

Панельные светильники ACURIA, MACH, FLAT, LUMATRIS, MKEI

Технические характеристики

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**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. Luminaires 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 luminaires can be a costly and complicated process. Integrating them can be difficult. To make matters worse, luminaires 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-calibre machine lighting since 1928. Now, we're putting an end to hassles with our best machine luminaire 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 luminaires to a whole new level in precision and conception, design and construction.

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

OPTIMUM CONCEPT.

Optimised illumination

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

Optimised dimming

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



Optimised connection

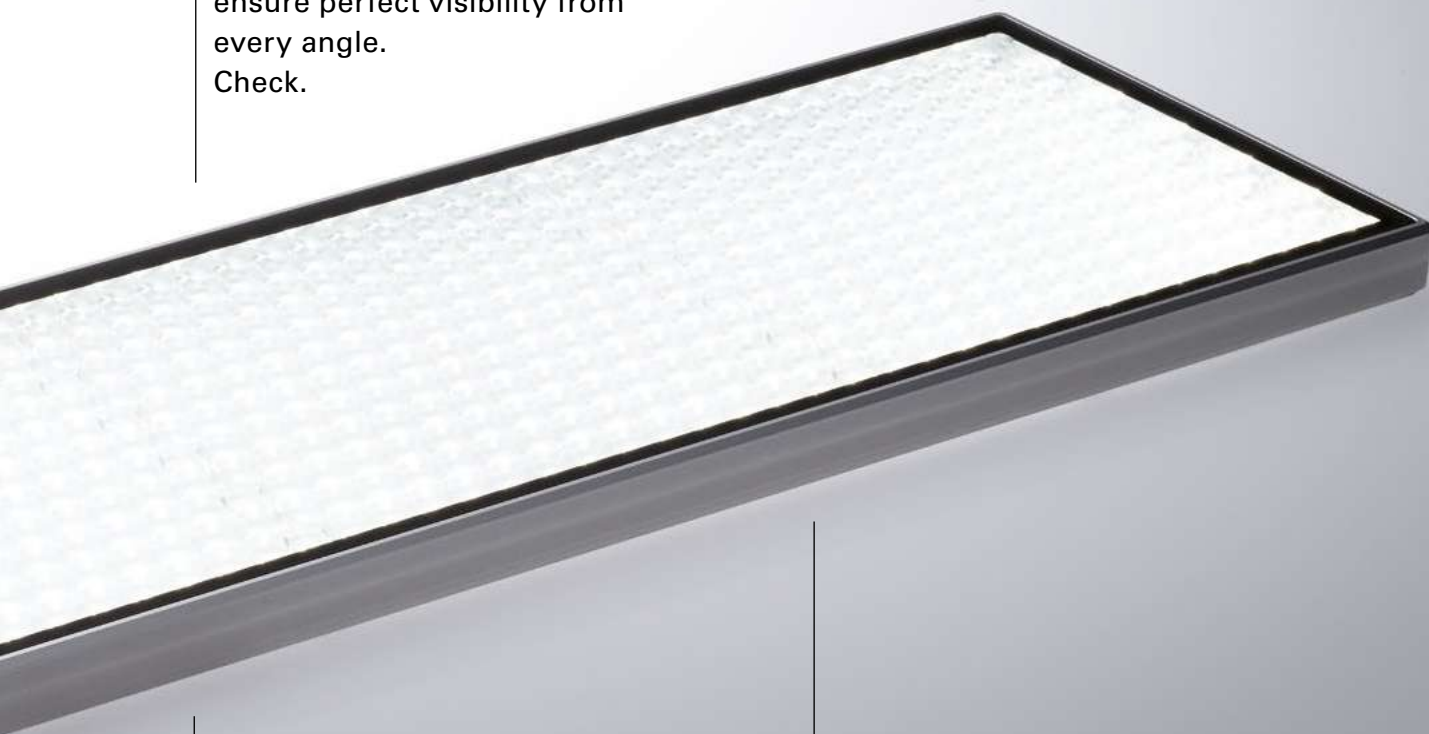
A highly flexible connection in the form of a rotatable M12 connector plug that eliminates the need to stock other variants.
Check.

ACURIA.

BECAUSE STATE-OF-THE-ART TECHNOLOGY IS THE VERY LEAST WE CAN DO.

Optimised visibility

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



Optimised safety

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

Optimised design

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

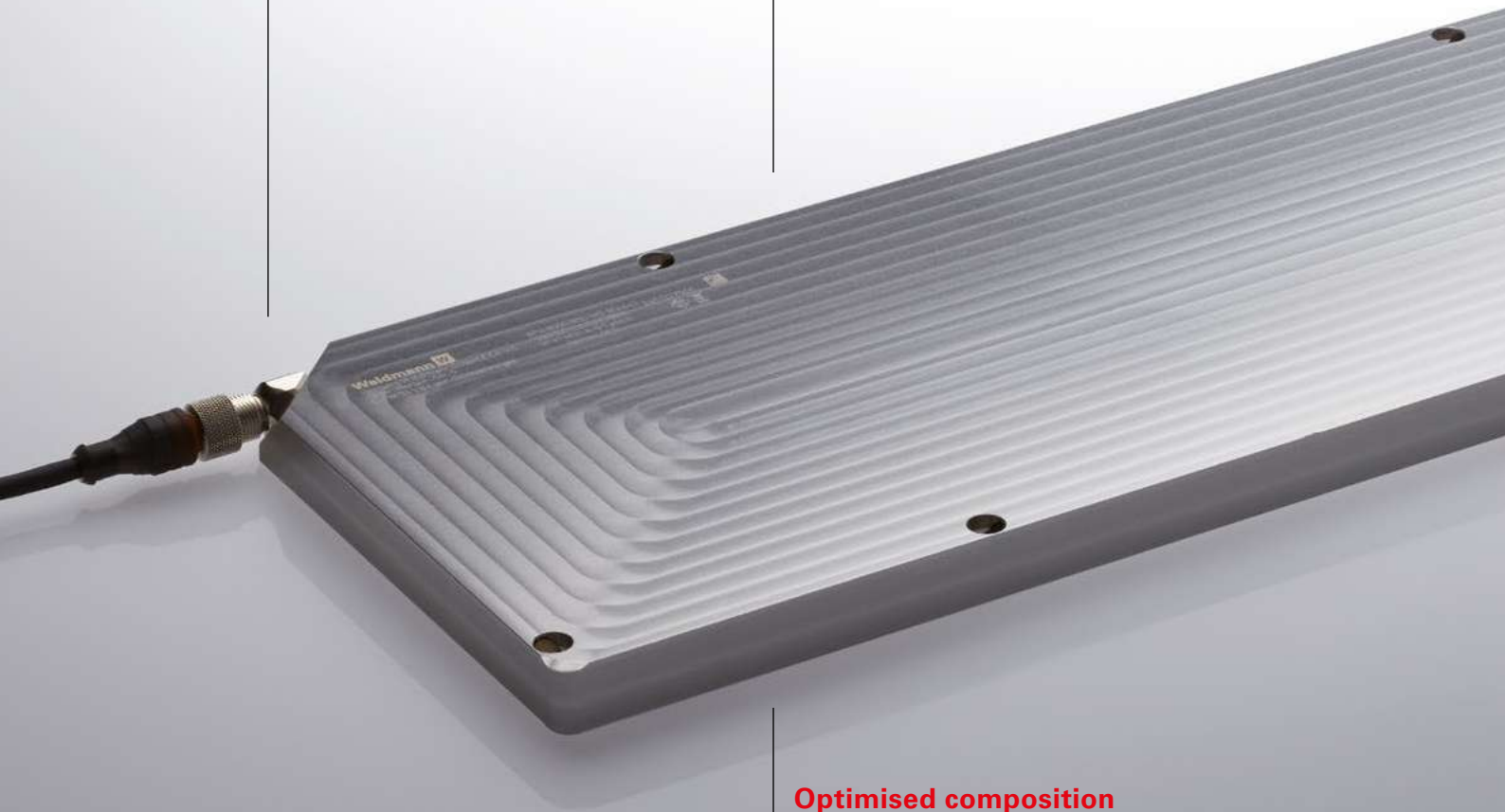
OPTIMUM CONSTRUCTION.

Optimised inputs

Standardised controls
thanks to digital inputs.
Check.

Optimised heat protection

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



Optimised composition

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

ACURIA.
BECAUSE PRECISION MAKES ALL THE DIFFERENCE.

Optimised fastening

A snap-in mechanism for affixing the luminaire to the machine surface without the need for tools.
Check.

Optimised fit

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

Optimised in every way

All the very best features on the market packed into one luminaire.
Check.





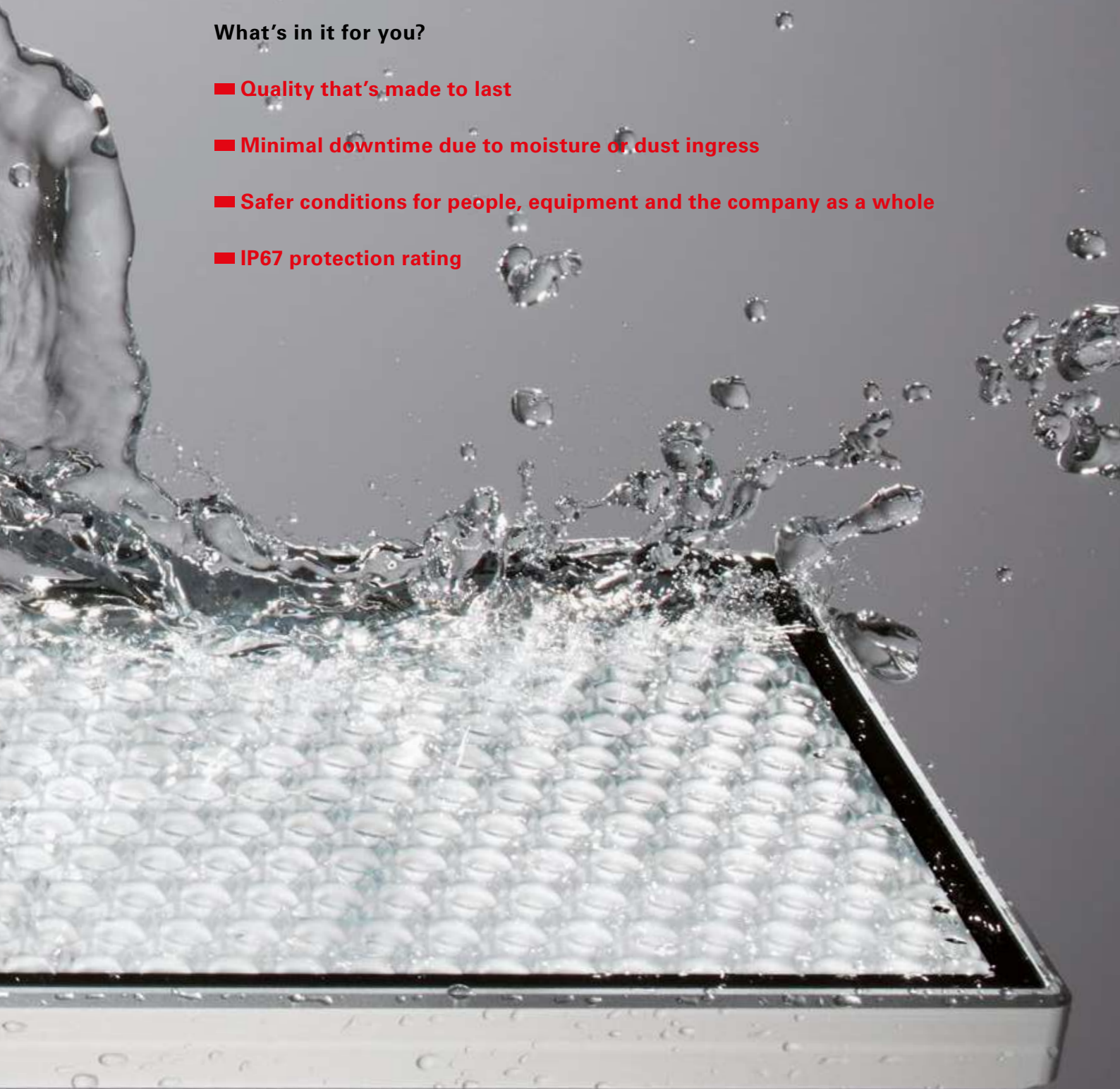
OPTIMUM SEALING.

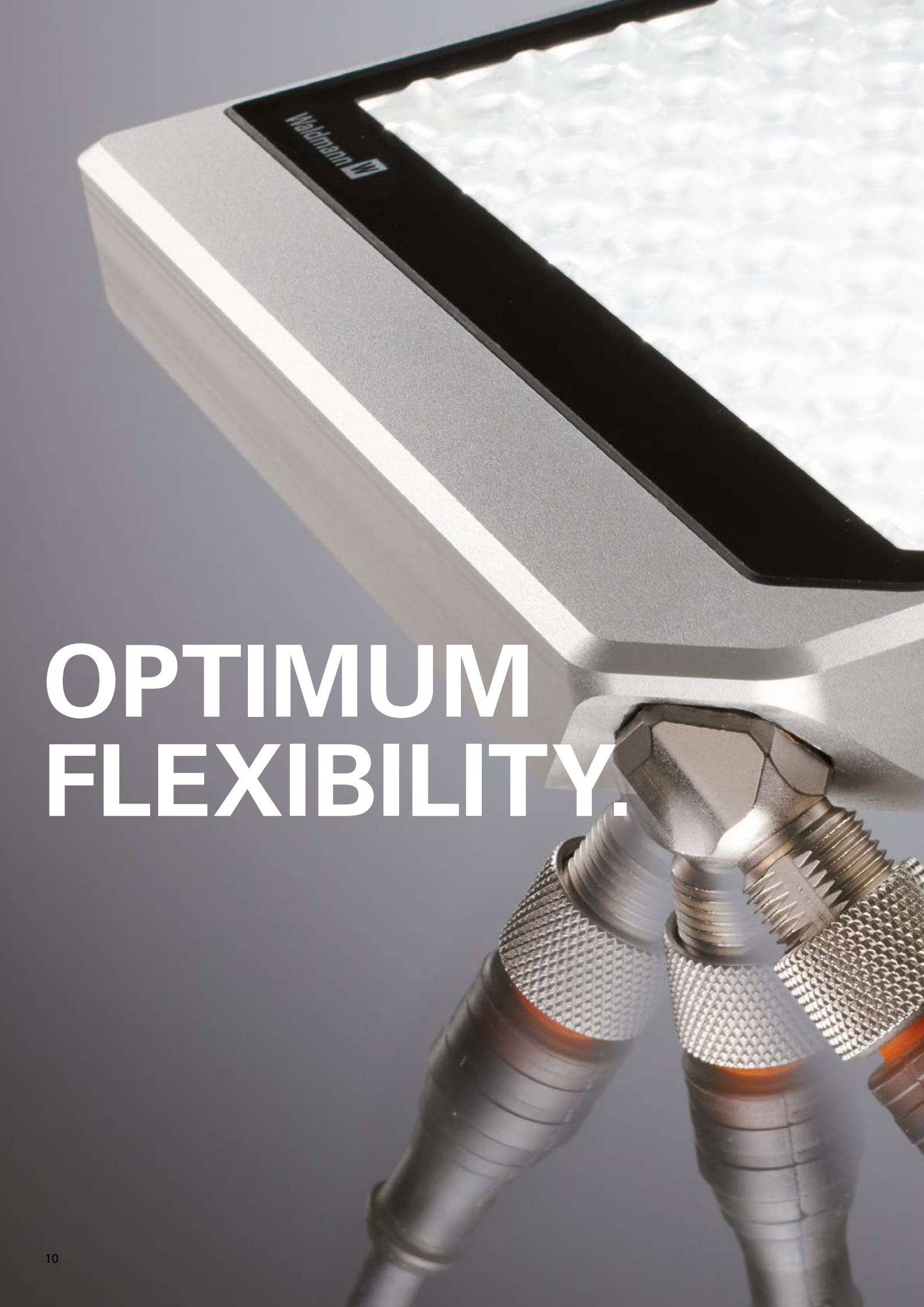
ACURIA.
BECAUSE ONE LEAK IS ONE TOO MANY.

ACURIA is milled from a solid billet without unnecessary seals. This means the luminaire 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 luminaires can be better protected against damage from chips. The optimised cable run of integrated machine luminaires 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)**



OPTIMUM RESILIENCE.

What's in it for you?

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

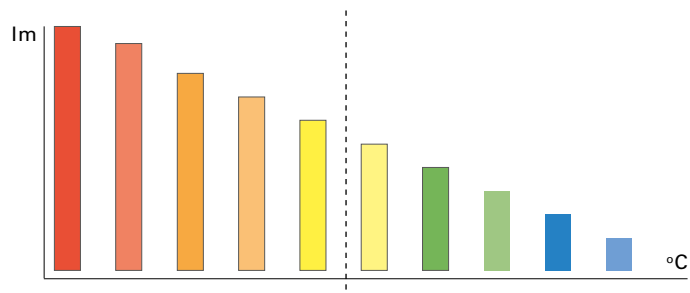
**ACURIA.
BECAUSE ANYONE CAN MAKE LUMINAIRES THAT WORK
UNDER IDEAL CONDITIONS.**

**Thanks to the use of coolant and lubricant-resistant
materials, luminaire 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 luminaire failures and reduced replacement costs when luminaires 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 minimised 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 stresses.**



OPTIMUM SIZE.

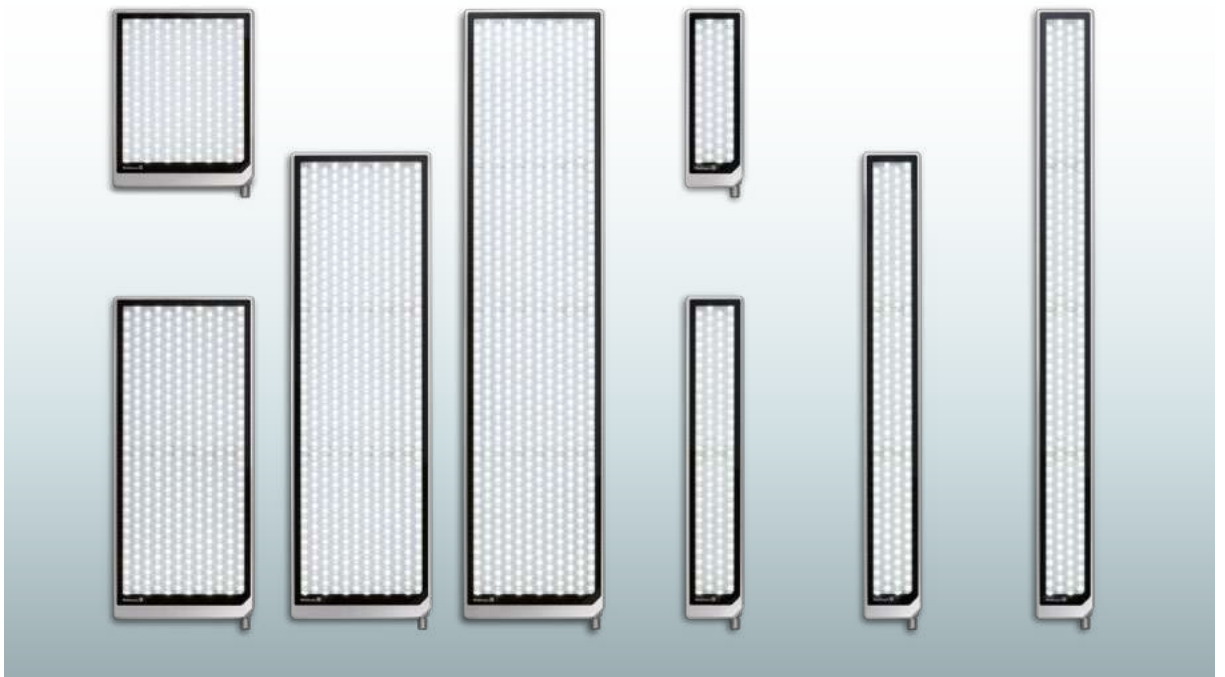


ACURIA.
BECAUSE THE RIGHT ONE FOR YOU IS RIGHT ON HAND.

In true Waldmann style, the wide range of luminaire 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 luminaire for your space and/or lighting needs**



OPTIMUM SHAPE.

With its extremely slim design, ACURIA is currently the flattest surface-mounted luminaire 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 luminaire 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 luminaire 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 MORE SAFELY 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.



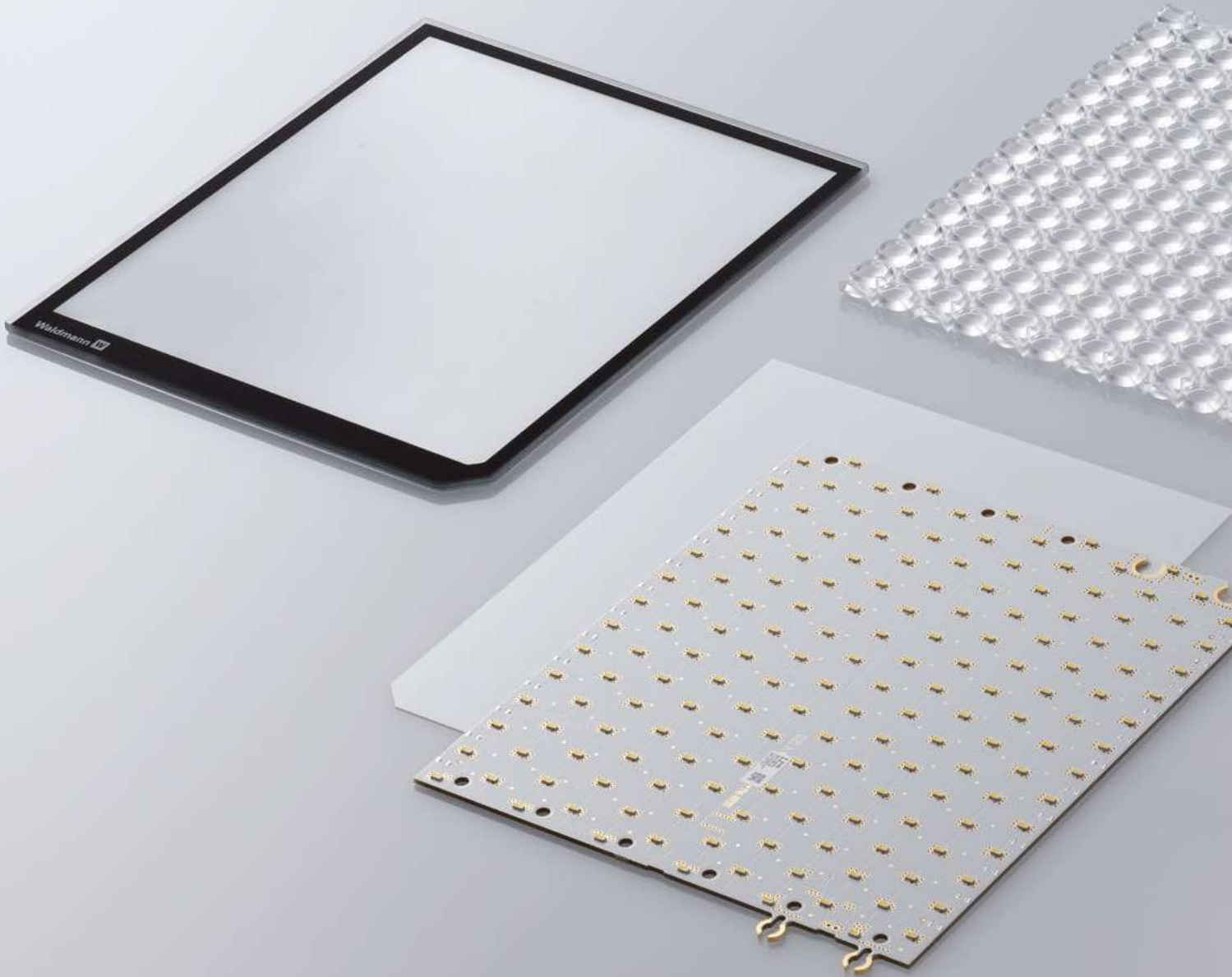
All developed in line with Waldmann's time-honoured principles: The simpler, the better. The classier, the better.

OPTIMUM SIMPLICITY.

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

Test certificate/manufacturer's declaration available on request.

OPTIMUM SOLUTIONS.



**ACURIA.
BECAUSE TECHNOLOGY CONNECTS.**

You deserve the best luminaire 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-sighted choice.



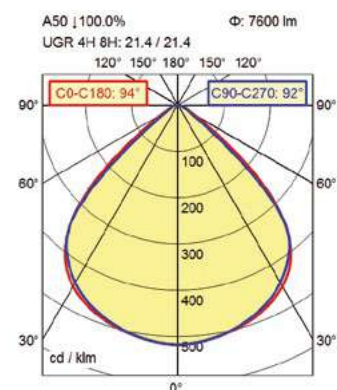
**CHOOSE QUALITY.
CHOOSE ACURIA.**

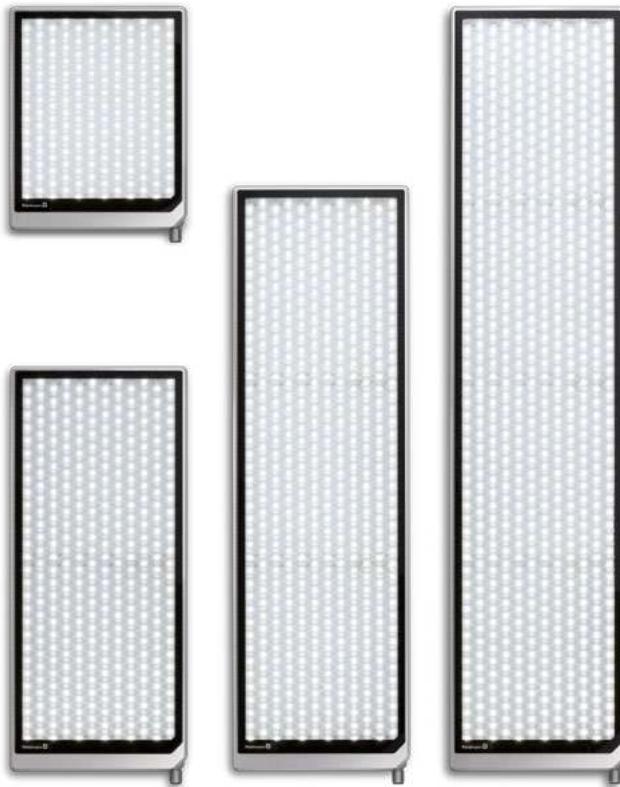
Contact us today to receive a quote or request a sample.

OPTIMUM TECHNOLOGY.

TECHNICAL SPECIFICATIONS

ACURIA MACHINE LUMINAIRE	
Light source	LED
LED service life	> 60,000 h (L70)
Beam angle	90°
Glare control	Focusing optic array
UGR rating	< 22
Colour temperature	5,000 K (neutral white)
Colour 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	Colourless anodised aluminium
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
Ta _{max}	50°C (thermal protection at Ta > 50°C)
System of protection	IP67
Certification	CE, cETLus

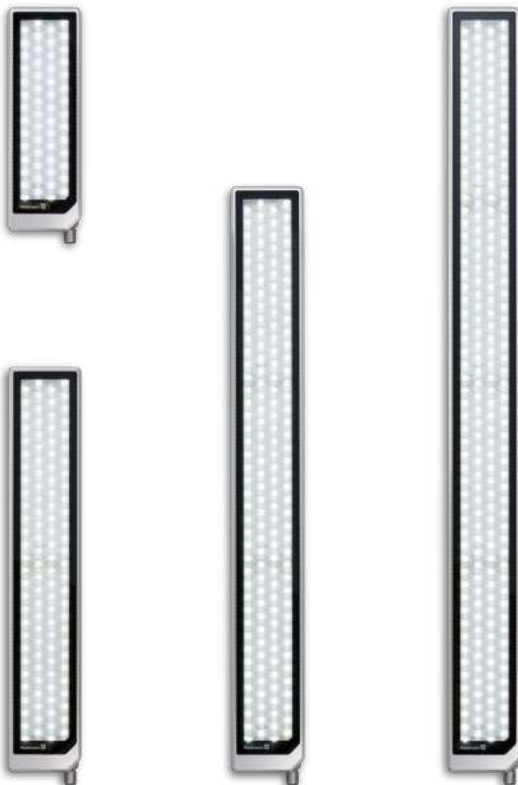




ACURIA. Luminaire sizes

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

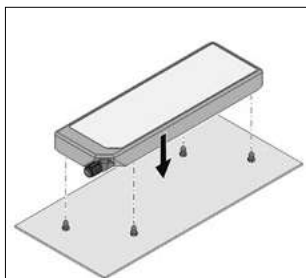
Machine integrated				
Width [mm]	178	178	178	178
Height [mm]	223	398	573	748



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.
6 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

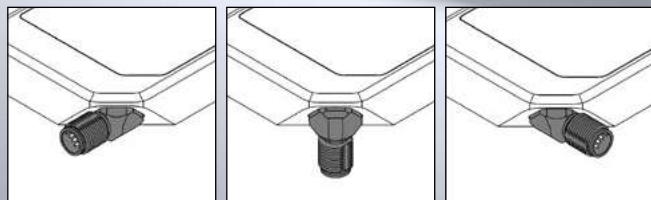
Consumption	Dimensions	Special feature	Luminous flux	Model	Order no.
6 W	223 x 78 mm	ADVANCED-Paket	700 lm	APE 720/850/MS	114318000-00806667
12 W	223 x 78 mm	ADVANCED-Paket	1.400 lm	APE 1400/850/MS	114318000-00806669
12 W	398 x 78 mm	ADVANCED-Paket	1.400 lm	APE 1450/850/MS	114319000-00806661
17 W	573 x 78 mm	ADVANCED-Paket	2.100 lm	APE 2200/850/MS	114320000-00806663
22 W	748 x 78 mm	ADVANCED-Paket	2.800 lm	APE 2900/850/MS	114321000-00806665
14 W	223 x 178 mm	ADVANCED-Paket	1.900 lm	APE 2000/850/MS	114322000-00806653
28 W	398 x 178 mm	ADVANCED-Paket	3.800 lm	APE 4000/850/MS	114323000-00806655
42 W	573 x 178 mm	ADVANCED-Paket	5.700 lm	APE 6000/850/MS	114324000-00806657
56 W	748 x 178 mm	ADVANCED-Paket	7.600 lm	APE 8000/850/MS	114325000-00806659



Waldmann 

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D-78056 Villingen-Schwenningen

AP-AUTOREGUL. 800 mA
24VDC 12-14VDC
P 67W 2-4.5 A
tam



THE LIGHT OF OPTIMUM PRODUCTION

ACURIA

ACURIA is the most precise machine light we have ever built as a machine light professional. With the most powerful, efficient lighting technology. With the best tightness. The safest protection against high temperatures. The best cable protection and the easiest installation. The simplest control and the most seamless integration. More precisely thought, more precisely shaped, more precisely built. A perfect combination of Waldmann know-how for industrial lighting and application-oriented design language by renowned product designer Dominic Schindler.










Overview of variants and technical data



Machine Tools



Integrated Manufacturing and Auditing
Systems (IAS)

Fitted with Power consumption	Operating device Connected load	Dimensions Special feature	Luminous flux		Model Order No.
LED 6 W	Without 24 V; DC	78 x 223 mm ADVANCED package	700 lm		APE 720/850/MS 00806667
LED 12 W	Without 24 V; DC	78 x 223 mm ADVANCED package	1400 lm		APE 1400/850/MS 00806669
LED 12 W	Without 24 V; DC	78 x 398 mm ADVANCED package	1400 lm		APE 1450/850/MS 00806661
LED 14 W	Without 24 V; DC	178 x 223 mm ADVANCED package	1900 lm		APE 2000/850/MS 00806653
LED 17 W	Without 24 V; DC	78 x 573 mm ADVANCED package	2100 lm		APE 2200/850/MS 00806663
LED 22 W	Without 24 V; DC	78 x 748 mm ADVANCED package	2800 lm		APE 2900/850/MS 00806665
LED 28 W	Without 24 V; DC	178 x 398 mm ADVANCED package	3800 lm		APE 4000/850/MS 00806655
LED 42 W	Without 24 V; DC	178 x 573 mm ADVANCED package	5700 lm		APE 6000/850/MS 00806657
LED 56 W	Without 24 V; DC	178 x 748 mm ADVANCED package	7600 lm		APE 8000/850/MS 00806659

Accessoires



Connection cable for ACURIA

Description	Connector type	Order No.
3 m lead, 5 x 0.5 mm ²	M12 socket: Straight; 5 -pole; A-coded	336703010 - 00582109
7 m lead, 5 x 0.5 mm ²	M12 socket: Straight; 5 -pole; A-coded	336703020 - 00543341



Operating device

Power	Connection	Special feature	Order No.
30 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	clip for hat rail	309537010 - 00670453



Operating device

Power	Connection	Special feature	Order No.
100 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	–	309538010 - 00670456



Operating device

Power	Connection	Special feature	Order No.
100 W	220 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	IP67	309581010 - 00805600

* Each luminaire requires at least two brackets

** TW: Through-wired (for daisy-chaining several luminaires)

Mounting and Control

OPTIMUM SIMPLICITY.

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.

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

Test certificate/manufacture's declaration available on request.

What's in it for you?

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

OPTIMUM SOLUTIONS.

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Overview of variants and technical data












Machine Tools



Integrated Manufacturing and Auditing
Systems (IAS)



ACURIA with snap-in mechanism for tool-free and quick mounting on or in the machine wall

Fitted with Power consumption	Operating device Connected load	Dimensions Special feature	Luminous flux	Model Order No.
LED 6 W	Without 24 V; DC	70 x 215 mm ADVANCED package	700 lm	 APA 720/850/MS 00806651
LED 12 W	Without 24 V; DC	70 x 215 mm ADVANCED package	1400 lm	 APA 1400/850/MS 00806668
LED 12 W	Without 24 V; DC	70 x 390 mm ADVANCED package	1400 lm	 APA 1450/850/MS 00806645
LED 14 W	Without 24 V; DC	170 x 215 mm ADVANCED package	1900 lm	 APA 2000/850/MS 00806633
LED 17 W	Without 24 V; DC	70 x 565 mm ADVANCED package	2100 lm	 APA 2200/850/MS 00806647
LED 22 W	Without 24 V; DC	70 x 740 mm ADVANCED package	2800 lm	 APA 2900/850/MS 00806649
LED 28 W	Without 24 V; DC	170 x 390 mm ADVANCED package	3800 lm	 APA 4000/850/MS 00806635
LED 42 W	Without 24 V; DC	170 x 565 mm ADVANCED package	5700 lm	 APA 6000/850/MS 00806638
LED 56 W	Without 24 V; DC	170 x 740 mm ADVANCED package	7600 lm	 APA 8000/850/MS 00806643



ACURIA screw variants for special retrofits using M5 screws

Fitted with Power consumption	Operating device Connected load	Dimensions Special feature	Luminous flux	Model Order No.
LED 6 W	Without 24 V; DC	70 x 227,5 mm ADVANCED package	700 lm	 APA 720/850/MS 00811563
LED 12 W	Without 24 V; DC	70 x 227,5 mm ADVANCED package	1400 lm	 APA 1400/850/MS 00811565
LED 12 W	Without 24 V; DC	70 x 402,5 mm ADVANCED package	1400 lm	 APA 1450/850/MS 00811567
LED 14 W	Without 24 V; DC	170 x 227,5 mm ADVANCED package	1900 lm	 APA 2000/850/MS 00811569
LED 17 W	Without 24 V; DC	70 x 577,5 mm ADVANCED package	2100 lm	 APA 2200/850/MS 00811571
LED 22 W	Without 24 V; DC	70 x 752,5 mm ADVANCED package	2800 lm	 APA 2900/850/MS 00811573
LED 28 W	Without 24 V; DC	170 x 402,5 mm ADVANCED package	3800 lm	 APA 4000/850/MS 00811575
LED 42 W	Without 24 V; DC	170 x 577,5 mm ADVANCED package	5700 lm	 APA 6000/850/MS 00811514
LED 56 W	Without 24 V; DC	170 x 752,5 mm ADVANCED package	7600 lm	 APA 8000/850/MS 00811916

Accessoires



Connection cable for ACURIA

Description	Connector type	Order No.
3 m lead, 5 x 0.5 mm ²	M12 socket: Straight; 5 -pole; A-coded	336703010 - 00582109
7 m lead, 5 x 0.5 mm ²	M12 socket: Straight; 5 -pole; A-coded	336703020 - 00543341



Operating device

Power	Connection	Special feature	Order No.
30 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	clip for hat rail	309537010 - 00670453



Operating device

Power	Connection	Special feature	Order No.
100 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	–	309538010 - 00670456



Operating device

Power	Connection	Special feature	Order No.
100 W	220 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	IP67	309581010 - 00805600

Mounting and Control

OPTIMUM SIMPLICITY.

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. For special applications, we have developed an alternative screwable variant for you.

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

Test certificate/manufacturer's declaration available on request.

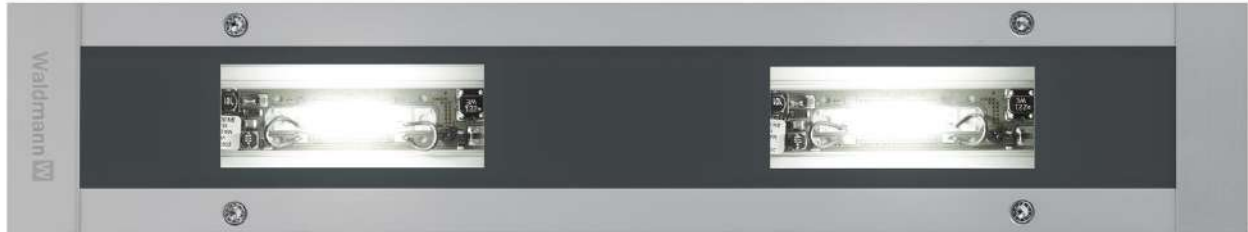
What's in it for you?

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

OPTIMUM SOLUTIONS.

You deserve the best luminaire 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-sighted choice.

MACH LED PRO - Incredibly variable, can be unobtrusively integrated



The MACH LED PRO model series embodies absolute variability in terms of area lighting. Even though the machine design requirements tend to be individual, they are not necessarily tailored to the luminaire.

This is taken into account in the MACH LED PRO by designs of different lengths with 1, 2, 3 or 4 LEDs and two beam angles of 30 ° and 95 °. This means that the luminaire practically disappears inside the machine wall thanks to the unique construction principle.

Overview of variants

- LED technology
- Colour temperature neutral white 5 000 K
- Colour rendering $R_a > 80$
- Beam angle 30 ° (optics) or 95 ° (without optics)
- Housing made of colourless anodised aluminium
- 4 mm thick safety glass
- Mounted in recess with screws
- Maximum allowed ambient temperature $T_{a_{max}} 40\text{ ° C}$
- LED service life (L70) $> 50\,000\text{ h}$
- Degree of protection IP67, protection class III









- Supplied with approx. 3 m connecting cable and free stranded wires
- Operating device as accessories for connection to the mains voltage
- Also available as a **surface-mounted luminaire**



Woodworking Machines



Integrated Manufacturing and Auditing
Systems (IAS)

Fitted with Power consumption	Operating device Connected load	Dimensions Special feature	Luminous flux		Model Order No.
LED 6 W	Without 20-28 V; DC	220 x 74 mm beam angle 30°	410 lm		MUEL 1 S 00084579
LED 6 W	Without 20-28 V; DC	220 x 74 mm	400 lm		MUEL 1 S 00085216
LED 12 W	Without 20-28 V; DC	395 x 74 mm beam angle 30°	820 lm		MUEL 2 S 00085220
LED 12 W	Without 20-28 V; DC	395 x 74 mm	800 lm		MUEL 2 S 00085224
LED 18 W	Without 20-28 V; DC	570 x 74 mm beam angle 30°	1230 lm		MUEL 3 S 00085227
LED 18 W	Without 20-28 V; DC	570 x 74 mm	1200 lm		MUEL 3 S 00085228
LED 24 W	Without 20-28 V; DC	745 x 74 mm beam angle 30°	1640 lm		MUEL 4 S 00085275
LED 24 W	Without 20-28 V; DC	745 x 74 mm	1600 lm		MUEL 4 S 00085276

Accessories



Operating device

Power	Connection	Special feature	Order No.
30 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	clip for hat rail	309537010 - 00670453



Operating device

Power	Connection	Special feature	Order No.
100 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	–	309538010 - 00670456



Operating device

Power	Connection	Special feature	Order No.
100 W	220 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	IP67	309581010 - 00805600

MACH LED PRO - Surprisingly strong, surprisingly flat



MACH LED PRO is an extremely flat machine luminaire family with several length variants. Waldmann has developed this optimum solution for situations with a lack of positioning options for lighting in machines and production facilities.

MACH LED PRO is ideal for many lighting tasks – whether you require light dispersed over a large area or focused lighting.

- Maintenance-free LED technology
- Strong high-power LEDs for maximum light
- With narrow- or wide-beam illumination characteristic, as desired
- Robust aluminium housing with solid safety glass screen
- High degree of protection
- Chemically resistant to many media such as oils or cooling lubricants
- Ideal for high mechanical and thermal stress
- Direct connection to machine voltage

Overview of variants

- LED technology
- Colour temperature neutral white 5 000 K
- Colour rendering Ra > 80









- Beam angle 30 ° (optics) or 95 ° (without optics)
- Housing made of colourless anodised aluminium
- 4 mm thick safety glass
- Screw-mounted
- Maximum allowed ambient temperature Tamax 40 ° C
- LED service life (L70) > 50 000 h
- Degree of protection IP67, protection class III
- Supplied with approx. 3 m connecting cable and free stranded wires
- Operating device as accessories for connection to the mains voltage
- Also available as an **integrated machine luminaire**



Woodworking Machines



Integrated Manufacturing and Auditing
Systems (IAS)

Fitted with Power consumption	Operating device Connected load	Dimensions Special feature	Luminous flux		Model Order No.
LED 6 W	Without 20-28 V; DC	220 mm beam angle 30°	410 lm		MUAL 1 S 00079042
LED 6 W	Without 20-28 V; DC	220 mm	400 lm		MUAL 1 S 00082186
LED 12 W	Without 20-28 V; DC	395 mm beam angle 30°	820 lm		MUAL 2 S 00082456
LED 12 W	Without 20-28 V; DC	395 mm	800 lm		MUAL 2 S 00082511
LED 18 W	Without 20-28 V; DC	570 mm beam angle 30°	1230 lm		MUAL 3 S 00082788
LED 18 W	Without 20-28 V; DC	570 mm	1200 lm		MUAL 3 S 00082820
LED 24 W	Without 20-28 V; DC	745 mm beam angle 30°	1640 lm		MUAL 4 S 00082844
LED 24 W	Without 20-28 V; DC	745 mm	1600 lm		MUAL 4 S 00082846

Accessories



Operating device

Power	Connection	Special feature	Order No.
30 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	clip for hat rail	309537010 - 00670453



Operating device

Power	Connection	Special feature	Order No.
100 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	–	309538010 - 00670456



Operating device

Power	Connection	Special feature	Order No.
100 W	220 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	IP67	309581010 - 00805600

FLAT LED - LED technology ingeniously integrated



FLAT LED is highly suitable for integration into the increasingly more compact machines, because this integrated machine luminaire is particularly small and powerful. Its 6 LEDs provide optimum area light in spite of its compressed construction and low integration depth.

- Maintenance-free LED technology
- Strong high-power LEDs for maximum light
- Robust aluminium housing with safety glass screen
- High degree of protection
- Chemically resistant to many media such as oils or cooling lubricants
- Ideal for high mechanical and thermal stress
- Nearly flush-mounted installation
- Prevents accumulation of chips
- Direct connection to machine voltage

Overview of variants

- LED technology
- Colour temperature daylight white 5 500 K
- Colour rendering $R_a \geq 80$


- Beam angle 30 °
- Housing made of black anodised aluminium
- 4 mm thick safety glass
- Mounted in recess with screws
- Maximum allowed ambient temperature Tamax 40 ° C
- LED service life (L70) > 50 000 h
- Degree of protection IP67 and IPX9K, protection class III
- Supplied with approx. 3 m connecting cable and free stranded wires
- Operating device as accessories for connection to the mains voltage
- Also available as a **surface-mounted luminaire**



Woodworking Machines



Integrated Manufacturing and Auditing
Systems (IAS)

Fitted with Power consumption	Operating device Connected load	Dimensions Special feature	Luminous flux	Model Order No.
6 x LED 13 W	Without 10-40 V; DC	284 x 74 mm	890 lm	 MYEL 6 S 00003166

Accessories



Operating device

Power	Connection	Special feature	Order No.
30 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	clip for hat rail	309537010 - 00670453



Operating device

Power	Connection	Special feature	Order No.
100 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	–	309538010 - 00670456



Operating device

Power	Connection	Special feature	Order No.
100 W	220 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	IP67	309581010 - 00805600

FLAT LED - Stroke of genius in a flat design



FLAT LED is a convincingly flat solution – for cases where it is not possible to integrate the luminaire into the machine wall. To avoid significantly changing the interference contour, even in compact workrooms, or in blind spots of production facilities,

the luminaire compresses the maximum luminous power to the flattest possible space, using a combination of 6 high-power LEDs and Waldmann's special optics technology, which evenly disperses the beam over the entire area.

- Maintenance-free LED technology
- Strong high-power LEDs for maximum light
- Robust aluminium housing with solid safety glass screen
- High degree of protection
- Chemically resistant to many media such as oils or cooling lubricants
- Ideal for high mechanical and thermal stress
- Direct connection to machine voltage

Overview of variants

- 6 x HIGH POWER LED


- Color temperature daylight white 5 500 K
- 30° angle of illumination
- Black aluminum anodized housing, 4 mm thick safety glass
- Screw-mounted
- Without switch
- System of protection IP67 and IPX9K in accordance with DIN 40050-9; class of protection III
- Supplied with 3 m mains lead and free stranded wires
- Bracket angle to adjust the luminaire and driver to connect to the mains voltage as accessories
- Also available as an **integrated machine luminaire**



Woodworking Machines



Integrated Manufacturing and Auditing
Systems (IAS)

Fitted with Power consumption	Operating device Connected load	Dimensions Special feature	Luminous flux	Model Order No.
6 x LED 13 W	Without 10-40 V; DC	284 x 74 mm	890 lm	 MYAL 6 S 00003069

Accessories



Luminaire bracket

Colour	Special feature	Order No.
-	adjustable	203081019 - 00019478



Operating device

Power	Connection	Special feature	Order No.
30 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	clip for hat rail	309537010 - 00670453



Operating device

Power	Connection	Special feature	Order No.
100 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	–	309538010 - 00670456



Operating device

Power	Connection	Special feature	Order No.
100 W	220 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	IP67	309581010 - 00805600

LUMATRIS - Evolution in machine lighting



LUMATRIS brings the latest LED technology to medium- and large-sized machines. Waldmann knows that in mechanical engineering competitive ability equals the sum of innovative components and functions. LUMATRIS transforms the spot light characteristics of LEDs economically into an extremely homogeneous area light.

- Maintenance-free LED technology
- Particularly resource-saving variants with Eco mode
- Wide-beam light characteristics
- Variants with Light Forming Technology for optimum light deflection and glare-free lighting
- Robust aluminium housing with solid safety glass screen
- Die-cast side parts
- High degree of protection
- Chemically resistant to many media such as oils or cooling lubricants
- Ideal for high mechanical and thermal stress
- Direct connection to machine voltage
- Lateral or rear connection by means of M12 plug connector

Overview of variants

- LED technology
- Colour temperature daylight white 5 600 K
- Colour rendering Ra > 80
- Glare-free thanks to diffuser or Light Forming Technology
- Housing made of colourless anodised aluminium and die-cast side parts painted in silver
- 4 mm thick safety glass
- Screw-mounted or mounted by means of various fasteners from the range of accessories
- Maximum allowed ambient temperature $T_{a_{max}}$:
 - Luminaire width 170 mm: 60 ° C (Standard) or 40 ° C (Power)
 - Luminaire width 95 mm: 55 ° C
- LED service life (L70) > 50 000 h
- Degree of protection IP68-1m and IPX9K, protection class III
- Connection via M12 connector, A-coded
- Various fasteners, M12 connection technology and operating devices as accessories for connection to the mains voltage





Woodworking Machines



Integrated Manufacturing and Auditing
Systems (IAS)

LUMATRIS



Luminaire width 95 mm

Fitted with Power consumption	Operating device Connected load	Dimensions Special feature	Luminous flux	Model Order No.
LED 8 W	Without 22-26 V; DC	246 x 95 mm Light forming Connection on the rear side	570 lm	 MSAL 24 S 00596788
LED 8 W	Without 22-26 V; DC	246 x 95 mm Diffuser Connection on the side	550 lm	 MSAL 24 S 00596791

LED 8 W	Without 22-26 V; DC	246 x 95 mm Diffuser Connection on the rear side	550 lm		MSAL 24 S 00596794
LED 16 W	Without 22-26 V; DC	420 x 95 mm Light forming Connection on the side	1140 lm		MSAL 48 S 00596761
LED 16 W	Without 22-26 V; DC	420 x 95 mm Light forming Connection on the rear side	1140 lm		MSAL 48 S 00596803
LED 16 W	Without 22-26 V; DC	420 x 95 mm Diffuser Connection on the side	1100 lm		MSAL 48 S 00596806
LED 16 W	Without 22-26 V; DC	420 x 95 mm Diffuser Connection on the rear side	1100 lm		MSAL 48 S 00596809
LED 24 W	Without 22-26 V; DC	596 x 95 mm Light forming Connection on the side	1710 lm		MSAL 72 S 00596764
LED 24 W	Without 22-26 V; DC	596 x 95 mm Light forming Connection on the rear side	1710 lm		MSAL 72 S 00596857
LED 24 W	Without 22-26 V; DC	596 x 95 mm Diffuser Connection on the side	1650 lm		MSAL 72 S 00596862
LED 24 W	Without 22-26 V; DC	596 x 95 mm Diffuser Connection on the rear side	1650 lm		MSAL 72 S 00596870
LED 32 W	Without 22-26 V; DC	770 x 95 mm Light forming Connection on the side	2280 lm		MSAL 96 S 00596767
LED 32 W	Without 22-26 V; DC	770 x 95 mm Light forming Connection on the rear side	2280 lm		MSAL 96 S 00596874
LED 32 W	Without 22-26 V; DC	770 x 95 mm Diffuser Connection on the side	2200 lm		MSAL 96 S 00596877
LED 32 W	Without 22-26 V; DC	770 x 95 mm Diffuser Connection on the rear side	2200 lm		MSAL 96 S 00596880

LUMATRIS

Luminaire width 170 mm

Fitted with Power consumption	Operating device Connected load	Dimensions Special feature	Luminous flux	Model Order No.
LED 50 W	Without 22-26 V; DC	770 x 170 mm Eco mode Light forming Connection on the rear side	3800 lm	 MSAL 180 S 00499493
LED 50 W	Without 22-26 V; DC	770 x 170 mm Diffuser Eco mode Connection on the rear side	3760 lm	 MSAL 180 S 00608677

LED 50 W	Without 22-26 V; DC	770 x 170 mm Diffuser Eco mode Connection on the side	3760 lm	 MSAL 180 S 00608680
LED 50 W	Without 22-26 V; DC	770 x 170 mm Eco mode Light forming Connection on the side	3800 lm	 MSAL 180 S 00511140
LED 25 W	Without 22-26 V; DC	420 x 170 mm Eco mode Light forming Connection on the rear side	1900 lm	 MSAL 90 S 00499489
LED 25 W	Without 22-26 V; DC	420 x 170 mm Diffuser Eco mode Connection on the side	1880 lm	 MSAL 90 S 00608666
LED 25 W	Without 22-26 V; DC	420 x 170 mm Diffuser Eco mode Connection on the rear side	1880 lm	 MSAL 90 S 00608673
LED 25 W	Without 22-26 V; DC	420 x 170 mm Eco mode Light forming Connection on the side	1900 lm	 MSAL 90 S 00514271

Accessories



Mounting frame

Colour	Special feature	Order No.
silver-grey	for luminaire size 246 x 95 mm	408001016 - 00595619
silver-grey	for luminaire size 420 x 95 mm	408001017 - 00595613
silver-grey	for luminaire size 596 x 95 mm	408001018 - 00595610
silver-grey	for luminaire size 770 x 95 mm	408001019 - 00595616
silver-grey	for luminaire size 420 x 170 mm	408001037 - 00518121
silver-grey	for luminaire size 770 x 170 mm	408001034 - 00514265



Luminaire bracket set

Colour	Special feature	Order No.
silver-grey	for luminaire width 95 mm	408001015 - 00595587
silver-grey	for luminaire width 170 mm	408001035 - 00514268



Pivoting head

Colour	Special feature	Order No.
silver-grey	adjustable	408001033 - 00514262



Connection socket for LUMATRIS (> 48W)

Description	Connector type	Order No.
Cable passage 6 - 8 mm, wires $\leq 1.5 \text{ mm}^2$	M12 socket: Straight; 5-pole; A-coded	336882010 - 00597541



Connection socket for LUMATRIS (< 48W)

Description	Connector type	Order No.
Cable passage 4 - 8 mm, wires $\leq 0.75 \text{ mm}^2$	M12 socket: Straight; 5-pole; A-coded	336615019 - 00522018



Connection cable for LUMATRIS (> 48 W)

Description	Connector type	Order No.
3 m lead, 5 x 1.0 mm ²	M12 socket: Straight; 5 -pole; A-coded	336890010 - 00598058
7 m lead, 5 x 1.0 mm ²	M12 socket: Straight; 5 -pole; A-coded	336890020 - 00598063



Connection cable for LUMATRIS (< 48W)

Description	Connector type	Order No.
3 m lead, 5 x 0.5 mm ²	M12 socket: Straight; 5 -pole; A-coded	336703010 - 00582109
7 m lead, 5 x 0.5 mm ²	M12 socket: Straight; 5 -pole; A-coded	336703020 - 00543341



Operating device

Power	Connection	Special feature	Order No.
30 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	clip for hat rail	309537010 - 00670453



Operating device

Power	Connection	Special feature	Order No.
100 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	–	309538010 - 00670456



Operating device

Power	Connection	Special feature	Order No.
100 W	220 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	IP67	309581010 - 00805600

MKEL - LED cleverly packaged







MKEL meets the particularly high requirements of the foodstuff industry. The LED integrated machine luminaire is used in packaging machines where it prevents accumulation of dirt and is distinguished by its resistance to agents for sterilising packages or the machine.

- Maintenance-free LED technology
- Robust aluminium housing with plastic screen
- Self-adhesive seal
- High degree of protection
- Chemically resistant to many media such as cleaning and sterilising agents
- Ideal for high thermal stress
- Nearly flush-mounted installation
- Prevents accumulation of dirt
- Direct connection to machine voltage
- M12 plug connector

Overview of variants

- LED technology

- Colour temperature neutral white 5 000 K
- Colour rendering Ra > 80
- Glare-free thanks to satined screen
- Aluminium housing
- PC screen
- Installation in recess by means of self-adhesive seal and additional fastening screws
- Maximum allowed ambient temperature Tamax 60 ° C
- LED service life (L70) > 25,000 h
- Degree of protection IP67, protection class III
- Connection via M12 connector, A-coded
- M12 connection technology and operating devices as accessories for connection to the mains voltage

Fitted with Power consumption	Operating device Connected load	Dimensions Special feature	Luminous flux		Model Order No.
LED 5 W	Without 20-28 V; DC	215 mm	460 lm		MKEL 12 S 00680762
LED 10,5 W	Without 20-28 V; DC	390 mm	1020 lm		MKEL 27 S 00680765
LED 16 W	Without 20-28 V; DC	535 mm	1580 lm		MKEL 42 S 00650048
LED 21,5 W	Without 20-28 V; DC	710 mm	2140 lm		MKEL 57 S 00650105

Accessories



Connection socket

Description	Connector type	Order No.
Cable passage 4 - 8 mm, wires ≤ 0.75 mm ²	M12 socket: Straight; 5-pole; A-coded	336615019 - 00522018



Connection cable

Description	Connector type	Order No.
3 m lead, 5 x 0.5 mm ²	M12 socket: Straight; 5 -pole; A-coded	336703010 - 00582109
7 m lead, 5 x 0.5 mm ²	M12 socket: Straight; 5 -pole; A-coded	336703020 - 00543341



Operating device

Power	Connection	Special feature	Order No.
30 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	clip for hat rail	309537010 - 00670453



Operating device

Power	Connection	Special feature	Order No.
100 W	100 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	–	309538010 - 00670456



Operating device

Power	Connection	Special feature	Order No.
100 W	220 – 240 V, 50 / 60 Hz; 24 VDC constant voltage	IP67	309581010 - 00805600

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