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## INDUSTRIAL LIGHTING SOLUTIONS PRODUCT CATALOG



# THE RIGHT LIGHT FOR EVERY APPLICATION



## MACHINING

The machining industry requires its own set of specific criteria for lighting difficult machining environments. Bright light inside the machine cabinet, without shadows or glare, is a must. It must be reliable, easy to clean and maintain, and rugged enough to withstand flying metal chips, lubricants and oils found in the machining process. Waldmann offers the very best quality and widest selection of LED machine luminaires available on the market today.



## ASSEMBLY

Proper lighting is crucial for an assembly environment to ensure that quality products are manufactured and assembled correctly the first time. High-performance lighting positively affects employees by boosting productivity, morale and well-being while minimizing eye strain and fatigue. Providing sufficient light without shadows or glare is necessary for keeping staff alert and safe.



## QUALITY CONTROL

Quality Control is the last point of inspection before a product reaches the customer. Proper lighting and magnification equipment is imperative to ensure that any defects or imperfections are identified prior to shipment. Waldmann magnifiers offer wide angle distortion-free lenses with additional lenses available for additional power. High color rendering and dimming options allow for customization to the task.



## MAINTENANCE

In the industrial environment, maintenance departments are tasked with keeping production machines operational. Energy savings and cost-efficiency affect the bottom line 24/7. Waldmann ensures maintenance-free lighting by using the highest quality lighting components available, combined with superior design and the latest technological advances. No down time, no replacement parts and no extra maintenance is required to keep the lights on.

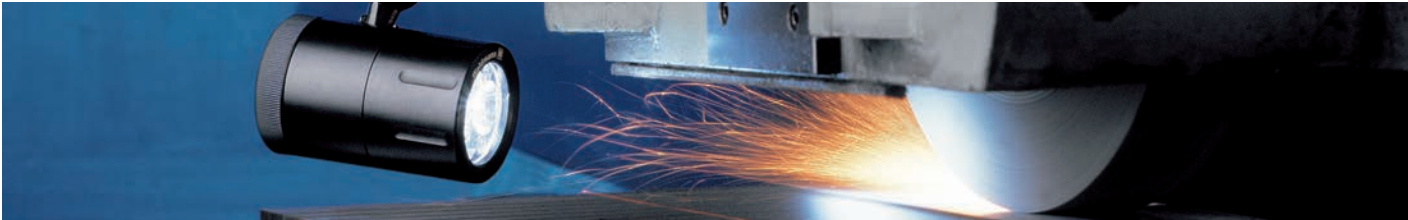


## RESEARCH AND DEVELOPMENT

Research and development is an important component of any growing business. Waldmann develops products that easily integrate into R&D workstations that require high illuminance levels while eliminating shadows or glare. Task and bench lighting products allow for precise movement and positioning of the fixture for optimum comfort and control while utilizing premium materials and components.

# INDUSTRIAL LIGHTING SOLUTIONS

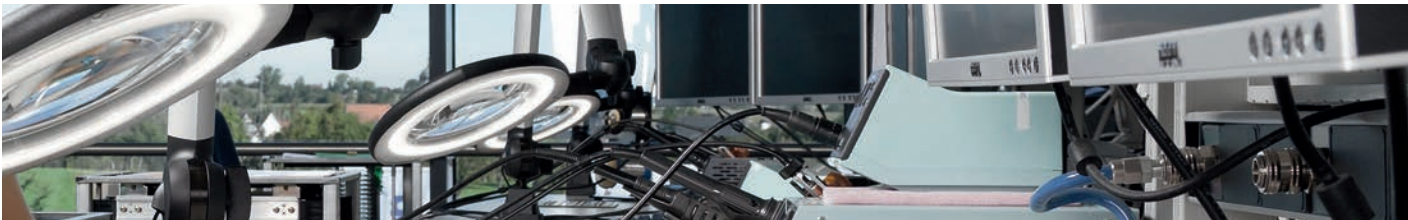
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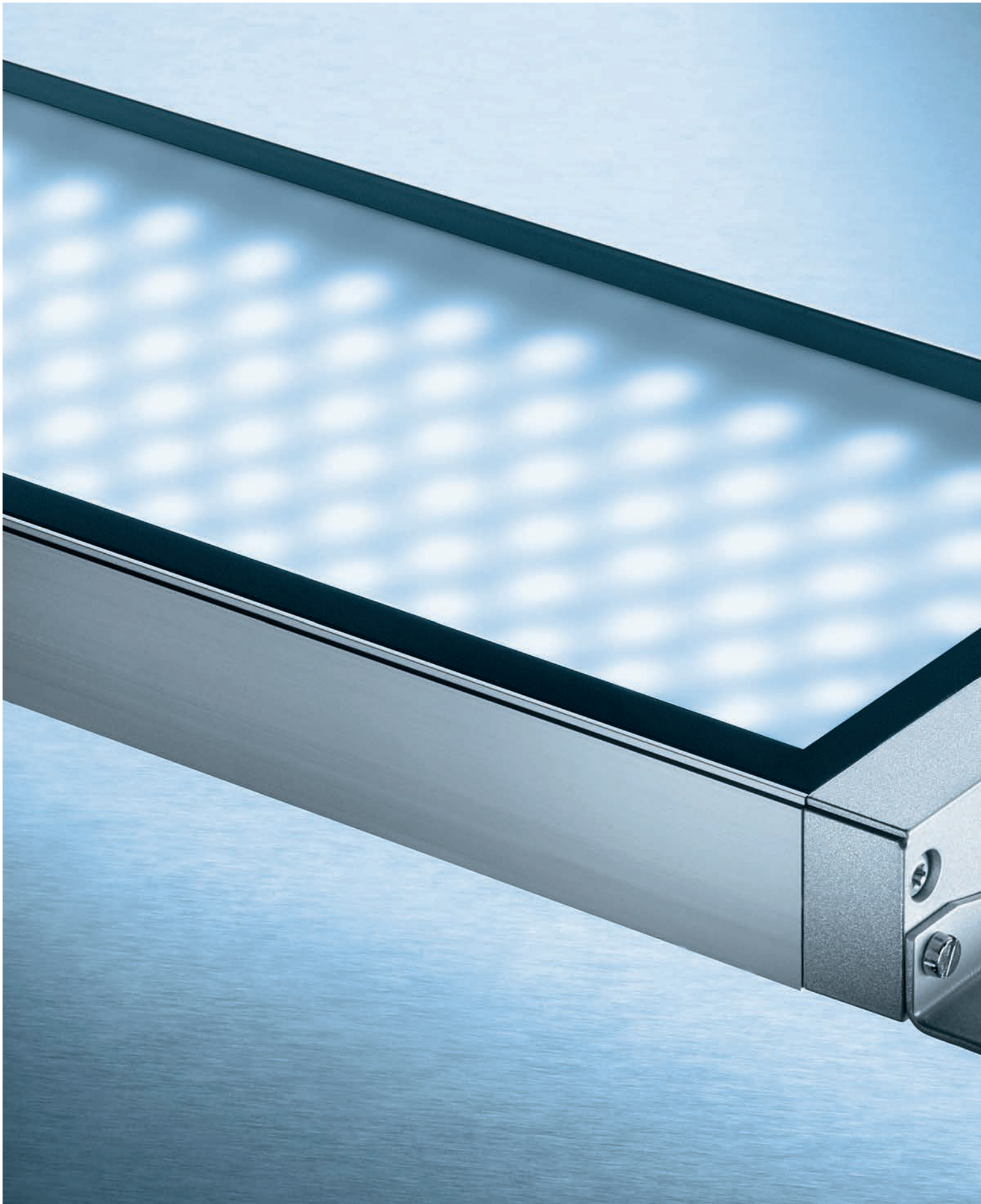
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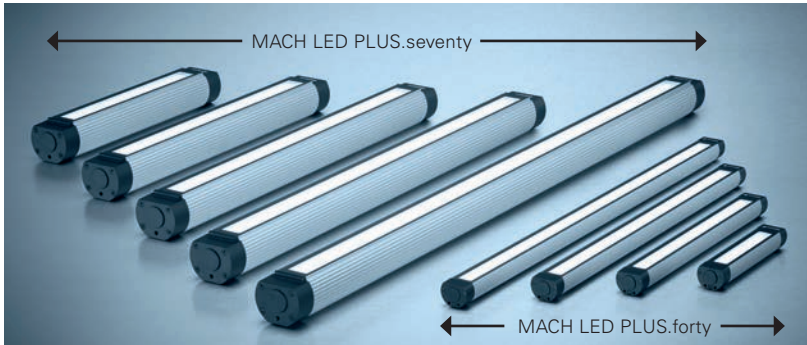


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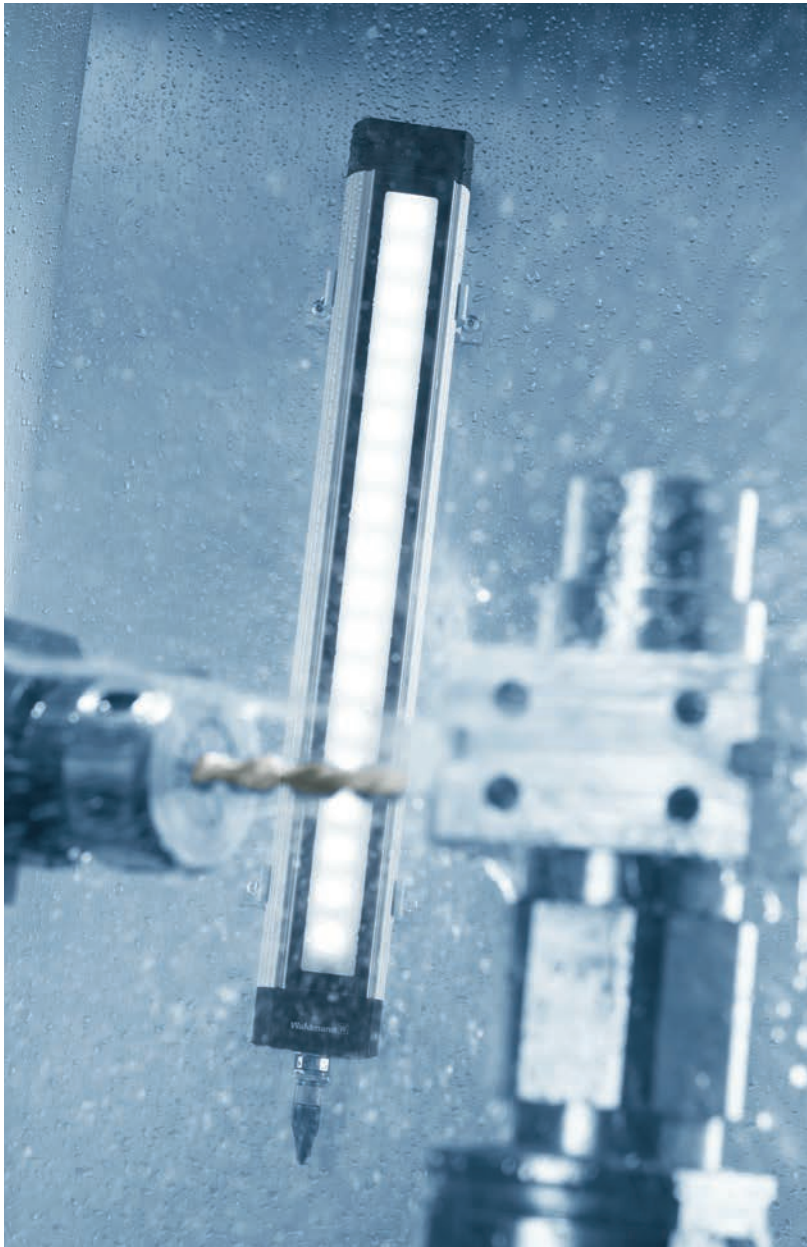


## INDUSTRIAL LIGHTING | MACHINE

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MACH LED PLUS linear LED machine light is available in two diameters: 70mm and 40mm



# MACH LED PLUS. seventy

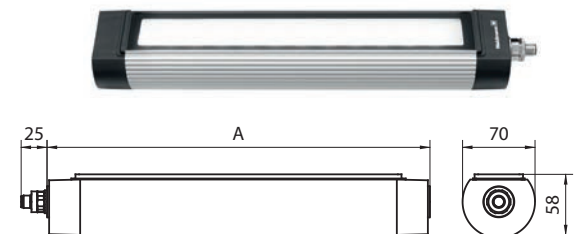
## 70MM LINEAR LED MACHINE LIGHT

### FEATURES:

- Compatible with standard 70mm tube lights for easy retrofit of existing fluorescent tubes to LED
- Up to 70% energy savings compared to fluorescent lamp fixtures
- Six lengths to fit any machine configuration
- Two lumen packages available, Eco or High-Output
- 50,000 hours of maintenance-free operation with high-performance, high-output LED technology
- Anodized aluminum housing and 4mm thick safety glass insures trouble-free operation in harsh environments
- Easy connection via M12 connector with cord (included)
- Available in both line voltage or low voltage
- Designed for use with coolants and lubricants

### SPECIFICATIONS:

Voltage	18-20 DC or 120-277V; 50/60Hz
Lamping	LED
Color Temperature	5000K
Color Rendering Index (CRI)	85
Luminaire Material	anodized aluminum
Lens Material	borosilicate safety glass
Dimension	6 lengths, 2.75" (70mm) diameter
Protection Rating	IP67
Certification	CE, ETL/cETL approved
Connection	M12 connector with 16' cord included
Mounting and accessories	See page 65



See chart for individual lengths (A)  
Measurements in millimeters

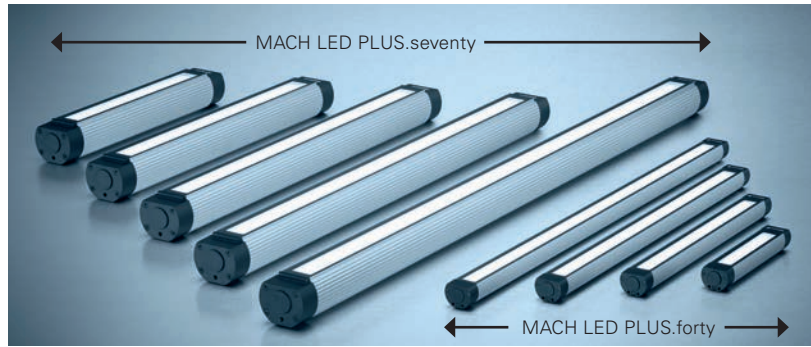
MACH LED PLUS.seventy is the ideal LED solution for linear machine lighting applications. It produces intense illumination for the most demanding industrial applications: impervious to mechanical vibration, and resistant to coolants and lubricants. Designed for high temperature environments, MACH LED PLUS.seventy is a direct replacement for standard 70mm tube lights used in many machines, allowing them to use existing mounting brackets. Thanks to well-engineered design, superior craftsmanship and highest quality materials, MACH LED PLUS.seventy withstands the toughest conditions found in manufacturing and machining environments.

## ORDERING INFORMATION

Version	Wattage	Length (A)	Lumens	Model	Part #
<b>24V Versions</b> (For AC voltage operation, see external operating devices below)					
Eco	7W	14.6" (370mm)	500	MQAL 12 S	113 045 000 - 005 807 02
Eco, thru-wire	7W	14.6" (370mm)	500	MQAL 12 SD	113 046 000 - 005 806 96
High-output	12W	14.6" (370mm)	900	MQAL 24 S	113 047 000 - 005 806 93
High-output, thru-wire	12W	14.6" (370mm)	900	MQAL 24 SD	113 048 000 - 005 805 73
Eco	10W	20.1" (510mm)	750	MQAL 18 S	113 053 000 - 005 805 88
Eco, thru-wire	10W	20.1" (510mm)	750	MQAL 18 SD	113 054 000 - 005 805 91
High-output	18W	20.1" (510mm)	1350	MQAL 36 S	113 055 000 - 005 805 94
High-output, thru-wire	18W	20.1" (510mm)	1350	MQAL 36 SD	113 056 000 - 005 805 97
Eco	10W	22.2" (565mm)	750	MQAL 18 S	113 061 000 - 005 806 12
Eco, thru-wire	10W	22.2" (565mm)	750	MQAL 18 SD	113 062 000 - 005 806 15
High-output	18W	22.2" (565mm)	1350	MQAL 36 S	113 063 000 - 005 806 18
High-output, thru-wire	18W	22.2" (565mm)	1350	MQAL 36 SD	113 064 000 - 005 806 21
Eco	13W	25.6" (650mm)	1000	MQAL 24 S	113 069 000 - 005 806 39
Eco, thru-wire	13W	25.6" (650mm)	1000	MQAL 24 SD	113 070 000 - 005 806 42
High-output	24W	25.6" (650mm)	1800	MQAL 48 S	113 071 000 - 005 806 45
High-output, thru-wire	24W	25.6" (650mm)	1800	MQAL 48 SD	113 072 000 - 005 806 48
Eco	16W	31.1" (790mm)	1250	MQAL 30 S	113 077 000 - 005 806 63
Eco, thru-wire	16W	31.1" (790mm)	1250	MQAL 30 SD	113 078 000 - 005 806 66
High-output	30W	31.1" (790mm)	2300	MQAL 60 S	113 124 000 - 006 118 55
High-output, thru-wire	30W	31.1" (790mm)	2300	MQAL 60 SD	113 125 000 - 006 128 44
Eco	22W	42.1" (1070mm)	1750	MQAL 42 S	113 081 000 - 005 806 75
Eco, thru-wire	22W	42.1" (1070mm)	1750	MQAL 42 SD	113 082 000 - 005 806 81
High-output	42W	42.1" (1070mm)	3200	MQAL 84 S	113 126 000 - 006 129 73
High-output, thru-wire	42W	42.1" (1070mm)	3200	MQAL 84 SD	113 122 000 - 006 098 07
<b>100-240V Versions</b>					
Eco	9W	14.6" (370mm)	500	MQAL 12 N	113 049 000 - 005 805 76
Eco, thru-wire	9W	14.6" (370mm)	500	MQAL 12 ND	113 050 000 - 005 805 79
High-output	15W	14.6" (370mm)	900	MQAL 24 N	113 051 000 - 005 805 82
High-output, thru-wire	15W	14.6" (370mm)	900	MQAL 24 ND	113 052 000 - 005 805 85
Eco	12W	20.1" (510mm)	750	MQAL 18 N	113 057 000 - 005 806 00
Eco, thru-wire	12W	20.1" (510mm)	750	MQAL 18 ND	113 058 000 - 005 806 03
High-output	21W	20.1" (510mm)	1350	MQAL 36 N	113 059 000 - 005 806 06
High-output, thru-wire	21W	20.1" (510mm)	1350	MQAL 36 ND	113 060 000 - 005 806 09
Eco	12W	22.2" (565mm)	750	MQAL 18 N	113 065 000 - 005 806 24
Eco, thru-wire	12W	22.2" (565mm)	750	MQAL 18 ND	113 066 000 - 005 806 30
High-output	21W	22.2" (565mm)	1350	MQAL 36 N	113 067 000 - 005 806 33
High-output, thru-wire	21W	22.2" (565mm)	1350	MQAL 36 ND	113 068 000 - 005 806 36
Eco	15W	25.6" (650mm)	1000	MQAL 24 N	113 073 000 - 005 806 51
Eco, thru-wire	15W	25.6" (650mm)	1000	MQAL 24 ND	113 074 000 - 005 806 54
High-output	27W	25.6" (650mm)	1800	MQAL 48 N	113 075 000 - 005 806 57
High-output, thru-wire	27W	25.6" (650mm)	1800	MQAL 48 ND	113 076 000 - 005 806 60
Eco	20W	31.1" (790mm)	1250	MQAL 30 N	113 079 000 - 005 806 69
Eco, thru-wire	20W	31.1" (790mm)	1250	MQAL 30 ND	113 080 000 - 005 806 72
Eco	26W	42.1" (1070mm)	1750	MQAL 42 N	113 083 000 - 005 806 84
Eco, thru-wire	26W	42.1" (1070mm)	1750	MQAL 42 ND	113 084 000 - 005 806 90
<b>External Operating Devices</b>					
	<b>Max. Wattage</b>		<b>Input</b>	<b>Output</b>	<b>Part #</b>
	17W		120-277V, 50/60Hz	24V DC	209 585 028
	20W		120-240V, 50/60Hz	24V DC	309 537 010 - 006 704 53
Required for 120-277V operation with 24V versions	50W		120V, 50/60Hz	24V DC	209 585 030
	75W		120-277V, 50/60Hz	24V DC	209 585 031
	100W		120-277V, 50/60Hz	24V DC	309 538 010 - 006 704 56
<b>Mounting Options</b>					
	<b>Item</b>		<b>Unit</b>	<b>Part #</b>	
	End bracket set, adjustable, +/- 65°		Sold as pair	408 001 876 - 005 820 65	
	Clip bracket, adjustable, +/- 30°		Sold individually	408 001 878 - 005 855 35	
	Protective cap set (not for use with end brackets)		Sold as pair	408 001 875 - 005 820 72	
<b>Accessories*</b>					
	<b>Item</b>		<b>Type</b>	<b>Voltage</b>	<b>Part #</b>
	M12 connector with 16' cord (included), straight		A-coded	24V DC	US0 009 001
	M12 connector with 16' cord (included), straight		S-coded	120V AC	US0 009 201
	M12 connector with 16' cord (included), angled		A-coded	24V DC	US0 009 011
	M12 connector with 16' cord (included), angled		S-coded	120V AC	US0 009 211

\*M12 connector for thru-wire versions available upon request only

FOR DETAILED SPECIFICATIONS, PLEASE VISIT [WALDMANNLIGHTING.COM](http://WALDMANNLIGHTING.COM)



MACH LED PLUS linear LED machine light is available in two diameters: 70mm and 40mm



# MACH LED PLUS.forty

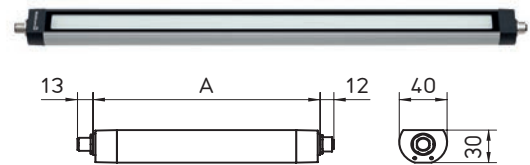
## 40MM LINEAR LED MACHINE LIGHT

### FEATURES:

- Four lengths: 7.5" (190mm), 14.4" (365mm), 21.3" (540mm), 28.2" (715mm)
- Beam angle option: 40° (optics) or 90° (reflector)
- Rugged anodized aluminum housing and 4mm thick safety glass
- Various bracket options for simple installation
- Able to withstand extreme ambient heat up to 122°F
- 60,000 hours of maintenance-free LED service life
- Vibration resistant up to 55Hz (amplitude 0.35mm); Shock resistant up to .11 lb
- Protection rating IP67
- Easy connection via M12 connector with cord, A-coded
- Designed for use with coolants and lubricants

### SPECIFICATIONS:

Voltage	24V DC
Lamping	LED
Color Temperature	5000K
Color Rendering Index (CRI)	85
Beam Angle	40° or 90°
Luminaire Material	anodized aluminum
Lens Material	borosilicate safety glass
Dimension	4 lengths, 1.6" (40mm) diameter
Protection Rating	IP67
Certification	CE, ETL/cETL approved
Connection	M12 connector with 16' cord included
Mounting and accessories	See page 66



See chart for individual lengths (A)  
Measurements in millimeters

Waldmann has combined the positive attributes of MACH LED PLUS with the small form factor of the very popular MACH LED to develop MACH LED PLUS.forty – 1.5" in diameter with light output extending the full length of the fixture. Available with a choice of beam angle, with more lumens per watt than MACH LED and an even longer LED life – 60,000 hours of maintenance-free operation.

MACH LED PLUS.forty is available with either 40° or 90° angle of illumination to enable optimum lighting for many visual tasks. MACH LED PLUS.forty reflects state-of-the-art technology: the latest LED technology, specially developed optics system and the most modern housing concept by Waldmann Lighting.

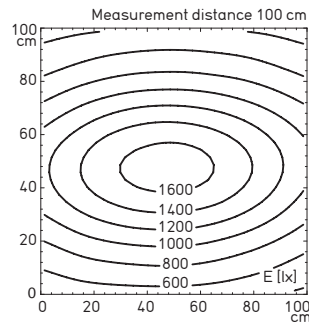




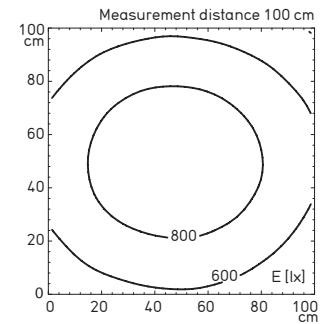
MACH LED PLUS.forty with angle of illumination 40°



MACH LED PLUS.forty with angle of illumination 90°



Illuminance taking MLAL 57 S with 40° optics as an example



Illuminance taking MLAL 57 S with 90° reflector as an example

#### ORDERING INFORMATION (No operating device included, which is only required for 120-277V operation)

Version	Wattage	Length (A)	Lumens	Model	Part #
<b>24V Versions</b>					
90° beam angle	5W	7.5" (190mm)	480	MLAL 12 S	113 161 000 - 006 625 75
40° beam angle	5W	7.5" (190mm)	490	MLAL 12 S	113 161 000 - 006 600 33
90° beam, thru-wire	5W	7.5" (190mm)	480	MLAL 12 SD	113 161 000 - 006 626 00
90° beam angle	10.5W	14.4" (365mm)	1080	MLAL 27 S	113 162 000 - 006 626 85
40° beam angle	10.5W	14.4" (365mm)	1120	MLAL 27 S	113 162 000 - 006 606 81
90° beam, thru-wire	10.5W	14.4" (365mm)	1080	MLAL 27 SD	113 162 000 - 006 627 06
90° beam angle	16W	21.3" (540mm)	1680	MLAL 42 S	113 163 000 - 006 627 17
40° beam angle	16W	21.3" (540mm)	1720	MLAL 42 S	113 163 000 - 006 606 84
90° beam, thru-wire	16W	21.3" (540mm)	1680	MLAL 42 SD	113 163 000 - 006 627 35
90° beam angle	21.5W	28.2" (715mm)	2280	MLAL 57 S	113 164 000 - 006 628 06
40° beam angle	21.5W	28.2" (715mm)	2330	MLAL 57 S	113 164 000 - 006 606 87
90° beam, thru-wire	21.5W	28.2" (715mm)	2280	MLAL 57 SD	113 164 000 - 006 628 33
<b>External Operating Devices</b>					
	<b>Max. Wattage</b>		<b>Input</b>	<b>Output</b>	<b>Part #</b>
	17W		120-277V, 50/60Hz	24V DC	209 585 028
	20W		120-240V, 50/60Hz	24V DC	309 537 010 - 006 704 53
Required for 120-277V operation	50W		120V, 50/60Hz	24V DC	209 585 030
	75W		120-277V, 50/60Hz	24V DC	209 585 031
	100W		120-277V, 50/60Hz	24V DC	309 538 010 - 006 704 56
<b>Mounting Options</b>					
	<b>Item</b>		<b>Unit</b>		<b>Part #</b>
	End bracket set, +/- 90°		Sold as pair		408 001 403 - 006 716 26
	Clip bracket, adjustable, +/- 20°		Sold separately		408 001 402 - 006 716 23
<b>Accessories*</b>					
	<b>Item</b>		<b>Type</b>	<b>Voltage</b>	<b>Part #</b>
	M12 connector with 16' cord (included), straight		A-coded	24V DC	US0 009 001
	M12 connector with 16' cord (included), angled		A-coded	24V DC	US0 009 011

\*M12 connector for thru-wire versions available upon request only

# MACH LED PRO

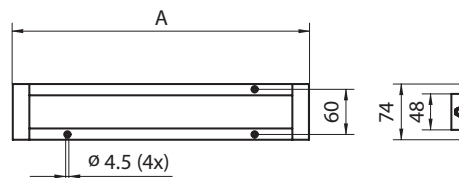
## FLAT LED MACHINE LIGHT

### FEATURES:

- Small, compact linear housing
- High-performance LED technology
- 50,000 hours maintenance-free
- High resistance to coolants/lubricants
- Impervious to mechanical vibration
- Rugged aluminum housing
- Lengths: 8.7" (220mm), 15.6" (395mm), 22.4" (570mm), and 29.3" (745mm)

### SPECIFICATIONS:

Voltage	24V DC or AC
Lamping	LED
Operation	connect to external switch
Color Temperature	5000K
Color Rendering Index (CRI)	85
Beam Angles	30° or 120°
Luminaire Material	anodized aluminum
Lens Material	4mm thick borosilicate safety glass
Dimension	4 lengths, 3" wide
Power Consumption	various
Protection Rating	IP67
Certification	ETL/cETL approved
Cord/Plug	10' cord with free stranded wires
Mounting and accessories	See page 67

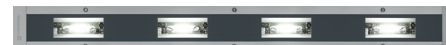


See chart for individual lengths (A)  
Measurements in millimeters



MACH LED PRO provides maximum LED light output using the latest LED chip-array technology, eliminating shadows and distortion of the area being illuminated. Suitable for both wet and dry locations, the MACH LED PRO delivers maximum luminous power with minimal space intrusion. It can be mounted either flush or surface-mounted inside the machine housing.

## VERSIONS - FLUSH OR SURFACE MOUNT



## ORDERING INFORMATION - FLUSH MOUNT (No operating device included, which is only required for 120-277V operation)

Wattage	Voltage	Length (A)	Beam Angle	Lumens	Model	Part #
1 x 6W	24V DC	8.7" (220mm)	30°	410	MUEL 1 S	112 571 000 - 000 845 79
	24V AC, 50/60Hz	8.7" (220mm)	30°	410	MUEL 1 S	112 571 001 - 000 851 27
	24V DC	8.7" (220mm)	120°	410	MUEL 1 S	112 571 002 - 000 852 16
	24V AC, 50/60Hz	8.7" (220mm)	120°	410	MUEL 1 S	112 571 003 - 000 851 94
2 x 6W	24V DC	15.6" (395mm)	30°	820	MUEL 2 S	112 571 004 - 000 852 20
	24V AC, 50/60Hz	15.6" (395mm)	30°	820	MUEL 2 S	112 571 005 - 000 852 25
	24V DC	15.6" (395mm)	120°	800	MUEL 2 S	112 571 006 - 000 852 24
	24V AC, 50/60Hz	15.6" (395mm)	120°	800	MUEL 2 S	112 571 007 - 000 852 26
3 x 6W	24V DC	22.4" (570mm)	30°	1230	MUEL 3 S	112 571 010 - 000 852 27
	24V AC, 50/60Hz	22.4" (570mm)	30°	1230	MUEL 3 S	112 571 011 - 000 852 56
	24V DC	22.4" (570mm)	120°	1200	MUEL 3 S	112 571 012 - 000 852 28
	24V AC, 50/60Hz	22.4" (570mm)	120°	1200	MUEL 3 S	112 571 013 - 000 852 57
4 x 6W	24V DC	29.3" (745mm)	30°	1640	MUEL 4 S	112 571 014 - 000 852 75
	24V AC, 50/60Hz	29.3" (745mm)	30°	1640	MUEL 4 S	112 571 015 - 000 852 78
	24V DC	29.3" (745mm)	120°	1600	MUEL 4 S	112 571 016 - 000 852 76
	24V AC, 50/60Hz	29.3" (745mm)	120°	1600	MUEL 4 S	112 571 017 - 000 853 11

## ORDERING INFORMATION - SURFACE MOUNT (No operating device included, which is only required for 120-277V operation)

Wattage	Voltage	Length (A)	Beam Angle	Lumens	Model	Part #
1 x 6W	24V DC	8.7" (220mm)	30°	410	MUAL 1 S	112 571 020 - 000 790 42
	24V AC, 50/60Hz	8.7" (220mm)	30°	410	MUAL 1 S	112 571 021 - 000 822 49
	24V DC	8.7" (220mm)	120°	400	MUAL 1 S	112 571 022 - 000 821 86
	24V AC, 50/60Hz	8.7" (220mm)	120°	400	MUAL 1 S	112 571 023 - 000 822 50
2 x 6W	24V DC	15.6" (395mm)	30°	820	MUAL 2 S	112 571 024 - 000 824 56
	24V AC, 50/60Hz	15.6" (395mm)	30°	820	MUAL 2 S	112 571 025 - 000 826 32
	24V DC	15.6" (395mm)	120°	800	MUAL 2 S	112 571 026 - 000 825 11
	24V AC, 50/60Hz	15.6" (395mm)	120°	800	MUAL 2 S	112 571 027 - 000 826 35
3 x 6W	24V DC	22.4" (570mm)	30°	1230	MUAL 3 S	112 571 030 - 000 827 88
	24V AC, 50/60Hz	22.4" (570mm)	30°	1230	MUAL 3 S	112 571 031 - 000 828 40
	24V DC	22.4" (570mm)	120°	1200	MUAL 3 S	112 571 032 - 000 828 20
	24V AC, 50/60Hz	22.4" (570mm)	120°	1200	MUAL 3 S	112 571 033 - 000 828 42
4 x 6W	24V DC	29.3" (745mm)	30°	1640	MUAL 4 S	112 571 034 - 000 828 44
	24V AC, 50/60Hz	29.3" (745mm)	30°	1640	MUAL 4 S	112 571 035 - 000 828 63
	24V DC	29.3" (745mm)	120°	1600	MUAL 4 S	112 571 036 - 000 828 46
	24V AC, 50/60Hz	29.3" (745mm)	120°	1600	MUAL 4 S	112 571 037 - 000 828 66

For installation cutout dimensions of flush mount version, please see MACH LED PRO product specification sheet @ [www.waldmannlighting.com](http://www.waldmannlighting.com)

External Operating Devices	Max. Wattage	Input	Output	Part #
	17W	24V DC	120-277V, 50/60Hz	209 585 028
	20W	24V DC	120-240V, 50/60Hz	309 537 010 - 006 704 53
Required for 120-277V operation	50W	24V DC	120V, 50/60Hz	209 585 030
	75W	24V DC	120-277V, 50/60Hz	209 585 031

# LUMATRIS

## HIGH OUTPUT LED MACHINE LIGHT

### FEATURES:

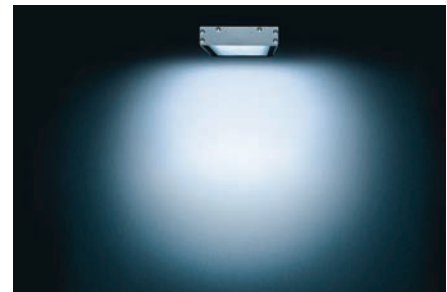
- Six sizes to fit any space
- Flicker-free light with no IR or UV content
- Easy rear or side connection options for
- M12 connector (included)
- Narrow or wide flood light options
- 50,000 hours maintenance-free operation

### SPECIFICATIONS:

Voltage	24V DC
Lamping	LED
Color Temperature	5000K
Color Rendering (CRI)	85
Dimensions	various, see chart
Luminaire Material	anodized aluminum
Lens Material	4mm thick borosilicate safety glass
Protection Rating	IP69K
Certification	CE, ETL/cETL
Connection	M12 connector with 16' cord included
Mounting and accessories	See page 64

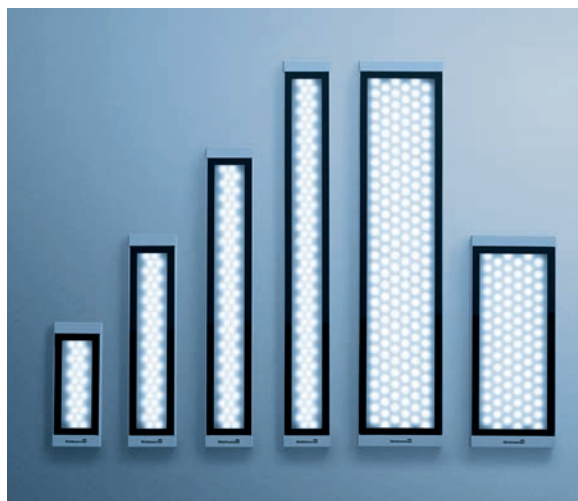


Narrow Flood



Wide Flood

LUMATRIS is designed with the latest in LED technology, combining high light output with specially designed optics to accentuate accessible light without glare or heat. Its 50,000 hours of maintenance-free operation equals energy and cost savings, and the ECO power option on some models allows for even more energy savings – by 30%. Strong materials allow LUMATRIS to keep its efficiency even in machines where temperatures reach up to 122 degrees Fahrenheit. The rugged anodized aluminum housing, along with 4mm-thick safety glass, helps repel coolants, lubricants – even flying metal chips. It's also impervious to vibration and can safely endure high pressure spray-downs. LUMATRIS is truly the ideal choice for even the most volatile machining environments.



Different Sizes



Arm Mount



Surface Bracket



Rear Connection



Flush Frame



Side Connection

## ORDERING INFORMATION

Wattage	Length	Width	Connection	Beam Type	Lumens	Model	Part #
8W	9.7" (246mm)	3.7"	Side	Narrow flood	570	MSAL 24 S	113 094 000 - 005 967 22
8W	9.7" (246mm)	3.7"	Rear	Narrow flood	570	MSAL 24 S	113 094 000 - 005 967 88
8W	9.7" (246mm)	3.7"	Side	Wide flood	570	MSAL 24 S	113 094 000 - 005 967 91
8W	9.7" (246mm)	3.7"	Rear	Wide flood	570	MSAL 24 S	113 094 000 - 005 967 94
16W	16.5" (420mm)	3.7"	Side	Narrow flood	1140	MSAL 48 S	113 095 000 - 005 967 61
16W	16.5" (420mm)	3.7"	Rear	Narrow flood	1140	MSAL 48 S	113 095 000 - 005 968 03
16W	16.5" (420mm)	3.7"	Side	Wide flood	1100	MSAL 48 S	113 095 000 - 005 968 06
16W	16.5" (420mm)	3.7"	Rear	Wide flood	1100	MSAL 48 S	113 095 000 - 005 968 09
24W	23.5" (596mm)	3.7"	Side	Narrow flood	1710	MSAL 72 S	113 096 000 - 005 967 64
24W	23.5" (596mm)	3.7"	Rear	Narrow flood	1710	MSAL 72 S	113 096 000 - 005 968 57
24W	23.5" (596mm)	3.7"	Side	Wide flood	1650	MSAL 72 S	113 096 000 - 005 968 62
24W	23.5" (596mm)	3.7"	Rear	Wide flood	1650	MSAL 72 S	113 096 000 - 005 968 70
32W	30.3" (770mm)	3.7"	Side	Narrow flood	2280	MSAL 96 S	113 097 000 - 005 967 67
32W	30.3" (770mm)	3.7"	Rear	Narrow flood	2280	MSAL 96 S	113 097 000 - 005 968 74
32W	30.3" (770mm)	3.7"	Side	Wide flood	2200	MSAL 96 S	113 097 000 - 005 968 77
32W	30.3" (770mm)	3.7"	Rear	Wide flood	2200	MSAL 96 S	113 097 000 - 005 968 80
25W	16.5" (420mm)	6.7"	Side	Narrow flood	1900	MSAL 90 S	112 573 001 - 005 142 71
25W	16.5" (420mm)	6.7"	Rear	Narrow flood	1900	MSAL 90 S	112 573 000 - 004 994 89
25W	16.5" (420mm)	6.7"	Side	Wide flood	1880	MSAL 90 S	112 573 000 - 006 086 66
25W	16.5" (420mm)	6.7"	Rear	Wide flood	1880	MSAL 90 S	112 573 000 - 006 086 73
50W	30.3" (770mm)	6.7"	Side	Narrow flood	3800	MSAL 180 S	112 574 001 - 005 111 40
50W	30.3" (770mm)	6.7"	Rear	Narrow flood	3800	MSAL 180 S	112 574 000 - 004 994 93
50W	30.3" (770mm)	6.7"	Side	Wide flood	3760	MSAL 180 S	112 574 000 - 006 086 80
50W	30.3" (770mm)	6.7"	Rear	Wide flood	3760	MSAL 180 S	112 574 000 - 006 086 77

External Operating Device	Max. Wattage	Input	Output	Part #
	17W	120-277V, 50/60Hz	24V DC	209 585 028
	20W	120-240V, 50/60Hz	24V DC	309 537 010 - 006 704 53
Required for 120-277V operation	50W	120V, 50/60Hz	24V DC	209 585 030
	75W	120-277V, 50/60Hz	24V DC	209 585 031
	100W	120-277V, 50/60Hz	24V DC	309 538 010 - 006 704 56

Mounting Options	Item	Version	Unit	Part #
	Surface mounting bracket	3.7" width version	pair	408 001 015 - 005 955 87
	Surface mounting bracket	6.7" width version	pair	408 001 035 - 005 142 68
	Pivoting arm mount	any version	individual	408 001 033 - 005 142 62
	Flush mounting frame	9.7" x 3.7" version	individual	408 001 016 - 005 956 19
	Flush mounting frame	16.5" x 3.7" version	individual	408 001 017 - 005 956 13
	Flush mounting frame	23.5" x 3.7" version	individual	408 001 018 - 005 956 10
	Flush mounting frame	30.3" x 3.7" version	individual	408 001 019 - 005 956 16
	Flush mounting frame	16.5" x 6.7" version	individual	408 001 037 - 005 181 21
	Flush mounting frame	30.3" x 6.7" version	individual	408 001 034 - 005 142 65

Accessories	Item	Version	Power	Part #
	M12 connector with 16' cord (included), straight	A-coded	24V DC	US0 009 001
	M12 connector with 16' cord (included), angled	A-coded	24V DC	US0 009 011

# SPOT LED

## HIGH OUTPUT LED SPOT LIGHT

### FEATURES:

- No heat in the direction of the light beam
- Flicker-free light with no IR or UV content or stroboscopic effect
- Five mounting options to meet any requirement
- Repellant coating against heat, wear and corrosion
- High resistance to coolants and lubricants
- Impervious to mechanical vibration
- Precision optics for 10° or 40° beam angle
- 50,000 hours maintenance-free operation
- ETL/cETL approved

### SPECIFICATIONS:

Voltage	24V AC/DC or 100-240V, 50/60Hz
Lamping	LED
Color Temperature	5700K
Color Rendering (CRI)	75
Beam Angles	10° or 40°
Luminaire Material	anodized aluminum
Lens Material	4mm thick borosilicate safety glass
Arm Reach	24" gooseneck, 30" articulating arm
Dimensions	2.5" diameter, 4" deep
Protection Rating	IP20-IP67
Cord/Plug	9' cord with free stranded wires
Certification	CE, ETL/cETL approved
Mounting and accessories	See page 69



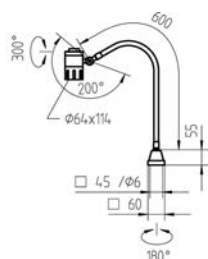
SPOT LED, a technologically advanced, waterproof LED spot light, is designed for the most demanding production and machining environments. With energy-efficient LED technology, proven quality and industrial grade design, SPOT LED provides 50,000 hours of maintenance-free illumination precisely where you need it. The luminaire offers both low-voltage and line-voltage connectivity options, as well as a choice of two beam angles for spot or flood lighting.

SPOT LED can be placed anywhere in or on a machine safely and effectively. With no stroboscopic flickering, a 5700K color temperature, and a design that includes optimal thermal management to generate heat towards the back of the luminaire body, the operator is protected as well.

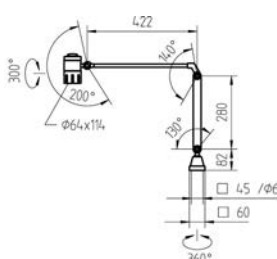
## DIMENSIONAL DATA



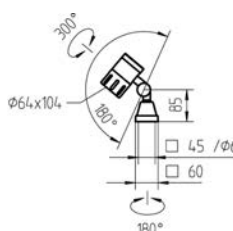
Gooseneck Arm



Articulating Arm



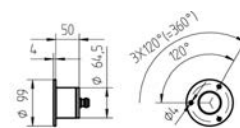
Pivoting Head



Surface Mount



Flush Mount



Measurements in millimeters

## ORDERING INFORMATION

Version	Wattage	Voltage	Beam Angle	Switch	IP Rating	Lumens	MCXFL	Part #
Pivoting head	6W	24V AC or DC	10°	No	IP67	400	MCXFL 3 S	112 459 004 - 000 829 50
Pivoting head	6W	24V AC or DC	40°	No	IP67	460	MCXFL 3 S	112 459 006
Pivoting head	6W	24V AC or DC	10°	Yes	IP65	400	MCXFL 3 S	112 459 001 - 000 916 93
Pivoting head	6W	24V AC or DC	40°	Yes	IP65	460	MCXFL 3 S	112 459 003 - 000 916 94
Pivoting head	6W	100-240V, 50/60Hz	10°	Yes	IP65 (IP20)*	400	MCXFL 3 N	112 459 007 - 000 918 50
Pivoting head	6W	100-240V, 50/60Hz	40°	Yes	IP65 (IP20)*	460	MCXFL 3 N	112 459 009 - 000 918 52
Gooseneck arm	6W	24V AC or DC	10°	Yes	IP65	400	MCTFL 3 S	112 462 001 - 000 918 51
Gooseneck arm	6W	24V AC or DC	40°	Yes	IP65	460	MCTFL 3 S	112 462 003
Gooseneck arm	6W	100-240V, 50/60Hz	10°	Yes	IP65 (IP20)*	400	MCTFL 3 N	112 462 007 - 000 919 26
Gooseneck arm	6W	100-240V, 50/60Hz	40°	Yes	IP65 (IP20)*	460	MCTFL 3 N	112 462 009
Articulating arm	6W	24V AC or DC	10°	Yes	IP65	400	MCBFL 3 S	112 463 001 - 000 916 60
Articulating arm	6W	24V AC or DC	40°	Yes	IP65	460	MCBFL 3 S	112 463 003
Articulating arm	6W	100-240V, 50/60Hz	10°	Yes	IP65 (IP20)*	400	MCBFL 3 N	112 463 007 - 000 916 62
Articulating arm	6W	100-240V, 50/60Hz	40°	Yes	IP65 (IP20)*	460	MCBFL 3 N	112 463 009
Surface mount	6W	24V AC or DC	10°	No	IP67	400	MCAYL 3 S	112 461 001 - 000 830 05
Surface mount	6W	24V AC or DC	40°	No	IP67	460	MCAYL 3 S	112 461 003 - 000 878 71
Flush mount	6W	24V AC or DC	10°	No	IP67	400	MCEYL 3 S	112 460 001 - 000 829 95
Flush mount	6W	24V AC or DC	40°	No	IP67	460	MCEYL 3 S	112 460 003 - 000 878 91

\* denotes IP rating of IP65 for luminaire and IP20 for plug-in transformer

External Operating Device	Max. Wattage	Input	Output	Part #
Required for 120-277V operation	17W	120-277V DC, 50/60Hz	24V DC	209 585 028
	20W	120-240V, 50/60Hz	24V DC	309 537 010 - 006 704 53
	50W	120V, 50/60Hz	24V DC	209 585 030
	75W	120-277V DC, 50/60Hz	24V DC	209 585 031

Mounting Options	Item	Dimensions	Part #
	Universal base for table/wall (included)	2.4" x 2.4"	204 090 019
	Table clamp	0" - 2.75" span	190 007 019 - 000 149 04
	Table clamp	2.5" - 5.4" span	190 033 019 - 000 149 50
	Wall bracket	2.4" x 2.8"	300 213 018 - 000 251 78
	Magnetic base	3.3" diameter	190 057 019 - 000 150 56
	Table base, rectangular*	10.5" x 6.7" x 1"	190 036 109 - 000 582 38
	1/2" pin mount adapter*	1.77" length	US0 209 022
	1/2" pin mount adapter*	3.75" length	US0 209 012

\* Articulating arm models only

# FLAT LED

## HIGH OUTPUT LED FLOOD LIGHT

### FEATURES:

- Narrow housing depth of only .8" (20mm)
- Advanced optics to throw wide flood
- Repellent coating protects against heat, wear and corrosion
- High pressure waterproof (IP69K)
- High resistance to coolants and lubricants
- Impervious to mechanical vibration
- 50,000 hours maintenance-free operation

### SPECIFICATIONS:

Voltage	10-30V AC or 10-40V DC
Lamping	LED
Color Temperature	6500K
Beam Angle	60°
Dimension	11.2" x 2.28"
Luminaire Material	anodized aluminum
Lens Material	borosilicate glass
Protection Rating	IP69K
Certification	CE, ETL/cETL approved
Cord/Plug	10' cord with free stranded wires
Mounting and accessories	See page 62



Surface Mount



Flush Mount

FLAT LED was designed with state-of-the-art, high output LEDs with specially designed optics to produce intense, wide-area illumination in confined spaces. With an overall depth of only 7/8" and the ability to mount flush or on a machine surface FLAT LED can be used for a variety of applications. It is not only waterproof – it's certified for protection against close-range high pressure spray downs. Intelligent electronics allow FLAT LED to directly connect to 24V AC or DC connection, without regard for polarity. The rugged anodized aluminum housing helps dissipate any heat, prolonging LED life – FLAT LED is maintenance-free for up to 50,000 hours at 100% efficiency. Minimal height, maximum luminous power, maintenance-free and energy-efficiency make FLAT LED a smart solution for your machine application.



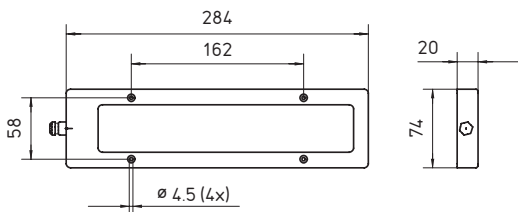


Surface Mount

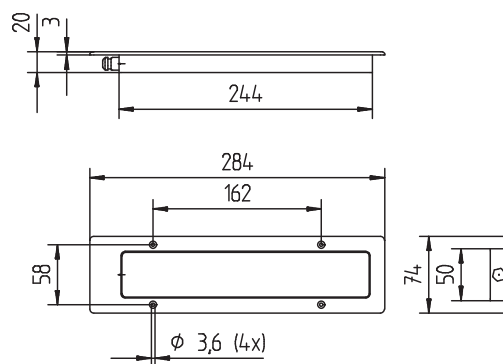


Flush Mount

## DIMENSIONAL DATA



Measurements in millimeters



## ORDERING INFORMATION

Wattage	Version	Voltage	Lumens	Model	Part #
13W	Surface	10-40V DC	510	MYAL 6 S	112 560 000 - 000 030 69
13W	Flush	10-40V DC	510	MYEL 6 S	112 560 001 - 000 031 66
13W	Surface	10-30V AC	510	MYAL 6 S	112 560 002 - 000 062 72
13W	Flush	10-30V AC	510	MYEL 6 S	112 560 003 - 000 062 73

External Operating Devices	Max. Wattage	Input	Output	Part #
Required for 120-277V operation	17W	120-277V, 50/60Hz	24V DC	209 585 028
	20W	120-240V, 50/60Hz	24V DC	309 537 010 - 006 704 53
	50W	120V, 50/60Hz	24V DC	209 585 030
	75W	120-277V, 50/60Hz	24V DC	209 585 031

Mounting Options	Item	Material	Part #
	Swivel bracket	Galvanized steel	203 081 019 - 000 194 78

# ABL LED

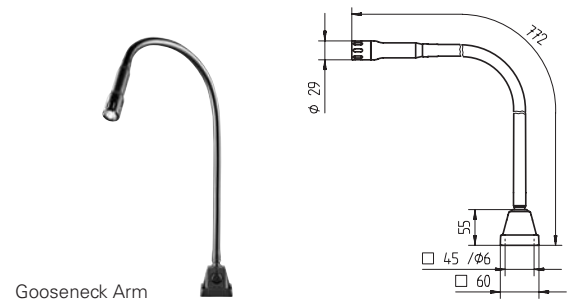
## COMPACT LED SPOT LIGHT

### FEATURES:

- Compact size provides pinpoint accuracy
- Line- or low-voltage versions available
- High resistance coating against heat, wear and corrosion
- Impervious to mechanical vibration
- Installs via threaded stem or bore and counter nut with standard versions
- 50,000 hours maintenance-free operation

### SPECIFICATIONS:

Voltage	19.2-28.8V or 95-240V
Lamping	LED
Color Temperature	6000K
Beam Angles	6° or 25°
Head Dimension	1" diameter x 4.3" deep
Arm Reach	30.5" flexible
Luminaire Material	anodized aluminum
Lens Material	borosilicate glass
Power Consumption	3W
Cord/Plug	Varies by operating device
Protection Rating	IP20/IP67 (see chart )
Mounting and accessories	See page 62



Gooseneck Arm



Pivoting Head

Measurements in millimeters

ABL LED task lights are designed for flexible spot lighting in smaller areas or confined spaces. With a single, high performance, high output LED, the ABL provides pinpoint accuracy and positioning for a wide variety of applications. Available with a gooseneck arm or pivoting head alone, the small size allows for precise position to light even the darkest corner or very small area. ABL LED is ideal for illuminating control panels, keyboards, control room equipment, vision systems, manufacturing equipment, test areas and inspection areas. ABL LED can be used inside or outside of a machine and the light itself is completely water-proof.



## ORDERING INFORMATION

Version	Voltage	IP Rating	Beam Angle	Op Device Inc.	Lumens	Model	Part #
Gooseneck arm	19.2-28.8V	IP67	6° Spot	Yes	191	ABLTL 1	112 385 M20
Gooseneck arm	19.2-28.8V	IP67	25° Flood	Yes	191	ABLTL 1	112 385 M21
Gooseneck arm	95-240V	IP20	6° Spot	Yes	191	ABLTL 1	112 385 M10
Gooseneck arm	95-240V	IP20	25° Flood	Yes	191	ABLTL 1	112 385 M11
Gooseneck arm	Per operating device*	IP67	6° Spot	No	191	ABLTL 1	112 423 000 - 000 715 50
Gooseneck arm	Per operating device*	IP67	25° Flood	No	191	ABLTL 1	112 423 001 - 000 715 49
Pivoting head, threadmount	Per operating device*	IP67	6° Spot	No	191	ABLL 1	112 353 002 - 000 587 09
Pivoting head, threadmount	Per operating device*	IP67	25° Flood	No	191	ABLL 1	112 353 003 - 000 587 11

External Operating Devices	Max. Wattage	Input	Output	Part #
	10W	95-240V, 700mA	24V DC	209 585 019 - 000 452 02
*Required	14W	19.2-28.8V, 700mA	24V DC	209 582 019 - 000 487 93

Mounting Options	Description	Dimensions	Part #
	Universal base for table/wall (included)	2.4" x 2.4"	204 090 019
	Table clamp	0" - 2.75" span	190 007 019 - 000 149 04
	Table clamp	2.5" - 5.4" span	190 033 019 - 000 149 50
	Wall bracket	2.4" x 2.8"	300 213 018 - 000 251 78
	Magnetic base	3.3" diameter	190 057 019 - 000 150 56
	Table base, rectangular	10.5" x 6.7" x 1"	190 036 109 - 000 582 38

# HEAD LED

## SURFACE MOUNT LED FLOOD LIGHT

### FEATURES:

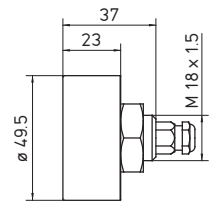
- Designed for wide area light distribution
- High resistance to coolants and lubricants
- Impervious to mechanical vibration
- Rugged anodized aluminum housing, 4mm safety glass
- Narrow or wide flood
- 50,000 hours maintenance-free operation

### SPECIFICATIONS:

Voltage	24V DC
Lamping	LED
Operation	connect to external source
Color Temperature	5600K
Beam Angle	70° or 100°
Luminaire Material	anodized aluminum
Lens Material	borosilicate glass
Dimension	1.9" diameter x .9"
Power Consumption	11W
Protection Rating	IP67 waterproof
Mounting	surface mounted
Cord/Plug	6" cord with M12 connector
Certification	ETL/cETL approved
Accessories	See page 62

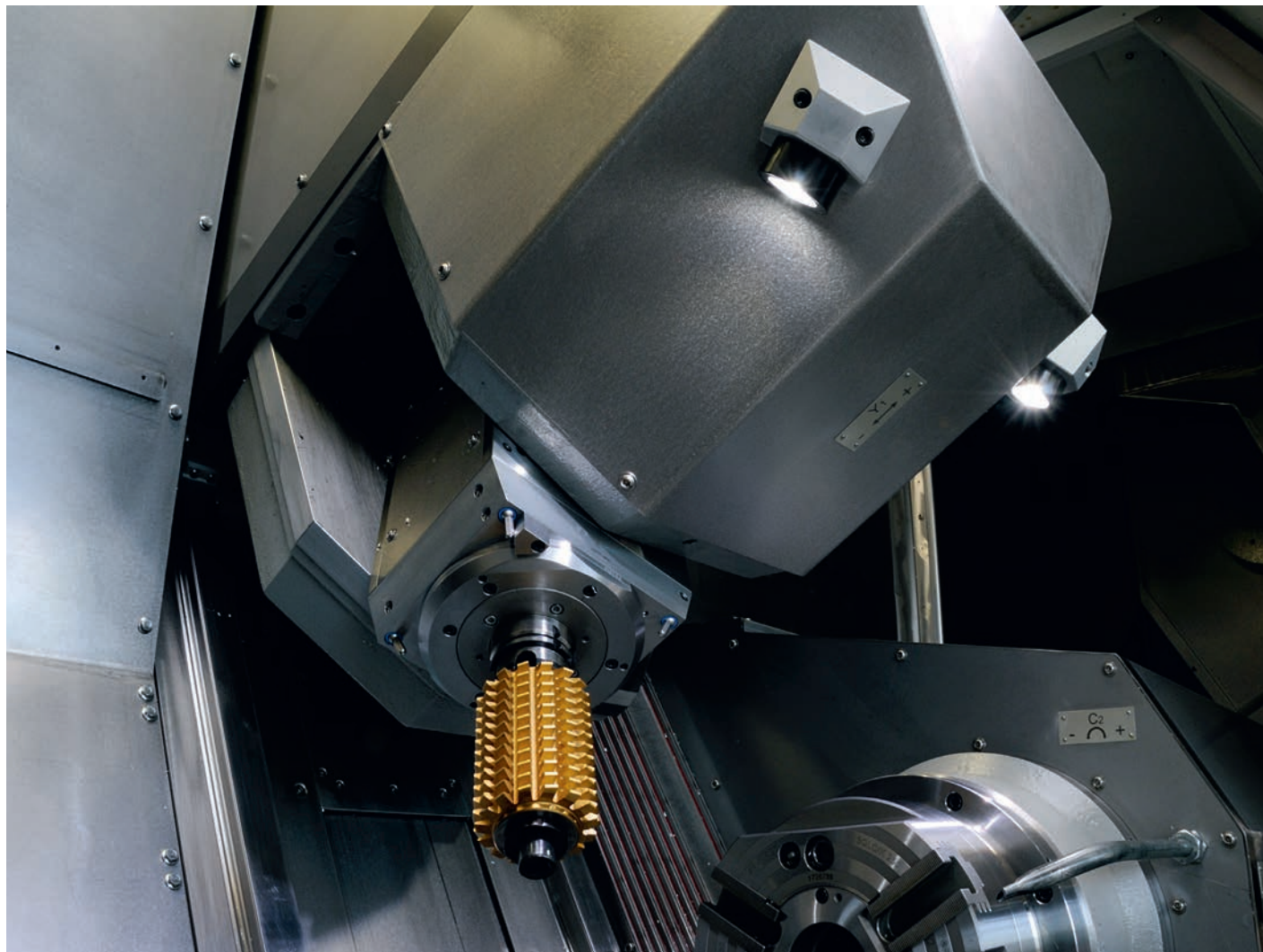


HEAD LED



Measurements in millimeters

HEAD LED is an LED flood light designed for integration into machines and equipment requiring a fixed, high-output light beam. The no-nonsense unit has been reduced to its most essential features - without losing luminous power and lighting quality. As a result, HEAD LED can be easily integrated into custom applications and mounting positions. HEAD LED measures just under one inch in height and less than two inches in diameter. There is no space too small for HEAD LED. This small luminaire can light up an entire machine with its 70- or 100-degree (narrow or wide) flood. It is also impact and vibration resistant, ideal for any machining environment.



#### ORDERING INFORMATION

Version	Beam Spread	Wattage	Lumens	Model	Part #
Wide Flood	100°	11W	805	MCAYL 4 S	113 155 000 - 006 464 85
Narrow Flood	70°	11W	805	MCAYL 4 S	113 155 000 - 006 696 09
External Operating Device	Max. Wattage	Input	Type	Part #	
For 120-277V operation	17W	120-277V	24V DC	209 585 028	
Accessories	Item	Type	Part #		
	M12 connector plug, straight (included)	A-coded	330 603 020 - 000 029 47		

FOR DETAILED SPECIFICATIONS, PLEASE VISIT [WALDMANNLIGHTING.COM](http://WALDMANNLIGHTING.COM)

Machine

Task & Workbench

Magnification & Inspection

Accessories

# ONE LED

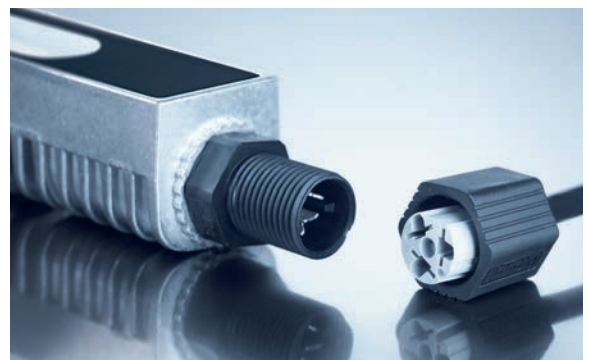
## COMPACT LED FLOOD LIGHT

### FEATURES:

- Housing size:  
H 1.4" (36mm) x W 1.2" (30mm) x L 6.4" (163mm)
- Surface-mount LED flood light
- Latest LED chip-array technology
- Safety glass or PMMA acrylic lens
- Die-cast, heat-sink housing
- Easy to install and connect
- Available with mounting bracket
- 50,000 hours maintenance-free operation
- Designed to withstand difficult conditions
- Impervious to shock and vibration
- Ideal for small machining compartments

### SPECIFICATIONS:

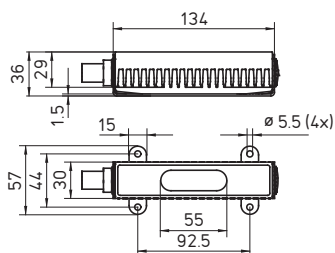
Voltage	20-28V DC
Lamping	LED
Operation	connect to external source
Color Temperature	5000K
Color Rendering Index (CRI)	65
Beam Angle	170°
Luminaire Material	pressure cast aluminum
Lens Material	borosilicate glass or acrylic lens
Power Consumption	6W
Protection Rating	IP67 (glass) or IP54 (acrylic)
Certification	CE, ETL/cETL
Cord/Plug	tool-free connector plug, no cord
Mounting	screws (not included)
Accessories	See page 67



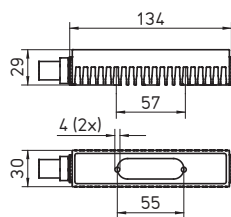
ONE LED was developed with the purpose of providing maximum light with a minimal, no-frills housing. Designed as an all-purpose, waterproof LED area light, ONE LED can be used in the most confined spaces. The luminaire body acts as a heat-sink to dissipate heat away from the beam direction. ONE LED provides maximum LED light output using the latest LED chip-array technology. Despite its minimal housing design, ONE LED can operate at ambient temperatures of up to 120°F. ONE LED is suitable for many industrial applications including printing presses, drill presses, machine compartments and production equipment with minimal space and high operating temperatures. The connection is fast and easy with the Quickon connection system. ONE LED is also resistant to shock, vibration and continuous impact so prevalent in production and manufacturing environments.



**DIMENSIONAL DATA**



ONE LED with bracket



ONE LED without bracket

Measurements in millimeters

**ORDERING INFORMATION**

Wattage	Lens Material	Mounting Bracket	Protection Rating	Lumens	Model	Part #
6W	PMMA acrylic	Not included	IP54	400	MVAL 1 S	112 887 024 - 000 760 49
6W	PMMA acrylic	Included	IP54	400	MVAL 1 S	112 887 027 - 000 760 50
6W	Borosilicate glass	Not included	IP67	400	MVAL 1 S	112 887 034 - 000 760 59
6W	Borosilicate glass	Included	IP67	400	MVAL 1 S	112 887 037 - 000 760 65

External Operating Devices	Max. Wattage	Input	Output	Part #
Required for 120-277V operation	17W	120-277V DC, 50/60HZ	24V DC	209 585 028
	20W	120-240V, 50/60Hz	24V DC	309 537 010 - 006 704 53
	50W	120V, 50/60Hz	24V DC	209 585 030
	75W	120-277V DC, 50/60Hz	24V DC	209 585 031

# SLIM LED

## COMPACT LINEAR LED LIGHT

### FEATURES:

- Small, compact linear housing less than 1 inch (22mm) wide
- Five lengths and light output options
- Adjustable housing version rotates 45°
- Aluminum extruded housing
- Impact and vibration resistant
- 50,000 hours maintenance-free operation

### SPECIFICATIONS:

Voltage	24V DC
Lamping	LED
Color Temperature	5400K
Beam Angles	adjustable beam direction +/- 45°
Luminaire Material	anodized aluminum
Lens Material	acrylic: clear, satine or no lens
Dimension	varied lengths, less than 1" wide
Protection Rating	IP67
Cord/Plug	10' cord with free stranded wires
Mounting	adjustable or fixed housing
Certification	CE, ETL/cETL approved
Accessories	See page 68

NOTE: NOT FOR USE WITH COOLANTS OR LUBRICANTS



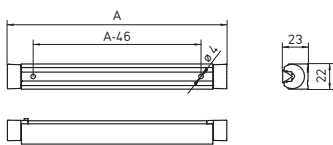
SLIM LED is a family of compact, low-profile LED luminaires designed for both interior and exterior applications. Optimal linear flood lighting is delivered using the latest technology in which the LEDs are directly attached to a flexible circuit board. The sleek profile of SLIM LED allows adjustability to 45° in either direction and five different lengths offer installation flexibility for a wide variety of applications. The compact size allows for easy integration into an existing system, while providing exceptional energy efficiency, low-voltage safety and numerous design possibilities.

PLEASE NOTE: Although SLIM LED is completely waterproof, it is not recommended for use with coolants or lubricants.



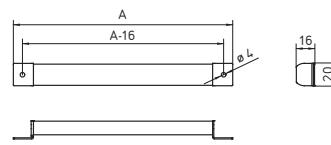


## DIMENSIONAL DATA



SLIM LED +/- 45° Adjustable Housing

Measurements in millimeters



SLIM LED with Flange

## ORDERING INFORMATION

Wattage	Length (A)	Mounting Style	Lens Type	Lumens	Model	Part #
3.5W	7.7" (196mm)	Adjustable	Clear	186	LIQ 6	112 544 000 - 000 013 28
3.5W	7.7" (196mm)	Adjustable	Satine	186	LIQ 6	112 544 005 - 000 111 00
3.5W	7.7" (196mm)	Adjustable	No lens	186	LIQ 6	112 544 010 - 000 111 01
3.5W	7.7" (196mm)	Non-adjustable w/ flange	Clear	186	LIQ 6	112 545 000 - 000 013 51
3.5W	7.7" (196mm)	Non-adjustable w/ flange	Satine	186	LIQ 6	112 545 005 - 000 111 20
3.5W	7.7" (196mm)	Non-adjustable w/ flange	No lens	186	LIQ 6	112 545 010 - 000 111 21
7W	13.2" (336mm)	Adjustable	Clear	372	LIQ 12	112 544 001 - 000 110 81
7W	13.2" (336mm)	Adjustable	Satine	372	LIQ 12	112 544 006 - 000 110 88
7W	13.2" (336mm)	Adjustable	No lens	372	LIQ 12	112 544 011 - 000 111 02
7W	13.2" (336mm)	Non-adjustable w/ flange	Clear	372	LIQ 12	112 545 001 - 000 111 25
7W	13.2" (336mm)	Non-adjustable w/ flange	Satine	372	LIQ 12	112 545 006 - 000 111 28
7W	13.2" (336mm)	Non-adjustable w/ flange	No lens	372	LIQ 12	112 545 011 - 000 111 29
14W	24.3" (616mm)	Adjustable	Clear	744	LIQ 24	112 544 002 - 000 110 82
14W	24.3" (616mm)	Adjustable	Satine	744	LIQ 24	112 544 007 - 000 110 85
14W	24.3" (616mm)	Adjustable	No lens	744	LIQ 24	112 544 012 - 000 111 03
14W	24.3" (616mm)	Non-adjustable w/ flange	Clear	744	LIQ 24	112 545 002 - 000 111 30
14W	24.3" (616mm)	Non-adjustable w/ flange	Satine	744	LIQ 24	112 545 007 - 000 111 31
14W	24.3" (616mm)	Non-adjustable w/ flange	No lens	744	LIQ 24	112 545 012 - 000 111 32
21W	35.3" (896mm)	Adjustable	Clear	1116	LIQ 36	112 544 003 - 000 110 83
21W	35.3" (896mm)	Adjustable	Satine	1116	LIQ 36	112 544 008 - 000 110 86
21W	35.3" (896mm)	Adjustable	No lens	1116	LIQ 36	112 544 013 - 000 111 04
21W	35.3" (896mm)	Non-adjustable w/ flange	Clear	1116	LIQ 36	112 545 003 - 000 111 33
21W	35.3" (896mm)	Non-adjustable w/ flange	Satine	1116	LIQ 36	112 545 008 - 000 111 34
21W	35.3" (896mm)	Non-adjustable w/ flange	No lens	1116	LIQ 36	112 545 013 - 000 111 35
28W	46.3" (1176mm)	Adjustable	Clear	1488	LIQ 48	112 544 004 - 000 110 84
28W	46.3" (1176mm)	Adjustable	Satine	1488	LIQ 48	112 544 009 - 000 110 87
28W	46.3" (1176mm)	Adjustable	No lens	1488	LIQ 48	112 544 014 - 000 111 05
28W	46.3" (1176mm)	Non-adjustable w/ flange	Clear	1488	LIQ 48	112 545 004 - 000 111 36
28W	46.3" (1176mm)	Non-adjustable w/ flange	Satine	1488	LIQ 48	112 545 009 - 000 111 37
28W	46.3" (1176mm)	Non-adjustable w/ flange	No lens	1488	LIQ 48	112 545 014 - 000 111 38

External Operating Devices	Max. Wattage	Input	Output	Part #
Required for 120-277V operation	17W	120-277V DC, 50/60Hz	24V DC	209 585 028
	20W	120-240V, 50/60Hz	24V DC	309 537 010 - 006 704 53
	50W	120V, 50/60Hz	24V DC	209 585 030
	75W	120-277V DC, 50/60Hz	24V DC	209 585 031
	100W	120-277V DC, 50/60Hz	24V DC	309 538 010 - 006 704 56

# HI-20

## COMPACT HALOGEN SPOT LIGHT

### FEATURES:

- 20W IRC halogen lamps last 4,000 hrs
- Several beam spreads available
- Gooseneck arm tested for 20,000 movements
- Convenient switch on luminaire head
- 5-axis arm movement
- Universal base for permanent mounting
- Plug-in transformer for 120V operation

### SPECIFICATIONS:

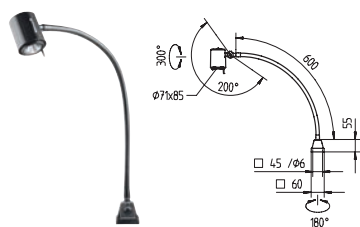
Voltage	12V or 120V, 50/60Hz
Lamping	MRC-16 IRC halogen
Operation	switch on 120V models
Luminaire Head Material	aluminum
Arm Material	powder-coated steel arm
Lens Material	borosilicate glass
Arm Reach	23" gooseneck or 27" articulating arm
Protection Rating	IP20
Cord/plug	Various
Certification	ETL/cETL approved
Mounting and accessories	See page 63



HI-20 Series was designed to take advantage of the latest in halogen lamp technology, IRC halogen. This technology generates more usable light in the visible spectrum, providing more clarity with less energy consumption. This lamp technology also doubles the rated lamp life when compared to standard MR-16 halogen lamps. The sturdy metal head and rugged design ensures increased service life and protection from dust, dirt and debris. The ability to customize the beam angle and select either low-voltage or line-voltage installation makes HI-20 easy to integrate into existing machines and equipment. With flexible mounting options, the HI-20 installs easily into a wide range of machines, workbenches and production equipment, offering enhanced productivity for your facility in large or small work areas.

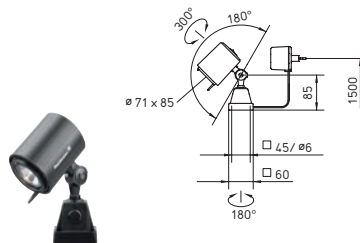


## DIMENSIONAL DATA

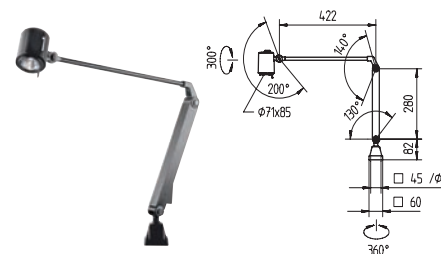


Gooseneck Arm

Measurements in millimeters



Pivoting Head



Articulating Arm

## ORDERING INFORMATION

Description	Voltage	120V Transformer Incl.	Model	Part #
Gooseneck arm, 23" reach	12V	No	HITF-20 S	112 379 025 - 000 684 01
Gooseneck arm, 23" reach	120V	Yes	HITF-20 N	112 415 081 - 000 716 09
Articulating arm, 27" reach	12V	No	HIBF-20 S	112 416 065 - 000 716 70
Articulating arm, 27" reach	120V	Yes	HIBF-20 N	112 417 061 - 000 716 85
Pivoting head	12V	No	HIXF-20 S	112 418 065 - 000 716 48
Pivoting head	120V	Yes	HIXF-20 N	112 419 061 - 000 716 44

Mounting Options	Item	Dimensions	Part #
	Universal base for table/wall (included)	2.4" x 2.4"	204 090 019
	Table clamp	0" - 2.75" span	190 007 019 - 000 149 04
	Table clamp	2.5" - 5.4" span	190 033 019 - 000 149 50
	Wall bracket	2.4" x 2.8"	300 213 018 - 000 251 78
	Magnetic base	3.3" diameter	190 057 019 - 000 150 56
*Articulating arm model only	Table base, rectangular*	10.5" x 6.7" x 1"	190 036 109 - 000 582 38

Replacement Lamps	Item	Wattage	Beam Angle	Part #
	MRC-16 IRC halogen	12W	10°	320 471 010 - 000 582 85
	MRC-16 IRC halogen	12W	24° (included)	320 471 020 - 000 582 86
	MRC-16 IRC halogen	12W	38°	320 471 030 - 000 676 11
	MRC-16 IRC halogen	12W	60°	320 471 040 - 000 676 12
	MR-16 IRC halogen	23W	10°	320 724 010 - 000 679 12

Accessories	Item	Strength	Mounting	Part#
	Clip-on magnifier	4 diopters	Clip-on	190 062 019 - 000 150 58
	Clip-on magnifier	4 + 12 diopters	Clip-on	190 062 029 - 000 150 59

# HSW

## WATERPROOF HALOGEN SPOT LIGHT

### FEATURES:

- Waterproof (IP65) halogen spot light designed for industrial use
- Heavy-duty articulating arm provides maximum reach
- A 4-hole mounting base is included for secure permanent installations
- Easily accessible, built-in ergonomic switch on luminaire head
- HSW- 20 and HSWK-20 models available for 12V operation
- The HSWK-75 pivoting head version is ideal for smaller machines and work areas requiring very high illumination levels
- Industrial-grade arm systems are designed for years of trouble-free service, allowing for constant repositioning and precise adjustment

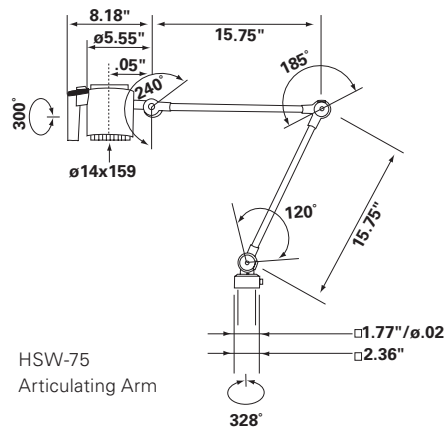
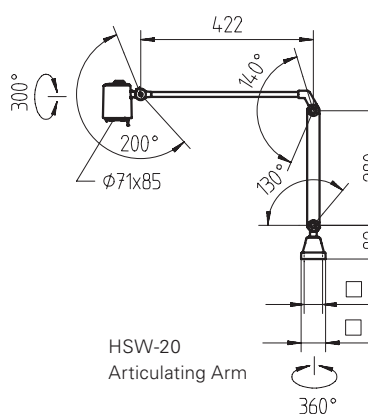
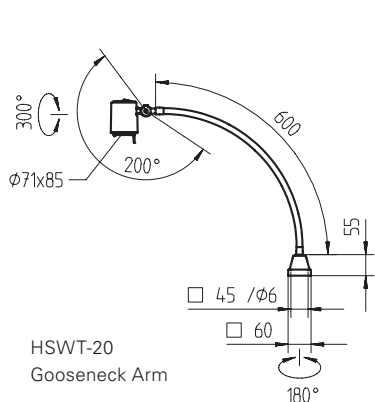
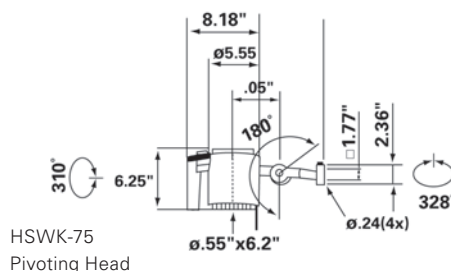
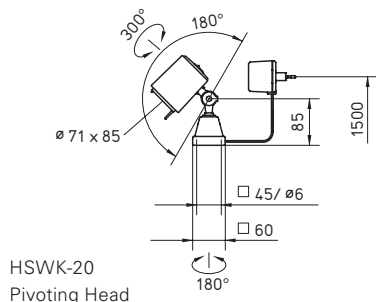
### SPECIFICATIONS:

Voltage	12V or 24V AC/DC, 50/60Hz
Lamping	MR-16 halogen
Operation	switch on some models
Beam Angle	10° or 38°
Luminaire Material	high-impact ABS plastic
Lens Material	borosilicate glass
Lens Dimensions	HSW-20: 2.2" diameter glass lens HSW-75: 4.2" diameter double glass lens
Arm Reach	23" gooseneck or 27" articulating arm
Protection Rating	IP65
Cord/Plug	various
Mounting and accessories	See page 64



The HSW Series from Waldmann utilizes 20W and 75W halogen lamps to generate bright, focused light to the machining area. Suitable for use on most production machines and equipment, the HSW Series offers both 12V and 24V lighting equipment for easy connection and integration with existing equipment. It also makes an ideal upgrade for many original task lights found on machines that fail in difficult industrial environments. The HSW-75 waterproof halogen light delivers over 40% more light to the work surface than standard halogen lights by utilizing a 75-watt halogen lamp with a special reflector design. To provide glare-control, a built-in louver minimizes harsh, unwanted glare and light spill. All usable light is directed towards the work area and away from the machine operator's eyes, increasing safety. The HSW is impervious to coolants, oils and other lubricants making it ideal for machining areas where fluids are present. Typical applications include CNC machinery, drill presses, punch presses, mills, lathes and turning centers.

## DIMENSIONAL DATA



Measurements in millimeters

## ORDERING INFORMATION

Description	Wattage	Voltage	Switch Included	Model	Part #
Articulating arm	20W	12V	Yes	HSW-20	112 043 000 - 000 782 10
Articulating arm	20W	24V	Yes	HSW-20	112 043 010 - 000 782 14
Pivoting head	20W	12V	No	HSWK-20	112 081 000 - 000 781 97
Pivoting head	20W	24V	No	HSWK-20	112 081 010 - 000 781 98
Gooseneck arm	20W	12V	Yes	HSWT-20	112 049 012 - 000 788 84
Gooseneck arm	20W	24V	Yes	HSWT-20	112 049 010 - 000 788 85
Articulating arm	75W	12V	Yes	HSW-75	112 185 000 - 000 051 80
Articulating arm	75W	24V	Yes	HSW-75	112 185 010 - 000 052 46
Pivoting head	75W	12V	No	HSWK-75	112 187 003 - 000 051 85
Pivoting head	75W	24V	No	HSWK-75	112 187 013 - 000 052 36

Mounting Options	Item	Dimensions	Part #
	Universal base for table/wall (included)	2.4" x 2.4"	204 090 019
	Table clamp	0" - 2.75" span	190 007 019 - 000 149 04
	Table clamp	2.5" - 5.4" span	190 033 019 - 000 149 50
	Wall bracket	2.4" x 2.8"	300 213 018 - 000 251 78
	Magnetic base	3.3" diameter	190 057 019 - 000 150 56
	Table base, rectangular*	10.5" x 6.7" x 1"	190 036 109 - 000 582 38

\*HSW-20 articulating arm model only

Replacement Lamps	Item	Wattage	Voltage	Beam Angle	Part #
	MR-16 halogen	20W	12V	10° (incl. in 12V)	320 471 090
	MR-16 halogen	20W	12V	38°	320 471 110
	MR-16 halogen	23W	24V	10° (incl. in 24V)	320 724 010 - 000 679 12
	Bi-pin halogen	75W	12V	na	320 283 030
	Bi-pin halogen	75W	24V	na	320 283 060 - 000 045 96

# HG

## WATERPROOF HALOGEN SPOT LIGHT

### FEATURES:

- Halogen industrial task light designed for large machining areas
- Available in waterproof (HGW & HGWK) and non-waterproof models (HG)
- Low voltage models require only 24V supplied to the lamp, improving operator safety
- 120V versions include a remote transformer in waterproof case for plug-in 120V operation
- Extruded aluminum ergonomic handle and heat shield provide safe, easy positioning
- 3 adjustable positioning axes for head
- 5in head with side connection strain reliefs and terminal block, insure easy installation
- Optional transformers are available either alone or mounted inside waterproof cases
- 4-hole mounting base included
- 12V models are available. Please contact Customer Service for additional information.

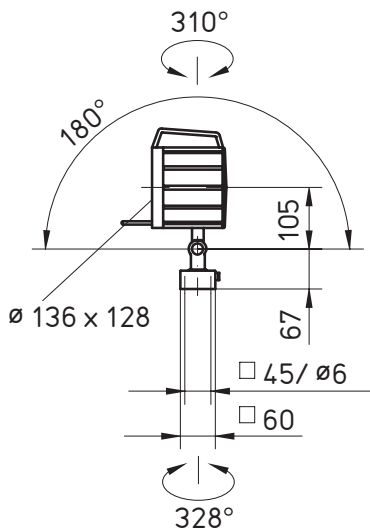
### SPECIFICATIONS:

Voltage	24V or 120V, 50/60Hz
Lamping	H3 halogen
Luminaire Body	extruded aluminum head, steel arm
Operation	models available with or without switch
Lens Cover	borosilicate glass
Protection Rating	HG - IP20
	HGW - IP65 w/switch
	HGW - IP67 without switch
Cord Length	none; direct power supply
Mounting and accessories	See page 63

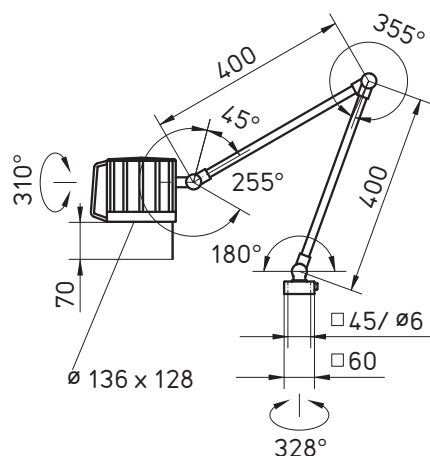


When a powerful halogen spot light is required on machinery, Waldmann halogen luminaires are the perfect solution. The HG and HGW Series of halogen luminaires offer a concentrated, intense light beam for your larger machining areas. The ingenious anti-glare louver in the HG and HGW head prevents glare from bothering co-workers. The HGW-70 machine light is the high powered solution for work areas requiring an intense light over longer distances. The 32" arm is available for maximum positioning. The 18" arm may be used in areas with less space. Both models include a double lens for heat reduction. The waterproof pivoting head version of our powerful HGW halogen series provides an intense light source where space is limited under harsh conditions.

## DIMENSIONAL DATA



HGWK Pivoting Head



HGW Articulating Arm

Measurements in millimeters

## ORDERING INFORMATION

Description	Voltage	Arm Reach	IP Rating	Transformer Incl.	Switch Incl.	Model	Part #
Pivoting head	24V	na	IP67	No	No	HGWK-70	008 308 800
Pivoting head	24V	na	IP65	No	Yes	HGWK-70	008 308 802
Pivoting head	120V	na	IP65	Yes	Yes	HGWK-70	008 308 806
Articulating arm	24V	18" reach	IP65	No	Yes	HGW-70	100 870 801
Articulating arm	24V	32" reach	IP65	No	Yes	HGW-70	100 870 803
Articulating arm	120V	18" reach	IP65	Yes	Yes	HGW-70	108 870 801
Articulating arm	120V	32" reach	IP65	Yes	Yes	HGW-70	108 870 802

Mounting Options	Item	Dimensions	Part #
	Table clamp	0" - 2.75" span	190 007 019 - 000 149 04
	Table clamp	2.5" - 5.4" span	190 033 019 - 000 149 50
	Wall bracket	2.4" x 2.8"	300 213 018 - 000 251 78

Accessories	Item	Type	Finish	For Use With:	Part #
	Transformer	60VA, 120V	Enclosed w/case	24V fixtures	150 127 M19
	Transformer	60VA, 120V	W/out case	24V fixtures	150 125 M19
	Transformer	60VA, 230V	W/out case	24V fixtures	150 048 019 - 000 146 31

Replacement Lamp	Item	Type	Lens Finish	For Use With:	Part #
	Halogen lamp	H3, 60W	n/a	24V and 120V fixtures	450 070 300 - 000 415 40
	Halogen lamp	H3, 55W	n/a	12V fixtures	450 055 300
	Replacement lens	Hardened glass	Clear	na	305 412 010 - 000 295 13
	Replacement lens	Hardened glass	Frosted	na	305 412 020 - 000 295 15
	Replacement lens	Tempered glass	Clear	na	305 412 030

# RL70

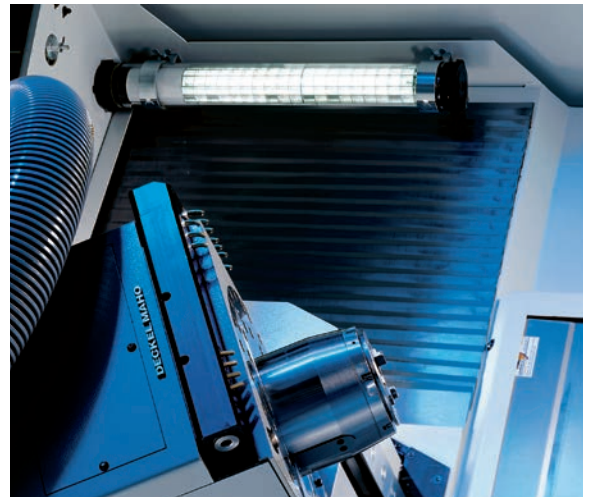
## INDUSTRIAL FLUORESCENT TUBE LIGHT

### FEATURES:

- RL70 CE Series - For compact fluorescent lamps and electronic ballast (CE)
- RL70 E Series - For standard bi-pin T5, T5HO and T8 lamps, electronic ballast only
- RL70 S Series- For remote ballast applications, ballast not included
- "All-In-One" models are pre-wired with electronic ballast, 8ft cord set and brackets
- "H" models include piggyback, low-profile electronic ballasts, louver and end caps

### SPECIFICATIONS:

Voltage	24V AC or DC, 120-277V, 50/60Hz
Lamping	CFL, T5, T5HO, T8, fluorescent
Operation	connect to external source
Color Temperature	4000K
Tube Material	acrylic or borosilicate glass
Dimension	2.75" diameter, various lengths
Protection Rating	IP67
Cord/Plug	only on specified models
Certification	CE, ETL/cETL approved
Mounting and accessories	See page 67



The RL70 industrial tube light provides broad, wide area illumination inside the machine compartment and is ideal for areas requiring a high output, linear fluorescent light source. This durable, waterproof (IP67) luminaire is available in varying lengths, with a variety of mounting options to fit a wide range of applications. Available with either glass or acrylic tubes, the RL70 is designed to illuminate hard to reach areas too small for traditional luminaire mounting. It is designed to be impervious to debris, coolants and lubricants found inside the machine compartment. The RL70 is designed to be impervious to debris, coolants and lubricants found inside the machine compartment. With a wide range of sizes, variants and mounting accessories, RL70 installs easily in a variety of equipment, machine compartments and enclosures. They are available in lengths from 17" to 67" and provide powerful, glare-free illumination. Low-voltage models are also available in 24V DC for improved safety and connection to an existing 24V power supply on the machine.



**RL70 C SERIES (CFL and electronic ballasts)**

Length	Voltage	Tube	Lamping	Lumens	Model	Part #
18.9" (480mm)	120V; 60Hz	Acrylic	18W T5 CFL	1250	RL70CE-118	041 803 016 - 000 069 93
18.9" (480mm)	120V; 60Hz	Glass	18W T5 CFL	1250	RL70CE-118	041 803 015 - 000 800 14
20.6" (524mm)	24V DC	Acrylic	18W T5 CFL	1250	RL70CE-118	112 370 000 - 000 841 57
20.6" (524mm)	24V DC	Glass	18W T5 CFL	1250	RL70CE-118	112 370 001 - 000 841 61
20.6" (524mm)	24V AC; 50/60Hz	Acrylic	18W T5 CFL	1250	RL70CE-118	112 369 000 - 000 841 94
20.6" (524mm)	24V AC; 50/60Hz	Glass	18W T5 CFL	1250	RL70CE-118	112 369 001 - 000 842 04
26.7" (679mm)	120-277V; 50/60Hz	Acrylic	24W T5 CFL	2000	RL70CE-124	108 670 000 - 000 814 48
26.7" (679mm)	120-277V; 50/60Hz	Glass	24W T5 CFL	2000	RL70CE-124	108 670 001 - 000 814 50
26.7" (679mm)	120-277V; 50/60Hz	Acrylic	24W T5 CFL	2000	RL70CE-124	108 670 M00*
26.7" (679mm)	120-277V; 50/60Hz	Glass	24W T5 CFL	2000	RL70CE-124	108 670 M01*
19.5" (495mm)	100-280V; 50/60Hz	Acrylic	24W T5 CFL	2000	RL70CE-124H	112 913 010 - 004 887 29
19.5" (495mm)	100-280V; 50/60Hz	Glass	24W T5 CFL	2000	RL70CE-124H	112 913 011 - 004 887 35
25.2" (639mm)	24V DC	Acrylic	24W T5 CFL	2000	RL70CE-124	111 440 000 - 000 571 73
25.2" (639mm)	24V DC	Glass	24W T5 CFL	2000	RL70CE-124	111 440 001 - 000 571 75
25.2" (639mm)	24V AC; 50/60Hz	Acrylic	24W T5 CFL	2000	RL70CE-124	111 410 000 - 000 571 56
25.2" (639mm)	24V AC; 50/60Hz	Glass	24W T5 CFL	2000	RL70CE-124	111 410 001 - 000 571 58
31" (788mm)	120-277V; 50/60Hz	Acrylic	36W T5 CFL	2900	RL70CE-136	108 680 000 - 000 814 55
31" (788mm)	120-277V; 50/60Hz	Glass	36W T5 CFL	2900	RL70CE-136	108 680 001 - 000 814 57
31" (788mm)	120-277V; 50/60Hz	Acrylic	36W T5 CFL	2900	RL70CE-136	108 680 M00*
31" (788mm)	120-277V; 50/60Hz	Glass	36W T5 CFL	2900	RL70CE-136	108 680 M01*
21.5" (546mm)	110-230V; 50/60Hz	Acrylic	36W T5 CFL	2900	RL70CE-136H	619 063 010 - 000 775 90**
21.5" (546mm)	110-230V; 50/60Hz	Glass	36W T5 CFL	2900	RL70CE-136H	619 063 011 - 000 059 22**
29.4" (747mm)	24V DC	Acrylic	36W T5 CFL	2900	RL70CE-136	111 450 000 - 000 640 46
29.4" (747mm)	24V DC	Glass	36W T5 CFL	2900	RL70CE-136	111 450 001 - 000 571 77
29.4" (747mm)	24V AC; 50/60Hz	Acrylic	36W T5 CFL	2900	RL70CE-136	111 420 000 - 000 571 61
29.4" (747mm)	24V AC; 50/60Hz	Glass	36W T5 CFL	2900	RL70CE-136	111 420 001 - 000 571 64

**Types of fluorescent lamps**


Compact Fluorescent (CFL)



T8 Fluorescent (LFL)



T5 and T5HO Fluorescents (LFL)

\* All-in-one model, includes short brackets and 8ft cord

\*\* Piggyback ballast (ballast located behind lamps), w/ louver, no cord or bracket

**RL70 E SERIES** (For standard bi-pin T5 & T8 lamps)

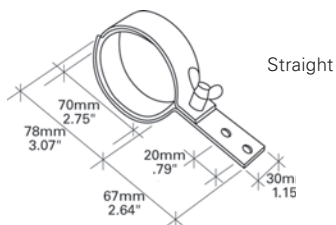
Length	Voltage	Tube	Lamping	Lumens	Model	Part #
36.2" (919mm)	24V DC	Acrylic	F18T8	1600	RL70E-118	111 690 000 - 000 634 06
36.2" (919mm)	24V DC	Glass	F18T8	1600	RL70E-118	111 690 001 - 000 634 08
36.2" (919mm)	24V AC; 50/60Hz	Acrylic	F18T8	1600	RL70E-118	111 650 000 - 000 630 29
36.2" (919mm)	24V AC; 50/60Hz	Glass	F18T8	1600	RL70E-118	111 650 001
40.6" (1030mm)	120-277V; 50/60Hz	Acrylic	F17T8	1400	RL70E-117	128 100 000 - 000 848 31
40.6" (1030mm)	120-277V; 50/60Hz	Glass	F17T8	1400	RL70E-117	128 100 001 - 000 848 32
40.6" (1030mm)	120V; 60Hz	Acrylic	F17T8	1400	RL70E-117	128 100 900*
40.6" (1030mm)	120V; 60Hz	Glass	F17T8	1400	RL70E-117	128 100 901*
41.2" (1047mm)	120-277V; 50/60Hz	Acrylic	2 x 24WT5HO	4000	RL70E-224	138 451 000 - 000 196 65
41.2" (1047mm)	120-277V; 50/60Hz	Glass	2 x 24WT5HO	4000	RL70E-224	138 451 001 - 000 196 72
52.6" (1335mm)	120-277V; 50/60Hz	Acrylic	F25T8	2500	RL70E-125	128 110 000 - 000 848 33
52.6" (1335mm)	120V; 60Hz	Acrylic	F25T8	2500	RL70E-125	128 110 900*
60.3" (1532mm)	24V DC	Acrylic	F36T8	2900	RL70E-136	111 730 000 - 000 599 87
60.3" (1532mm)	24V DC	Glass	F36T8	2900	RL70E-136	111 730 001 - 000 599 91
60.3" (1532mm)	24V AC; 50/60Hz	Acrylic	F36T8	2900	RL70E-136	111 720 000 - 000 599 78
60.3" (1532mm)	24V AC; 50/60Hz	Glass	F36T8	2900	RL70E-136	111 720 001 - 000 599 80
52.7" (1338mm)	120-277V; 50/60Hz	Acrylic	2 x 39WT5HO	7000	RL70E-239	138 450 000 - 000 197 26
52.7" (1338mm)	120-277V; 50/60Hz	Glass	2 x 39WT5HO	7000	RL70E-239	138 450 001 - 000 197 27
65.2" (1656mm)	120-277V; 50/60Hz	Acrylic	F32T8	2900	RL70E-132	128 120 000 - 000 848 35
65.2" (1656mm)	120-277V; 50/60Hz	Glass	F32T8	2900	RL70E-132	128 120 001 - 000 848 36
65.2" (1656mm)	120V; 60Hz	Acrylic	F32T8	2900	RL70E-132	128 120 900*
65.2" (1656mm)	120V; 60Hz	Glass	F32T8	2900	RL70E-132	128 120 901*
67.4" (1711mm)	100-280V; 50/60Hz	Glass	2 x 54WT5HO	10000	RL70E-254	138 491 001 - 004 888 41

\* All-in-one model, includes built-in brackets and 8ft cord

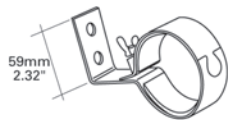
**RL70 S SERIES** (For use w/ remote ballast, to be purchased separately)

Length	Voltage	Tube	Lamping	Lumens	Model	Part #
14.4" (367mm)	per remote ballast	Acrylic	18W T5 CFL	1250	RL70C-118 S	108 210 000 - 000 555 26
14.4" (367mm)	per remote ballast	Glass	18W T5 CFL	1250	RL70C-118 S	108 210 001 - 000 554 22
20.7" (525mm)	per remote ballast	Glass	36W T5 CFL	2900	RL70C-136 S	108 620 001 - 000 138 18
30.9" (784mm)	per remote ballast	Acrylic	17W T8 LFL	1400	RL70C-117 S	128 130 000 - 000 848 37
30.9" (784mm)	per remote ballast	Glass	17W T8 LFL	1400	RL70C-117 S	128 130 001
54.9" (1394mm)	per remote ballast	Acrylic	32W T8 LFL	2950	RL70C-132 S	128 150 000 - 000 848 41

## MOUNTING ACCESSORIES



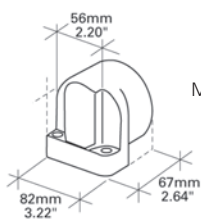
Straight



Long L



Short L



Molded End Cap

Item	Bracket Material	Insert Material	Part #
Bracket, straight	Galvanized steel	Neoprene	190 015 019 - 000 149 30
Bracket, long-L	Galvanized steel	Neoprene	SK1 021 019 - 000 102 86
Bracket, short-L	Galvanized steel	Neoprene	190 015 995
Bracket, straight	Galvanized steel	Profiled rubber	190 015 719 - 000 854 98
Bracket, long-L	Galvanized steel	Profiled rubber	SK1 021 719 - 000 854 99
Bracket, short-L	Galvanized steel	Profiled rubber	SK0 995 719 - 000 856 52
Bracket, straight	Stainless steel	Neoprene	190 180 019 - 000 927 31
Bracket, long-L	Stainless steel	Neoprene	190 183 019 - 000 939 61
Bracket, short-L	Stainless steel	Neoprene	190 181 019 - 000 927 28
Bracket, straight	Stainless steel	Profiled rubber	190 180 719 - 000 927 30
Bracket, long-L	Stainless steel	Profiled rubber	190 169 719 - 000 893 51
Bracket, short-L	Stainless steel	Profiled rubber	190 181 719 - 000 927 29
End Caps (set of two)	Black plastic	na	US0 165 012

\*All RL models require 2 mounting brackets per fixture unless otherwise noted

## REMOTE BALLASTS FOR S SERIES

Wattage	For Use With	Voltage	Part #
1x24/39W or 2x24/39W	T5 LFL	120-277V; 50/60Hz	309 361 050 - 000 922 19
1x18/24/36W or 2x18/24/36W	T5 CFL	120-277V; 50/60Hz	309 439 010 - 000 937 16
1x17/25/32W	T8 Lamps	120-277V; 50/60Hz	309 368 010

## RL70 REPLACEMENT LAMPS

Item	Base	Lumens	Length	Part #
17W T8 LFL	G13	1400	23.9" (609mm)	450 017 020
18W T5 CFL	2G11	1250	9" (229mm)	450 018 010
24W T5 CFL	2G11	2000	22" (559mm)	450 024 M10
25W T8 LFL	G13	2225	35.9" (914mm)	450 025 020
32W T8 LFL	G13	2950	47.9" (1219mm)	450 032 020
36W T5 CFL	2G11	2900	16.5" (419mm)	450 036 M10
24W T5HO CFL	G5	2000	22.2" (563mm)	450 024 M12
39W T5HO CFL	G5	3500	34" (864mm)	450 039 012
54W T5HO CFL	G5	5000	45.9" (1168mm)	450 054 012

# AWD

## COMPACT WATERPROOF INDUSTRIAL FLUORESCENT TUBE LIGHT

### FEATURES:

- Water-tight protection rating of IP67
- Long-term protection against coolants, lubricant
- Borosilicate glass tube for extra protection
- Fiberglass-reinforced polyamide body
- Steel conduit thread screw for quick connections and easy installation
- Energy-saving and economical CFL lamp technology combined with electronic ballast provides high light output and long lamp life (10,000 hrs)

### SPECIFICATIONS:

Voltage	24V DC
Lamping	CFL
Operation	connect to external source
Color Temperature	4100K
Color Rendering Index (CRI)	80
Luminaire Material	fiberglass-reinforced polyamide
Tube Material	borosilicate glass
Dimension	11.3" length, 2.75" diameter
Power Consumption	18W
Protection Rating	IP67
Mounting	2-prong connector/thread mount
Accessories	See page 62



AWD is ideal for smaller industrial applications requiring a compact, high output luminaire with integral glare control. These 11 inch tubular fluorescent luminaires are available with or without louvers and are completely waterproof with a protection rating of IP67. Louvers provide glare-free illumination and precise directional light to work areas and machine interiors. AWD is sealed completely against dust, water, petroleum-based fluids, and is designed to withstand the impact of flying debris and hot metal chips. AWD is also suitable for applications where vibration and impact may be present. CFL (Compact Fluorescent Lamps) provide energy-efficient, bright illumination and are easy to maintain. With 4100K color temperature lamps for neutral color appearance, the AWD Series is perfect for general illumination in areas requiring a small form factor. Tubes are made of borosilicate glass for petroleum-based fluids and coolants.



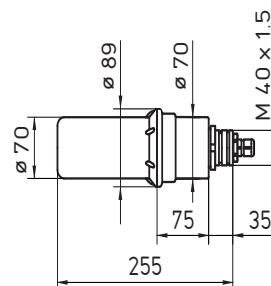
Machine

Task & Workbench

Magnification & Inspection



AWDCE-118 with louver



Measurements in millimeters

**ORDERING INFORMATION**

Wattage	Voltage	Tube Type	Length	Louvers Incl.	Lumens	Model	Part #
18W	24V DC	Glass	11.3" (290mm)	No	1200	AWDCE-118	112 153 001 - 000 836 32
18W	24V DC	Glass	11.3" (290mm)	Yes	1200	AWDCE-118	112 153 011 - 000 836 33

Mounting Option	Item	Material	Color	Part #
	Wall bracket	Hardened plastic	Black	191 092 019 - 000 867 27

Replacement Lamp	Item	Base	Lumens	Part #
	18W CFL	G24Q2	1200	450 018 182

Accessories



## INDUSTRIAL LIGHTING | TASK & WORKBENCH

**TANEO** - ARM -MOUNTED AND SYSTEM LED LUMINAIRE **40 - 41**

**TAMETO** - WORKSTATION LIGHTING **42 - 43**

**MINELA SOL** - WORKBENCH LED TASK LIGHT **44 - 45**

**SNE** - UNIVERSAL INDUSTRIAL TASK LIGHT **46 - 47**

Machine

Task & Workbench

Magnification & Inspection

Accessories

# TANEO

## LED LUMINAIRE

### FEATURES:

- Power consumption 15W, 31W or 47W
- 4000K or 5000K color temperature available
- Glare-free - clear or translucent acrylic prismatic lens
- Dimming capability 100% to 10% of total light output
- Anodized aluminum housing
- Spring-balanced arm with 3D head joint
- Touch panel integrated in the luminaire head for on/off and dimming
- Wall power supply (15W) or table power supply (31W and 47W)
- 100–240V, 50/60Hz
- 10' cord with US plug included
- ETL/cETL approved

### SPECIFICATIONS:

Voltage	100-240V, 50/60Hz
Lamping	LED
Controls	touch panel w/ switch on head
Color Temperature	4000K or 5000K
Color Rendering Index (CRI)	80
Luminaire Head Material	anodized aluminum
Arm Material	aluminum
Lens Material	polycarbonate
Head Dimension	8.6", 15.7" or 22.7"
Arm Reach	40" reach (arm version)
Power Consumption	15W, 31W or 47W
Protection Rating	IP20
Certification	ETL/cETL approved CE marked
Cord/Plug	11' power cord w/ plug
Mounting and accessories	See page 71



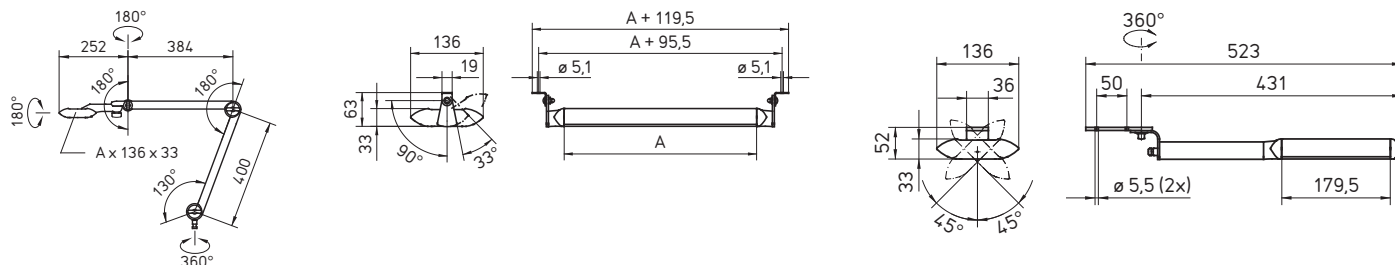
TANEO is a sophisticated LED lighting solution designed to provide premium performance for a myriad of task lighting applications. With three available light output levels, as well as options for lenses, color rendering and the type of mounting that will work best, TANEO can properly fulfill every luminance requirement.

TANEO is energy-efficient, consuming 30% less energy when compared to conventional task luminaires with the same luminous power. High lighting quality and ergonomic handling make TANEO ideal for manufacturing, assembly or quality control procedures, as well as laboratory, electronic or metalworking environments.





## DIMENSIONAL DATA



Measurements in millimeters

## ORDERING INFORMATION

Version	Wattage	Color Temp.	Lens	Dimension (A)	Lumens	Model	Part #
Articulated arm	15W	4000K	Clear prismatic	8.6" (218mm)	650	STZL 12 R	112 576 000 - 005 620 55
Articulated arm	15W	5000K	Clear prismatic	8.6" (218mm)	650	STZL 12 R	112 576 000 - 005 620 45
Articulated arm	15W	4000K	Translucent	8.6" (218mm)	600	STZL 12 R	112 576 000 - 005 620 95
Articulated arm	15W	5000K	Translucent	8.6" (218mm)	600	STZL 12 R	112 576 000 - 005 621 04
Articulated arm	31W	4000K	Clear prismatic	15.7" (398mm)	1300	STZL 24 R	112 577 000 - 005 621 30
Articulated arm	31W	5000K	Clear prismatic	15.7" (398mm)	1300	STZL 24 R	112 577 000 - 005 621 41
Articulated arm	31W	4000K	Translucent	15.7" (398mm)	1200	STZL 24 R	112 577 000 - 005 621 57
Articulated arm	31W	5000K	Translucent	15.7" (398mm)	1200	STZL 24 R	112 577 000 - 005 621 77
Articulated arm	47W	4000K	Clear prismatic	22.7" (577mm)	1950	STZL 36 R	112 578 000 - 005 621 92
Articulated arm	47W	5000K	Clear prismatic	22.7" (577mm)	1950	STZL 36 R	112 578 000 - 005 622 07
Articulated arm	47W	4000K	Translucent	22.7" (577mm)	1800	STZL 36 R	112 578 000 - 005 622 19
Articulated arm	47W	5000K	Translucent	22.7" (577mm)	1800	STZL 36 R	112 578 000 - 005 622 28
Mounted swivel arm	15W	4000K	Clear prismatic	8.6" (218mm)	650	SARKL 12 R	112 991 000 - 005 624 01
Mounted swivel arm	15W	5000K	Clear prismatic	8.6" (218mm)	650	SARKL 12 R	112 991 000 - 005 624 64
Mounted swivel arm	15W	4000K	Translucent	8.6" (218mm)	600	SARKL 12 R	112 991 000 - 005 624 76
Mounted swivel arm	15W	5000K	Translucent	8.6" (218mm)	600	SARKL 12 R	112 991 000 - 005 624 86
Fixed mount with rotation	31W	4000K	Clear prismatic	15.7" (398mm)	1300	SARL 24 R	112 992 000 - 005 624 95
Fixed mount with rotation	31W	5000K	Clear prismatic	15.7" (398mm)	1300	SARL 24 R	112 992 000 - 005 625 10
Fixed mount with rotation	31W	4000K	Translucent	15.7" (398mm)	1200	SARL 24 R	112 992 000 - 005 625 22
Fixed mount with rotation	31W	5000K	Translucent	15.7" (398mm)	1200	SARL 24 R	112 992 000 - 005 625 43
Fixed mount with rotation	47W	4000K	Clear prismatic	22.7" (577mm)	1950	SARL 36 R	112 993 000 - 005 625 56
Fixed mount with rotation	47W	5000K	Clear prismatic	22.7" (577mm)	1950	SARL 36 R	112 993 000 - 005 625 67
Fixed mount with rotation	47W	4000K	Translucent	22.7" (577mm)	1800	SARL 36 R	112 993 000 - 005 625 89
Fixed mount with rotation	47W	5000K	Translucent	22.7" (577mm)	1800	SARL 36 R	112 993 000 - 005 625 98

### Mounting Options

#### Item

#### Dimensions

#### Part #

Table clamp w/ pin mount (included)

0 x 3.5" span

191 025 069 40

Wall bracket

3" x 3"

226 108 019 - 006 107 54

1/2" Pin mount adapter

1.77" length

US0 209 022

1/2" Pin mount adapter

3.75" length

US0 209 012

### Accessories

#### Item

#### Strength

#### Size

#### Part #

Add-x magnifier

3.5 diopters (1.88X)

5" diameter

190 207 019 - 005 759 00

# TAMETO

## WORKSTATION LIGHTING

### FEATURES:

- Various lengths for different bench widths and lighting requirements
- Up to 60% energy savings and up to 40% higher illuminance when compared to conventional CFL lamps
- LED or T5 fluorescent lamp options with a service life of up to 50,000 hours (LED) or 24,000 hours (fluorescent)
- Fixed or suspended installation options available
- Minimal heat generation
- Integrated T-slots allow direct installation into truss type workstations
- Closed design for cleanroom applications
- Extremely strong aluminum housing
- Premium workmanship in accordance with Waldmann's quality standards

### SPECIFICATIONS:

Voltage	100-240V
Lamping - LED	LED
Lamping - Fluorescent	T5 fluorescent
Controls	rocker switch
Color Temperature	4000K
Color Rendering Index (CRI)	80
Luminaire Head Material	anodized aluminum
Lens Material	PMMA acrylic
Luminaire Dimension	varied lengths, 7.4" width
Power Consumption	various
Protection Rating	IP20
Cord/Plug	9' w/ shock-proof plug or plug/bushing (thru-wired)
Certification	CE, ETL/cETL
Mounting	multi-dimensional T-rail brackets or C-rail brackets available
Mounting and accessories	See page 71



TAMETO is designed to offer broad, bright light output for workbenches and assembly workstations. It reduces glare, eye strain and fatigue, providing a comfortable work environment for long workdays. Strong, sleek and minimalistic, the TAMETO has a closed design suitable for cleanroom applications. Available in LED and T5 fluorescent versions, the extremely long lamp life and 60% energy savings make the TAMETO the perfect complement to a busy workplace.



Shown with T-rail bracket (included)

Machine

Task & Workbench

Magnification & Inspection

Accessories

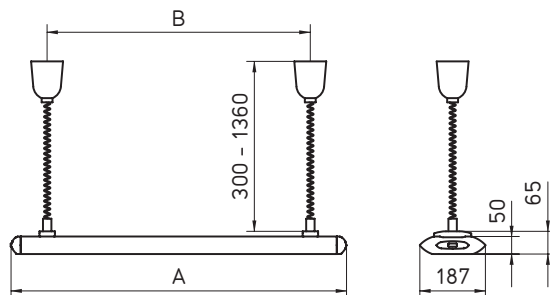
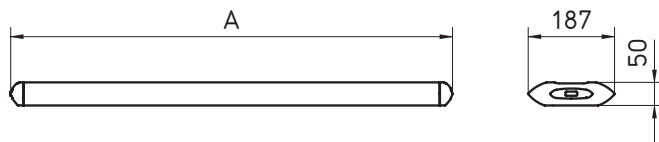
**DIMENSIONAL DATA**



TAMETO 900 Top Fixed Mount



TAMETO 1200 Pendant Suspended



Measurements in millimeters

**ORDERING INFORMATION**

Wattage	Light Source	Length (A)	Mounting	Lumens	Model	Part #
20W	LED	17.9" (456mm)	Side mount	1400	SAHKQ 60	112 989 000 - 006 364 07
20W	LED	25.8" (656mm)	Top fixed	1500	SAHQ 44	112 971 000 - 006 361 65
29W	LED	37.6" (956mm)	Top fixed	2400	SAHQ 66	112 975 000 - 005 556 19
38W	LED	49.5" (1256mm)	Top fixed	3200	SAHQ 88	112 979 000 - 005 556 77
29W	LED	37.6" (956mm)	Suspended	2400	SAHQ 66	112 983 000 - 006 338 60
38W	LED	49.5" (1256mm)	Suspended	3200	SAHQ 88	112 987 000 - 006 347 90
26W	T5HO fluorescent	25.8" (656mm)	Top rotating	1750	SAH 124	112 969 000 - 006 311 73
42W	T5HO fluorescent	37.6" (956mm)	Top rotating	3100	SAH 139	112 973 000 - 005 56 029
59W	T5HO fluorescent	49.5" (1256mm)	Top rotating	4450	SAH 154	112 977 000 - 005 561 83
42W	T5HO fluorescent	37.6" (956mm)	Suspended	3100	SAHZ 139	112 981 000 - 006 339 77
59W	T5HO fluorescent	49.5" (1256mm)	Suspended	4450	SAHZ 154	112 985 000 - 006 342 73

Thru-wire options available. Call for details.

Mounting Options	Item	Unit	Part #
	Mounting brackets, for use with top rotating versions	Sold as pair	408 001 586 - 005 780 88
	Adjustable mounting bracket for side mount version	Sold individually	408 001 917 - 005 612 05
	T-rail brackets (included)	Pair	N/A

# MINELA SOL

## WORKBENCH LED TASK LIGHT

### FEATURES:

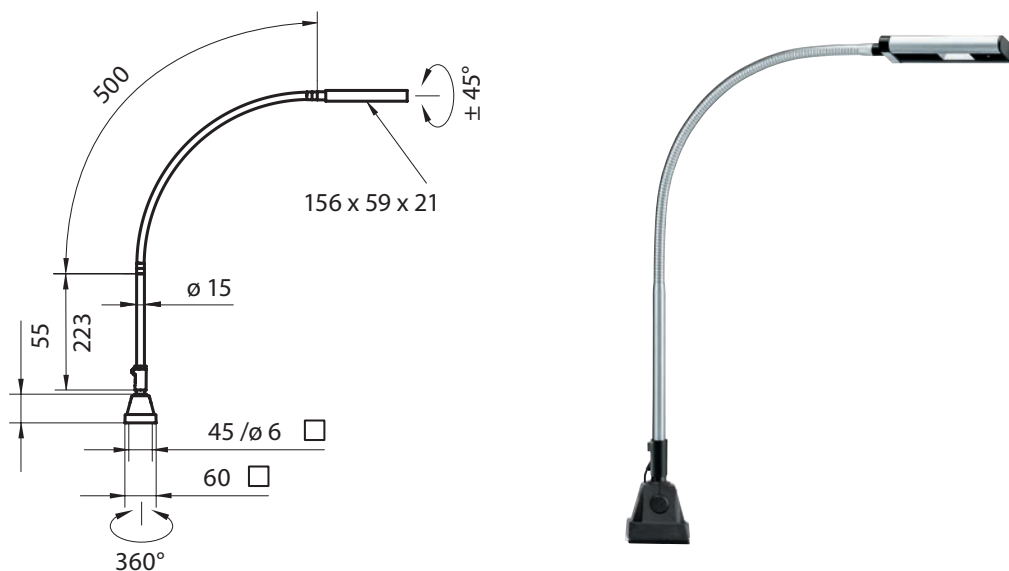
- 7-watt power multichip LED - high, luminous power with very little energy consumption
- Touch LED sensor for switching and dimming integrated into the luminaire head
- 40,000 hours of LED service life
- Auto-OFF function - switches off automatically after 14 hours of uninterrupted operation
- No shadows whatsoever
- High stability and durability - joints made of glass fiber-reinforced plastic

### SPECIFICATIONS:

Voltage	100-240V, 50/60Hz
Lamping	LED
Operation	touch sensor
Color Temperature	4000K
Color Rendering Index (CRI)	85
Luminaire Material	flexible steel tube
Lens Material	acrylic
Head Dimension	6" x 2.3" x 0.8"
Arm Reach	16"
Power Consumption	7W
Protection Rating	IP20
Certification	CE marked
Cord/Plug	8.2' w/ cord and plug
Mounting	See page 70



MINELA SOL shines with true innovation illuminating the workspace with a wide swathe of comfortable light. Shadows are completely eliminated due to Waldmann's 7W high-power multichip LED strip design. The MINELA SOL combines superb lighting quality, energy-efficiency and high design to give the workplace a sleek, productive and functional environment.



Shown with optional universal base



Measurements in millimeters

#### ORDERING INFORMATION

Wattage	Voltage	Arm Style	Color Temp	Lumens	Model	Part #
7W	120-240V	16" reach gooseneck	4000K	330	SOL 1	112 929 000 - 005 015 70
Mounting Options	Item	Dimensions	Part #			
	Decorative table clamp (included)	0" - 2.75" span	ILL 001 00C - 000 504 72			
	Universal base for table/wall	2.4" x 2.4"	204 090 019			
	Table clamp, rectangular (universal base required)	2.5" - 5.4" span	190 033 019 - 000 149 50			
	Wall bracket (universal base required)	2.4" x 2.8"	300 213 018 - 000 251 78			
	Magnetic base	3.3" diameter	190 057 019 - 000 150 56			
	Table base, rectangular for pin mount	10.5" x 6.7" x 1"	190 037 019 - 000 149 68			
	1/2" Pin mount adapter	1.77" length	US0 209 022			
	1/2" Pin mount adapter	3.75" length	US0 209 012			

# SNE

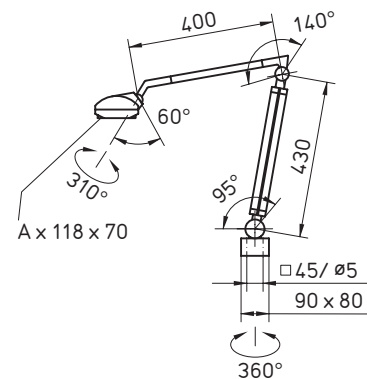
## UNIVERSAL INDUSTRIAL FLUORESCENT TASK LIGHT

### FEATURES:

- Long 19" head provides 2900 lumens of light output
- Built-in parabolic louver directs light precisely to work areas and eliminates glare
- 36" adjustable spring-loaded arm provides easy positioning
- Built-in electronic ballast for energy efficiency

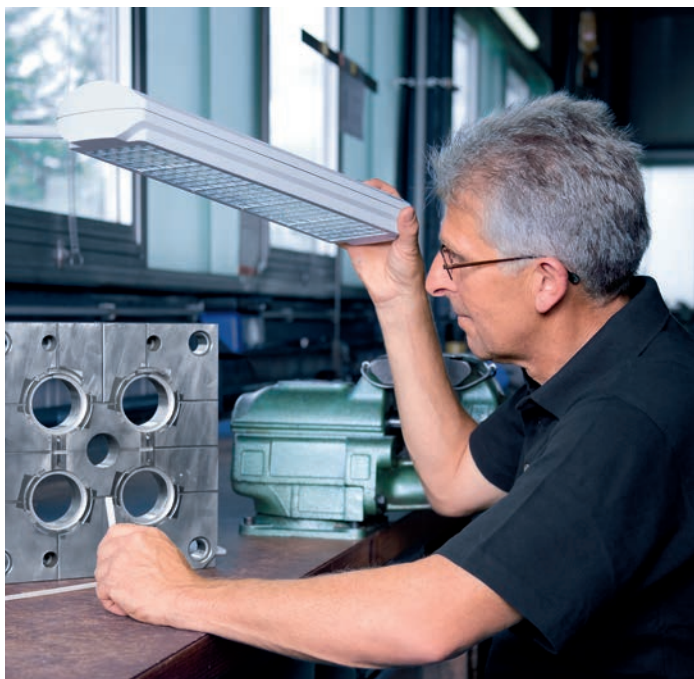
### SPECIFICATIONS:

Voltage	120V, 50/60Hz
Lamping	CFL
Operation	includes switch
Color Temperature	5400K
Color Rendering Index (CRI)	80
Lens Cover	polycarbonate
Head Dimensions	19" x 4.6" x 2.8"
Arm Reach	36"
Power Consumption	36W
Protection Rating	IP20
Certification	CE
Cord/Plug	6' with shock-proof plug
Mounting and accessories	See page 70



Measurements in millimeters

SNE-136 provides wide ambient light to small and mid-size work areas requiring bright illumination for precise visual tasks. It is ideal for mounting on to the workstation, bench or inspection area. SNE features a long, 19" luminaire head with a 36W compact fluorescent lamp. The built-in parabolic micro-grid louver directs light downward onto the work area and eliminates glare for the operator. A 36" adjustable, spring-loaded arm provides easy positioning and precise orientation. The SNE workstation luminaire has a built-in electronic ballast for greater energy efficiency and long life. The multi-functional SNE-136 task light provides even illumination with maximum light output.



SNE-136



Clip-on magnifier

## ORDERING INFORMATION

Wattage	Voltage	Arm Reach	Color Temp.	Louver	Model	Part #
36W	120V	36" reach	5400K	Yes	SNE-136	138 462 003 - 000 208 95
Mounting Options	Item	Dimensions	Part #			
	Table clamp with pin mount (included)	2.5" X 2.5"	191 025 069 40			
	Universal base for table/wall	2.4" x 2.4"	204 090 019			
	Table clamp (requires universal base)	2" – 5.4" span	190 033 019 - 000 149 50			
	Wall bracket	3" x 3"	226 108 019 - 006 107 54			
	Table base, rectangular for pin mount	10.5" x 6.7" x 1"	190 037 019 - 000 149 68			
	1/2" Pin mount adapter	1.77" length	US0 209 022			
	1/2" Pin mount adapter	3.75" length	US0 209 012			
Accessories	Item	Magnification	Part #			
	Clip-on magnifier	3 diopters (1.75X)	190 182 019 - 000 787 02			
	Add-x lens (snaps into clip-on magnifier)	4 diopters (2X)	190 080 019			
	Add-x lens (snaps into clip-on magnifier)	4 + 12 diopters (2X)	190 080 029			
Replacement Lamps	Item	Color Temp	Part #			
	36W CFL	4100K	450 036 M10			
	36W CFL (included)	5400K	450 036 190 - 000 414 93			
	36W CFL	6000K	450 036 222 - 000 622 34			





## INDUSTRIAL LIGHTING | MAGNIFICATION & INSPECTION

<b>TEVISIO</b> - LED MAGNIFIER	<b>50 - 51</b>
<b>RING LED</b> - LED MAGNIFIER	<b>52 - 53</b>
<b>OMNIVUE</b> - STADIUM LENS MAGNIFIER	<b>54 - 55</b>
<b>RLLE</b> - ROUND LENS MAGNIFIER	<b>56 - 57</b>
<b>HLWQE</b> - HANDHELD LED INSPECTION LIGHT	<b>58 - 59</b>

Machine

Task &amp; Workbench

Magnification &amp; Inspection

Accessories

# TEVISIO

## LED MAGNIFIER

### FEATURES:

- 6" diameter wide-angle, scratch-resistant glass lens
- Spring-balanced arm for easy adjustments
- Available in 31" or 39" arm length versions
- Available in ESD versions
- 40% energy savings compared to fluorescents
- 50,000 hours maintenance-free LED life
- 100% to 10% dimming capability

### SPECIFICATIONS:

Voltage	100-240V, 50/60Hz
Lamping	48 x LED
Operation	touch-panel on head
Magnification	3.5 diopters or 3.5d + 8d
Color Temperature	4000K
Color Rendering Index (CRI)	90
Luminaire Material	anodized aluminum
Lens Material	acrylic
Lens Dimension	6.3" diameter
Arm Reach	31" or 39"
Power Consumption	14W
Protection Rating	IP20
Certification	CE, ETL/cETL
Cord/Plug	12' cord w/ US plug
Mounting and accessories	See page 74



TEVISIO



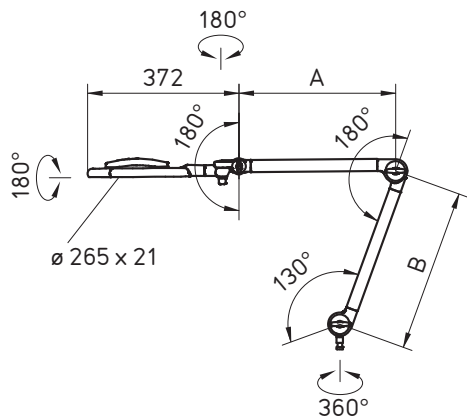
Add-x Lens



TEVISIO ESD

TEVISIO lives up to the high standards of the Waldmann product line. 48 premium LEDs illuminate a 6" wide-angle, distortion-free lens. Touch enabled dimming provides customization of the light output from 100% to 10%. Innovative balanced-arm technology (patent pending) allows for easy adjustment and precise positioning while six independent swivel joints turn the head up to 90 degrees in every direction. TEVISIO compares at 40% more efficient than conventional magnifier luminaires.

## DIMENSIONAL DATA



Measurements in millimeters



## ORDERING INFORMATION

Wattage	Version	Arm Reach	Magnification	Segment Switching	Lumens	Model	Part #
14W	Standard	31" (784mm)	3.5 diopters	No	600	RLLQ 48 R	112 919 000 - 005 873 35
14W	Standard	31" (784mm)	3.5 + 8 diopters	No	600	RLLQ 48 R	112 919 000 - 005 873 38
14W	Standard	31" (784mm)	3.5 diopters	Yes	600	RLLQ 48 2/R	112 919 000 - 005 873 41
14W	Standard	31" (784mm)	3.5 + 8 diopters	Yes	600	RLLQ 48 2/R	112 919 000 - 005 873 44
14W	Max	39" (988mm)	3.5 diopters	No	600	RLLQ 48 R	112 918 000 - 005 873 22
14W	Max	39" (988mm)	3.5 + 8 diopters	No	600	RLLQ 48 R	112 918 000 - 005 873 26
14W	Max	39" (988mm)	3.5 diopters	Yes	600	RLLQ 48 2/R	112 918 000 - 005 873 29
14W	Max	39" (988mm)	3.5 + 8 diopters	Yes	600	RLLQ 48 2/R	112 918 000 - 005 873 32
14W	ESD	31" (784mm)	3.5 diopters	No	600	RLLQ 48 R	113 016 000 - 005 953 84
14W	ESD	39" (988mm)	3.5 diopters	No	600	RLLQ 48 R	113 015 000 - 005 953 77

Mounting Options	Item	Dimensions	Part #
	Table clamp with pin mount (included)	0" - 3.5" span	191 025 069 40
	Universal base for table/wall	2.4" x 2.4"	204 090 019
	Table clamp, universal base required	2.5" - 5.4" span	190 033 019 - 000 149 50
	Wall bracket	3" x 3"	226 108 019 - 006 107 54
	Table clamp, ESD safe	0" - 3" span	190 100 029 - 000 890 21
	1/2" Pin mount adapter	1.77" length	US0 209 022
	1/2" Pin mount adapter	3.75" length	US0 209 012

Accessories	Item	Features	Part #
	Add-x magnifier	3.5 diopters (1.88X)	190 208 019 - 005 759 24
	Plug-in converter	100-240V w/quick disconnect	309 414 070 - 005 555 23

# RING LED

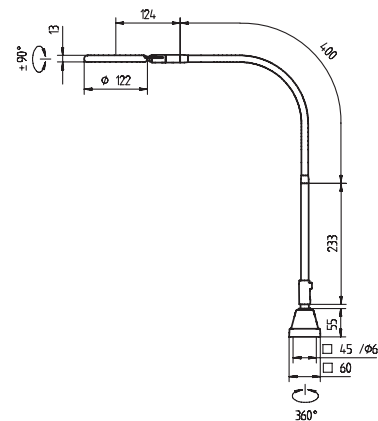
## LED MAGNIFIER

### FEATURES:

- Only 5 inches in diameter
- Six high-output LEDs
- Maintenance-free
- Touch-switch for on/off operation
- Optical-grade lens with 5.3 diopters
- Universal base with C-clamp mounting
- Plug-in transformer for 120V or 240V
- Ideal for assembly and QC inspection
- Wide light distribution
- Industrial-grade gooseneck arm is strong, even after 20,000 movements
- Sleek and modern design

### SPECIFICATIONS:

Voltage	120-240V, 50/60Hz
Lamping	LED
Operation	easy touch switch
Magnification	5.3 diopters
Color Temperature	4000K
Color Rendering Index (CRI)	70
Luminaire Material	anodized aluminum arm
Lens Material	hard-coated acrylic
Lens Dimension	2.8" diameter
Arm Reach	15.7"
Power Consumption	6W
Protection Rating	IP20
Certification	CE marked
Cord/Plug	7.5' cord w/ plug
Mounting and accessories	See page 72



Measurements in millimeters



RING LED is the lighting solution for the precise examination of parts for a number of fields of application – from mechanical engineering to research and development. This workhorse of a light is all business. The sleek design is minimal and fits easily into any workspace. The luminaire head is less than ½" thick and a mere 5" in diameter. The specially coated, distortion-free Eschenbach magnifier lens reaches 2.8" in diameter and offers 5.3 distortion-free diopters. Using innovative LEDs provides critical added value compared to conventional fluorescents: four times more light per watt, considerably lowering energy consumption. These LEDs offer a minimum of 50,000 hours of operating life at 100% brightness level – maintenance free for over six years running 24/7!



#### ORDERING INFORMATION

Version	Wattage	Magnification	Model	Part #
With universal base	6W	5.3 diopters	RLLQ 63	113 142 000 - 006 188 24
With decorative clamp	6W	5.3 diopters	RLLQ 63	113 142 M10

Mounting Options	Item	Dimensions	Part #
	Universal base for table/wall (included)	2.4" x 2.4"	204 090 019
	Decorative table clamp (included - see above)	0" - 2.75" span	ILL 001 00C - 000 504 72
	Wall bracket for universal base	2.4" x 2.8"	300 213 018 - 000 251 78
	Magnetic base (universal base required)	3.3" diameter	190 057 019 - 000 150 56
	Table base, rectangular for pin mount	10.5" x 6.7" x 1"	190 037 019 - 000 149 68
	1/2" Pin mount adapter	1.77" length	US0 209 022
	1/2" Pin mount adapter	3.75" length	US0 209 012

# OMNIVUE

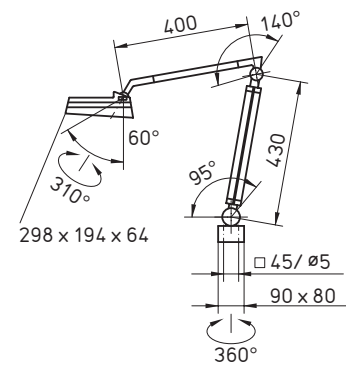
## STADIUM LENS MAGNIFIER

### FEATURES:

- Optical glass lens has 3d magnification
- Stadium lens offers wide viewing angles
- Magnifier tilts independently of light source for precise positioning
- Standard model offers a 35-inch reach
- OmnivueMax extends to 43 inches
- Plug-in 120V operation
- C-clamp provides easy arm installation
- UV and ESD models available

### SPECIFICATIONS:

Voltage	120V, 60Hz
Lamping	CFL
Operation	multi-level switching
Magnification	3 diopters
Color Temperature	5000K
Lens Material	optical-grade glass
Lens Dimension	4.25" x 6.5"
Arm Reach	35" or 43"
Power Consumption	27W
Protection Rating	IP20
Certification	ETL/cETL
Cord/Plug	10' cord w/ shock-proof plug
Mounting and accessories	See page 72



Measurements in millimeters

OMNIVUE features a distinctive, fully rotational 3-diopter magnifier lens for precise positioning and wide area magnification. OMNIVUE utilizes three 9W compact fluorescent lamps, instead of the typical two lamp configuration used by others. Two high-quality rocker switches, built into the head, provide on/off switching as well as the option of using 18 or 27 watts of light output. OMNIVUE's fully pivoting, large stadium lens provides outstanding clarity and sharpness. By positioning the magnifier independently of the light source, excellent visual contrast can be achieved, allowing for precise inspection. The C-clamp universal base included with the OMNIVUE is designed for industrial applications and can be permanently installed or used as a portable table clamp.



OMNIVUE



OMNIVUE ESD

## ORDERING INFORMATION

Wattage	Arm Reach	Magnification	Color Temp.	Model	Part #
27W	35" reach	3 diopters	5000K	Omnivue	118 790 000
27W	43" reach	3 diopters	5000K	OmnivueMax	047 803 000
27W	35" reach	3 diopters	5000K	Omnivue ESD	138 425 000
27W	43" reach	3 diopters	5000K	OmnivueMax ESD	138 425 001

Mounting Options	Item	Dimensions	Part #
	Table clamp - with pin mount (included)	0" - 3.5" span	191 025 069 40
	Table clamp (universal base required)	2.5" - 5.4" span	190 033 019 - 000 149 50
	Universal base for table/wall	2.4" x 2.4"	204 090 019
	Wall bracket - heavy duty (universal base required)	3" x 3"	226 108 019 - 006 107 54
	Table base, rectangular, for pin mount	10" x 6.7" x 1"	190 037 019 - 000 149 68
	1/2" Pin mount adapter	1.77" length	US0 209 022
	1/2" Pin mount adapter	3.75" length	US0 209 012

Accessories	Item	Magnification	Part #
	Add-x lens	4 diopters (2X)	190 080 019
	Add-x lens	4d + 12d (2X + 4X)	190 080 029
	Add-x ESD lens	4 diopters (2X)	190 080 049 - 000 612 80

Replacement Lamps	Item	Color Temp.	Part #
	Compact fluorescent lamp (CFL)	5000K	950 900 038
	UV compact fluorescent lamp (UV CFL)	5000K	US0 007 013

# RLLE

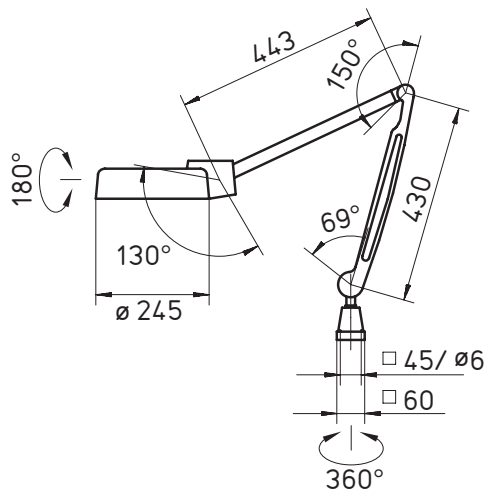
## ROUND LENS MAGNIFIER

### FEATURES:

- Optical-grade glass lens provides 4 diopters of magnification
- For increased magnification, a 4d "Add-x" lens is available
- 22W circline lamp
- Spring-loaded arm allows precise adjustability of the magnifier
- Included satine acrylic lens cover protects against dust and scratches
- RLLE Max has a 43.5" arm and handle for maximum adjustability
- A basic clamp is included and can be used for portable mounting
- No exposed springs eliminates spring corrosion and improves safety
- Lockable pivoting joints allow fixed positioning of magnifier arm

### SPECIFICATIONS:

Voltage	120V, 50/60Hz
Lamping	circline fluorescent
Magnification	4 diopters or 4d +12d (with 4d add-x lens available)
Controls	switch included
Color Temperature	4100K
Lens Diameter	4.7" diameter
Head Dimension	9.7"
Arm Reach	37" or 43.5"
Power Consumption	22W
Protection Rating	IP20
Certification	ETL/cETL
Cord/Plug	7.5' cord with US plug
Mounting and accessories	See page 73



RLLE Series is a conventional approach to magnification and inspection lighting. It provides 4 diopters of magnification and the most rugged construction of any "Ring Magnifier" in the industry. An optional snap-in Add-X lens increases magnification for a total of 8 diopters. The RLLE Series magnifier is ideal for inspection applications requiring bright light and strong magnification in a compact, round magnifier. RLLE includes an energy-efficient electronic ballast and satine acrylic lens for smooth, diffuse light. The high-quality, optical-grade magnifier is distortion-free and the industrial grade arm with hidden springs and lockable pivoting joints provide precise positioning and adjustment. Arm-mounted switch allows for easy access and one-handed operation. Universal pin mount allows a variety of mounting and installation options.





#### ORDERING INFORMATION

Wattage	Arm Reach	Magnification	Color Temp.	Model	Part #
31W	37" reach	4 diopters	4100K	RLLE	138 442 000
31W	37" reach	4 + 12 diopters	4100K	RLLE	138 442 001
31W	43.5" reach	4 diopters	4100K	RLLEMax	138 442 005
31W	43.5" reach	4 + 12 diopters	4100K	RLLEMax	138 442 009

Mounting Options	Item	Dimensions	Part #
	Table clamp w/pin (included)	0" - 2.7" span	191 025 019
	Table clamp (universal base required)	2.5" - 5.4" span	190 033 019 - 000 149 50
	Universal base for table/wall (included)	2.4" x 2.4"	204 090 019
	Wall bracket (universal base required)	3" x 3"	226 108 019 - 006 107 54
	Table base, round w/ pin	10" diameter	190 186 019 - 000 096 44
	Table base, rectangular, for pin mount	10.5" x 6.7" x 1"	190 037 019 - 000 149 68

Accessories	Item	Magnification	Part #
	Add-x lens	4 diopters (2X)	190 054 019 - 000 150 51

Replacement Lamps	Item	Color Temp.	Part #
	Circline fluorescent lamp	4100K	450 022 010

# HLWQE

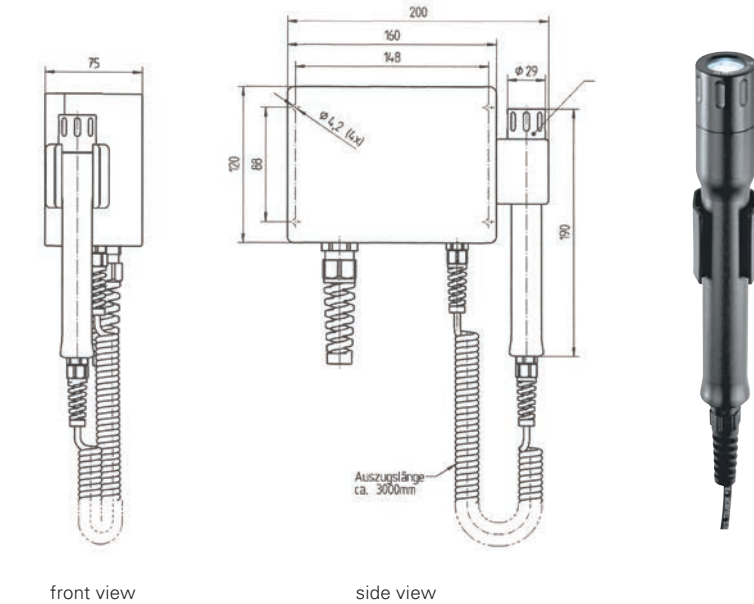
## HANDHELD LED INSPECTION LIGHT

### FEATURES:

- Variants with narrow and wide angles of illumination
- Suitable for use under extreme conditions such as high mechanical stress
- Maintenance-free: LED life of up to 50,000 hours and more
- Color temperature daylight white 6000K
- 6° or 25° beam angle
- Black aluminum anodized housing, 2mm thick safety glass
- Mounting with magnetic luminaire bracket
- Supplied with integrated power pack and 20 feet of cord and with three-prong plug

### SPECIFICATIONS:

Voltage	95-240V; 50/60 Hz
Lamping	LED
Color Temperature	6000K
Lens Diameter	1.1" diameter
Fixture Dimension	7.5" in length
Total Reach	22.6"
Power Consumption	3W
Protection Rating	IP20
Cord/Plug	20' cord with three-prong plug
Certification	ETL/cETL



In inaccessible places, good lighting is particularly difficult. It is for this reason that the HLWQE is built to be as small and handy as a mini flashlight. Thanks to state-of-the-art LED technology, this luminaire knows no bounds when it comes to space. It is impact-proof, waterproof and does a good job even when in permanent use in the toughest conditions.

# Coming Soon!



Machine

Task &amp; Workbench

Magnification &amp; Inspection

Accessories

Wattage	Reach	Beam Spread	Color Temp.	Model	Part #
3W	22.6'	6°	6000K	HLWQE	112 508 100 - 006 670 60



## ACCESSORIES | MACHINE

<b>ABL LED</b>	<b>62</b>
<b>AWD</b>	<b>62</b>
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## ACCESSORIES | TASK & WORKBENCH

<b>MINELA SOL</b>	<b>70</b>
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## ACCESSORIES | MAGNIFICATION & INSPECTION

<b>OMNIVUE</b>	<b>72</b>
<b>RING LED</b>	<b>72</b>
<b>RLLE</b>	<b>73</b>
<b>TEVISIO</b>	<b>74</b>

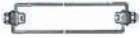



### ABL LED ACCESSORIES

Item	Description	Part #
	MOUNTING OPTION: Universal base for table/wall	204 090 019
	MOUNTING OPTION: Table clamp, 0" - 2.75" span	190 007 019 - 000 149 04
	MOUNTING OPTION: Table clamp, 2.5" - 5.4" span	190 033 019 - 000 149 50
	MOUNTING OPTION: Wall bracket, standard	300 213 018 - 000 251 78
	MOUNTING OPTION: Magnetic base, 3.3" diameter	190 057 019 - 000 150 56
	MOUNTING OPTION: Table base, rectangular, 10" x 6.7" x 1"	190 036 109 - 000 582 38
	OPERATING DEVICE, Type A, 19.2V-28.8V, 700mA	209 582 019 - 000 487 93
	OPERATING DEVICE, VLM, 95V-240V, 700mA	209 585 019 - 000 452 02



### AWD ACCESSORY

Item	Description	Part #
	MOUNTING OPTION: Wall bracket, Black, 3.1" x 3.3"	191 092 019 - 000 867 27









### FLAT LED ACCESSORIES

Item	Description	Part #
	MOUNTING OPTION: Swivel bracket	203 081 019 - 000 194 78
	OPERATING DEVICE: Max. Wattage = 20W to run at 120-240V, 50/60Hz	309 537 010 - 006 704 53
	OPERATING DEVICE: Max. Wattage = 50W to run at 120V, 50/60Hz	209 585 030
	OPERATING DEVICE: Max. Wattage = 75W to run at 120-277V, 50/60Hz	209 585 031

### HEAD LED ACCESSORIES







Item	Description	Part #
	OPERATING DEVICE: Max. Wattage = 17W to run at 120-277V, 50/60Hz	209 585 028
	ACCESSORY: M12 connector plug, straight (included)	330 603 020 - 000 029 47

## HI-20 ACCESSORIES








Item	Description	Part #
	MOUNTING OPTION: Universal base for table/wall (included)	204 090 019
	MOUNTING OPTION: Table clamp, 0" - 2.75" span	190 007 019 - 000 149 04
	MOUNTING OPTION: Table clamp, 2.5" - 5.4" span	190 033 019 - 000 149 50
	MOUNTING OPTION: Wall bracket for universal base, 2.4" x 2.8"	300 213 018 - 000 251 78
	MOUNTING OPTION: Magnetic base, 3.3" diameter	190 057 019 - 000 150 56
	MOUNTING OPTION: Table base, rectangular, 1.5" x 6.7" x 1"	190 036 109 - 000 582 38
	ACCESSORY: Clip-on magnifier, 4d	190 062 019 - 000 150 58
	ACCESSORY: Clip-on magnifier, 4d + 12d	190 062 029 - 000 150 59

\*Articulating arm model only

## HG ACCESSORIES







Item	Description	Part #
	MOUNTING OPTION: Table clamp, 0" - 2.75" span	190 007 019 - 000 149 04
	MOUNTING OPTION: Table clamp, 2.5" - 5.4" span	190 033 019 - 000 149 50
	MOUNTING OPTION: Wall bracket, 2.4" x 2.8"	300 213 018 - 000 251 78
	OPERATING DEVICE: Transformer 60VA, 120V, enclosed w/case, for 24V fixtures	150 127 M19
	OPERATING DEVICE: Transformer 60VA, 120V, w/out case, for 24V fixtures	150 125 M19
	OPERATING DEVICE: Transformer 60VA, 230V, w/out case, for 24V fixtures	150 048 019 - 000 146 31

## HSW ACCESSORIES

Item	Description	Part #
	MOUNTING OPTION: Universal base for table/wall (included), 2.4" x 2.4"	204 090 019
	MOUNTING OPTION: Table clamp, 0" - 2.75" span	190 007 019 -000 149 04
	MOUNTING OPTION: Table clamp, 2.5" - 5.4" span	190 033 019 -000 149 50
	MOUNTING OPTION: Wall bracket for universal base, 2.4" x 2.8"	300 213 018 -000 251 78
	MOUNTING OPTION: Magnetic base, 3.3" diameter	190 057 019 -000 150 56
	MOUNTING OPTION: Table base, rectangular, 10.5" x 6.7" x 1"	190 036 109 -000 582 38
	ACCESSORY: Plug-in transformer for 12V conversion	US0 224 043











\*HSW-20 articulated arm only

## LUMATRIS ACCESSORIES








Item	Description	Part #
	MOUNTING OPTION: Flush mounting frame, 9.7" x 3.7"	408 001 016 -005 956 19
	MOUNTING OPTION: Flush mounting frame, 16.5" x 3.7"	408 001 017 -005 956 13
	MOUNTING OPTION: Flush mounting frame , 23.5" x 3.7"	408 001 018 -005 956 10
	MOUNTING OPTION: Flush mounting frame , 30.3" x 3.7"	408 001 019 -005 956 16
	MOUNTING OPTION: Flush mounting frame, 16.5" x 6.7"	408 001 037 -005 181 21
	MOUNTING OPTION: Flush mounting frame, 30.3" x 6.7"	408 001 034 -005 142 65








**LUMATRIS ACCESSORIES (continued)**

Item	Description	Part #
	MOUNTING OPTION: Surface mounting bracket, pair, for 3.7" length	408 001 015 - 005 955 87
	MOUNTING OPTION: Surface mounting bracket, pair, for 6.7" length	408 001 035 - 005 142 68
	MOUNTING OPTION: Pivoting arm mount	408 001 033 - 005 142 62
	CONNECTOR: M12 connector with 16' cord (included), straight, A-coded, 24V DC	US0 009 001
	CONNECTOR: M12 connector with 16' cord (included), angled, A-coded, 24V DC	US0 009 011
	OPERATING DEVICE: Max. Wattage = 17W to run at 120-277V, 50/60Hz	209 585 028
	OPERATING DEVICE: Max. Wattage = 20W to run at 120-240V, 50/60Hz	309 537 010 - 006 704 53
	OPERATING DEVICE: Max. Wattage = 50W to run at 120V, 50/60Hz	209 585 030
	OPERATING DEVICE: Max. Wattage = 75W to run at 120-277V, 50/60Hz	209 585 031
	OPERATING DEVICE: Max. Wattage = 100W to run at 120-277V, 50/60Hz	309 538 010 - 006 704 56










**MACH LED PLUS.seventy ACCESSORIES**

Item	Description	Part #
	MOUNTING OPTION: End bracket set, adjustable, +/- 65°	408 001 876 - 005 820 65
	MOUNTING OPTION: Clip bracket, adjustable, +/- 30° (sold separately)	408 001 878 - 005 855 35
	MOUNTING OPTION: Protective cap set (not for use with end brackets)	408 001 875 - 005 820 72
	OPERATING DEVICE: Max. Wattage = 17W to run at 120-277V, 50/60Hz	209 585 028
	OPERATING DEVICE: Max. Wattage = 20W to run at 120-240V, 50/60Hz	309 537 010 - 006 704 53
	OPERATING DEVICE: Max. Wattage = 50W to run at 120V, 50/60Hz	209 585 030
	OPERATING DEVICE: Max. Wattage = 75W to run at 120-277V, 50/60Hz	209 585 031






**MACH LED PLUS.seventy ACCESSORIES (continued)**

Item	Description	Part #
	OPERATING DEVICE: Max. Wattage = 100W to run at 120-277V, 50/60Hz	309 538 010 -006 704 56
	CONNECTOR: M12 connector with 16' cord (included), straight, A-coded, 24V DC	US0 009 001
	CONNECTOR: M12 connector with 16' cord (included), straight, S-coded, 120V AC	US0 009 201
	CONNECTOR: M12 connector with 16' cord (included), angled, A-coded, 24V DC	US0 009 011
	CONNECTOR: M12 connector with 16' cord (included), angled, S-coded, 120V AC	US0 009 211





**MACH LED PLUS.forty ACCESSORIES**

Item	Description	Part #
	MOUNTING OPTION: End bracket set, adjustable, +/- 90°	408 001 403 -006 716 26
	MOUNTING OPTION: Clip bracket, adjustable, +/- 20° (sold separately)	408 001 402 -006 716 23
	OPERATING DEVICE: Max. Wattage = 17W to run at 120-277V, 50/60Hz	209 585 028
	OPERATING DEVICE: Max. Wattage = 20W to run at 120-240V, 50/60Hz	309 537 010 -006 704 53
	OPERATING DEVICE: Max. Wattage = 50W to run at 120V, 50/60Hz	209 585 030
	OPERATING DEVICE: Max. Wattage = 75W to run at 120-277V, 50/60Hz	209 585 031
	OPERATING DEVICE: Max. Wattage = 100W to run at 120-277V, 50/60Hz	309 538 010 -006 704 56
	CONNECTOR: M12 connector with 16' cord (included), straight, A-coded, 24V DC	US0 009 001
	CONNECTOR: M12 connector with 16' cord (included), angled, A-coded, 24V DC	US0 009 011







## MACH LED PRO ACCESSORIES

Item	Description	Part #
	OPERATING DEVICE: Max. Wattage = 17W to run at 120-277V DC, 50/60Hz	209 585 028
	OPERATING DEVICE: Max. Wattage = 20W to run at 120-240V, 50/60Hz	309 537 010 - 006 704 53
	OPERATING DEVICE: Max. Wattage = 50W to run at 120V, 50/60Hz	209 585 030
	OPERATING DEVICE: Max. Wattage = 75W to run at 120-277V, 50/60Hz	209 5850 31
	OPERATING DEVICE: Max. Wattage = 100W to run at 120-277V, 50/60Hz	309 538 010 - 006 704 56











## ONE LED ACCESSORIES

Item	Description	Part #
	OPERATING DEVICE: Max. Wattage = 17W to run at 120-277V DC, 50/60Hz	209 585 028
	OPERATING DEVICE: Max. Wattage = 20W to run at 120-240V, 50/60Hz	309 537 010 - 006 704 53
	OPERATING DEVICE: Max. Wattage = 50W to run at 120V, 50/60Hz	209 585 030
	OPERATING DEVICE: Max. Wattage = 75W to run at 120-277V, 50/60Hz	209 585 031






## RL70 ACCESSORIES

Item	Description	Part #
	MOUNTING OPTION: Bracket, straight, galvanized steel, neoprene	190 015 019 - 000 149 30
	MOUNTING OPTION: Bracket, long-L, galvanized steel, neoprene	SK1 021 019 - 000 102 86
	MOUNTING OPTION: Bracket, short-L, galvanized steel, neoprene	190 015 995
	MOUNTING OPTION: Bracket, straight, galvanized steel, profiled rubber	190 015 719 - 000 854 98
	MOUNTING OPTION: Bracket, long-L, galvanized steel, profiled rubber	SK1 021 719 - 000 854 99
	MOUNTING OPTION: Bracket, short-L, galvanized steel, profiled rubber	SK0 995 719 - 000 856 52













**RL70 ACCESSORIES (continued)**

Item	Description	Part #
	MOUNTING OPTION: Bracket, straight, stainless steel, neoprene	190 180 019 - 000 927 31
	MOUNTING OPTION: Bracket, long-L, stainless steel, neoprene	190 183 019 - 000 939 61
	MOUNTING OPTION: Bracket, short-L, stainless steel, neoprene	190 181 019 - 000 927 28
	MOUNTING OPTION: Bracket, straight, stainless steel, profiled rubber	190 180 719 - 000 927 30
	MOUNTING OPTION: Bracket, long-L, stainless steel, profiled rubber	190 169 719 - 000 893 51
	MOUNTING OPTION: Bracket, short-L, stainless steel, profiled rubber	190 181 719 - 000 927 29
	MOUNTING OPTION: End caps (set of two), black plastic	US0 165 012
	OPERATING DEVICE: Remote ballast, T5, 120-277V; 50/60Hz	309 361 050 - 000 922 19
	OPERATING DEVICE: Remote ballast, CFL, 120-277V; 50/60Hz	309 439 010 - 000 937 16
	OPERATING DEVICE: Remote ballast, T8, 120-277V; 50/60Hz	309 368 010

**SLIM LED ACCESSORIES**

Item	Description	Part #
	OPERATING DEVICE: Max. Wattage = 17W to run at 120-277V, 50-60Hz	209 585 028
	OPERATING DEVICE: Max. Wattage = 20W to run at 120-240V, 50/60Hz	309 537 010 - 006 704 53
	OPERATING DEVICE: Max. Wattage = 50W to run at 120V, 50/60Hz	209 585 030
	OPERATING DEVICE: Max. Wattage = 75W to run at 120-277V, 50/60Hz	209 585 031
	OPERATING DEVICE: Max. Wattage = 100W to run at 120-277V, 50/60Hz	309 538 010 - 006 704 56

## SPOT LED ACCESSORIES

Item	Description	Part #
	MOUNTING OPTION: Universal base for table/wall (included)	204 090 019
	MOUNTING OPTION: Clamp, 0" - 2.75" span	190 007 019 - 000 149 04
	MOUNTING OPTION: Clamp, 2.5" - 5.4" span	190 033 019 - 000 149 50
	MOUNTING OPTION: Wall bracket, 2.4" x 2.8"	300 213 018 - 000 251 78
	MOUNTING OPTION: Magnetic base, 3.3" diameter	190 057 019 - 000 150 56
	MOUNTING OPTION: Table base, rectangular, 10.5" x 6.7" x 1"	190 036 109 - 000 582 38
	MOUNTING OPTION: 1/2" Pin mount adapter, 1.77" length	US0 209 022
	MOUNTING OPTION: 1/2" Pin mount adapter, 3.75" length	US0 209 012
	OPERATING DEVICE: Max. Wattage = 17W to run at 120-277V, 50/60 Hz	209 585 028
	OPERATING DEVICE: Max. Wattage = 20W to run at 120-240V, 50/60Hz	309 537 010 - 006 704 53
	OPERATING DEVICE: Max. Wattage = 50W to run at 120V, 50/60Hz	209 585 030
	OPERATING DEVICE: Max. Wattage = 75W to run at 120-277V, 50/60Hz	209 585 031

\*Articulating arm model only









Machine

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Magnification &amp; Inspection

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**MINELA SOL ACCESSORIES**

Item	Description	Part #
	MOUNTING OPTION: Decorative table clamp (included)	ILL 001 00C - 000 504 72
	MOUNTING OPTION: Universal base for table/wall, 2.4" x 2.4"	204 090 019
	MOUNTING OPTION: Table clamp, 2.5" - 5.4" span	190 033 019 - 000 149 50
	MOUNTING OPTION: Wall bracket, 2.4" x 2.5"	300 213 018 - 000 251 78
	MOUNTING OPTION: Magnetic base, 3.3" diameter (universal base required)	190 057 019 - 000 150 56
	MOUNTING OPTION: Table base, rectangular, 10.5" x 6.7" x 1"	190 036 109 - 000 582 38
	MOUNTING OPTION: 1/2" pin mount adapter, 1.77" length	US0 209 022
	MOUNTING OPTION: 1/2" pin mount adapter, 3.75" length	US0 209 012



**SNE ACCESSORIES**

Item	Description	Part #
	MOUNTING OPTION: Table clamp with pin mount, 0" - 3.5" span	191 025 069 40
	MOUNTING OPTION: Universal base for table/wall, 2.4" x 2.4"	204 090 019
	MOUNTING OPTION: Table clamp, requires universal base, 2" - 5.4" span	190 033 019 - 000 149 50
	MOUNTING OPTION: Wall bracket, 3" x 3"	226 108 019 - 006 107 54
	MOUNTING OPTION: Table base, rectangular with pin mount, 10.5" x 6.7" x 1"	190 037 019 - 000 149 68
	MOUNTING OPTION: 1/2" pin mount adapter, 1.77" length	US0 209 022
	MOUNTING OPTION: 1/2" pin mount adapter, 3.75" length	US0 209 012






**SNE ACCESSORIES (continued)**

Item	Description	Part #
	ACCESSORY: Clip-on magnifier, 3 diopter (1.75X)	190 182 019 - 000 787 02
	ACCESSORY: Add-x lens (snaps into clip-on magnifier), 4 diopter (2X)	190 080 019
	ACCESSORY: Add-x lens (snaps into clip-on magnifier), 4 + 12 diopter (2X)	190 080 029











**TAMETO ACCESSORIES**

Item	Description	Part #
	MOUNTING OPTION: Mounting brackets, for use with top rotating versions	408 001 586 - 005 780 88
	MOUNTING OPTION: Mounting bracket for side mount version	408 001 917 - 005 612 05









**TANEO ACCESSORIES**

Item	Description	Part #
	MOUNTING OPTION: Wall bracket	226 108 019 - 006 107 54
	MOUNTING OPTION: Table clamp with pin mount, 0" - 3.5" span (included)	191 025 069 40
	MOUNTING OPTION: 1/2" pin mount adapter, 1.77" length	US0 209 022
	MOUNTING OPTION: 1/2" pin mount adapter, 3.75" length	US0 209 012
	ACCESSORY: Magnifier Add-x lens, 3.5 diopter	190 207 019 - 005 759 00

**OMNIVUE ACCESSORIES**




Item	Description	Part #
	MOUNTING OPTION: Universal base for table/wall, 2.4" x 2.4"	204 090 019
	MOUNTING OPTION: Table clamp, universal base required, 2.5" - 5.4" span	190 033 019 - 000 149 50
	MOUNTING OPTION: Wall bracket, heavy duty, 3" x 3"	226 108 019 - 006 107 54
	MOUNTING OPTION: Table clamp for pin mount, 3.5" span	191 025 069 40
	MOUNTING OPTION: Table base, rectangular for pin mount, 10.5" x 6.7" x 1"	190 037 019 - 000 149 68
	MOUNTING OPTION: 1/2" pin mount adapter, 1.77" length	US0 209 022
	MOUNTING OPTION: 1/2" pin mount adapter, 3.75" length	US0 209 012
	ACCESSORY: Add-x lens, 4 diopters (2X)	190 080 019
	ACCESSORY: Add-x lens, 4d + 12d (2X + 4X)	190 080 029
	ACCESSORY: Add-x ESD lens, 4 diopters (2X)	190 080 049 - 000 612 80

**RING LED ACCESSORIES**













Item	Description	Part #
	MOUNTING OPTION: Universal base for table/wall, 2.4" x 2.4"	204 090 019
	MOUNTING OPTION: Table clamp, 0" - 2.75" span	190 007 019 - 000 149 04
	MOUNTING OPTION: Table clamp 2.5" - 5.3" span	190 033 019 - 000 149 50
	MOUNTING OPTION: Decorative table clamp (included)	ILL 001 00C - 000 504 72
	MOUNTING OPTION: Wall bracket for universal base, 2.4" x 2.8"	300 213 018 - 000 251 78
	MOUNTING OPTION: Magnetic base, 3.3" diameter	190 057 019 - 000 150 56
	MOUNTING OPTION: Table base, rectangular, 10.5" x 6.7" x 1"	190 036 109 - 000 582 38
	MOUNTING OPTION: Decorative table clamp	ILL 001 00C - 000 504 72












**RING LED ACCESSORIES (continued)**

Item	Description	Part #
	MOUNTING OPTION: 1/2" Pin mount adapter, 1.77" length	US0 209 022
	MOUNTING OPTION: 1/2" Pin mount adapter, 3.75" length	US0 209 012
	MOUNTING OPTION: Floor stand with casters, 25" diameter	US1 043 019

**RLLE ACCESSORIES**

Item	Description	Part #
	MOUNTING OPTION: Table clamp for pin mount (included), 0" - 2.75" span	191 025 019
	MOUNTING OPTION: Universal base for table/wall, 2.4" x 2.4"	204 090 019
	MOUNTING OPTION: Table clamp, 2.5" - 5.4" span (universal base required)	190 033 019 - 000 149 50
	MOUNTING OPTION: Wall bracket (universal base required)	300 213 018 - 000 251 78
	MOUNTING OPTION: Wall bracket - heavy duty	226 108 019 - 006 107 54
	MOUNTING OPTION: Wall mount 3.5" x 2.5" x 2.5"	308 218 109
	MOUNTING OPTION: Table base, round w/ pin	190 186 019 - 000 096 44
	MOUNTING OPTION: Table base, rectangular, universal base required, 10.5" x 6.7" x 1"	190 036 109 - 000 582 38
	MOUNTING OPTION: 1/2" Pin mount adapter, 1.77" length	US0 209 022
	MOUNTING OPTION: 1/2" Pin mount adapter, 3.75" length	US0 209 012
	MOUNTING OPTION: Floor stand w/ casters, 25" diameter	US1 043 019
	ACCESSORY: Add-on lens, 4 diopters (2X)	190 054 019 - 000 150 51

## TEVISIO ACCESSORIES

Item	Description	Part #
	MOUNTING OPTION: Table clamp - with pin mount, 3.5" span (included),	191 025 069 40
	MOUNTING OPTION: Universal base for table/wall, 2.4" x 2.4"	204 090 019
	MOUNTING OPTION: Table clamp, universal base required, 2.5" - 5.4" span	190 033 019 - 000 149 50
	MOUNTING OPTION: Wall bracket	226 108 019 - 006 107 54
	MOUNTING OPTION: Table clamp, ESD safe	190 100 029 - 000 890 21
	MOUNTING OPTION: 1/2" Pin mount adapter, 1.77" length	US0 209 022
	MOUNTING OPTION: 1/2" Pin mount adapter, 3.75" length	US0 209 012
	ACCESSORY: Add-x magnifier , 3.5 diopter (1.88X)	190 208 019 - 005 759 24
	ACCESSORY: Plug-In converter, 100-240V w/quick disconnect	309 414 070 - 005 555 23

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