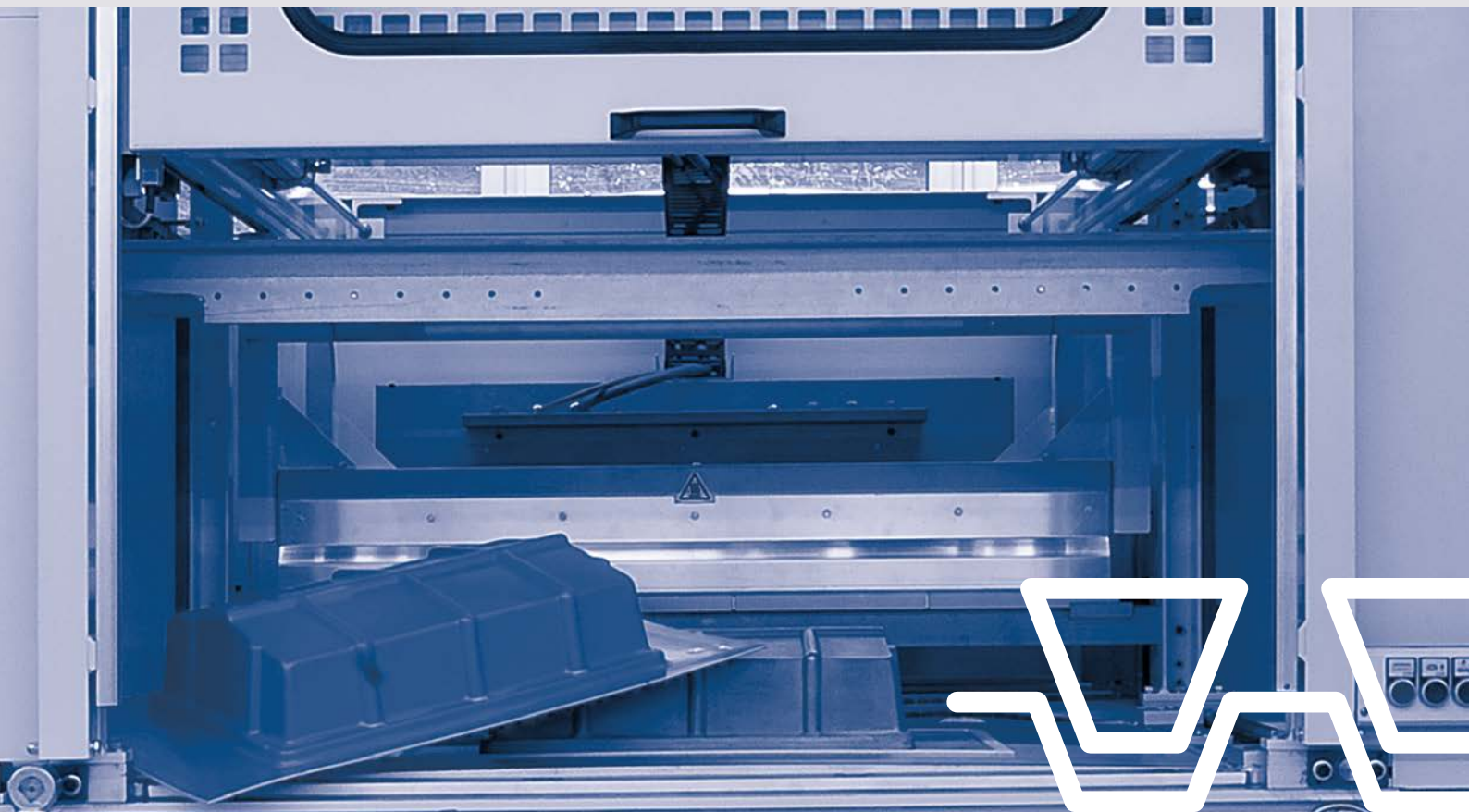


Universal Sheet Processing Machine

UA 100Ed



The high-performance
entry-level machine

ILLIG – there's simply more in

Welcome to the world of ILLIG. Our passion is high-performance thermoforming machines and molds, as well as high-tech solutions for the packaging industry.

We are a leading manufacturer of thermoforming machines and solutions, and the first choice when it comes to producing complex, high-quality thermoformed parts efficiently. Benefit from over six decades of experience, industry-leading expertise and our comprehensive range of products and services, and join countless other satisfied customers from more than 80 countries across the globe.

Our extensive experience and know-how go hand in hand to develop concrete solutions –all from a single source. We offer everything you need to smoothly fulfill even the most demanding thermoforming and packaging projects.

Your systematic path to success – with ILLIG.



it for you!



ILLIG is synonymous with economical production of first-class thermoformed parts. Worldwide.



**Thermoforming
Packaging Technology
Molds**

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ILLIG – one source for all your

Innovation, high quality standards and an uncompromising focus on our customers' needs have made ILLIG the market and technology leader in thermoforming and packaging.

At ILLIG, we've taken the initiative to drive change and innovation. And today, no other provider offers a more comprehensive range of cutting edge thermoforming machines and molds.

In ILLIG you have a partner that can offer everything you need from a single source: innovative and comprehensive solutions for the most diverse applications and fields of business, customized to meet your individual requirements.

Everything you need to sustain your success and to stay a step ahead of the competition.



needs

Excellent performance – you can rely on us

The ILLIG range of services includes research and development, design, production, assembly and the commissioning of complex production lines and individual components.

As an owner-operated business with some 750 employees, its own branch offices, and representatives in more than 80 countries, we're able to offer excellent customer service through close customer proximity. We're your professional and reliable partner for outstanding, first-class quality and comprehensive, worldwide service.

Whatever you need – ILLIG can provide it

Not only does ILLIG provide you with the machines to accommodate a wide range of different requirements, you can also get the equipment and molds you need to get your job done—all from a single source.

This lets you maximize the potential of your investment and ensures maximum availability for sustained productivity—synergies that pay for themselves.

Our portfolio is rounded off by a comprehensive range of thermoforming molds and tools manufactured in ILLIG's own mold and tool plant. Every mold is designed to work perfectly in ILLIG's machine lines.

Our product and competence areas

Thermoforming

- | Sheet processing machines
- | Automatic roll-fed machines for forming and punching tools
- | Automatic roll-fed machines with separate forming and punching stations

Packaging technology

- | Skin and blister packaging machines
- | Form, fill and seal machines

In-house tool and mold shop



ILLIG – the evolution of therm



ILLIG stands for pioneering inventions and innovations. We actively invest in the research and development of new technology, and work with leading research institutes.

Using the latest hardware and software tools our highly specialized engineers are developing the solutions of tomorrow; solutions that offer our customers decisive advantages such as higher quality products in less time and at reduced costs—innovations that make our customers even more successful.

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Today:

Customers all over the world manufacture sophisticated high-precision thermoplastic parts and packaging for brand-name products

Looking back:

The first ILLIG UA 100 vacuum forming machine was built based on the know-how of a maintenance and repair workshop, and industrial clothes dryer production.



offorming

ILLIG has been setting technological milestones for decades

1946

On May 27 Adolf Illig founds a maintenance and repair workshop in the garage of his parents' home.

1956

Type UA 100: Construction of the first ILLIG vacuum forming machine.

1960

Introduction of R 650: World's first roll-fed automatic vacuum forming machine for producing lids from pre-printed material.

1963

First high-speed pneumatic forming and punching machine. Beginning of market-proven RDM series.

1964

New RDM series machines introduced. Founding of ILLIG tool and mold shop complements product range for the production of cups and lids.

1968

First packaging machine line that integrates forming, filling and sealing. First piston dosing machine for pasty ingredients.

1983

First pre-heaters with heated aluminum rollers for continuous heating of PP.

1984

RDM 50K – first larger automatic thermoforming machine with tilt technology. It sets the new standard for hygiene conditions in the packaging industry.

1989

First software program to automate basic settings of vacuum forming machines.

1993

First In-Mold Labeling production line for applying PP labels to PP margarine tubs.

1994

Fully aseptic form, fill and seal lines with a capacity of 700,000 yogurt cups per day.

1995

New revolution of molds for forming and punching technology that set new standards in precision, temperature control and service life.

2004

RDM 78K, ILLIG's first 3rd generation machine line in operation.

2005

Premiere of In-Mold-Labeling for form, fill and seal lines.

2006

Conversion of ILLIG high-performance thermoformers to 3rd generation technology.

2008

Presentation of BF 70 – first bottle former worldwide of its kind ready for serial production.

2013

Now with Intelligence Control. ILLIG designers achieve quantum leap in thermoforming with IC machines (ILLIG Intelligent Control Concept).

Today

ILLIG's IML-T decoration technology prevails among customers. In-Mold-Labeling lines conquer market.

UA 100Ed sheet processing machine the entry-level machine with



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UA 100Ed sheet processing machine

Applications

Forming area	mm	max.	960 x 560
Sheet size	mm	max.	1000 x 600
Depth of draw (neg. and pos.)	mm		300
Mold installation height	mm.		370
Material thickness	mm.		10
Connected load of heaters	kW		26
Total connected load	kW		31,2
Suction capacity of vacuum pumps	m ³ /h		40
Air consumption with upper table at 6 bar	l/cycle		280,3
Width x depth without electrical enclosure	mm		1600x2140
Max. weight (with upper table)	approx kg		1900

Formed part examples

	UA 100Ed
Bicycle helmets	✓
Covers	✓
Enclosures	✓
Laminated parts	✓
Inserts	✓
Sandboxes	✓
Sinks	✓
Marketing materials	✓
Dome lights	✓
Workpiece carriers	✓
Models	✓
Displays	✓
Separators	✓
General automotive parts	✓

Machine – manual loading

“A thermoforming machine with manual loading at a very reasonable price-performance ratio.”

Two additional options are also available for the Ed basic machine: an upper table, and retractable mold component control for undercut parts.



Basic configuration for your individual needs

- | Manual loading for small and medium batch sizes
- | Automatic pre-blowing and demolding
- | Ideal configuration as a test machine with upper and lower tables, heating on both sides and connection for mold temperature control
- | Heating system with energy-efficient black HTSs heater elements
- | Cost-effective format parts
(10 mm plate as lower clamping frame and fixed-format cross bridges for the upper clamping frame)
- | Compatible with existing UA 100Ed clamping frame
- | Quick intervention keys for adjusting the heating time of both the upper and lower heaters as well as the demolding air
- | High-resolution 7" TFT display
- | New task-oriented user interface
- | "Auto" settings screen
- | Cooling blower (4x 26 m³/min.) with adjustable outlet ducts

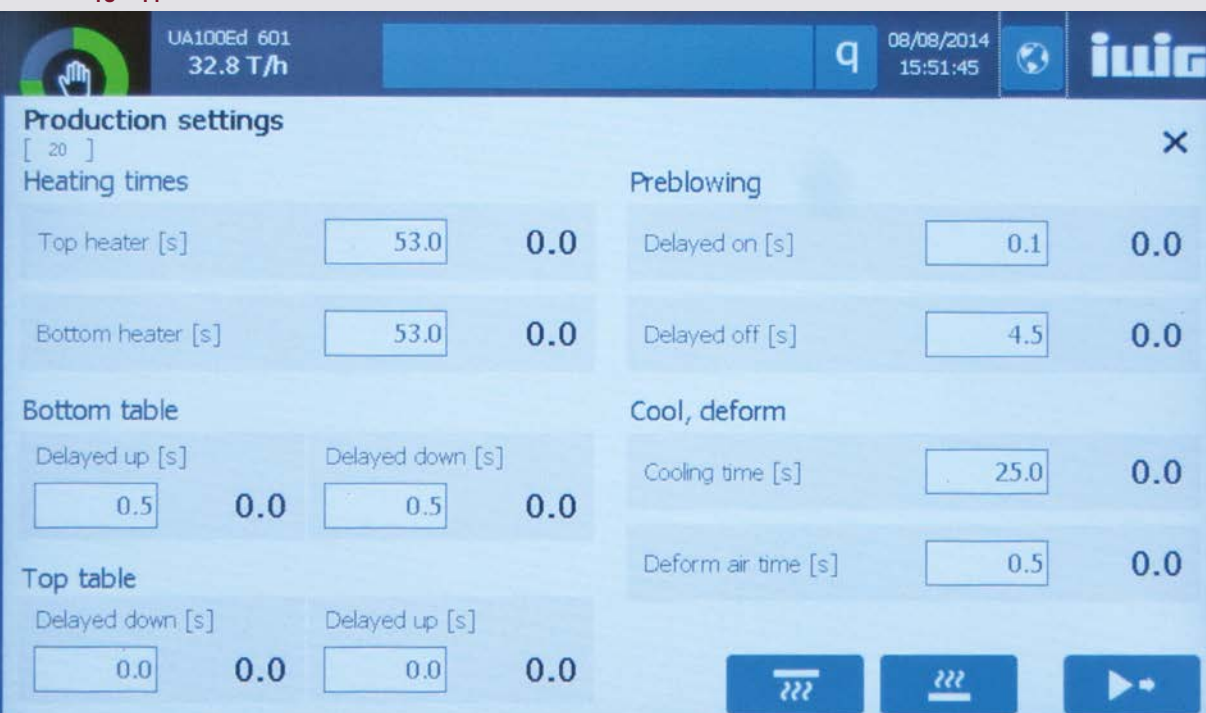
UA 100Ed Thermoforming – for cost-effective, streamline

The UA 100Ed is the ideal machine for subcontractors, educational and training facilities, and work centers for the disabled, but also for manufacturers and tool makers.

The current UA 100Ed also includes several innovations such as a high-performance vacuum pump, improved cooling blowers with four adjustable air outlet ducts and ceramic infrared heater elements to heat up the material to forming temperature. The ceramic HTSs heater elements are now constructed with a special black enamel that reduces energy consumption by up to 30%.

The UA 100Ed also features PLC control with a high-resolution TFT display and ILLIG's modern task-oriented user interface. All manual settings can be entered on a single screen, which also conveniently displays the machine status. On the "Auto" settings screen the machine operator has the most important settings on one screen so that he doesn't have to switch to other screens while the machine is in operation. Additional screens are available for the machine setter.

10 - 11



PLC control with task-oriented user interface

d production

*HTSs heater elements
with special black enamel
for a reduction of
energy consumption by up to 30%*



*Lower table
with control of retractable mold components*



*Improved
cooling blowers
with adjustable
outlet ducts*



UA forming segment

ILLIG – comprehensive solutions

Our systems solutions ensure quick and easy integration into a wide variety of thermoforming machines.

Customers who buy the latest UA 100Ed have the advantage of being able to use their own molds from previous versions of the same machine type without any modifications.



ILLIG systems for thermoforming and packaging technology

- | Sheet processing machines
- | Automatic roll-fed thermoformers for forming/punching tools
- | Automatic roll-fed thermoformers with separate forming and punching
- | Skin and blister packaging machines
- | Form, fill and seal lines
- | In-house tool and mold shop



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