

Light as innovation

The design of this elegant projector expresses the manufacturing philosophy of the whole MACH product range: modern design, latest technology, excellent photometric performances and flexibility in their usage.

The aesthetic values allow to use it in exhibition spaces, large atriums, architectural context, in selected sport venues and, in the urban version, represents a new and pleasing piece of street furniture.

Thanks to its wide range of reflectors and

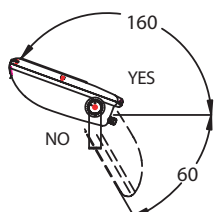
accessories, **MACH 5** floodlight represents also an excellent choice for urban lighting schemes. Its technical features include a double-valve design and a double closure system that ensure a water tight and very secure closure. The wide range of optics, symmetrical, asymmetrical and circular lighting distribution, enhances the use of **MACH 5** in different contexts. The reflector in the asymmetrical optic version uses a 'special' high reflecting aluminium that is extraordinarily efficient.



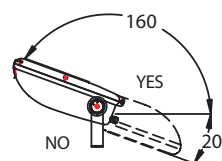
Technical features of Mach 5

Aiming

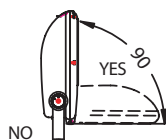
Description



CL I up to 400W



CL II up to 400W



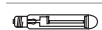
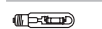



ST600W E40
MT 315W PGZ18

HOT RESTRIKE version
MD (JM) FC2 250W
MD (JM) FC2 400W

CHARACTERISTICS

- Body and glass frame manufactured in die cast aluminum with the primary alloy with a low copper content.
- Both body and frame undergo a treatment of phosphor degreasing, phosphor chromate treatment and receive a further special protective surface covering, before they are polyester powder coated in a silver color in order to guarantee a high corrosion resistance.
- Cover hinged in the body bottom and held with stainless steel small rings.
- Lamp-holder in porcelain 18A with anti-unscrewing device.
- Installation by means of a strong steel fork, galvanized and coated with polyester powders in metallized silver color.
- Double goniometric scale for vertical mounting.
- Gaskets in anti-aging silicon rubber.
- Tempered glass suitable for high temperature thermal shocks and crashes, mechanically fixed to the glass frame.
- The power supply cable accesses the device through a PG 13,5 cable gland (IP68).
- Protection degree against external impacts: IK 08.
- Pressure compensation filter in Teflon.
- Projector suitable for E40 metal halide and high pressure sodium vapors lamps, FC2 double ended lamps and the innovative PGZ18 MW ELITE 315W lamp.
- Designed for indoor and outdoor applications and on inflammable surfaces.
- The floodlight can be mounted directly on pole (max. 60 mm diameter). The dedicated accessories AKRON 1 and AKRON 2 allow the single or double top pole mounting. For other methods of installation, please review the wide range of dedicated accessories in the table.
- All electrical components are certified with ENEC mark (230V, 50 Hz). The projector has been manufactured according to EN 60598/1 standards.
- Hot Restrike version available in versions with MD (JM) lamp - FC2 250W and 400W for outdoor applications and ambient temperature max of 30°. For indoor applications, please contact our technical department.

LAMPS

	ST (SAP-T) E40 150-250-400-600W
	MT (JM-T) E40 150-250-400W
	MD (JM-TS) FC2 250-400W
	SD (SAP-TS) FC2 250-400W
	MT (JM-T) ELITE MW PGZ18 315W

INSULATION CLASS I

- Opening and access to optics and control gear with a single operation, by using hexagon stainless steel screws.
- Wiring board with electrical unit with improved power factor ($\cos \varphi > 0.90$) in galvanized steel.
- The wiring board can be easily removed to make maintenance operations easier. It can be cut away from the supply line through non-reversible connectors with quick coupling.

INSULATION CLASS II

- Opening and access to optics and control gear with a single operation, by using the high mechanical resistance stainless steel front clip.
- Security knife switch to disconnect the power supply.
- Wiring board with electrical unit with improved power factor ($\cos \varphi > 0.90$) in special self-extinguishing thermoplastic material V0.
- The wiring board can be easily removed to make maintenance operations easier. It can be cut away from the supply line through non-reversible connectors with quick coupling.

OPTICAL SYSTEM

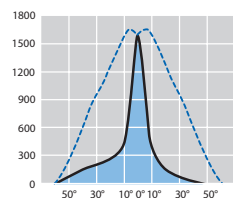
- The **symmetrical** version with three different reflectors:
 - wide beam
 - semi- wide beam
 - intensive
 Surface wind resistance = 0,17 m², with vertical aiming of 70°.
- The **asymmetrical** optic is designed to obtain illumination values with best uniformity terms, in full compliance with national and international recommendations against light pollution. The projector is supplied with two different optics systems:
 - wide beam
 - semi-intensive in highly pure aluminium (99,99%) with high reflectance and performance.
 With tilt of 15% ULORinst < 0,3 %
 To obtain ULORinst = 0, use the dedicated anti-glare louvre.
 Surface wind resistance = 0,13 m², with vertical aiming of 30°.
- The **circular** optic is completed with a high intensity reflector, with a flux reflecting skirt that reduces considerably the direct glare, ensuring an improved visual comfort.
 Surface wind resistance = 0,17 m², with vertical aiming of 70°.

COLOUR

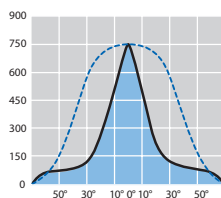
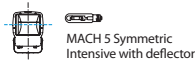


Silver

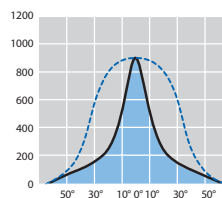
Photometric data



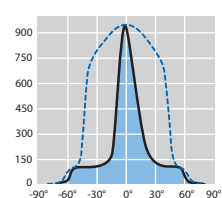
MT (JM-T) 400W E40



MT (JM-T) 400W E40



MT (JM-T) 400W E40



MT (JM-T) MW 315W PGZ18



Symmetric

Product codes

MACH 5 SYMMETRIC - CL I

CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
30507*	Silver body - Wide beam E40	150W	9.45	1	40	0.0494
30517*	Silver body - Semi-wide beam E40	150W	9.45	1	40	0.0494
30527*	Silver body - Intensive E40	150W	9.45	1	40	0.0494
30508*	Silver body - Wide beam E40	250W	9.45	1	40	0.0494
30518*	Silver body - Semi-wide beam E40	250W	9.45	1	40	0.0494
30528*	Silver body - Intensive E40	250W	9.45	1	40	0.0494
30509*	Silver body - Wide beam E40	400W	9.45	1	40	0.0494
30519*	Silver body - Semi-wide beam E40	400W	9.45	1	40	0.0494
30529*	Silver body - Intensive E40	400W	9.45	1	40	0.0494
50530*	Empty gear plate for CLI max 400W E40					
30501	Silver body - Wide beam E40	MT (JM-T) - ST (SAP-T) 150W	12.05	1	40	0.0494
30502**	Silver body - Wide beam E40	MT (JM-T) - ST (SAP-T) 250W	13.35	1	40	0.0494
30503**	Silver body - Wide beam E40	MT (JM-T) - ST (SAP-T) 400W	14.55	1	40	0.0494
30504	COSMO Silver body - Wide beam E40	MT (JM-T) 250W Philips	12.20	1	40	0.0494
30505	COSMO Silver body - Wide beam E40	MT (JM-T) 400W Philips	13.25	1	40	0.0494
30511	Silver body - Semi-wide beam E40	MT (JM-T) - ST (SAP-T) 150W	12.05	1	40	0.0494
30512**	Silver body - Semi-wide beam E40	MT (JM-T) - ST (SAP-T) 250W	13.35	1	40	0.0494
30513**	Silver body - Semi-wide beam E40	MT (JM-T) - ST (SAP-T) 400W	14.55	1	40	0.0494
30514	Silver body - Semi-wide beam E40	MT (JM-T) 250W Philips	12.20	1	40	0.0494
30515	Silver body - Semi-wide beam E40	MT (JM-T) 400W Philips	13.25	1	40	0.0494
30521	Silver body - Intensive E40	MT (JM-T) - ST (SAP-T) 150W	12.05	1	40	0.0494
30522**	Silver body - Intensive E40	MT (JM-T) - ST (SAP-T) 250W	13.35	1	40	0.0494
30523**	Silver body - Intensive E40	MT (JM-T) - ST (SAP-T) 400W	14.55	1	40	0.0494
30524	Silver body - Intensive E40	MT (JM-T) 250W Philips	12.20	1	40	0.0494
30525	Silver body - Intensive E40	MT (JM-T) 400W Philips	13.25	1	40	0.0494
30531	Silver body - Wide beam FC2	MD (JM-TS) 250W	13.35	1	40	0.0494
30532	Silver body - Wide beam FC2	SD (SAP-TS) 250W	13.35	1	40	0.0494
30533	Silver body - Wide beam FC2	MD (JM-TS) 400W	14.55	1	40	0.0494
30534	Silver body - Wide beam FC2	SD (SAP-TS) 400W	14.55	1	40	0.0494
€ 30550***	Silver body - Wide beam E40	ST (SAP-T) 600W	16.50	1	40	0.0494
€ 30555***	Silver body - Intensive E40	ST (SAP-T) 600W	16.50	1	40	0.0494
€ 30560***	Silver body - Wide beam PGZ18	MT (JM-T) 315W	12.00	1	40	0.0494
€ 30561***	Silver body - Semi-wide beam PGZ18	MT (JM-T) 315W	12.00	1	40	0.0494
€ 30562***	Silver body - Intensive PGZ18	MT (JM-T) 315W	12.00	1	40	0.0494

MACH 5 SYMMETRIC - CL II

CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
30701	Silver body - Wide beam E40	MT (JM-T) - ST (SAP-T) 150W	12.05	1	40	0.0494
30702**	Silver body - Wide beam E40	MT (JM-T) - ST (SAP-T) 250W	13.35	1	40	0.0494
30703**	Silver body - Wide beam E40	MT (JM-T) - ST (SAP-T) 400W	14.55	1	40	0.0494
30704	Silver body - Wide beam E40	MT (JM-T) 250W Philips	12.20	1	40	0.0494
30705	Silver body - Wide beam E40	MT (JM-T) 400W Philips	13.25	1	40	0.0494
30711	Silver body - Semi - wide beam E40	MT (JM-T) - ST (SAP-T) 150W	12.05	1	40	0.0494
30712**	Silver body - Semi - wide beam E40	MT (JM-T) - ST (SAP-T) 250W	13.35	1	40	0.0494
30713**	Silver body - Semi - wide beam E40	MT (JM-T) - ST (SAP-T) 400W	14.55	1	40	0.0494
30714	Silver body - Semi - wide beam E40	MT (JM-T) 250W Philips	12.20	1	40	0.0494
30715	Silver body - Semi - wide beam E40	MT (JM-T) 400W Philips	13.25	1	40	0.0494
30721	Silver body - Intensive E40	MT (JM-T) - ST (SAP-T) 150W	12.05	1	40	0.0494
30722**	Silver body - Intensive E40	MT (JM-T) - ST (SAP-T) 250W	13.35	1	40	0.0494
30723**	Silver body - Intensive E40	MT (JM-T) - ST (SAP-T) 400W	14.55	1	40	0.0494
30724	Silver body - Intensive E40	MT (JM-T) 250W Philips	12.20	1	40	0.0494
30725	Silver body - Intensive E40	MT (JM-T) 400W Philips	13.25	1	40	0.0494
30731	Silver body - Wide beam FC2	MD (JM-TS) 250W	13.35	1	40	0.0494
30732	Silver body - Wide beam FC2	SD (SAP-TS) 250W	13.35	1	40	0.0494
30733	Silver body - Wide beam FC2	MD (JM-TS) 400W	14.55	1	40	0.0494
30734	Silver body - Wide beam FC2	SD (SAP-TS) 400W	14.55	1	40	0.0494
€ 30760***	Silver body - Wide beam PGZ18	MT (JM-T) 315W	12.00	1	40	0.0494
€ 30761***	Silver body - Semi - wide beam PGZ18	MT (JM-T) 315W	12.00	1	40	0.0494
€ 30762***	Silver body - Intensive PGZ18	MT (JM-T) 315W	12.00	1	40	0.0494

* For extra European countries only.

** Suitable for MH lamps Osram type, see lamps technical specifications.

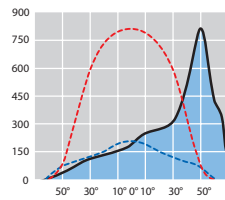
*** Only for external use: ta max 25°C - Vertical aiming: 0° - 90°.

€ Floodlight with CE marking only.

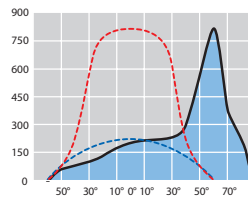
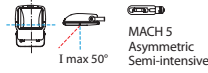
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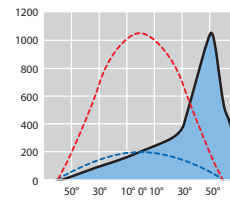
Asymmetric



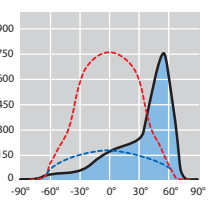
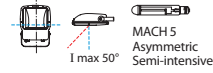
MT (JM-T) 400W E40



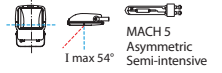
MT (JM-T) 400W E40



ST (SAP-T) 400W E40



MT (JM-T) MW 315W PGZ18



Product codes

MACH 5 ASYMMETRIC - CL I

CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
30607*	Silver body - Wide beam E40	150W	9.45	1	40	0.0494
30627*	Silver body - Semi-intensive E40	150W	9.45	1	40	0.0494
30608*	Silver body - Wide beam E40	250W	9.45	1	40	0.0494
30628*	Silver body - Semi-intensive E40	250W	9.45	1	40	0.0494
30609*	Silver body - Wide beam E40	400W	9.45	1	40	0.0494
30629*	Silver body - Semi-intensive E40	400W	9.45	1	40	0.0494
50530*	Empty gear plate for CLI max 400W E40					
30601	Silver body - Wide beam E40	MT (JM-T) - ST (SAP-T) 150W	12.05	1	40	0.0494
30602**	Silver body - Wide beam E40	MT (JM-T) - ST (SAP-T) 250W	13.35	1	40	0.0494
30603**	Silver body - Wide beam E40	MT (JM-T) - ST (SAP-T) 400W	14.55	1	40	0.0494
30604	ASTRO Silver body - Wide beam	MT (JM-T) 250W Philips	12.20	1	40	0.0494
30605	ASTRO Silver body - Wide beam	MT (JM-T) 400W Philips	13.25	1	40	0.0494
30621	Silver body - Semi-intensive E40	MT (JM-T) - ST (SAP-T) 150W	12.05	1	40	0.0494
30622**	Silver body - Semi-intensive E40	MT (JM-T) - ST (SAP-T) 250W	13.35	1	40	0.0494
30623**	Silver body - Semi-intensive E40	MT (JM-T) - ST (SAP-T) 400W	14.55	1	40	0.0494
30624	Silver body - Semi-intensive E40	MT (JM-T) 250W Philips	12.20	1	40	0.0494
30625	Silver body - Semi-intensive E40	MT (JM-T) 400W Philips	13.25	1	40	0.0494
30631	Silver body - Wide beam FC2	MD (JM-TS) 250W	13.35	1	40	0.0494
30632	Silver body - Wide beam FC2	SD (SAP-TS) 250W	13.35	1	40	0.0494
30633	Silver body - Wide beam FC2	MD (JM-TS) 400W	14.55	1	40	0.0494
30634	Silver body - Wide beam FC2	SD (SAP-TS) 400W	14.55	1	40	0.0494
€€ 30655***	Silver body - Wide beam PGZ18	MT (JM-T) 315W	12.00	1	40	0.0494
€€ 30656***	Silver body - Semi-intensive PGZ18	MT (JM-T) 315W	12.00	1	40	0.0494
€€ 30660***	Silver body - Wide beam E40	ST (SAP-T) 600W	16.50	1	40	0.0494
€€ 30668***	Silver body - Semi-intensive E40	ST (SAP-T) 600W	16.50	1	40	0.0494

MACH 5 ASYMMETRIC - CL II

CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
30801	Silver body - Wide beam E40	MT (JM-T) - ST (SAP-T) 150W	12.05	1	40	0.0494
30802**	Silver body - Wide beam E40	MT (JM-T) - ST (SAP-T) 250W	13.35	1	40	0.0494
30803**	Silver body - Wide beam E40	MT (JM-T) - ST (SAP-T) 400W	14.55	1	40	0.0494
30804	Silver body - Wide beam E40	MT (JM-T) 250W Philips	12.20	1	40	0.0494
30805	Silver body - Wide beam E40	MT (JM-T) 400W Philips	13.25	1	40	0.0494
30821	Silver body - Semi-intensive E40	MT (JM-T) - ST (SAP-T) 150W	12.05	1	40	0.0494
30822**	Silver body - Semi-intensive E40	MT (JM-T) - ST (SAP-T) 250W	13.35	1	40	0.0494
30823**	Silver body - Semi-intensive E40	MT (JM-T) - ST (SAP-T) 400W	14.55	1	40	0.0494
30824	Silver body - Semi-intensive E40	MT (JM-T) 250W Philips	12.20	1	40	0.0494
30825	Silver body - Semi-intensive E40	MT (JM-T) 400W Philips	13.25	1	40	0.0494
30831	Silver body - Wide beam FC2	MD (JM-TS) 250W	13.35	1	40	0.0494
30832	Silver body - Wide beam FC2	SD (SAP-TS) 250W	13.35	1	40	0.0494
30833	Silver body - Wide beam FC2	MD (JM-TS) 400W	14.55	1	40	0.0494
30834	Silver body - Wide beam FC2	SD (SAP-TS) 400W	14.55	1	40	0.0494
€€ 30855***	Silver body - Wide beam	MT (JM-T) 315W	12.00	1	40	0.0494
€€ 30856***	Silver body - Semi-intensive	MT (JM-T) 315W	12.00	1	40	0.0494

* For extra European countries only.

** Suitable for MH lamps Osram type, see lamps technical specifications.

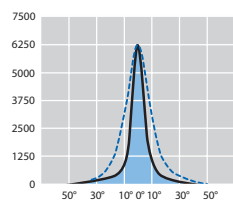
*** Only for external use: ta max 25°C - Vertical aiming: 0° - 90°.

€€ Floodlight with CE marking only.

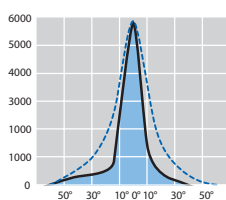
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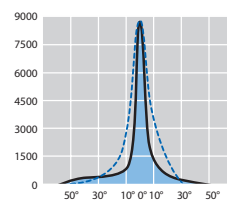
Circular



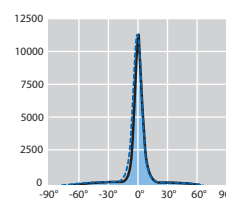
MD (JM-TS) 400W FC2



MT (JM-TS) 400W E40



MT (JM-T) 250W E40



MT (JM-T) MW 315W PGZ18



Product codes

MACH 5 CIRCULAR - CL I

CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
30681*	Silver body - High intensity reflector E40	150W	9.45	1	40	0.0494
30682*	Silver body - High intensity reflector E40	250W	9.45	1	40	0.0494
30683*	Silver body - High intensity reflector E40	400W	9.45	1	40	0.0494
50530*	Empty gear plate for CLI max 400W E40					
30661	Silver body - High intensity reflector E40	MT (JM-T) - ST (SAP-T) 150W	12.05	1	40	0.0494
30662**	Silver body - High intensity reflector E40	MT (JM-T) - ST (SAP-T) 250W	13.35	1	40	0.0494
30663**	Silver body - High intensity reflector E40	MT (JM-T) - ST (SAP-T) 400W	14.55	1	40	0.0494
30664	Silver body - High intensity reflector E40	MT (JM-T) 250W Philips	12.20	1	40	0.0494
30665	Silver body - High intensity reflector E40	MT (JM-T) 400W Philips	13.25	1	40	0.0494
30671	Silver body - High intensity reflector FC2	MD (JM-TS) 250W	13.35	1	40	0.0494
30672	Silver body - High intensity reflector FC2	SD (SAP-TS) 250W	13.35	1	40	0.0494
30673	Silver body - High intensity reflector FC2	MD (JM-TS) 400W	14.55	1	40	0.0494
30674	Silver body - High intensity reflector FC2	SD (SAP-TS) 400W	14.55	1	40	0.0494
CE 30680***	Silver body - High intensity reflector PGZ18	MT (JM-T) 315W	12.00	1	40	0.0494

MACH 5 CIRCULAR - CL II

CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
30861	Silver body - High intensity reflector E40	MT (JM-T) - ST (SAP-T) 150W	12.05	1	40	0.0494
30862**	Silver body - High intensity reflector E40	MT (JM-T) - ST (SAP-T) 250W	13.35	1	40	0.0494
30863**	Silver body - High intensity reflector E40	MT (JM-T) - ST (SAP-T) 400W	14.55	1	40	0.0494
30864	Silver body - High intensity reflector E40	MT (JM-T) 250W Philips	12.20	1	40	0.0494
30865	Silver body - High intensity reflector E40	MT (JM-T) 400W Philips	13.25	1	40	0.0494
30871	Silver body - High intensity reflector FC2	MD (JM-TS) 250W	13.35	1	40	0.0494
30872	Silver body - High intensity reflector FC2	SD (SAP-TS) 250W	13.35	1	40	0.0494
30873	Silver body - High intensity reflector FC2	MD (JM-TS) 400W	14.55	1	40	0.0494
30874	Silver body - High intensity reflector FC2	SD (SAP-TS) 400W	14.55	1	40	0.0494
CE 30780***	Silver body - High intensity reflector PGZ18	MT (JM-T) 315W	12.00	1	40	0.0494

* For extra European countries only.

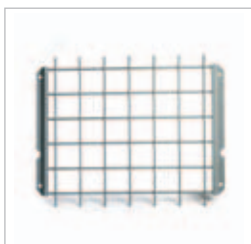
** Suitable for MH lamps Osram type, see lamps technical specifications.

*** Only for external use: ta max 25°C - Vertical aiming: 0° - 90°.

CE Floodlight with CE marking only.



Accessories and spare parts



60231
Protection grille in galvanized steel, coated Silver.



60232
Protection louvre in galvanized steel and coated Silver.



60233
Circular louvre in stainless steel, coated in Silver.



60234
Aluminium painted visor for asymmetric, coated in Silver.



60218
Painted stainless steel visor for symmetric, coated in Silver.

MACH 5

CODE	DESCRIPTION	WEIGHT (KG)	COLOUR	PACKING (PCS)	VOLUME
60231	Protection grille in galvanized and coated steel	0.60	Silver	1	0.0024
60232	Protection louvre in galvanized and coated steel	1.07	Silver	1	0.0090
60233	Circular louvre in stainless steel	1.70	Silver	1	0.0109
60234	Aluminium painted visor for asymmetric	0.80	Silver	1	0.0133
60218	Painted stainless steel visor for symmetric	0.73	Silver	1	0.0010
60239	Extension arm length mm 750 in galvanized and coated steel	6.50	Silver	1	0.0415
60235	AKRON 1	0.50	Silver	1	0.0010
60237	AKRON 2	0.50	Silver	1	0.0010
60238	AKRON 3	1.65	Silver	1	0.0082
60240	AKRON 4 Ø 60 mm	13.50	Galvanized steel	1	0.0490
60242	AKRON 4 Ø 76 mm	14.00	Galvanized steel	1	0.0490
60244	AKRON 5 Ø 60 mm	9.50	Galvanized steel	1	0.0136
60246	AKRON 5 Ø 76 mm	10.00	Galvanized steel	1	0.0136
50530*	Empty gear plate - CLI - max 400W E40	0.40		1	0.0010
04864	Philips lamp HPI-T 400W 4500K				
04865	Philips lamp HPI-T 250W 4500K				
11528**	Osram lamp HQI-T 400W/N/SI 4500K				
11605**	Osram lamp HQI-T 250W/N/SI 4500K				
05664	Osram lamp SAP-T 600W SUPER				
18434	Philips lamp CDM Elite MW 315W 3100K				
18435	Philips lamp CDM Elite MW 315W 4200K				

* For extra European countries only.

** For versions with ballast mercury vapor.



Akron: pole or wall system

The Akron installation modular system has been properly studied for MACH 5 floodlights and it is available in the following versions:



AKRON 1 **60235**
Single top pole mounting support \varnothing mm 60, in die cast aluminium block painted Silver.



AKRON 2 **60237**
Double top pole mounting support \varnothing mm 60, in die cast aluminium twin block painted in Silver.



AKRON 3 **60238**
Wall mounting single support for horizontal aiming, in die cast aluminium block painted in Silver.



AKRON 4 **60242**
Hot deep galvanized sheet steel accessory for max 4 floodlights, max power 400W for pole max \varnothing 76 mm.



AKRON 5 **60246**
Hot deep galvanized sheet steel accessory for num. 2/4 extension arms code 60239 for \varnothing 76 mm pole.



60239
Extension arm length mm 750. Galvanized steel, coated in Silver colour.

AKRON 4 **60240**
Hot deep galvanized sheet steel accessory for max 4 floodlights, max power 400W for pole max \varnothing 60 mm.

AKRON 5 **60244**
Hot deep galvanized sheet steel accessory for num. 2/4 extension arms code 60239 for \varnothing 60 mm pole.