















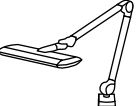



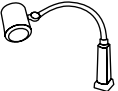




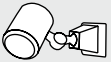





PIVOTING-HEAD LUMINAIRES

Pivoting-head luminaires are mainly suitable for error-free and safe adjustment and maintenance work. The direct and focused light can be individually positioned within the processing area.



ABL		  IP67	104 - 105	Integrated machine luminaires 
SPOT LED	 	  IP67	106 - 107	Surface-mounted luminaires 
HSW 20		  IP65	108 - 109	Tube luminaires 
HSW 75		  IP65	110 - 111	Arm-mounted luminaires 
MHW		  IP65	112 - 113	Flexible-tube luminaires 
HI 20		   IP20	114 - 115	Pivoting-head luminaires 
HGL		  IP20	116 - 117	

ABL

EVERYTHING ON THE INSIDE. EVERYTHING ON THE OUTSIDE.

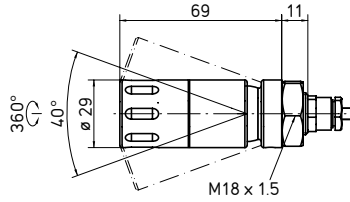


Even though it sounds contradictory: The ABL is so small because it performs a big and important task. With its compact dimensions and the integrated ball joint, it brings light to places where it seems almost impossible, but where it is urgently needed .

- High luminous power
- Fast and precise positioning
- Variants with narrow and wide angles of illumination
- Minimal design
- Low energy consumption
- Insensitive to vibrations, resistant to metal chippings
- High system of protection
- Maintenance-free: LED life of up to 50,000 hours and more

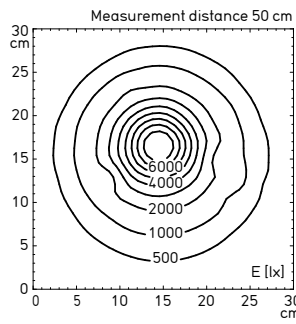


efficient *light*

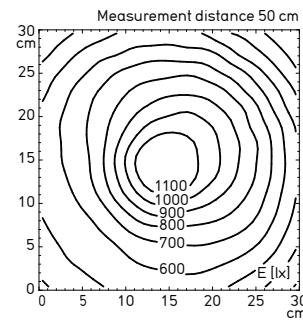


Features at a glance

- 1 x HIGH POWER LED
- Color temperature daylight white 6,000 K
- 6° or 25° angle of illumination
- Black anodized aluminum housing, 2 mm thick safety glass
- Ball joint for individual adjustments
- Without switch
- System of protection IP67; class of protection III
- Supplied with 1.5 m mains lead and free stranded wires
- Various operating devices as accessories



Illuminance with 6° lens



Illuminance with 25° lens

Integrated machine luminaires



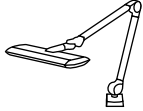
Surface-mounted luminaires



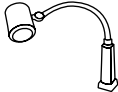
Tube luminaires



Arm-mounted luminaires



Flexible-tube luminaires



Pivoting-head luminaires



CONNECTION TO A CONSTANT POWER SOURCE WITH 350 OR 700 MA

CONSUMPTION	OPERATING DEVICE	CONNECTED LOAD	SPECIAL FEATURE	E_m/E_{max} *	MODEL	ORDER NO.
3 W	-	Dependent on the ballast	6° lens	1219/8966 lx ¹	ABLL 1	112 353 000 - 000 412 01
3 W	-	Dependent on the ballast	25° lens	691/1260 lx ¹	ABLL 1	112 353 001 - 000 419 41

* E_m = medium illuminance; E_{max} = maximum illuminance; ¹ Measuring range 30 cm x 30 cm/Measuring distance 50 cm
 Also available as a flexible-tube luminaire

SPOT LED



THE ULTRA POWERFUL LED LUMINAIRE.



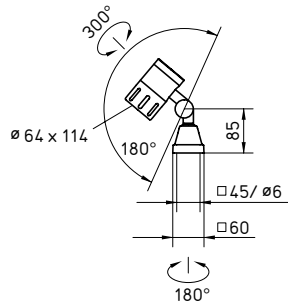
Probably the easiest and most convenient way to install light in small machine tools is called SPOT LED. Its strong, but energy-saving LEDs provide spot or area lighting depending on the variant you choose: The fact that the luminaire can be easily and quickly attached to the machine wall thanks to the magnet that comes as an accessory means that you can rapidly generate light where you need it – thanks to its compact design, even close to the tool.

- Very bright with low energy consumption
- Variants with narrow and wide angles of illumination
- Easy, fast and flexible installation
- Absolutely even and flicker-free light for added safety
- Without heat development in the beam direction
- Adjustable beam direction
- Unlimited functionality irrespective of fluctuations of mains voltage
- High system of protection
- Maintenance-free: LED life of up to 50,000 hours and more



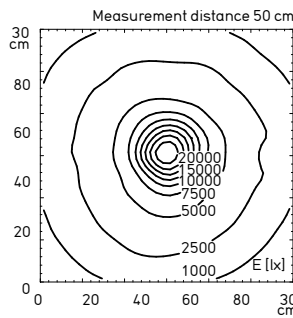


efficient *light*

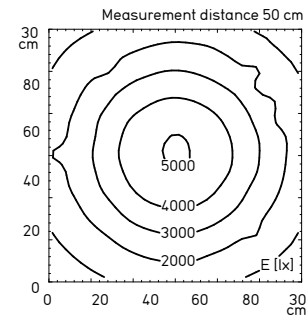


Features at a glance

- 3 x HIGH POWER LED
- Color temperature daylight white 5,700 K
- 10° or 40° angle of illumination
- Black anodized aluminum housing, 3 mm thick safety glass
- Head joint for individual adjustments
- Without switch
- System of protection IP67; class of protection III
- Supplied with 3 m mains lead and free stranded wires
- Various fastenings and operating devices for connecting to the mains voltage as accessories



Illuminance with 10° lens



Illuminance with 40° lens

Integrated machine luminaires



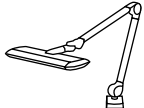
Surface-mounted luminaires



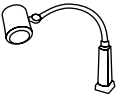
Tube luminaires



Arm-mounted luminaires



Flexible-tube luminaires



Pivoting-head luminaires



CONSUMPTION	OPERATING DEVICE	CONNECTED LOAD	SPECIAL FEATURE	E_m/E_{max}^*	MODEL	ORDER NO.
6 W	-	16 – 30 VAC/16 – 40 VDC	10° lens	3358/22350 lx ¹	MCXFL 3 S	112 459 004 - 000 829 50
6 W	-	16 – 30 VAC/16 – 40 VDC	40° lens	2539/5095 lx ¹	MCXFL 3 S	112 459 006 - 000 878 99

* E_m = medium illuminance; E_{max} = maximum illuminance; ¹ Measuring range 30 cm x 30 cm/Measuring distance 50 cm

Also available as an arm-mounted luminaire, flexible-tube luminaire, integrated machine luminaire and surface-mounted luminaire

HSW 20

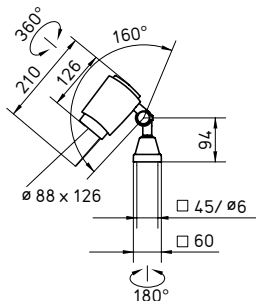
SPOT LIGHTING: THIS IS WHAT EXCELLENT LIGHT LOOKS LIKE.



Irrespective of whether there is a narrow or a wide beam characteristic: If an excellent spot light is needed in the machine, the HSW 20 is the right choice. For a halogen luminaire it remains incredibly cool and easy to handle. No burning in of cooling agents.

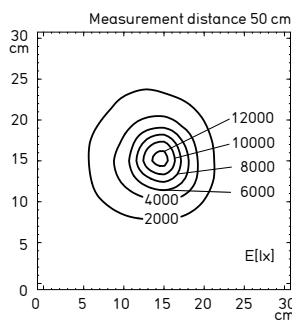
- Brilliant halogen light
- Glare-free thanks to metal louver
- Variants with narrow and wide angles of illumination
- Easy changing of illuminant

- Low temperatures in the beam direction thanks to twin glass screen
- High system of protection

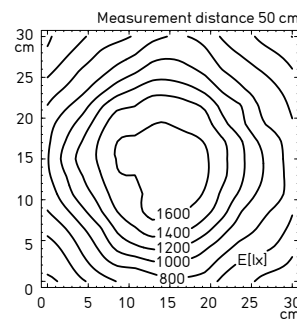


Features at a glance

- Halogen lamp
- Color temperature warm white 2,800 K (23 W) or 3,100 K (20 W)
- Glare-free thanks to metal louver, angle of illumination 10° or 36°
- Luminaire head of special black plastic, twin glass screen
- Head joint for individual adjustments
- Without switch
- System of protection IP65; class of protection I
- Supplied with 1.5 m mains lead and free stranded wires
- Various fastenings and transformers for connecting to the mains voltage as accessories

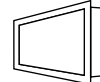


Illuminance with 10° angle of illumination (112 081 000 - 000 781 97)

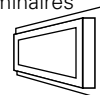


Illuminance with 36° angle of illumination (112 081 012 - 000 781 99)

Integrated machine luminaires



Surface-mounted luminaires



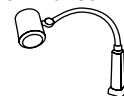
Tube luminaires



Arm-mounted luminaires



Flexible-tube luminaires



Pivoting-head luminaires



FITTED WITH	OPERATING DEVICE	CONNECTED LOAD	SPECIAL FEATURE	E_m/E_{max}^*	MODEL	ORDER NO.
1 x 23 W	–	24 VAC/DC	10° angle of illumination	1568/14550 lx ¹	HSWK 20	112 081 010 - 000 781 98
1 x 20 W	–	12 VAC/DC	10° angle of illumination	1295/12740 lx ¹	HSWK 20	112 081 000 - 000 781 97
1 x 20 W	–	12 VAC/DC	36° angle of illumination	959/1698 lx ¹	HSWK 20	112 081 012 - 000 781 99

* E_m = medium illuminance; E_{max} = maximum illuminance; ¹ Measuring range 30 cm x 30 cm/Measuring distance 50 cm
 Also available as an arm-mounted and flexible-tube luminaire

HSW 75

A HEAD FULL OF IDEAS.

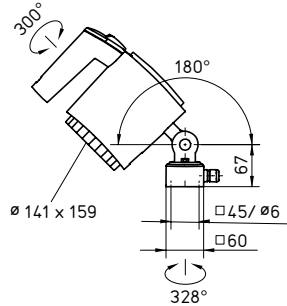
The HSW 75 is one of Waldman's strongest halogen luminaires. The fact that it is positioned on a jointed head enables space-saving attachment to the machine:

The resulting flexibility means that your light illuminates the processing area in a safe, glare-free and focused manner.

- Flexible, strong spot light
- Glare-free

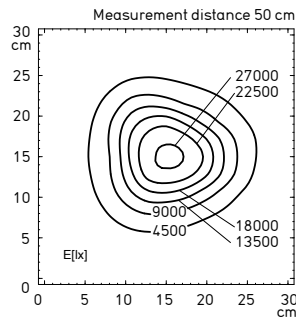
- High system of protection
- Easy changing of illuminant thanks to bayonet connection
- Heat protection jacket





Features at a glance

- Halogen lamp
- Color temperature warm white 3,000 K
- Glare-free thanks to metal louver
- Black luminaire head of aluminum and plastic, glass screen
- Pivoting-head for individual adjustments
- Without switch
- System of protection IP65; class of protection II (with transformer) or III (without transformer)
- Supplied without mains lead
- Various fastenings as accessories



Illuminance 1 x 75 W
(112 188 003 - 000 051 86)

Integrated machine luminaires



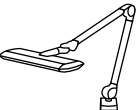
Surface-mounted luminaires



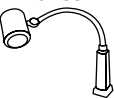
Tube luminaires



Arm-mounted luminaires



Flexible-tube luminaires



Pivoting-head luminaires



FITTED WITH	OPERATING DEVICE	CONNECTED LOAD	SPECIAL FEATURE	E_m/E_{max}^*	MODEL	ORDER NO.
1 x 75 W	Integrated transformer	230 V, 50/60 Hz	–	5052/27570 lx ¹	HSWK 75	112 188 003 - 000 051 86
1 x 75 W	–	24 VAC/DC	–	4964/26680 lx ¹	HSWK 75	112 187 013 - 000 052 36
1 x 75 W	–	12 VAC/DC	–	5062/27570 lx ¹	HSWK 75	112 187 003 - 000 051 85

* E_m = medium illuminance; E_{max} = maximum illuminance; ¹ Measuring range 30 cm x 30 cm/Measuring distance 50 cm
Also available as an arm-mounted luminaire

MHW

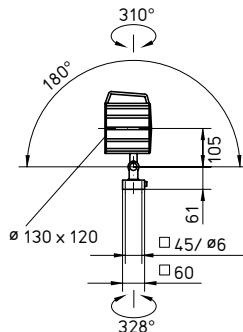
THE POWER OF HALOGEN.

All Waldmann luminaires are marked by their premium quality materials and robust construction. These qualities are particularly apparent in the MHW. Installed on a practical pivoting-head,

these characteristics guarantee a solid machine luminaire with flexible reliability and a long life.

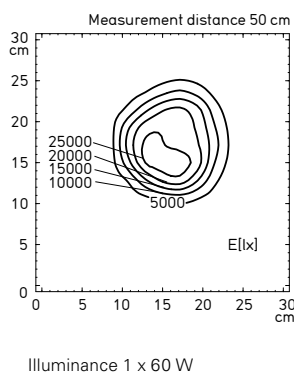
- Bright
- Flexible
- High system of protection



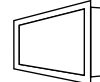


Features at a glance

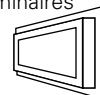
- Halogen lamp
- Color temperature warm white 3,000 K
- Direct beam
- Aluminum colored anodized housing, glass screen
- Pivoting-head for individual adjustments
- Without switch
- System of protection IP65; class of protection III
- Supplied without mains lead
- Various fastenings and transformers to connect to the mains voltage as an accessory



Integrated machine luminaires



Surface-mounted luminaires



Tube luminaires



Arm-mounted luminaires



Flexible-tube luminaires



Pivoting-head luminaires



FITTED WITH	OPERATING DEVICE	CONNECTED LOAD	SPECIAL FEATURE	E_m / E_{max}^*	MODEL	ORDER NO.
1 x 60 W	-	24 VAC/DC	-	3341/27230 lx ¹	MHWK 60	110 960 000 - 000 037 22

* E_m = medium illuminance; E_{max} = maximum illuminance; ¹ Measuring range 30 cm x 30 cm / Measuring distance 50 cm
 Also available as an arm-mounted luminaire

HI 20

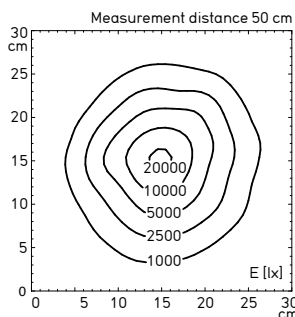
PRECISE MACHINE LIGHTING.

The HI 20 demonstrates the ideal kind of flexibility. As a fixture, its pivoting-head enables fully individual adjustment even in small machines. Furthermore, this strong halogen luminaire is available with four different beam characteristics. But the HI 20 has another variable that makes it even more flexible: The version with grip turns it into a practical hand luminaire.

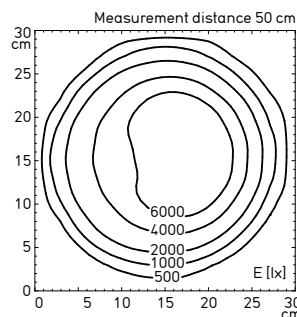
- Very bright
- Easy and fast positioning
- Convenient switching on and off from your working position
- Variants with narrow and wide angles of illumination
- Easy, tool-free changing of lamp

Features at a glance

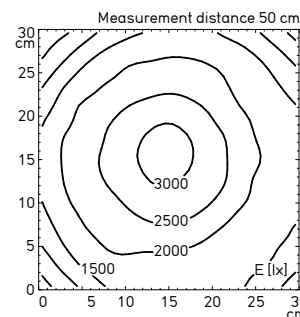
- Halogen lamp
- Color temperature warm white 2,800 K (23 W) or 3,000 K (20 W)
- 10°, 24°, 36° or 60° angle of illumination
- Black luminaire head of aluminum and plastic, glass screen
- Pivoting head for individual adjustments
- With switch in the luminaire head
- System of protection IP20; class of protection III (without transformer/mains plug) and II (with transformer/mains plug)
- Supplied with 2.5 m mains lead with free stranded wires or wall power supply/ integrated transformer with plug type CEE 7/16 (Euro plug)
- Various fastenings as accessories



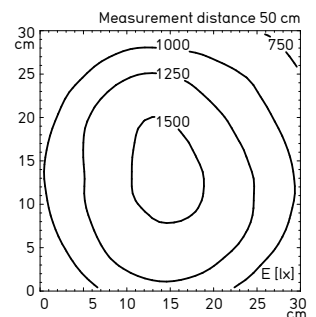
Illuminance with 10° angle of illumination (112 410 000 - 000 697 87)



Illuminance with 24° angle of illumination (112 410 001 - 000 697 98)



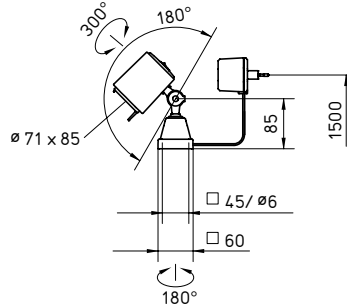
Illuminance with 36° angle of illumination (112 410 002 - 000 697 99)



Illuminance with 60° angle of illumination (112 410 003 - 000 698 00)



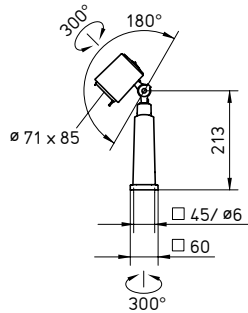
HI 20



Tip: Drawing shows luminaire with mains plug



HI 20 with grip



Integrated machine luminaires



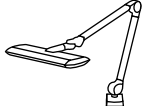
Surface-mounted luminaires



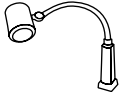
Tube luminaires



Arm-mounted luminaires



Flexible-tube luminaires



Pivoting-head luminaires



HI 20

FITTED WITH	OPERATING DEVICE	CONNECTED LOAD	SPECIAL FEATURE	E_m / E_{max}^*	MODEL	ORDER NO.
1 x 20 W	Mains plug	230 V, 50/60 Hz	10° angle of illumination	2268/23200 lx ¹	HIXF 20 N	112 410 000 - 000 697 87
1 x 20 W	Mains plug	230 V, 50/60 Hz	24° angle of illumination	2504/7375 lx ¹	HIXF 20 N	112 410 001 - 000 697 98
1 x 20 W	Mains plug	230 V, 50/60 Hz	36° angle of illumination	1970/3126 lx ¹	HIXF 20 N	112 410 002 - 000 697 99
1 x 20 W	Mains plug	230 V, 50/60 Hz	60° angle of illumination	1182/1598 lx ¹	HIXF 20 N	112 410 003 - 000 698 00
1 x 20 W	–	12 VAC/DC	24° angle of illumination	2504/7375 lx ¹	HIXF 20 S	112 381 005 - 000 684 37
1 x 23 W	–	24 VAC/DC	10° angle of illumination	1619/14398 lx ¹	HIXF 20 S	112 381 008 - 000 679 24
1 x 23 W	–	24 VAC/DC	24° angle of illumination	1683/7082 lx ¹	HIXF 20 S	112 381 009 - 000 903 40
1 x 23 W	–	24 VAC/DC	36° angle of illumination	1553/3055 lx ¹	HIXF 20 S	112 381 010 - 000 903 42

HI 20 WITH GRIP

FITTED WITH	OPERATING DEVICE	CONNECTED LOAD	SPECIAL FEATURE	E_m / E_{max}^*	MODEL	ORDER NO.
1 x 20 W	Integrated transformer	230 V, 50/60 Hz	10° angle of illumination	2268/23200 lx ¹	HIXH 20 N	112 391 000 - 000 673 44
1 x 20 W	Integrated transformer	230 V, 50/60 Hz	24° angle of illumination	2504/7375 lx ¹	HIXH 20 N	112 391 001 - 000 684 66
1 x 20 W	Integrated transformer	230 V, 50/60 Hz	36° angle of illumination	1970/3126 lx ¹	HIXH 20 N	112 391 002 - 000 684 72
1 x 20 W	Integrated transformer	230 V, 50/60 Hz	60° angle of illumination	1182/1598 lx ¹	HIXH 20 N	112 391 003 - 000 684 77
1 x 20 W	–	12 VAC/DC	24° angle of illumination	2504/7375 lx ¹	HIXH 20 S	112 382 005 - 000 684 40
1 x 23 W	–	24 VAC/DC	10° angle of illumination	1619/14398 lx ¹	HIXH 20 S	112 382 008 - 000 679 09
1 x 23 W	–	24 VAC/DC	24° angle of illumination	1683/7082 lx ¹	HIXH 20 S	112 382 009 - 000 903 56
1 x 23 W	–	24 VAC/DC	36° angle of illumination	1553/3055 lx ¹	HIXH 20 S	112 382 010 - 000 903 57

* E_m = medium illuminance; E_{max} = maximum illuminance; ¹ Measuring range 30 cm x 30 cm / Measuring distance 50 cm
 Also available as an arm-mounted and flexible-tube luminaire

HGL

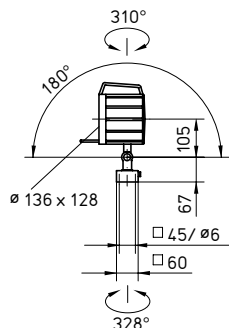
BEST LIGHT – FOCUSED, GLARE-FREE LIGHTING.

The focused light that the HGL halogen luminaire produces is extremely bright. That is why a special metal louver ensures that this luminous power remains glare-free for an ergonomic lighting of the workplace. Mounted on a jointed head, this powerful luminaire remains flexible

enough for individual positioning of its extremely bright light. This makes the HGL a highly versatile luminaire.

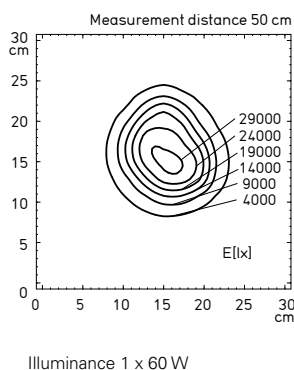
- Extremely bright
- Glare-free
- Heat protection jacket



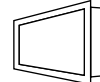


Features at a glance

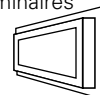
- Halogen lamp
- Color temperature warm white 3,000 K
- Glare-free thanks to metal louver
- Black luminaire head of aluminum and plastic, glass screen
- Pivoting-head for individual adjustments
- With switch in the luminaire head
- System of protection IP20; class of protection III
- Supplied without mains lead
- Various fastenings and transformers to connect to the mains voltage as an accessory



Integrated machine luminaires



Surface-mounted luminaires



Tube luminaires



Arm-mounted luminaires



Flexible-tube luminaires



Pivoting-head luminaires



FITTED WITH	OPERATING DEVICE	CONNECTED LOAD	SPECIAL FEATURE	E_m / E_{max}^*	MODEL	ORDER NO.
1 x 60 W	–	24 VAC/DC	–	3243/29780 lx ¹	HGLK 70	010 308 000 - 000 478 88
1 x 55 W	–	12 VAC/DC	–	2933/25050 lx ¹	HGLK 70	010 308 010 - 000 646 57

* E_m = medium illuminance; E_{max} = maximum illuminance; ¹ Measuring range 30 cm x 30 cm/Measuring distance 50 cm
 Also available as an arm-mounted luminaire