

THE LIGHT OF
OPTIMUM
PRODUCTION
ACURIA



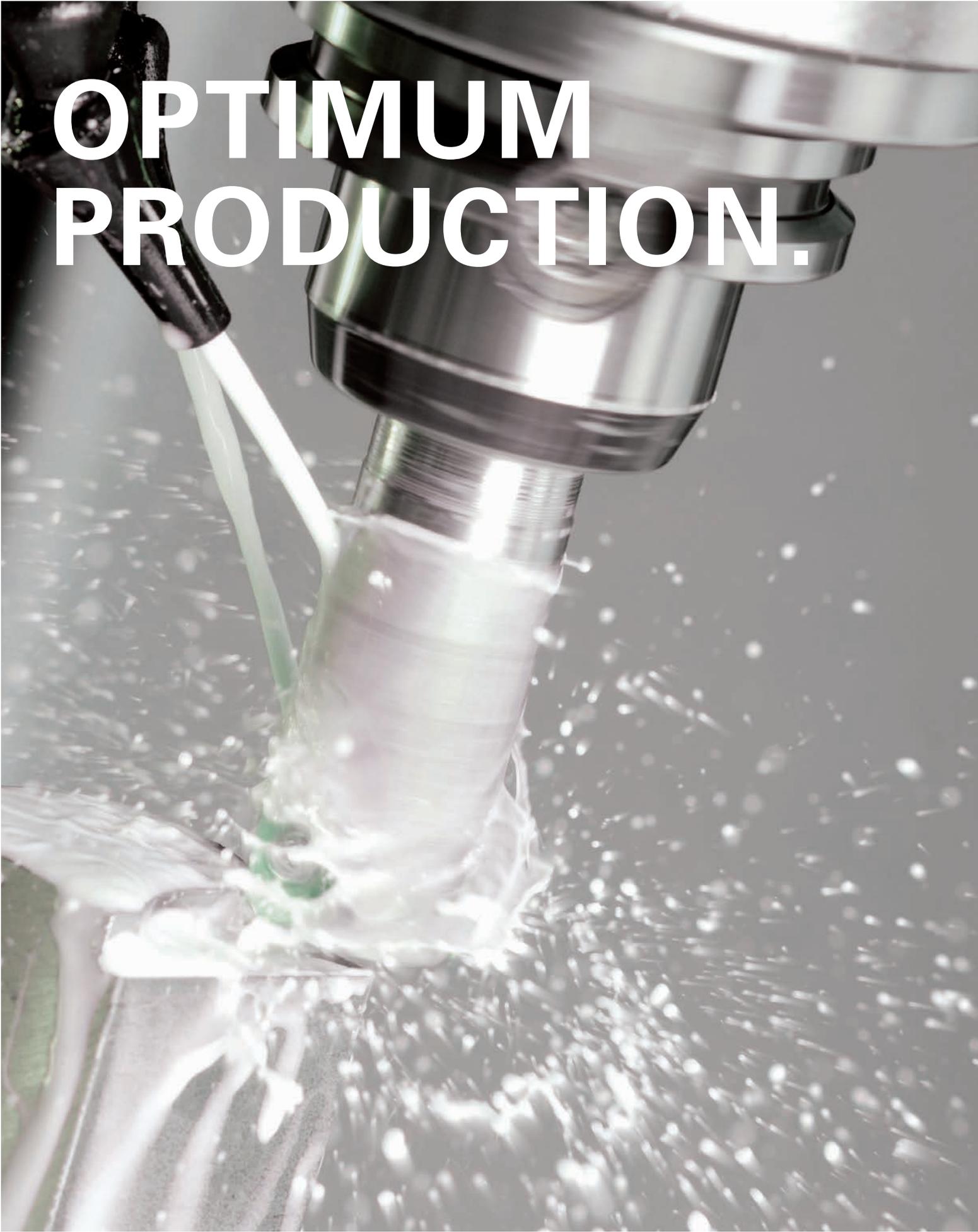
ENGINEERS OF LIGHT

MACHINE LIGHTING



ENG

Waldmann



OPTIMUM PRODUCTION.

**ACURIA.
BECAUSE PRECISION MAKES ALL THE DIFFERENCE.**

Any number of things can cause a glitch in production. How do you quickly get a fix on problems and resolve them? With lighting that perfectly illuminates the production environment. Despite this, machines are often poorly lit. Dazzling light is just as bad as impenetrable shadows. Lights may leak or fail due to mechanical stress and a lack of protection. Cables are insufficiently insulated or get damaged by flying chips. Before you know it, a minor problem turns into hours of downtime.

Installing new lights can be a costly and complicated process. Integrating them can be difficult. To make matters worse, lights often look out of place among machining tools, and they're in the line of fire from a barrage of flying chips.

As the industrial lighting specialist of choice, we've been consistently refining high-caliber machine lighting since 1928. Now, we're putting an end to hassles with our best machine light of all time:

ACURIA is the most powerful with the most efficient lighting technology. From its perfect impermeability and optimum protection against high temperatures, to the best cable protection and simplest installation, and the easiest operation with seamless integration – it's superlative in every way. With **ACURIA**, we've taken our expertise in engineering machine lights to a whole new level in precision and conception, design and construction.

The perfect complement to our established linear light, the **MACH LED PLUS**, **ACURIA** looks set to become the new No. 1 machine light on the market.

OPTIMUM CONCEPT.

Optimized illumination

The most powerful, cutting-edge LEDs to ensure ideal working conditions at all times. Check.

Optimized dimming

Convenient dimming to deliver lighting tailored to any task. Check.

Optimized connection

A highly flexible connection in the form of a rotatable M12 connector plug that eliminates the need to stock other variants. Check.

ACURIA.**BECAUSE STATE-OF-THE-ART TECHNOLOGY IS THE VERY LEAST WE CAN DO.****Optimized visibility**

Glare-free lights to ensure perfect visibility from every angle.
Check.

Optimized safety

The end-to-end quality, sturdiness and reliability that Waldmann customers have come to expect.
Check.

Optimized design

Purpose-driven design combining the expertise of Waldmann and acclaimed product designer Dominic Schindler that integrates seamlessly with the machine.
Check.

OPTIMUM CONSTRUCTION.

Optimized inputs

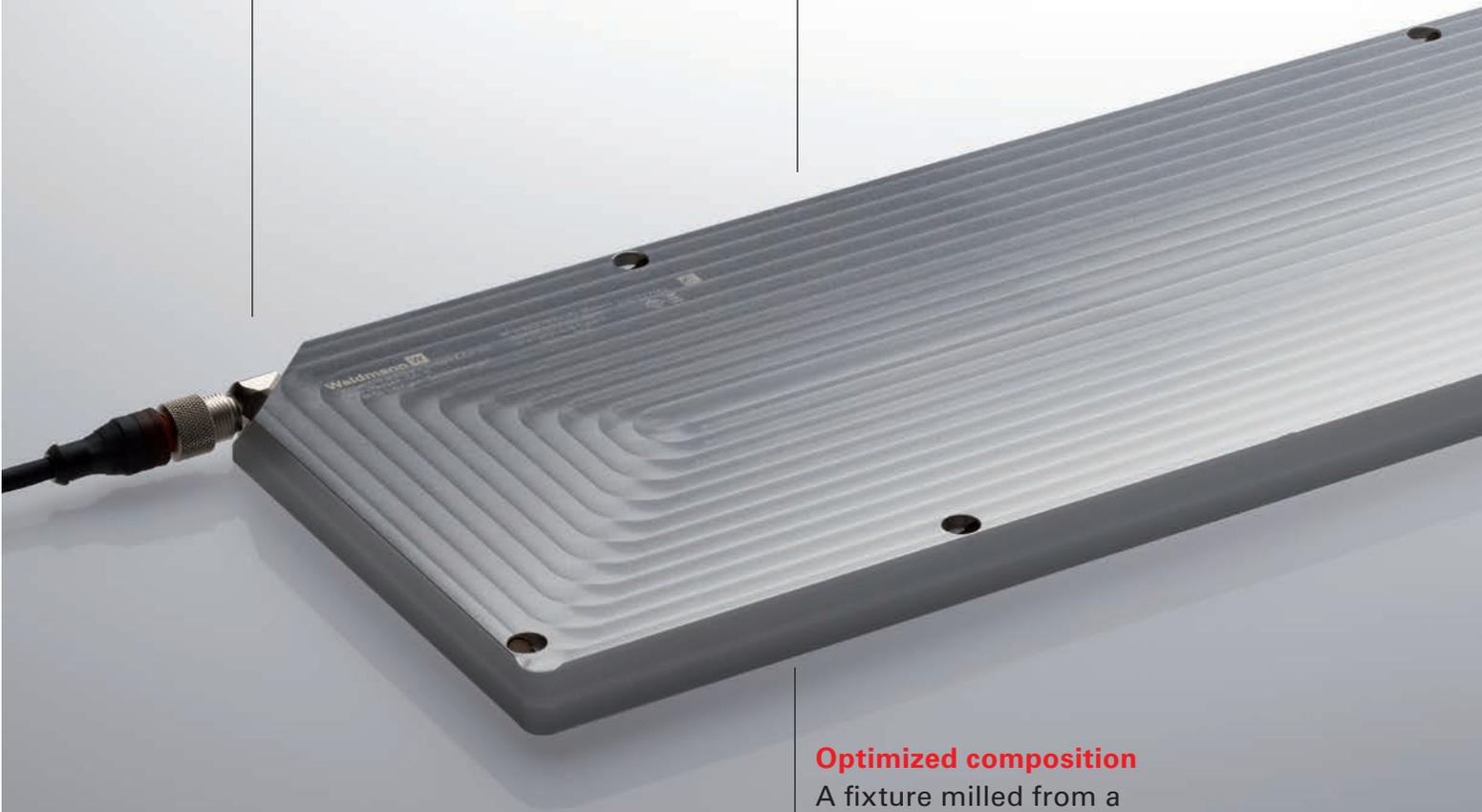
Standardized controls thanks to digital inputs. Check.

Optimized heat protection

Temperature-sensing luminous flux controls to prevent overheating. Check.

Optimized composition

A fixture milled from a solid billet to eliminate unnecessary seals. Check.



ACURIA.
BECAUSE PRECISION MAKES ALL THE DIFFERENCE.

Optimized fastening

A snap-in mechanism for attaching the light to the machine surface without the need for tools.

Check.

Optimized fit

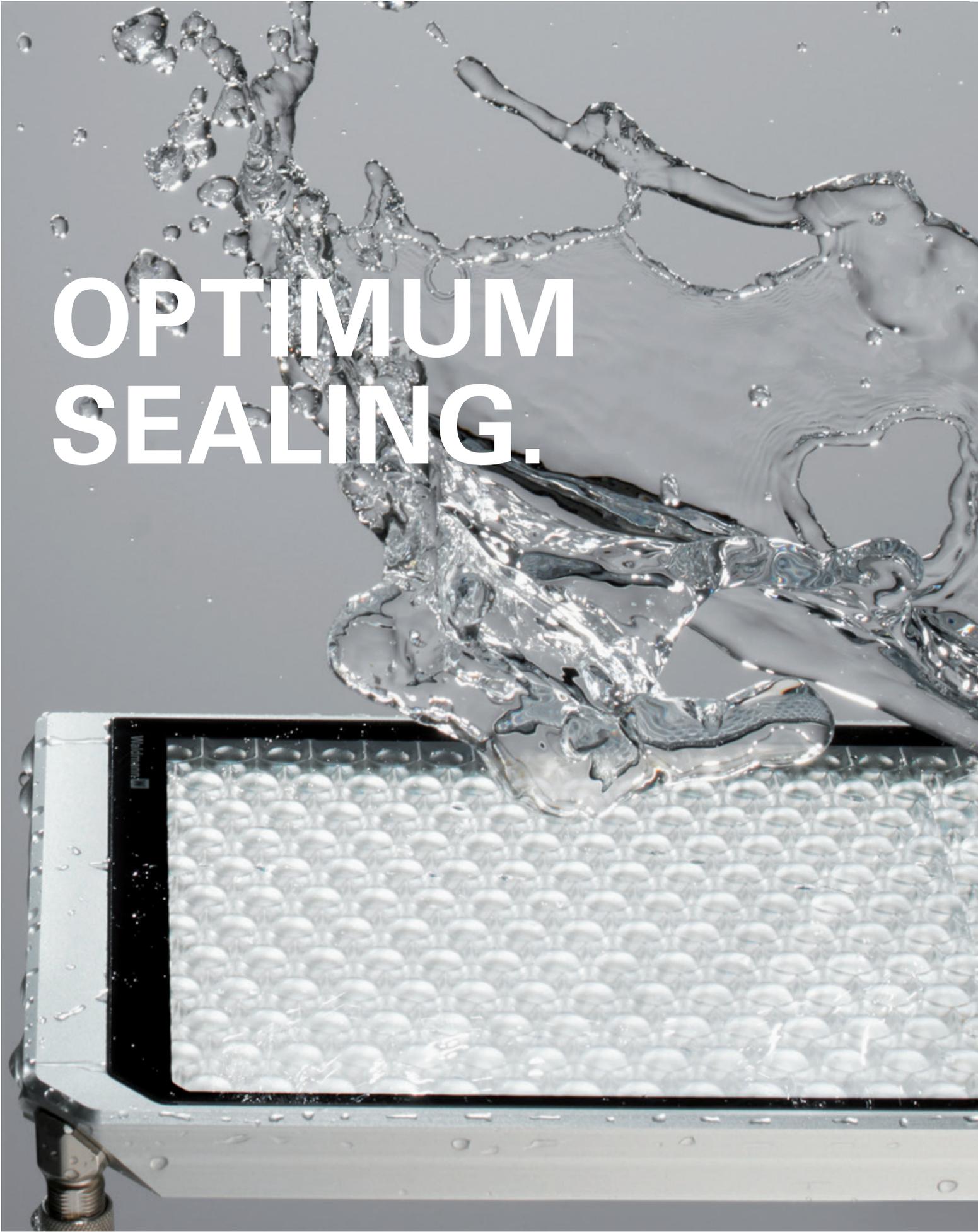
A flat, almost flush fit against the machine surface that's achieved without screws.

Check.

Optimized in every way

All the very best features on the market packed into one light.

Check.



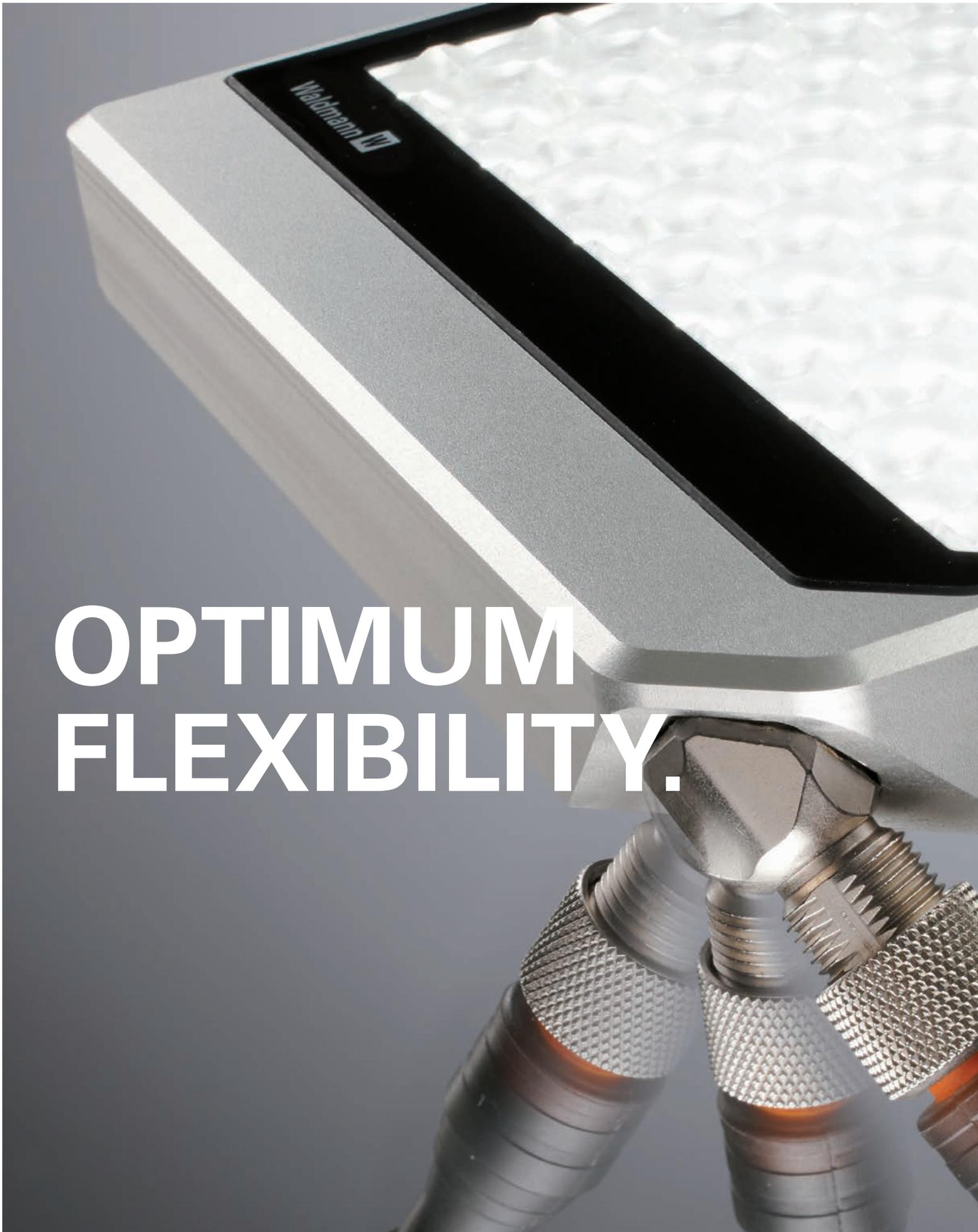
OPTIMUM SEALING.

**ACURIA.
BECAUSE ONE LEAK IS ONE TOO MANY.**

ACURIA is milled from a solid billet without unnecessary seals. This means the light can withstand even the harshest environmental conditions and virtually any temperature. ACURIA passes the long-term tightness test thanks to outstanding impermeability.

What's in it for you?

- **Quality that's made to last**
- **Minimal downtime due to moisture or dust ingress**
- **Safer conditions for people, equipment and the company as a whole**
- **IP67 protection rating**



OPTIMUM FLEXIBILITY.

ACURIA.

BECAUSE FLEXIBILITY IS THE SECRET TO PRODUCTION SAFETY.

ACURIA's innovative, rotatable M12 connector plug ensures maximum flexibility and a safer cable run to match. This means the cables of surface-mounted lights can be better protected against damage from chips. The optimized cable run of integrated machine lights avoids kinks, effectively preventing cable breakage.

What's in it for you?

- **Less cable damage**
- **Simple, flexible connection options**
- **Safer conditions for people, equipment and the company as a whole (something we don't mind repeating here)**

The spirit of Waldmann's founder radiates
from the EMIL 28 showroom, a space filled with inspirational lighting ideas.

#blackforestlight

SHINE A

Waldmann **W**

The light of precision,
so productivity improves.

The light of reason,
so everyone understands.

The light of creativity,
so better ideas emerge.

The light of knowledge,
so R&D delivers more findings.

The natural light of day,
so people stay healthy.

The light of sustainability,
so nothing goes to waste.

The light of connectivity, so everything
in the building works as a system.

The light of experience,
so mistakes don't occur.

The light of success,
so companies can grow.

Shine the #blackforestlight and
defeat darkness everywhere.

ALL LIGHT



OPTIMUM RESILIENCE.

What's in it for you?

- Less downtime due to lights affected by lubricants
- Reduced degradation and lower replacement rates
- Maximum planning certainty

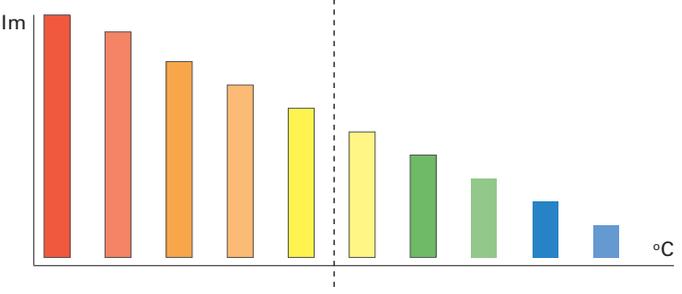
**ACURIA.
BECAUSE ANYONE CAN MAKE LIGHTS THAT WORK
UNDER IDEAL CONDITIONS.**

Thanks to the use of coolant and lubricant-resistant materials, light degradation is a thing of the past.

OPTIMUM SELF-REGULATION.

Automatic, temperature-sensing luminous flux regulation successfully protects ACURIA from overheating under thermal stress. The upshot? Fewer light failures and reduced replacement costs when lights are subject to extreme temperatures.

So even under high thermal stress, you'll enjoy worry-free operation and maximum planning certainty.



OPTIMUM PROTECTION.

What's in it for you?

- **Damage-free operation even when jolted**
- **Lower costs thanks to minimized replacements following jarring or vibration damage**
- **Reduced downtime due to shocks or vibration**

**ACURIA.
BECAUSE, SURE ENOUGH, IT'LL BE A ROUGH RIDE.**

**ACURIA's shock and vibration-resistant design
makes it ideally suited to withstand extreme stress.**



OPTIMUM SIZE.

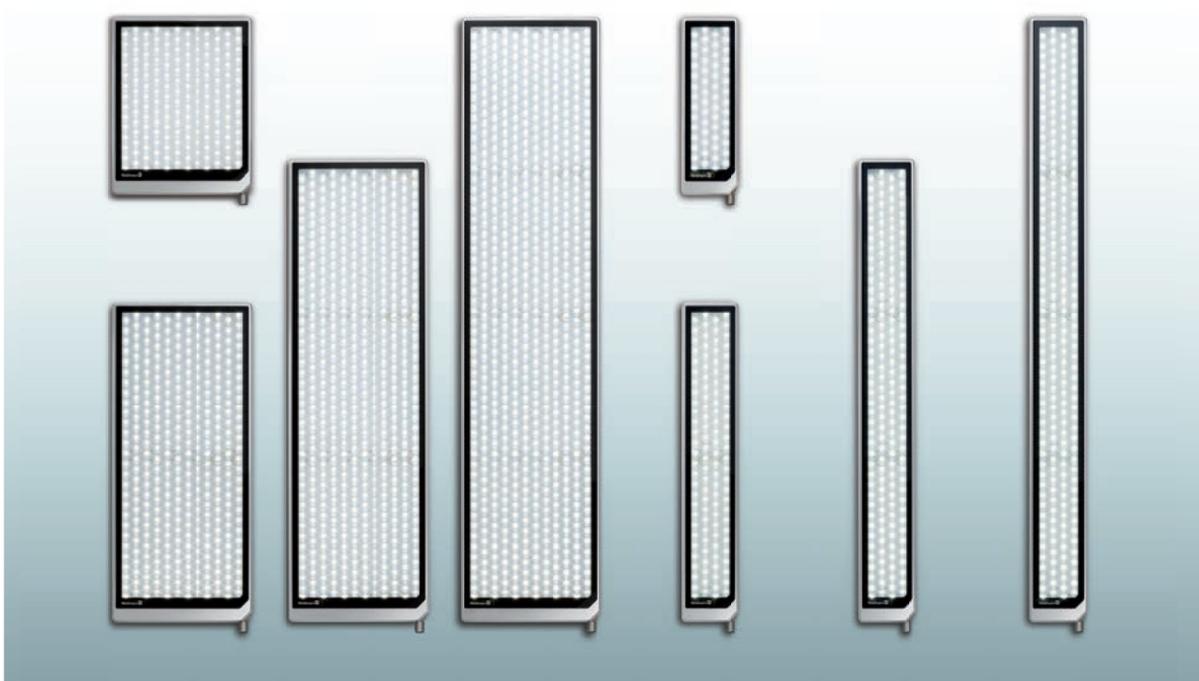


**ACURIA.
BECAUSE THE RIGHT ONE FOR YOU IS RIGHT ON HAND.**

In true Waldmann style, the wide range of light sizes makes sure there's an ACURIA for everyone.

What's in it for you?

- The fast choice that fits truly every machine
- One-stop delivery saves time and money
- The right light for your space and/or lighting needs



OPTIMUM SHAPE.

With its extremely slim design, ACURIA is currently the flattest surface-mounted light on the market. When integrated into the machine, ACURIA sits perfectly flush, creating a seamless finish. The surface-mounted version has an attractive design that prevents chips from collecting. ACURIA is the solution for effortless machine integration and ease of use even in tight spaces, delivering ideal lighting and visibility at all times.

OPTIMUM SIMPLICITY.



Waldmann does it again: No other light on the market boasts this clever installation system.



The built-in version of ACURIA is mounted using a spring clip system. It's ingeniously simple. The light sits tight and is as good as indestructible.

What's in it for you?

- **Swift, simple installation**
- **Extremely secure mounting**
- **Accumulates little to no chips**

ACURIA.

BECAUSE THE JOB IS DONE FASTER AND SAFER WITHOUT TOOLS.

ACURIA's simple, smart, exceptionally secure screwless snap-in mechanism allows rapid integration into or mounting onto the machine surface without the need for tools.



Heavy screw nipples clip into the surface-mounted version for a perfectly secure, rock-solid fit.



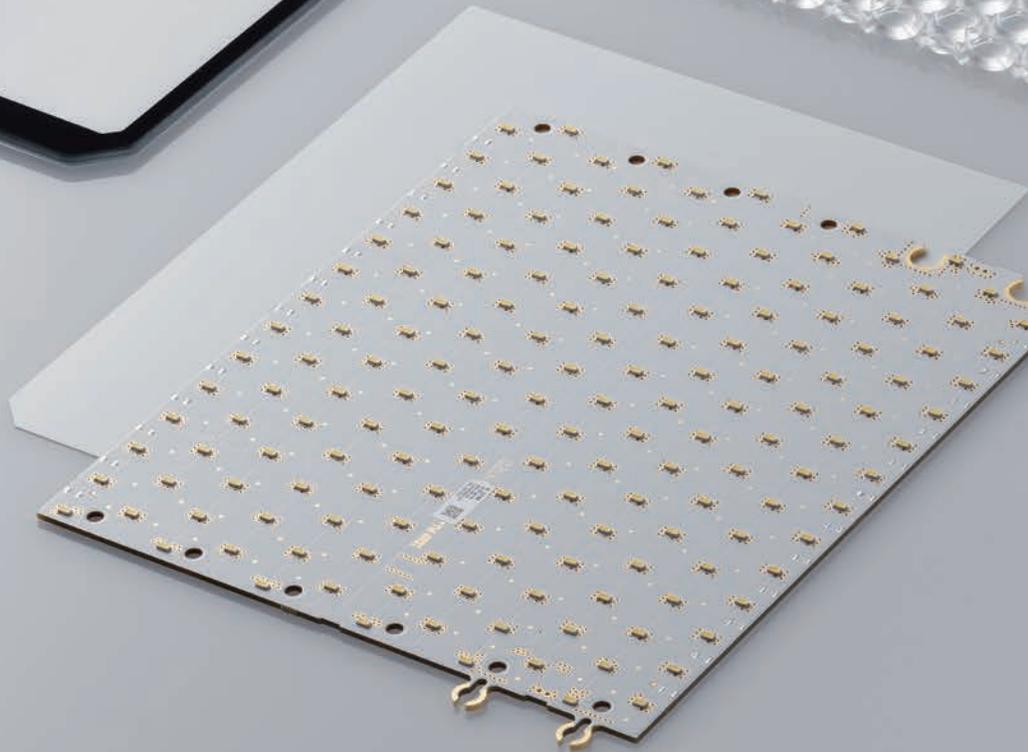
All developed in line with Waldmann's time-honored principles: The simpler, the better. The classier, the better.

OPTIMUM SIMPLICITY.

ACURIA can be conveniently adjusted using standardized, digital controls to make light work of any task. The enhanced ergonomics and energy efficiency also add up to significant cost savings.

Test certificate/matrix manufacturer's declaration available on request.

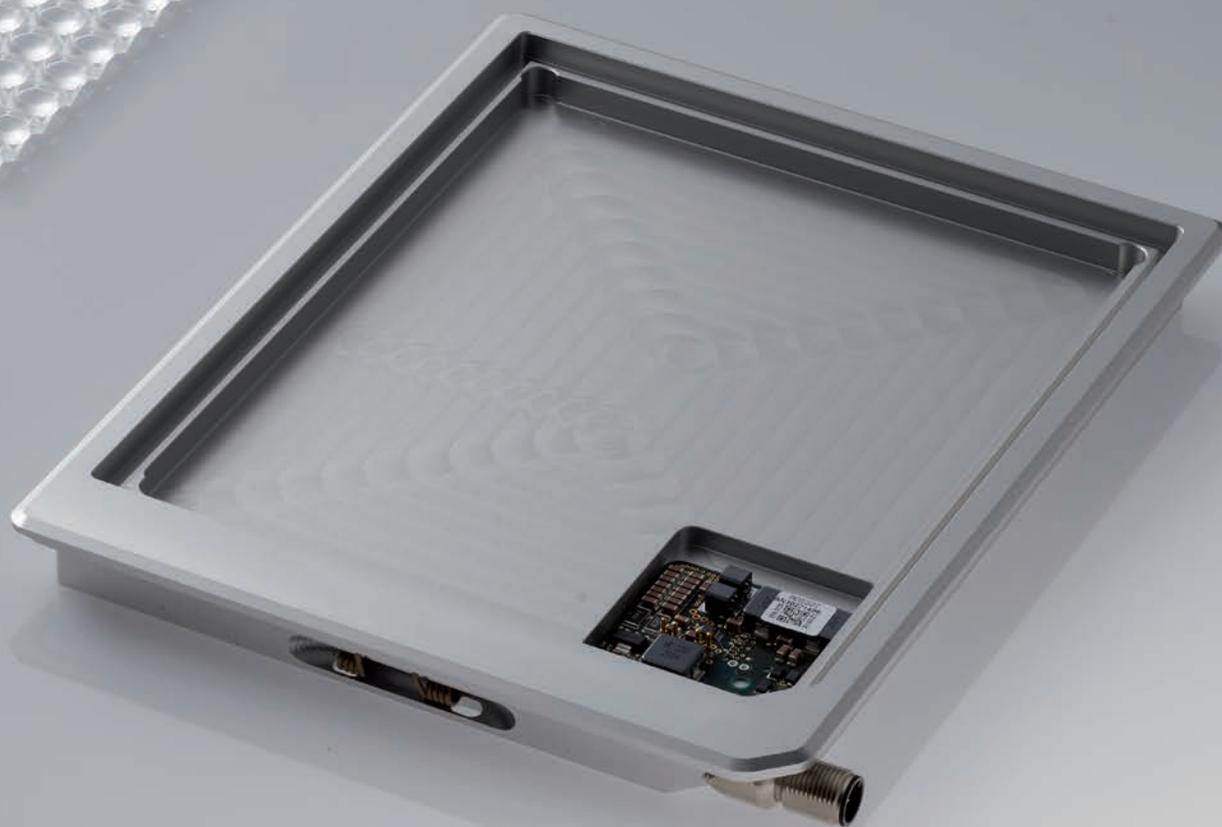
OPTIMUM SOLUTIONS.



**ACURIA.
BECAUSE TECHNOLOGY CONNECTS.**

You deserve the best light on the market. So why should your machinery settle for less than state-of-the-art lighting technology? The supplier who's been going the extra mile for you since 1928 is offering the most powerful, most efficient lighting technology that delivers more lumens for your money.

ACURIA from Waldmann – it's the clear choice.



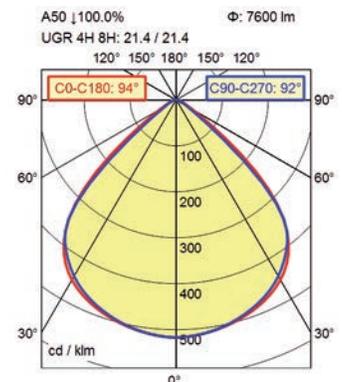
**CHOOSE QUALITY.
CHOOSE ACURIA.**

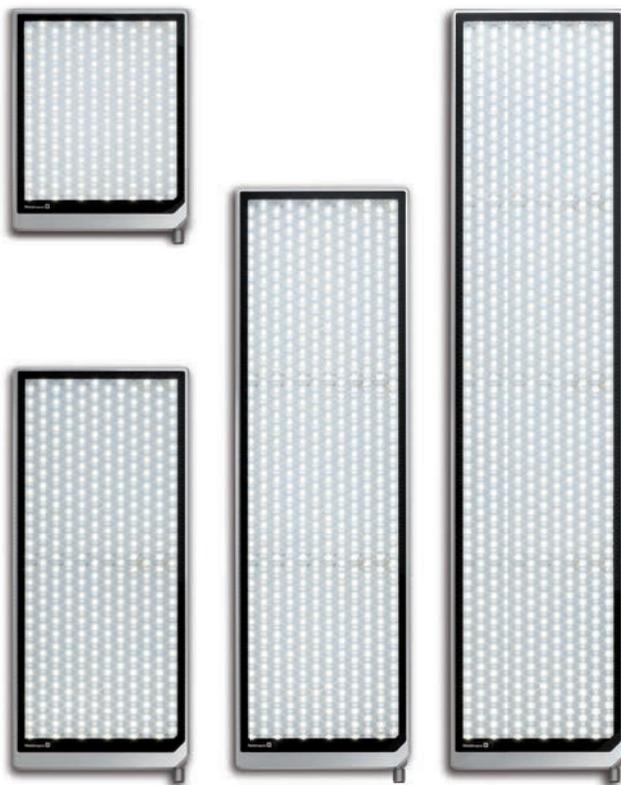
Contact us today to receive a quote or request a sample.

OPTIMUM TECHNOLOGY.

TECHNICAL SPECIFICATIONS

ACURIA MACHINE LIGHT	
Light source	LED
LED service life	> 60,000 h (L70)
Beam angle	90°
Glare control	Focusing optic array
UGR rating	< 22
Color temperature	5000 K (neutral white)
Color rendering Ra	≥ 80
Connection	M12 connector plug, A-coded, rotatable 360°, 6 x 60° snap-in
Connection voltage	24 V DC
Protection class	III
Activation	Digital inputs for on/off and step dimming
Housing/exterior material	Colorless anodized aluminum
Lens	4 mm thick safety glass (ESG)
Fastening	Via spring clips integrated into the rear. No tools required.
Vibration resistance	10-55 Hz (amplitude 0.35 mm)
Shock proof	≤ 10 g
T _{a,max}	50°C (thermal protection at T _a > 50°C)
System of protection	IP67
Certification	CE, cETLus

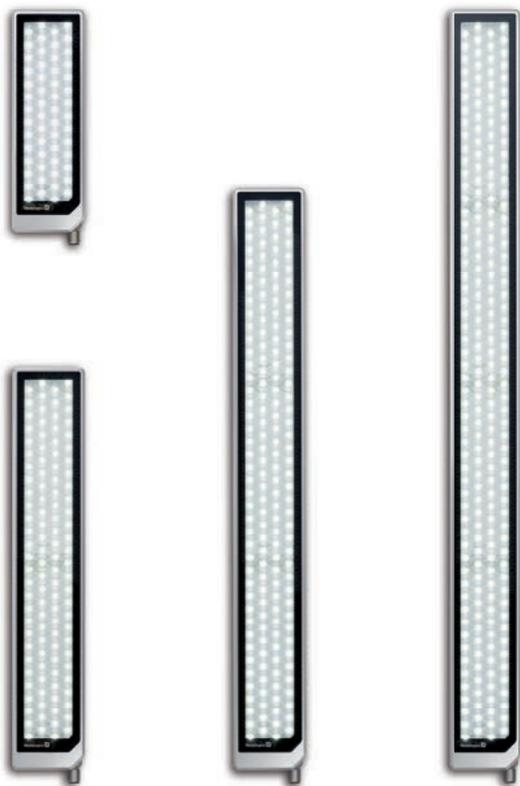




ACURIA. Light sizes

Surface mounted				
Width [mm]	170	170	170	170
Height [mm]	215	390	565	740

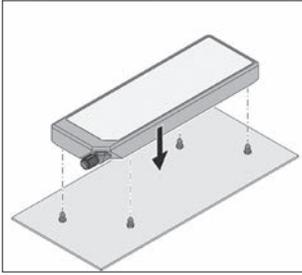
Machine integrated				
Width [mm]	178	178	178	178
Height [mm]	223	398	573	748



Surface mounted				
Width [mm]	70	70	70	70
Height [mm]	215	390	565	740

Machine integrated				
Width [mm]	78	78	78	78
Height [mm]	223	398	573	748

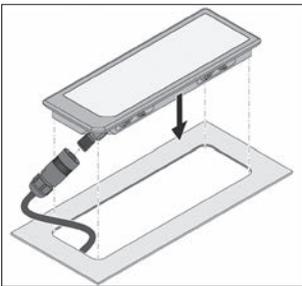
SURFACE-MOUNTED VARIANTS



ACURIA.perfect surface-mounted variants

Consumption	Dimensions	Special feature	Luminous flux	Model	Order no.
7 W	215 x 70 mm	ADVANCED-PAKET	700 lm	APA 720/850/MS	114310000-00806651
12 W	215 x 70 mm	ADVANCED-PAKET	1.400 lm	APA 1400/850/MS	114310000-00806668
12 W	390 x 70 mm	ADVANCED-PAKET	1.400 lm	APA 1450/850/MS	114311000-00806645
17 W	565 x 70 mm	ADVANCED-PAKET	2.100 lm	APA 2200/850/MS	114312000-00806647
22 W	740 x 70 mm	ADVANCED-PAKET	2.800 lm	APA 2900/850/MS	114313000-00806649
14 W	215 x 170 mm	ADVANCED-PAKET	1.900 lm	APA 2000/850/MS	114314000-00806633
28 W	390 x 170 mm	ADVANCED-PAKET	3.800 lm	APA 4000/850/MS	114315000-00806635
42 W	565 x 170 mm	ADVANCED-PAKET	5.700 lm	APA 6000/850/MS	114316000-00806638
56 W	740 x 170 mm	ADVANCED-PAKET	7.600 lm	APA 8000/850/MS	114317000-00806643

MACHINE-INTEGRATED VARIANTS



ACURIA.perfect machine-integrated variants

Consumption	Dimensions	Special feature	Luminous flux	Model	Order no.
7 W	215 X 78 mm	ADVANCED-PAKET	700 lm	APE 720/850/MS	114318000-00806667
12 W	215 X 78 mm	ADVANCED-PAKET	1.400 lm	APE 1400/850/MS	114318000-00806669
12 W	390 X 78 mm	ADVANCED-PAKET	1.400 lm	APE 1450/850/MS	114319000-00806661
17 W	565 X 78 mm	ADVANCED-PAKET	2.100 lm	APE 2200/850/MS	114320000-00806663
22 W	740 X 78 mm	ADVANCED-PAKET	2.800 lm	APE 2900/850/MS	114321000-00806665
14 W	215 X 178 mm	ADVANCED-PAKET	1.900 lm	APE 2000/850/MS	114322000-00806653
28 W	390 X 178 mm	ADVANCED-PAKET	3.800 lm	APE 4000/850/MS	114323000-00806655
42 W	565 X 178 mm	ADVANCED-PAKET	5.700 lm	APE 6000/850/MS	114324000-00806657
56 W	740 X 178 mm	ADVANCED-PAKET	7.600 lm	APE 8000/850/MS	114325000-00806659

Visit waldmannlighting.com/products/acuria for additional accessories

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Here, we like to shine the spotlight on the people at Waldmann who give their all to create the best possible lighting solutions. Thank you, CHRISTOPH.

ENGINEERS OF LIGHT: CHRISTOPH

