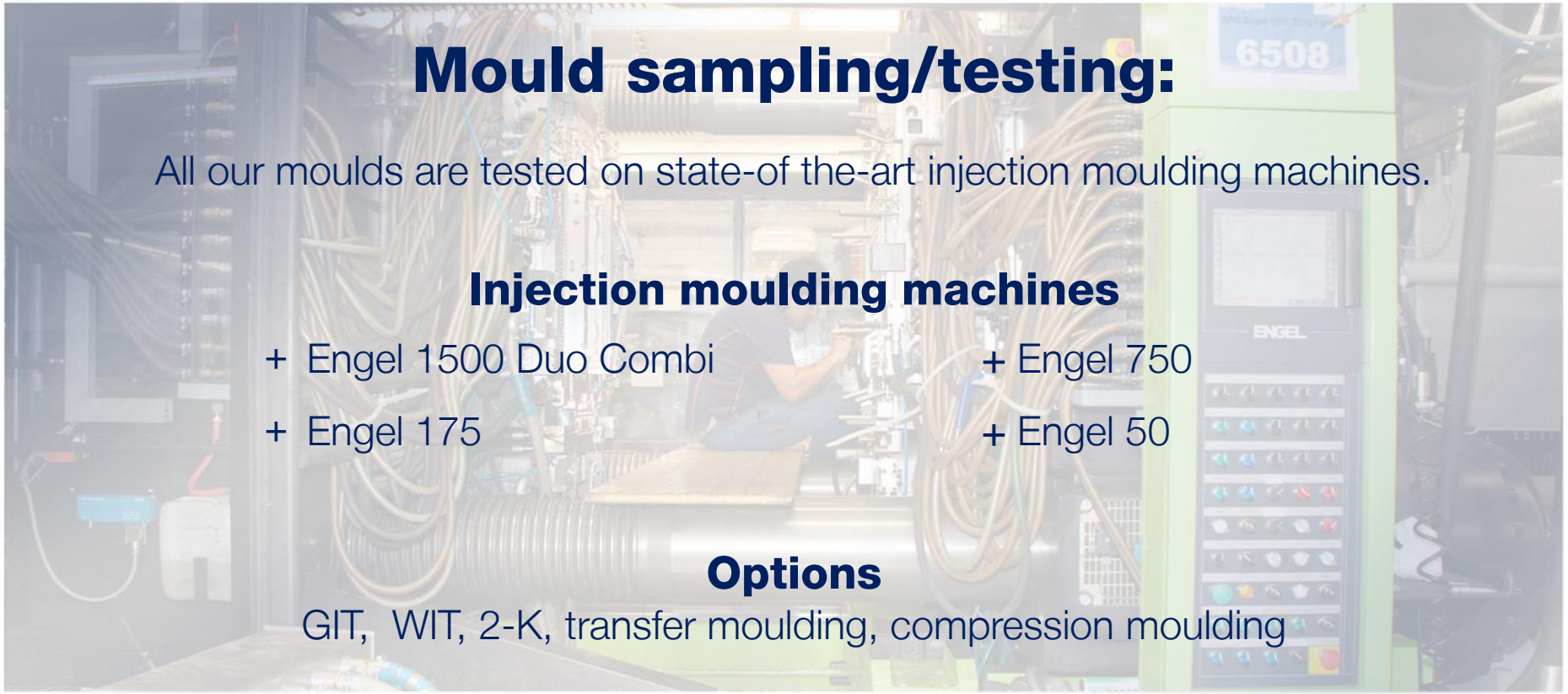
19 Assembly places

The last step in the production process:

Competent employees assemble the tools and moulds with utmost care and state-of-the-art equipment

6 Cranes:

- \+ 2 x 5 t
- \+ 10 t
- \+ 32 t
- \+ 20 t
- \+ 16 t



Mould sampling/testing:

All our moulds are tested on state-of the-art injection moulding machines.

Injection moulding machines

+ Engel 1500 Duo Combi
+ Engel 750
+ Engel 175
+ Engel 50

Options

GIT, WIT, 2-K, transfer moulding, compression moulding

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PRODUCTION:
QUALITY ASSURANCE

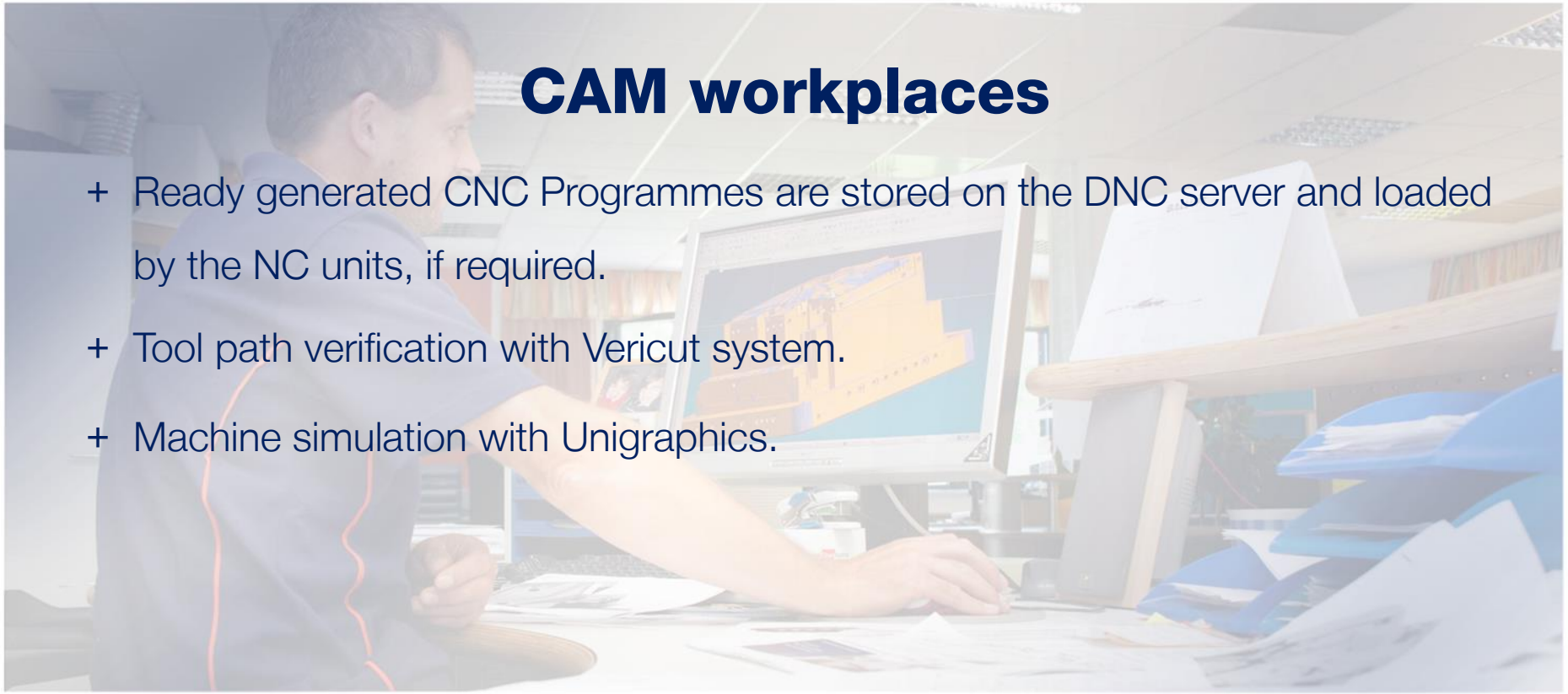
Its fields of activities are open to the whole company group and first of all involve:

+ Introduction of a quality management system
+ Quality planning
+ Testing and measuring moulds/tools and products
  (Wall thickness measurement, Stress test, Drop test, Life test)
+ Claim management
+ Customer service and surveys
+ Suppliers development
+ Quality parameter evaluation
+ Apprentice training in quality assurance

CAD workplaces

High-performance workstations and 3D solid construction combined with know-how from various projects provide for a technically perfect product.

+ Systems: Siemens NX, PTC Pro/Engineer Wildfire
+ Interfaces: STEP, IGES etc.



CAM workplaces

+ Ready generated CNC Programmes are stored on the DNC server and loaded by the NC units, if required.
+ Tool path verification with Vericut system.
+ Machine simulation with Unigraphics.

Ideas become tangible results

Applied for the creation of functional and robust prototypes and for time-saving testing procedures of construction and function:

Data formats:
ProE, Ugi, Catia V4-V5, Stl, Iges, Parasolid

+ Moulded part size: max. 203 x 203 x 305 mm
+ Quality grade (layer thickness): 0,25 / 0,33 mm
+ Wall thickness: min. 1,0 mm

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TECHNOLOGIES

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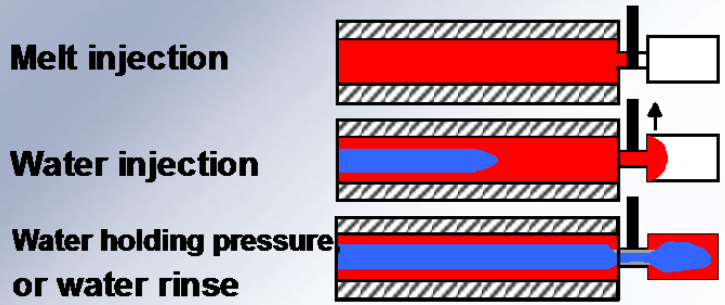
TECHNOLOGIES:
GASMELT

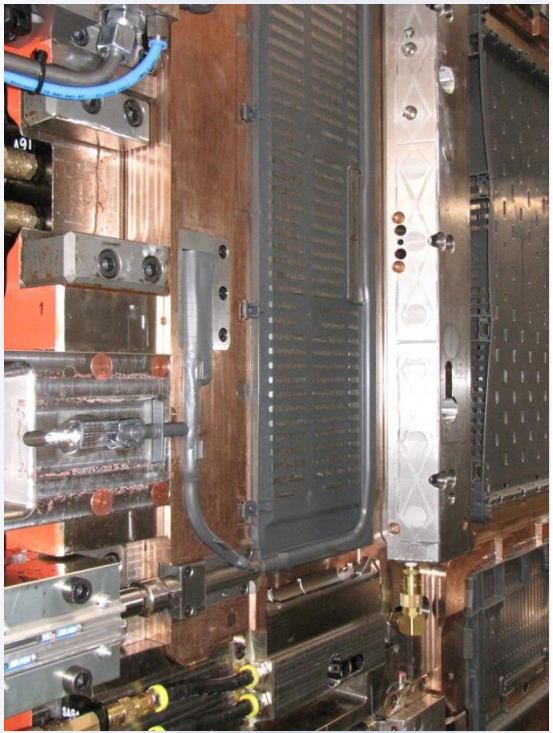
+ Using this technology, hollows can be created exactly, where they are required.

  The benefit is that time-consuming ribbing can be avoided, which results in reduced weight and an increased strength of the component.

+ In addition, this technology can be applied on various areas of the moulded part.

Side cavity method





Advantages over the gas melt technology:

+ Cycle time reduction by up to 75%
+ More even wall thickness distribution
+ Less remaining material accumulation in the moulded article

TECHNOLOGIES:
IN MOULD-LABELING

+ This technology allows for a richer variety in product design. The product becomes a design object.

+ Thin, scratchproof foils, which are decorated with individual motives (including 3D effects as well) are laid into the mould and during the moulding process they are joined with the back-moulded plastic material to yield permanent, not detachable bonding.

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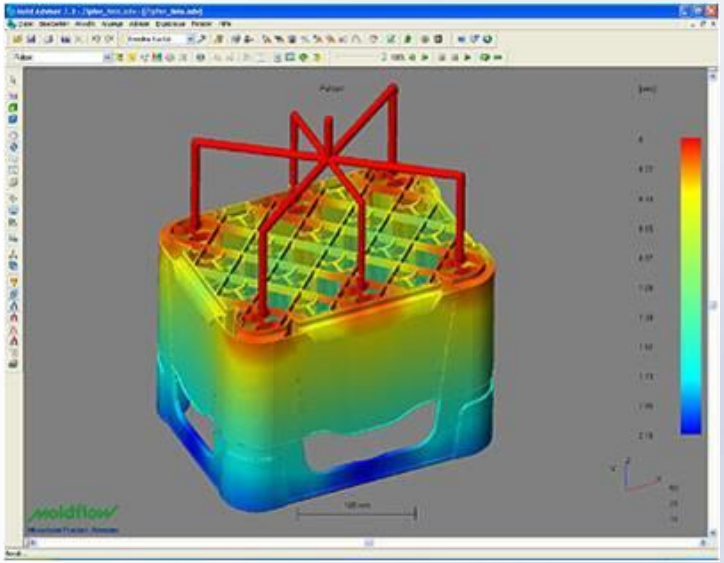
TECHNOLOGIES:
MOLDFLOW

The Moldflow software enables the detailed calculation of injection processes already in the early phases of product and mould development to yield optimum production processes.

Accordingly, time and costs can be minimised and saved for possible additional changes to be made on the mould.



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PRODUCTS

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PRODUCTS:
INJECTION MOULDING

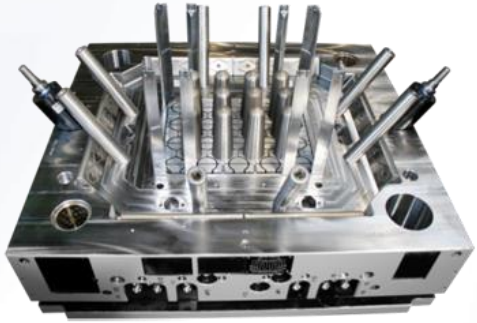
Beverage crates with:

Soft handle /

2-K injection moulding:

- Inserts
- Overmoulding tool

- Classical 2-K injection moulding method



In-Mould Labelling

Central handle

with gas/lamella/soft handle

Multi-colour injection moulding

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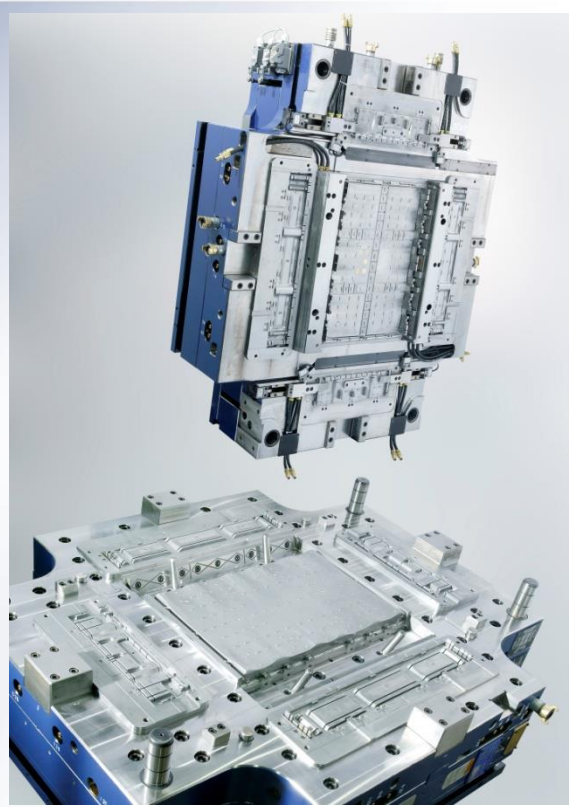
PRODUCTS:
INJECTION MOULDING



Collapsible boxes

One-way collapsible boxes

Load capacity of up to 3500N.
Dead weight: minimum 500g.

Returnable collapsible boxes

Robust and handy collapsible boxes for endless applications. *Special applications with Watermelt articles:* reduced weight and increased rigidity at the same time.

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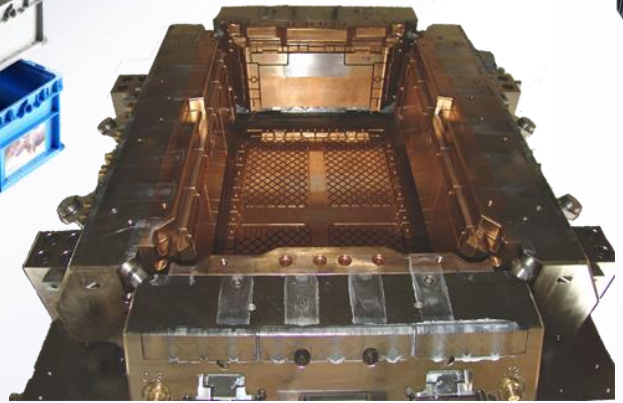
PRODUCTS:
INJECTION MOULDING



Rigid boxes

High-quality, closed or open plastic boxes for various applications, e.g. for the food industry, catering trade, storage and rack/shelf systems, shipping business (postal services, etc.).

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PRODUCTS:
INJECTION MOULDING

Pallets and

Pallet Boxes

light-weight, robust pallets for industrial applications, pallet boxes for storage purposes, collapsible pallet boxes.

Sized from

800 x 1200 mm to

1200 x 1200 mm

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PRODUCTS: INJECTION MOULDING

Automotive Parts

Plastic parts for vehicles, used outside

Plastic parts vehicles, equipment inside

Carpet/textile back-injected parts

Functional plastic parts

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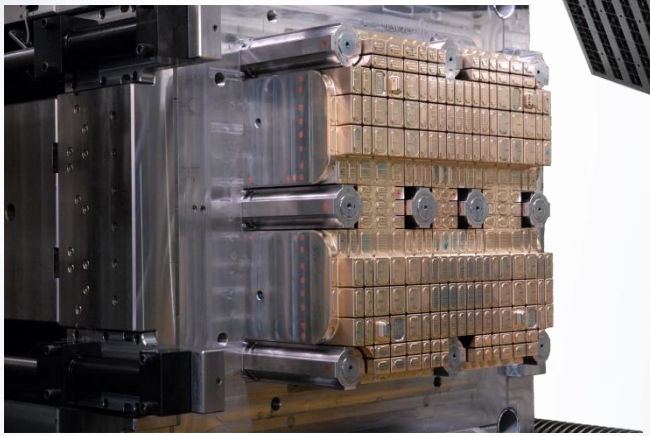
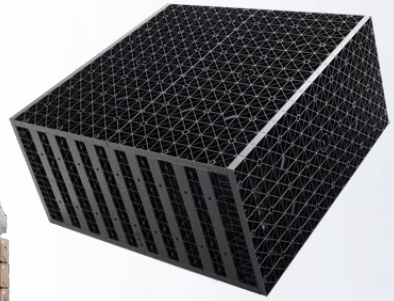
PRODUCTS:
INJECTION MOULDING





Technical parts

rear cover of TV sets, infiltration units, plastic shopping trolleys

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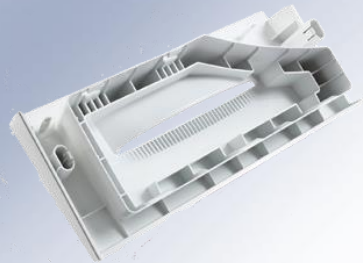
PRODUCTS:
INJECTION MOULDING

Household appliances



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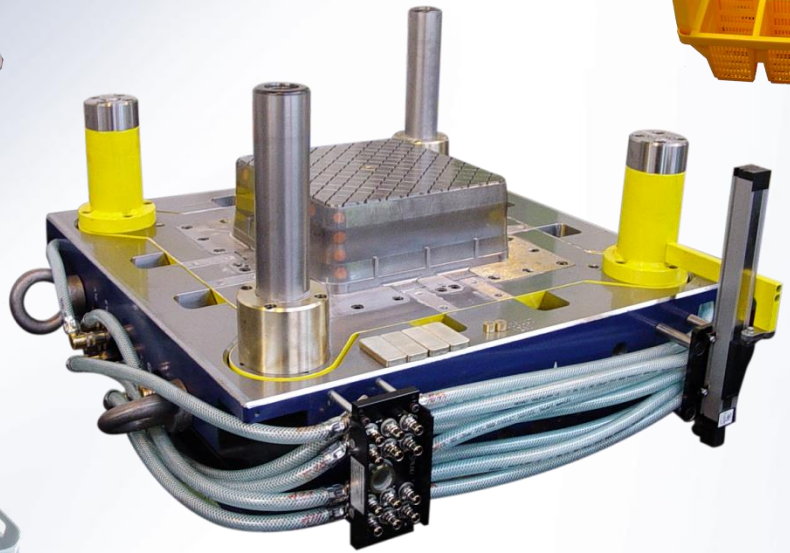
PRODUCTS:
INJECTION MOULDING



Household appliances

cutlery baskets

glas baskets

plate baskets

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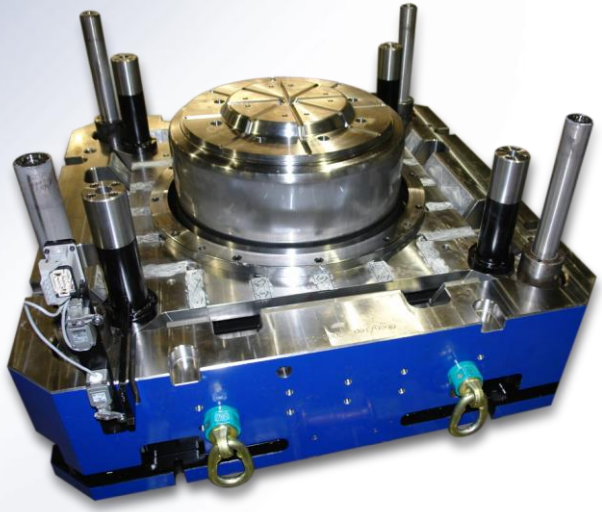
PRODUCTS:
INJECTION MOULDING

Diameter: 160mm

Diameter: 200mm



Sockets

Diameter: 600mm

Diameter: 500mm

Our special construction (4 splits-system) enables lower mould-sizes

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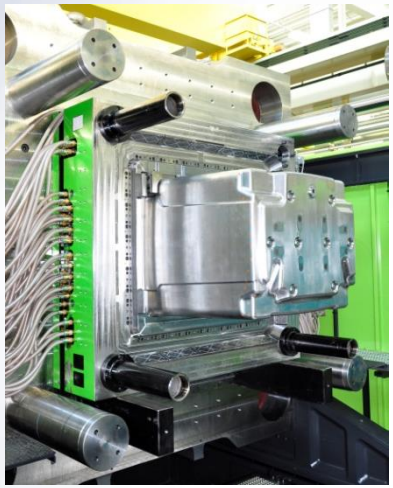
PRODUCTS:
INJECTION MOULDING



Waste Containers

Our special construction enables up to 40% lower mould-sizes

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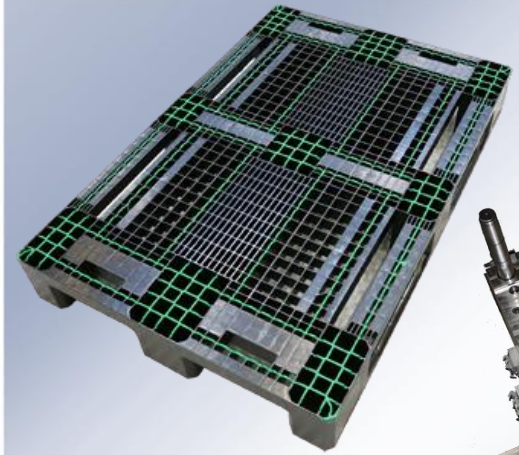
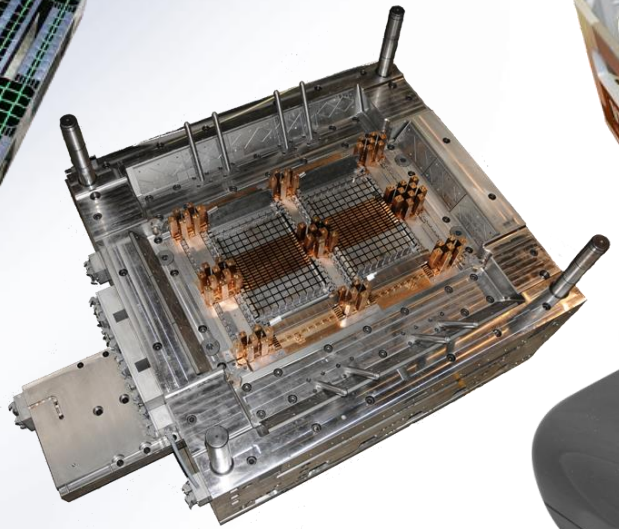
PRODUCTS:
INJECTION MOULDING





3 Components
technique for paletts

2 and 3 Components
technique
for soap dispenser and
paper dispenser

2 and 3 Components
Technique for
beverage boxes

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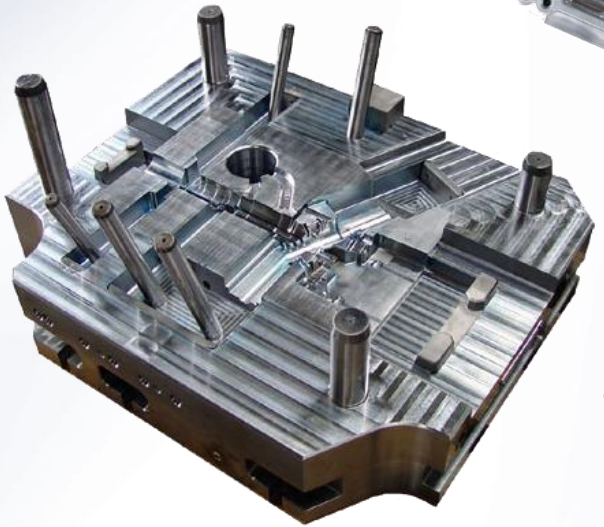
PRODUCTS:
DIE CAST ARTICLES



High-quality
diecast articles
for the automotive industry

like steering wheels,
motor casing elements,
components for seat belt
tensioning systems, etc.

HAIDLMAIR

PRODUCTS AND HONOURS

Awards and honours are **impressive indications** of our company's extraordinary quality and performance:

+ OÖ. Innovationspreis 2005
+ 2. Platz OÖ. Innovationspreis 2009
+ Pegasus in Gold 2005
+ Sonderpreis für Unternehmenskultur, Pegasus 2009
+ OÖ. Gesundheitspreis 2006
+ Werkzeugbau des Jahres 2006

However, we will not rest on our laurels, but will **keep on working on decisive improvements** within all company units.

HAIDLMAIR
group

HAIDLMAIR

mould&matic

Founded in 1960, since 2004 part of the HAIDLMAIR group.

Employees:

86 employees work at the location in Micheldorf, 65 employees in the Czech Republic.

Field of activities:

Specialised in the development and manufacture of thermoforming moulds, handling equipment, injection moulds for thin-wall packaging and medical technology, process optimisation for thermoforming machines.

HAIDLMAIR

EMO

Since 1996 incorporated in the HAIDLMAIR group.

Employees:

31 employees work at the location in Micheldorf.

Field of activities:

EMO is specialised in tool production, in particular of sheet dies for film and sheet extrusion.

HAIDLMAIR

HSC

The HAIDLMAIR Schlierbach Company was incorporated into the HAIDLMAIR group in 2002.

Employees:

15 employees are employed at the location in Schlierbach/Upper Austria.

Field of activities:

Single piece or serial manufacturing of punching tools, bending tools, thermoforming moulds and customised special components for the motor sport

HAIDLMAIR

htm

HTM Zrt. was founded in 1992. It was incorporated into the HAIDLMAIR group in 1993.

Employees:

Approx. 100 employees work at the location in Szekesfehervar/ Stuhlweißenburg in Hungary.

Field of activities:

Manufacturer of mould superstructural parts for injection moulding and diecasting. Manufacturing of components for toolmaking and engineering, custom manufacturing for major customers .

HAIDLMAIR

SERVICECENTER

HSCM

HAIDLMAIR USA

The HAIDLMAIR Service Center Monheim, situated in Germany on the premises of SAS, has been integrated in the HAIDLMAIR group since 1999. HAIDLMAIR USA is part of the HAIDLMAIR group since 2012.

Employees:

7 employees in Germany
1 employee in Goodyear/Arizona
1 employee in Lake Geneva/Wisconsin

Field of activities:

Maintenance and repair of injection Moulds, Sales Rep. North America