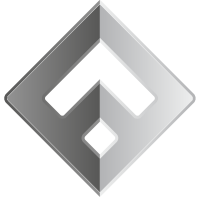


PARTNER TELESCOPIC MAST

Heavy - Super Heavy - Giant

CATEGORY LARGE





FIRECO

PARTNER TELESCOPIC MAST LARGE

Index.

01

PARTNER TELESCOPIC MAST

- *heavy*
- *super heavy*
- *giant*

02

ACCESSORIES

- *lamp units*
- *tilt & turn units*
- *compressors*
- *pneumatic control board*
- *electrical spiraled cables*
- *mounting accessories*
- *multifunctional kit*



IVECO

FW 5005

Service Center | 09476/747473

FEUERWEHR

50-170

GW LEVS

Freiwillige
Feuerwehr
Weinheim

FEUERWEHR

01

PARTNER TELESCOPIC MAST LARGE

Fireco offers a wide range of Partner telescopic mast, made of aluminum, with extended heights from 1.8 m up to 40 m, diameters from 64 mm to 250 mm and with 3 to 14 sections. The masts are made of light aluminum alloy tubes, anodized and with anti-corrosion properties even in the presence of salt spray. They can withstand temperatures between -40°C and $+60^{\circ}\text{C}$. Fireco's flexibility and professionalism allows us to offer customized solutions, with tailor-made dimensions and features.

The Partner telescopic masts that make up the LARGE category are the models: HEAVY, SUPER HEAVY and GIANT. They can all be extended through the use of compressors or solenoid valve units. These mast models can carry large overhead loads and are therefore suitable for mounting light heads, antennas or detection instruments with large dimensions and weights.



PARTNER TELESCOPIC MAST LARGE

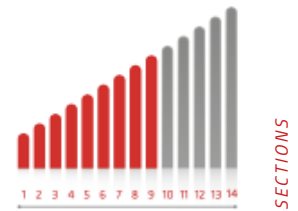
FEATURES

- DIAM Ø 152, 200 AND 250 MM
- LARGE LOADS
- HEIGHT EXTENDED UP TO 40 METERS
- TILT & TURN HEAVY
- INTERNAL CABLES
- COMPLETE MUTIFUNCTIONAL SYSTEM
- WIDE RANGE OF FOODLIGHTS COMBINATION

PARTNER TELESCOPIC MAST LARGE HEAVY

The telescopic mast **HEAVY** has a diameter of 152 mm and it is available in versions up to 9 sections.

This mast model can carry heavy top loads and is therefore suitable for the mounting of large lamp units, large antennas and heavy measuring equipment. The extended heights go from 4.316 mm up to 17.040 mm.



Mod. HEAVY Ø 152 mm		8 sections with internal cable 8 sfili con cavo interno									
CH 38		01	02	03	04	05	06	07	08	09	
Code N	extended height <i>altezza estesa</i>	mm	6.385	7.167	8.219	9.146	10.161	11.225	12.634	13.705	14.850
	retracted height <i>altezza chiusa</i>	mm	1.504	1.601	1.751	1.881	2.011	2.164	2.354	2.470	2.671
	weight <i>peso</i>	kg	41,4	44	47,6	50,7	54	59	63,6	66,4	70
internal spiralled cable / <i>cavo intero spiralato</i>		Standard 4x1,5 mm ² Cod. B									
max. top load <i>max. peso in testa</i>		kg	110	110	100	100	80	70	60	50	40
max. allowed wind speed <i>max. velocità del vento ammessa</i>		km / h	115	105	95	90	80	70	100	90	155
with max. surface / <i>con area max.</i>			1 m ²			0,8 m ²		1 m ²	0,7 m ²	1 m ²	
max. air pressure / <i>max. pressione dell'aria</i>			3 kg / cm ² (bar)								
									1 Level of guying rings <i>1 livello di tesatura</i>	2 Levels of guying rings <i>2 livelli di tesatura</i>	

Mod. HEAVY Ø 152 mm		9 sections with internal cable 9 sfili con cavo interno										
CH 39		01	02	03	04	05	06	07	08	09		
Code N	extended height <i>altezza estesa</i>	mm	6.438	7.250	8.304	9.148	10.186	11.191	12.466	13.704	14.877	
	retracted height <i>altezza chiusa</i>	mm	1.453	1.570	1.680	1.810	1.930	2.048	2.200	2.355	2.515	
	weight <i>peso</i>	kg	40,9	44,2	47,7	52,8	53	56,1	60,4	64,7	68,1	
internal spiralled cable <i>cavo intero spiralato</i>		Standard 4x1,5 mm ² Cod. B						Note*:GUYED <i>Attenzione*: TESARE</i>				
max. top load <i>max. peso in testa</i>		kg	80	80	80	80	70	50	40	35	30	
max. allowed wind speed* <i>max. velocità del vento ammessa*</i>		km / h	105	95	100	90	85	75	90	75	150	
with max. surface <i>con area max.</i>			1 m ²		0,7 m ²		0,5 m ²			1 m ²		
max. air pressure <i>max. pressione dell'aria</i>			3 kg / cm ² (bar)									
Ø top section <i>Ø tubo finale</i>			51 mm									
									1 Level of guying rings <i>1 livello di tesatura</i>		2 Levels of guying rings <i>2 livelli di tesatura</i>	

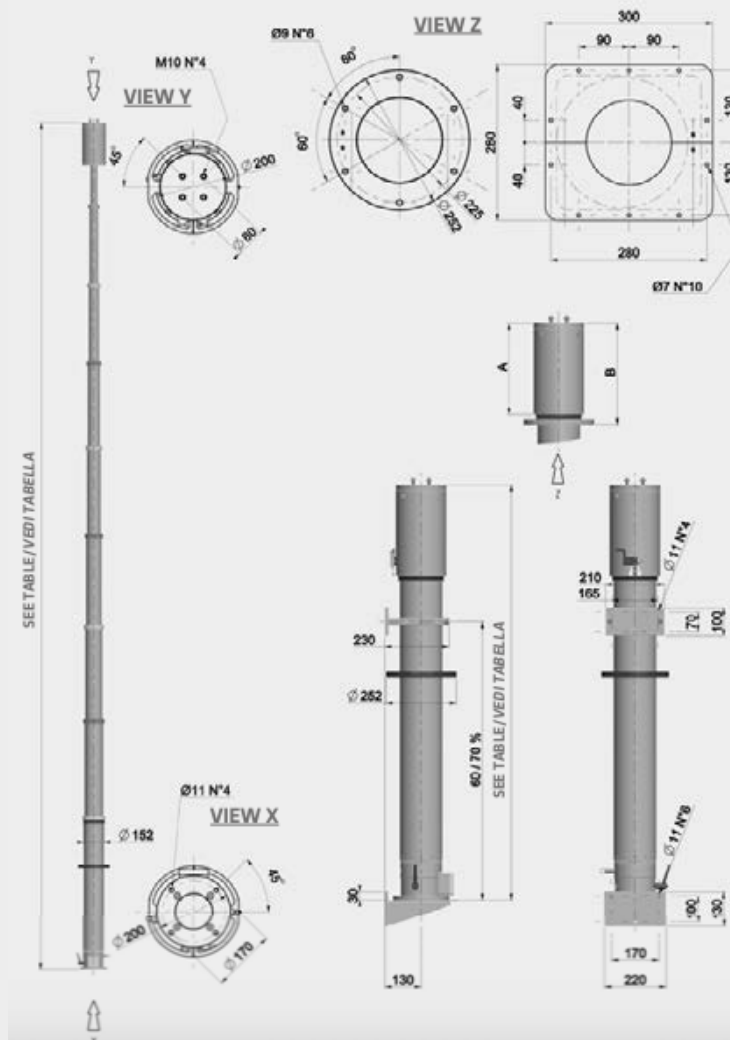
TECHNICAL LAYOUT

A/B (mm)

5 sections 229/259 - 6 sections 228/258-

7 sections 261/291- 8 sections 294/324-

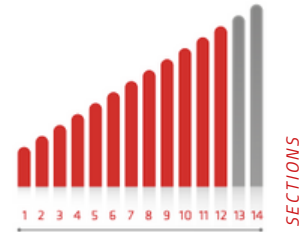
9 sections 327/357





PARTNER TELESCOPIC MAST LARGE SUPER HEAVY

The telescopic mast **SUPER HEAVY** has a diameter of 200mm. This mast model can carry greater loads than the Heavy model. Furthermore it's available up to 12 sections and allows to have a better ratio between the extended and the retracted height. The Super Heavy mast is suitable for the mounting of large lamp units, large antennas and heavy measuring equipment. The extended heights go from 6.445 mm up to 39.954 mm.

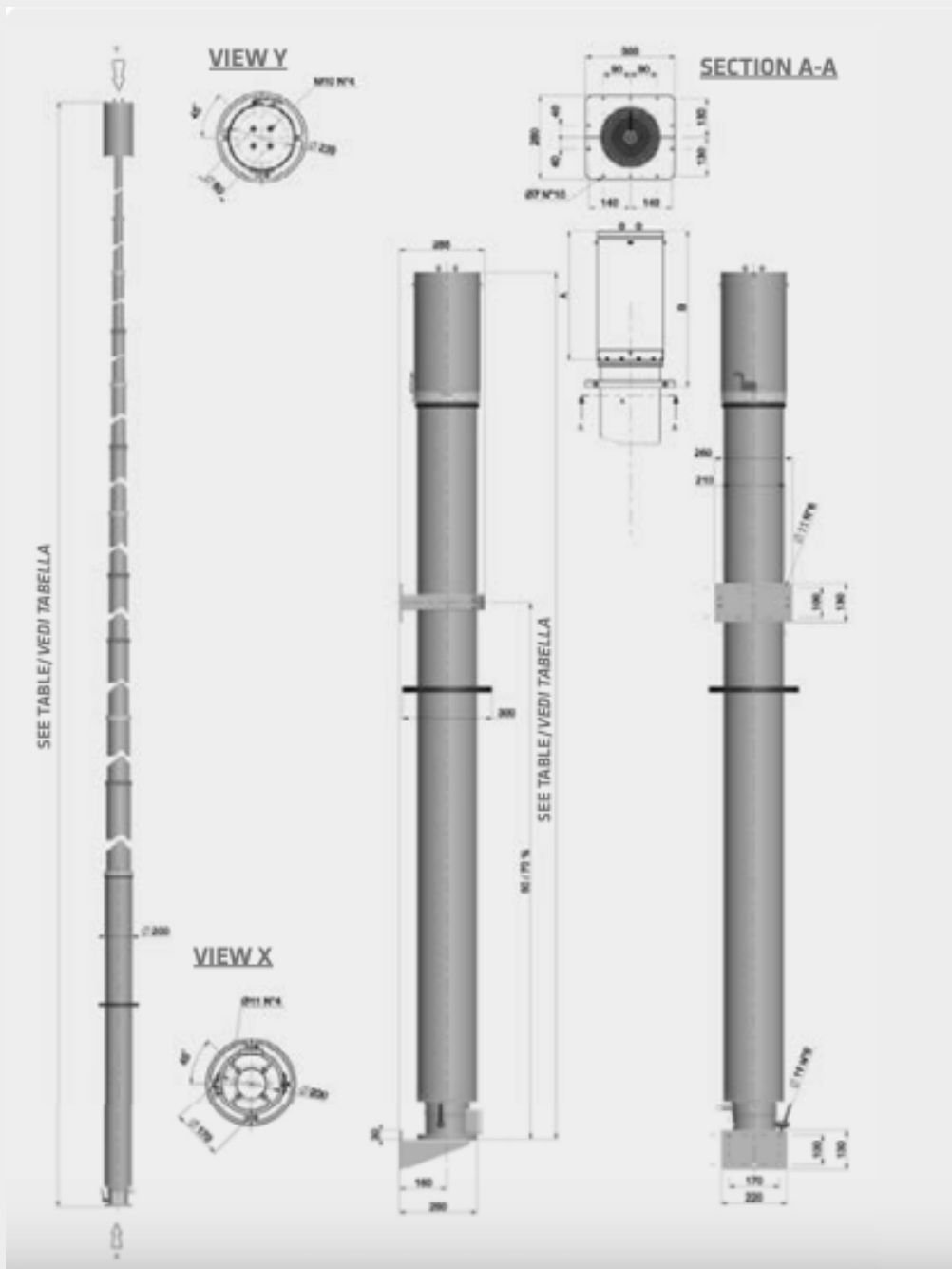


Mod. SUPER HEAVY Ø 200 mm		11 sections with internal cable 11 sfili con cavo interno									
CX 41		01	02	03	04	05	06	07	08	09	
Code N	extended height altezza estesa	mm	8.379	9.938	12.208	14.899	18.391	20.889	23.864	26.894	29.890
	retracted height altezza chiusa	mm	1.610	1.791	2.045	2.300	2.662	2.980	3.085	3.375	3.691
	weight peso	kg	72,5	79,5	90,2	101,6	117,8	131,2	147,5	161,2	177,3
internal spiralled cable cavo intero spiralato		Standard 4x1,5 mm ² Cod. B						without cable senza cavo Code A			
max. top load max. peso in testa		kg	80	70	60	50	40	35	30	25	20
max. allowed wind speed max. velocità del vento ammessa		km / h	120	100	85	160	130	130	110	90	70
with max. surface / con area max.			1 m ²		0,75 m ²	1 m ²		0,5 m ²		0,3 m ²	
max. air pressure / max. pressione dell'aria			3 kg / cm ² (bar)								
Ø top section / Ø tubo finale			64 mm								
			2 Levels of guying rings 2 livelli di tesatura				3 Levels of guying rings 3 livelli di tesatura				

Mod. SUPER HEAVY Ø 200 mm		12 sections with internal cable 12 sfili con cavo interno									
CX 42		01	02	03	04	05	06	07	08	09	
Code N	extended height altezza estesa	mm	14.959	18.479	20.946	23.954	26.950	29.947	32.954	36.452	39.954
	retracted height altezza chiusa	mm	2.210	2.570	2.870	2.930	3.220	3.500	3.790	4.120	4.570
	weight peso	kg	99,6	116,5	129,1	143,8	158,3	172,8	187,4	203,9	228
internal spiralled cable cavo intero spiralato		Standard 4x1,5 mm ² Cod. B				without cable senza cavo Code A					
max. top load max. peso in testa		kg	50	35	30	25	20	15	10	8	5
max. allowed wind speed max. velocità del vento ammessa		km / h	170	150	125	105	85	65	40	35	30
with max. surface con area max.			0,5 m ²			0,3 m ²		0,2 m ²		0,1 m ²	
max. air pressure max. pressione dell'aria			3,5 kg / cm ² (bar)								
Ø top section Ø tubo finale			51 mm								
			2 Levels of guying rings 2 livelli di tesatura		3 Levels of guying rings 3 livelli di tesatura			4 Levels of guying rings 4 livelli di tesatura			

TECHNICAL LAYOUT

A/B (mm)
 6 sections 266/296 - 7 sections 301/331 -
 8 sections 300/330 - 9 sections 333/363 -
 10 sections 366/396 - 11 sections 399/429 -
 12 sections 423/462

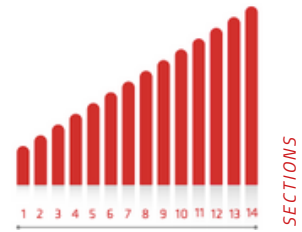




PARTNER TELESCOPIC MAST LARGE GIANT

The telescopic mast **GIANT** is the largest Fireco mast without lockings and has a diameter of 250 mm. This mast model can carry huge top loads and is therefore suitable for the mounting of very big lamp units, large antennas and heavy measuring equipment.

The extended heights go from 6.447 mm up to 39.952 mm.



Mod. GIANT Ø 250 mm		13 sections with internal cable 13 sfilii con cavo interno									
CG 43		01	02	03	04	05	06	07	08	09	
Code N	extended height <i>altezza estesa</i>	mm	8.451	9.951	12.447	14.941	18.447	20.941	23.947	26.939	29.953
	retracted height <i>altezza chiusa</i>	mm	1.550	1.730	1.970	2.220	2.570	2.880	2.910	3.190	3.480
	weight <i>peso</i>	kg	98,8	110,6	128	145,4	170,2	188,1	206,4	228,2	250,2
internal spiralled cable <i>cavo intero spiralato</i>		Standard 4x1,5 mm ² Cod. B					Note*:GUYED Attenzione*: TESARE				
max. top load / max. peso in testa		kg	90	80	70	60	55	50	45	40	35
max. allowed wind speed* <i>max. velocità del vento ammessa*</i>		km / h	130	115	90	85	65	100	80	65	50
with max. surface / con area max.			1 m ²		0,5 m ²		1 m ²	0,8 m ²	0,65 m ²	0,5 m ²	
max. air pressure / max. pressione dell'aria			3 kg / cm ² (bar)								
Ø top section / Ø tubo finale			64 mm								
								2 Levels of guying rings 2 livelli di tesatura		3 Levels of guying rings 3 livelli di tesatura	

Mod. GIANT Ø 250 mm		14 sections with internal cable 14 sfilii con cavo interno									
CG 44		01	02	03	04	05	06	07	08	09	
Code N	extended height <i>altezza estesa</i>	mm	14.944	18.461	20.953	23.944	26.937	29.930	32.946	36.444	39.952
	retracted height <i>altezza chiusa</i>	mm	2.190	2.520	2.780	2.820	3.070	3.320	3.580	3.880	4.190
	weight <i>peso</i>	kg	141,7	165,4	182,6	201,9	221,1	240,3	259,7	283,4	307,2
internal spiralled cable <i>cavo intero spiralato</i>		Standard 4x1,5 mm ²			Note*:GUYED Attenzione*: TESARE						
max. top load <i>max. peso in testa</i>		kg	60	50	40	35	30	25	20	15	10
max. allowed wind speed* <i>max. velocità del vento ammessa*</i>		km / h	80	60	95	75	60	45	40	35	30
with max. surface / con area max.			0,5 m ²		1 m ²	0,8 m ²	0,65 m ²	0,5 m ²	0,3 m ²	0,2 m ²	0,1 m ²
max. air pressure / max. pressione dell'aria			3 kg / cm ² (bar)								
Ø top section / Ø tubo finale			51 mm								
						2 Levels of guying rings 2 livelli di tesatura		3 Levels of guying rings 3 livelli di tesatura		4/5 Levels of guying rings 4/5 livelli di tesatura	

*When erecting masts with guying ropes, take extreme care during the extension phase. Maximum allowed wind speed during extension is 20km/h

TECHNICAL LAYOUT

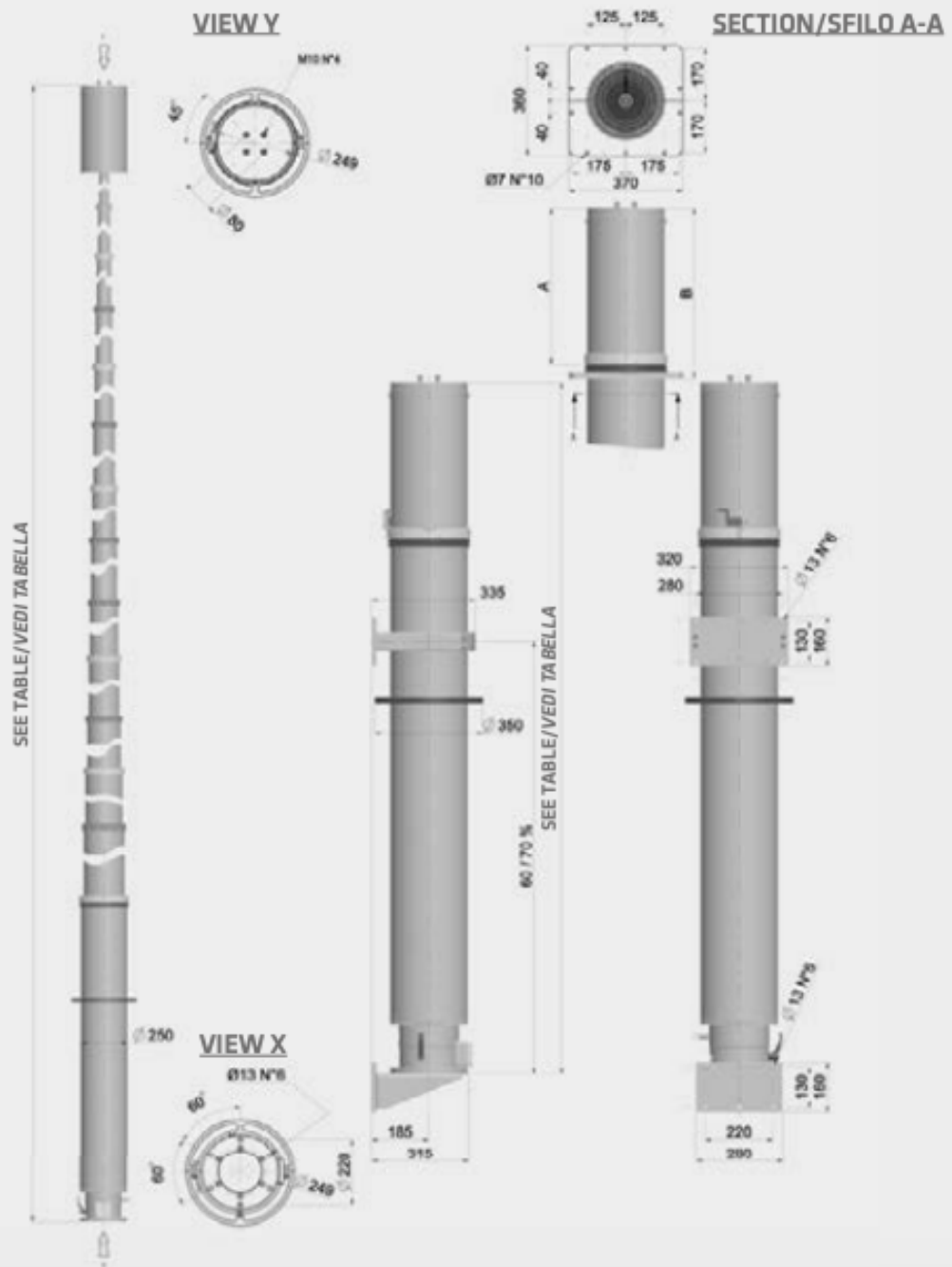
A/B (mm)

6 sections 340/380 - 9 sections 375/415

10 sections 374/414 - 11 sections 407/447-

12 sections 440/480 - 13 sections 473/513 -

14 sections 506/546

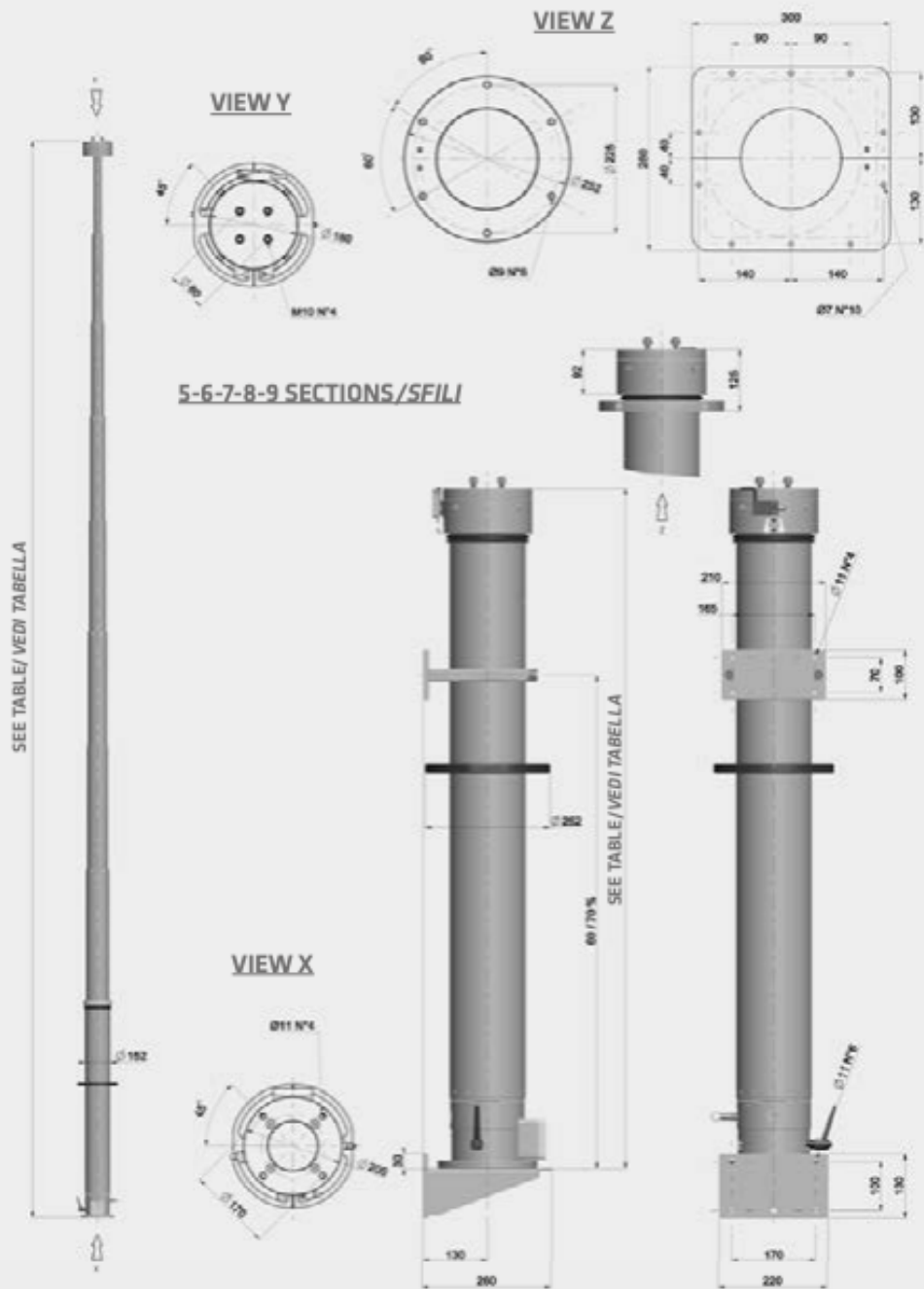




COMPACT VERSION

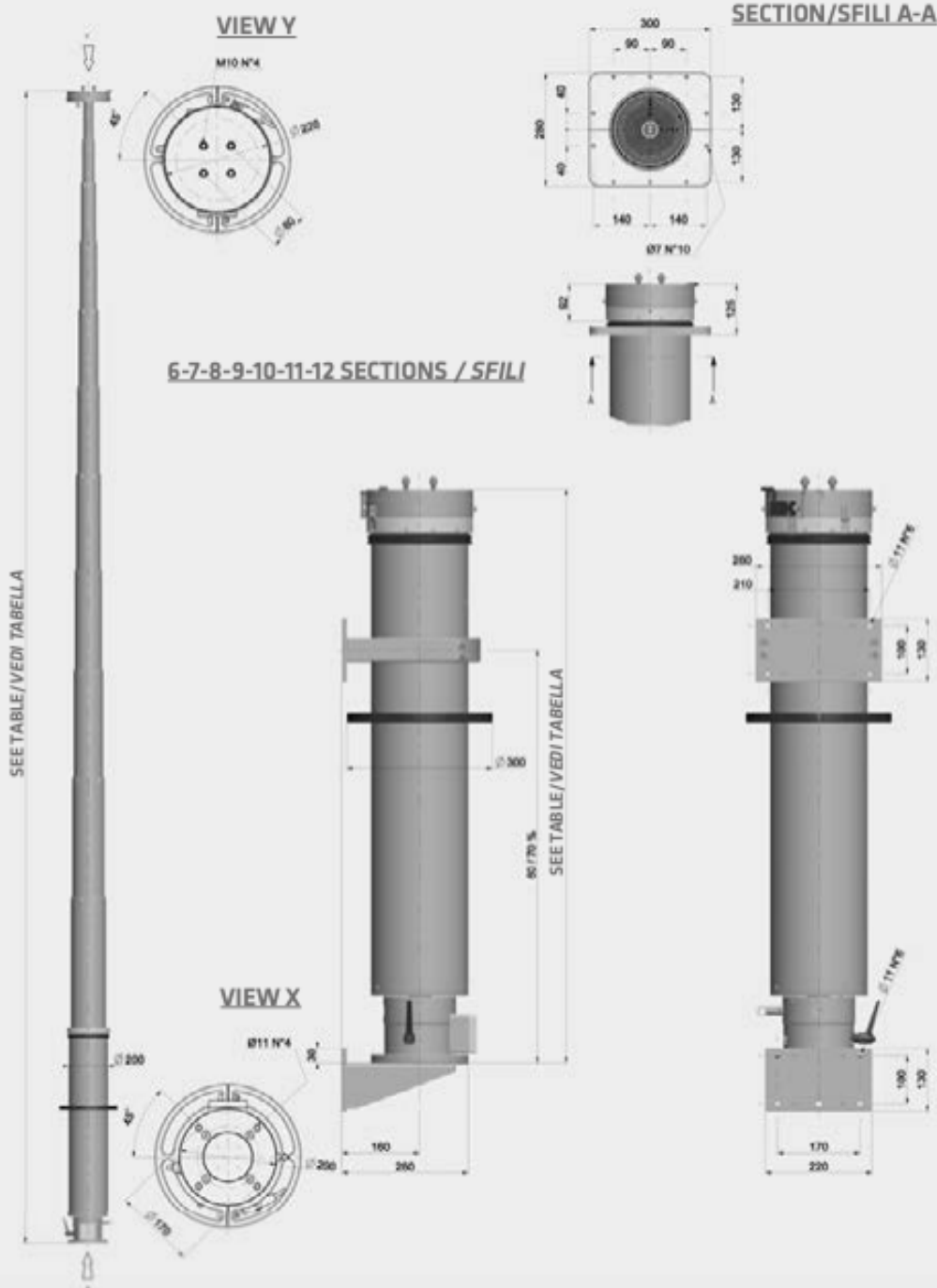
The Partner masts can also be made in the COMPACT VERSION, when a shorter retracted height is needed. The Compact version permits to have approx. the same extended height as the normal Partner mast, but with a shorter retracted height. Let's make an example: Partner mast Standard CS.3434.N – extended height 4.355 mm and retracted height 1.581mm. The Compact version of this mast will have an extended height of 4.439 mm but a retracted height of only 1.531 mm. The first number 3 in the code of the mast will be replaced by an 8 and the number 4 with a 9. In our example the code of the mast will become CS.8434.N.

HEAVY



COMPACT VERSION

SUPER HEAVY





ACCESSORIES

The Partner telescopic masts can be equipped with a wide range of accessories and devices, in order to satisfy every operational need: LED lamp units, with high efficiency and light power, tilt & turn systems able to direct the light beams to the desired spot in an easy way, thanks to remote controls.

Fireco also offers medium and small sized compressors which, thanks to their compactness and functionality, prove to be an optimal solution for quickly and safely extend the pneumatic telescopic masts. Equally useful are the pneumatic controls for the air supplied by the vehicle's brake system. A multifunction kit, specifically designed for this type of masts, allows you to control all the functions in a simple and intuitive way with one single remote control.



FLOODLIGHTS LZ

The floodlights designed and developed by Fireco allow telescopic masts to be completed with high-quality lighting to provide firefighters or rescue workers with the best available support. They can be mounted on a Tilt & Turn unit directly or on the mast head, if required, also in a 360° top side position (i.e. 3 floodlights mounted at 120° or 4 floodlights at 90°).

The latest series of floodlights with LED technology developed by Fireco are the LZ LEDs which offer an excellent mix of energy-efficient performance and great light output. They are available in 50W, 80W, 100W, 200W, 300W or 400W versions and with 60° or 90° light beams.



LZ 50 W

LZ 80 W

NEW		FEATURES	
LZ 50 W	Consumption	50 W	
	Power supply	12 to 40 Vdc	
	Power absorption	4,16 A- 1,25 A	
	Color temperature	5000 K	
	Light flux	8800 LM	
	IP degree	IP 66	
	Weight	1,1 kg	
	Dimensions	128x148x70 mm	
	Operating temperature	-40°C to + 85°C	

NEW		FEATURES	
LZ 80 W	Consumption	80 W	
	Power supply	12 to 40 Vdc	
	Power absorption	6,66 A - 2,00 A	
	Color temperature	5000 K	
	Light flux	11500 LM	
	IP degree	IP 66	
	Weight	1,1 kg	
	Dimensions	128x148x70 mm	
	Operating temperature	-40°C to + 85°C	

LZ 100 W

FEATURES	
Consumption	100 w
Power supply	12 to 24 Vdc - 130 to 230 Vac
Power absorption	8,3/4,13 A - 1,5/0,75 A
Color temperature	5000 K
Light flux	17600 LM
IP degree	IP 66
Weight	3 kg
Dimensions	348x161x96 mm
Operating temperature	-40°C to + 85°C

FARI LZ 100 W

LZ 200 W

FEATURES	
Consumption	200 W
Power supply	12 to 24 Vdc - 130 to 230 Vac
Power absorption	16,7/8,3 A - 1,5/7,5 A
Color temperature	5000 K
Light flux	35200 LM
IP degree	IP 66
Weight	5,8 kg
Dimensions	362x224x142 mm
Operating temperature	-40°C to + 85°C

FARI LZ 200 W




FARI LZ 300 W



LZ 300 W

FEATURES

Consumption	300 W
Power supply	12 to 24 Vdc - 130 to 230 Vac
Power absorption	25/12,5 A - 1,5/0,75 A
Color temperature	5000 K
Light flux	52800 LM
IP degree	IP 66
Weight	7,6 kg
Dimensions	517x224x142 mm
Operating temperature	-40°C to + 85°C

FARI LZ 400 W



LZ 400 W

FEATURES

Consumption	400 W
Power supply	12 to 24 Vdc - 130 to 230 Vac
Power absorption	33/16,6 A - 1,5/0,75 A
Color temperature	5000 K
Light flux	70400 LM
IP degree	IP 66
Weight	10,8 kg
Dimensions	674x224x142 mm
Operating temperature	-40°C to + 85°C

FLOODLIGHTS DUO LZ

Natural evolution of the LZ, the **Duo LZ** floodlights are Fireco's most complete LED lighting solution. It allows operators to adapt the lighting to the environmental conditions of the operating site by switching between two different color temperatures: a classic white daylight (5700 K) or a warmer selective yellow light (2700 K).

Especially suitable for foggy or snowy environments, the yellow light will help to avoid the effects of glare. Whatever the weather, the Duo LZ is ready to guarantee the best visibility in every situation.



DUO LZ 100 W

FEATURES	
Consumption	100 W
Power supply	12 to 40 Vdc
Power absorption	8,3/4.15 A- 1.5/0.75 A
Color temperature	2700 K / 5700 K
Light flux	8000 LM/ 8900 LM
IP degree	IP 66
Weight	3 kg
Dimensions	348x161x96 mm
Operating temperature	-40°C to + 85°C

DUO LZ 100 W

DUO LZ 200 W

FEATURES	
Consumption	200 W
Power supply	12 to 40 Vdc
Power absorption	16,7/8,3 A
Color temperature	2700 K / 5700 K
Light flux	18700 LM / 20370 LM
IP degree	IP 66
Weight	6,5 kg
Dimensions	362X224X142 mm
Operating temperature	-40°C to + 85°C

DUO LZ 200 W



FLOODLIGHTS WORKLED

In addition to the LZ, Fireco offers 50 W and 80 W LED floodlights, which are more compact and energy-efficient. These lights are ideal for mounting on different systems, such as Inside Focus System or Tilt & Turn units, or directly on the light mast head.

WORKLED 50 W



WORKLED 50 W

FEATURES	
Consumption	50 W
Power supply	12-48 Vdc
Color temperature	6000 K
Light flux	4200 LM
IP degree	IP 67
Weight	1,6 kg
Dimensions	125x110x103 mm
Operating temperature	-40°C to + 80°C

WORKLED 80 W



WORKLED 80 W

FEATURES	
Consumption	80 W
Power supply	12-48 Vdc
Color temperature	6000 K
Light flux	6797 LM
IP degree	IP 67
Weight	2,8 kg
Dimensions	175x146x115,4 mm
Operating temperature	-40°C to + 80°C

TILT UNIT

The Partner pneumatic masts can be equipped with a Tilt unit 12V or 24V

TILT UNIT HEAVY

The tilt unit Heavy permits to tilt the equipment approximately 100° and can withstand a max. top load of 60kg. The motor can be mounted either horizontally or vertically. The system weights 9 kg

Vertically mounted

- TL.31501 = Tilt unit Heavy 12V
- TL.31502 = Tilt unit Heavy 24V

Horizontally mounted

- TL.31511 = Tilt unit Heavy 12V
- TL.31512 = Tilt unit Heavy 24V



TILT UNIT SUPER HEAVY

The tilt unit Super Heavy permits to tilt the equipment approximately 100° and can have a max. top load from 60 kg to 100 kg. The motor can be mounted either horizontally or vertically. The system weights 10 kg.

Vertically mounted

- TL.31551 = Tilt unit Super Heavy 12V
- TL.31552 = Tilt unit Super Heavy 24V

Horizontally mounted

- TL.31561 = Tilt unit Super Heavy 12V
- TL.31562 = Tilt unit Super Heavy 24V





TILT & TURN UNIT

The telescopic masts can be equipped with our devices, designed to provide a flexible illumination in various emergency scenarios. The main product is the Tilt & Turn unit: a reactive positioning system for tilting and turning the floodlights, in order to direct the light beam where necessary. The Tilt & Turn units are available in different versions in order to provide a solution to different requirements, by granting always reduced weight and dimensions and giving great versatility.

The Tilt & Turn units can be controlled with remote controls using the RS485 communication protocol. The remote controls are available in the versions with cable, radio or in the Smart version which allows both wired and radio use and which is equipped with rechargeable batteries. In order to communicate with the most complex and standardized protocols worldwide, the system can also be controlled via CANbus, especially in its FireCAN version specifically dedicated to fire-fighting applications.

TILT & TURN SPARK 2 -3 MOTORS

Compact and easy to use with a maximum top load of 60 kg. Available 12V and 24V, it is suitable for the most common applications. It can be supplied with a pair of connectors for each floodlight and it is available with two or three actuators in order to turn the mounted accessories and to tilt them simultaneously (with 2 motors) or separately (with 3 motors). All functions are controlled via multifunction remote control (available wired, radio and Smart). The T&T Spark has an IP65 protection rating.



Version 2 motors

- weight 10 Kg
- load 20+20 Kg

Electric ratings

- supply voltage 12-24 VCC
- gearmotor max power 72 W*
- gearmotor max current 6/3 A*

Version 3 motors

- weight 12 Kg
- load 25+25 Kg

* This data refers to a single actuator; depending on the TT unit version (2 or 3 actuators) the total power will be twice or three times the indicated value.

TILT & TURN SPARK PLUS 2 -3 MOTORS

The Tilt & Turn Spark Plus system is able to rotate and tilt loads with weights 60% higher than those supported by the Spark version, allowing the quantity of floodlight that can be installed to be increased, thus increasing the illuminating power, while maintaining the small and compact dimensions of the Spark solutions.

The superior performance derives from the increase in power and the overall structure of the two tilting actuators, a new electronic board allows you to drive more powerful motors through the same RS485 control interface and multifunction remote controls.



Version 2 motors

- weight 12 Kg
- load 35+35 Kg

Electric ratings

- supply voltage 12-24 VCC
- gearmotor max power 290 W*
- gearmotor max current 24/12 A*

Version 3 motors

- weight 14 Kg
- load 45+45 Kg

* This data refers to a single actuator; depending on the TT unit version (2 or 3 actuators) the total power will be twice or three times the indicated value.

TILT & TURN HEAVY

The Tilt & Turn unit Heavy is a tilt and turn system that has been specifically developed for all types of applications where large mast models are used and which require the mounting of heavy and big lamp units. The TT Heavy, in fact, is always equipped with three actuators, one for rotation and two for separate inclination, and can carry extremely large loads of up to 150 kg. Available in the 3 motors version 12V or 24V.



Version 3 motors

- weight 12 Kg
- load 75+75 Kg

Electric ratings

- supply voltage 12-24 VCC
- gearmotor max power 72 W*
- gearmotor max current 6/3 A*

* This data refers to a single actuator; depending on the TT unit version (2 or 3 actuators) the total power will be twice or three times the indicated value.

	TT Spark	TT Spark Plus	TT Heavy
Width (end of shafts)	300 mm	300 mm	355 mm
Height	269 mm	269 mm	341,5 mm
Depth	196 mm	196 mm	296 mm
Weight (2 mot. version)	10 Kg	12 Kg	n.d.
Payload (2 mot .version) *	50 Kg (25 +25)	70 Kg (35+35)	n.d.
Weight (3 mot. version)	12 Kg	14 Kg	31 kg
Payload (3 mot .version) *	60 kg	90 Kg (45+45)	150 kg
Turn angle	365°	365°	265°
Tilt angle	365°	365°	280°

* Resistance to payload calculated considering center of gravity at 0,5 m from mast vertical axis



COMPRESSORS



AI.32011



AI.32141

230V

AI.32005

Coaxial oil-less air compressor 230V 180 lt/1' – max. pressure 8 bar – weight 5 kg.
Dim. L 400 x H 230 x W 370 mm

AI.32011

Coaxial air compressor lubricated, single phase 230V – 5,0 A – 1,1 kW – 185 lt/1' – max pressure 8 bar – weight 14 kg dB – A 80 with 6 lt tank
Dim. L 320 x H 440 x W 260 mm

AI.32011.RC

Coaxial lubricated air compressor , single phase 230V – 5,0A – 1,1 kW – 185 lt/1' – max pressure 8 bar – weight 14 kg dB – A 80 – with 6 lt tank and remote control
Dim. L 320 x H 440 x W 260 mm

AI.32091

Air compressor 230V – 50 lt/1' – STPV - weight 3,5 kg
Dim. L 230 x H 170 x W 135 mm

AI.32092

Air compressor 230V – 50 lt/1' – STPV/AB – with remote control and pressure switch - weight 5 kg
Dim. L 230 x H 170 x W 135 mm

12/24V

AI.32121

Air compressor ST 12V – 50 lt/1' – 13,5 A - weight 3,5 kg
Dim. L 230 x H 170 x W 135 mm

AI.32122

Air compressor ST 24V – 50 lt/1' – 7 A - weight 3,5 kg
Dim. L 230 x H 170 x W 135 mm

AI.32131

Air compressor STPV 12V – 50 lt/1' – 13,5 A with pressure switch and non return valve - weight 4 kg
Dim. L 230 x H 170 x W 135 mm

AI.32132

Air compressor STPV 24V – 50 lt/1' – 7 A – with pressure switch and non return valve - weight 4 kg
Dim. L 230 x H 170 x W 135 mm

AI.32141

Air compressor STPV-AB 12V – 50 lt/1' – 13,5 A with remote control - weight 5 kg
Dim. L 230 x H 170 x W 135 mm

AI.32142

Air compressor STPV-AB 24V – 50 lt/1' – 7 A with remote control - weight 5 kg
Dim. L 230 x H 170 x W 135 mm

AI.32141.M

Air compressor STPV-AB 12V – 50 lt/1' – 13,5 A with remote control and spring - weight 5 kg
Dim. L 230 x H 170 x W 135 mm

COMPRESSORS

STREAM



AI.32180

Air compressor Stream 230V - 450 W - weight 8.5 Kg 145 lt/1'
Dim. L 326 X H 289 x W 164 mm

AI.32180_24

Air compressor Stream 24V - 450 W - weight 8.5 Kg 145 lt/1'
Dim. L 326 X H 289 x W 164 mm

AI.32180_12

Air compressor 12V - 450 W - weight 8.5 Kg 145 lt/1'
Dim. L 326 X H 289 x W 164 mm

AI.32178/_12/_24

STPV-ABwith pressure switch, non return valve and remote control - weight 8.5 Kg 145 lt/1'
Dim. L 326 X H 289 x W 164 mm

AIR COMPRESSOR FOR MULTIFUNCTION SYSTEM

AI.32921

Air compressor 12V 50 lt/1' for multifunctional system
Dim. L 230 x H 170 x W 135 mm

AI.32922

Air compressor 24V 50 lt/1' for multifunctional system
Dim. L 230 x H 170 x W 135 mm

AI.32801

Air compressor 230V - 179 lt/1' - only for multifunctional system
Dim. L 310 x H 325 x W 205 mm



PNEUMATIC CONTROL BOARD

The pneumatic control board is designed for the mast extension and retraction and is required when you use the air from the vehicle's air system, a compressed air cylinder or a compressor without pressure control.



PC.33211

Pneumatic control block with pressure regulator

PC.33212

Pneumatic control block with pressure regulator and spring

PC.33213

Pneumatic control block with pressure regulator and spring only for extension

PC.33221

Pneumatic control block pressure regulator and dry filter

PC.33222

Pneumatic control block with pressure regulator, dry filter and spring

PC.33223

Pneumatic control block with dry filter and spring for extension only

ELECTRICAL SPIRALED CABLES

FIRECO has a wide range of electrical cables which can be mounted inside the telescopic masts. The spiraled cables provide power, video signals and data transmission to the devices mounted on top of the mast. This internal solution provides a much longer lifetime than the external cable solution and is much lighter.

Furthermore there is no need of additional labour and space otherwise needed for the external cable. The cables are specifically manufactured for the masts and have therefore special characteristics. In the range there are also several coaxial cables, fiber optics and a CAT 5/6 wires in order to mount cameras and other measurement equipment.

Code	Description mm
B	4 x 1,5
H	5x1 + 4x0,5
D	7 x 1,5
I	8x1 + 4x0,5
N2	5x2,5 + 6x0,6
P	5x1,3 + 13x0,5
V2	11x1,5 + 8x0,6
Z	9x1,5+13x0,22
I2	8x1 + 4x0,5 + 1 COAX 75 OHM + 2 COAX 50 OHM

Code	Description mm
ZXS	11x1,5 + (2x1,5SCH) + 7x0,6 + COAX 75 OHM +2 (RILS 6x4)
U2	9x0,5+7x1,3+(2x20 AWG)ST + (2x18 AWG)ST + 1 MICRO COAX 75 OHM
Z2	9x2,5 + 2x1 + 2x0,5 + 8x0,22
Z3	10x2,5 + 3x1 + 2x0,5 + (8x0,25)
L2	3 x CAT5E + 3 x 1,5 + 2 x 2,5 + 4 x 0,5
T	13x1,5+14x0,35
M	8x1,5 + 4x4x24 AWG + 1x2,5 + 8 COAX 75 OHM
U3	2 MICRO COAX 75 OHM +2 x F/UTP cat.5 + 6x18 AWG + 4 FIBER OPTICS 50/125
L4	7G1,5 + 3x2x0,75 + 7x0,34mm ² + (4x2x24AWG) SF/UTP Cat.6
US	1 Cat 5e + 1 75-OHM COAX + 8 18 AWG + 4 24 AWG + 1 50-OHM COAX

MOUNTING ACCESSORIES



ROUND ROOF BRACKET

BK.30007= for mast Ø 152 mm



SQUARE ROOF BRACKET

BK.30057= for mast Ø 152 mm
BK.30058= for mast Ø 200 mm
BK.30061= for mast Ø 250 mm



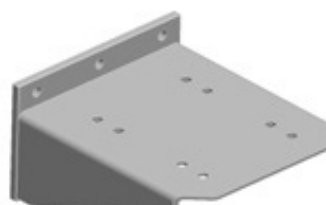
UPPER FIXING BRACKET

BK.30207= for mast Ø 152 mm
BK.30208= for mast Ø 200 mm



REINFORCED UPPER FIXING BRACKETS

for masts with extended height over 7m
BK.30207.R for mast Ø 152mm
BK.30208.R for mast Ø 200mm
BK.30211.R for mast Ø 250mm



LOWER FIXING BRACKET

BK.30107= for mast Ø 152 e Ø 200 mm
BK.30111= for mast Ø 250 mm



MULTIFUNCTIONAL KIT

The Fireco **multifunction kit** offers to the customers a mast with a complete and functional equipment. This kit meets the needs of the most demanding customers who wish to have all the functions of the telescopic mast in "one single package", allowing the control of all functions with a single system. The multifunction remote control, which communicates with the integrated electronic board, allows you to control all the functions of the unit through a simple and user-friendly interface. Thanks to the latest technologies in the automotive sector, simple and safe connections to the vehicle system have been designed using dustproof and watertight connectors, making things easier for body builders and after-sales service.

MULTIFUNCTION CONFIGURATION

1. TELESCOPIC MAST

The pneumatic telescopic mast is the backbone of the entire multifunctional kit. It can support the entire lighting system consisting of a Tilt & Turn unit and floodlights powered by plug'n play connectors. There are multiple mast models, divided into SMALL, MEDIUM and LARGE based on diameters and specific characteristics.



2. LAMP UNITS

In addition to the mast, the essential elements are the floodlights that can be mounted on a Tilt & Turn unit (T&T, Inside Focus or Illuminator) or directly on the 360° head. They are all equipped with LED components with great efficiency, low voltages, and reduced energy consumption with high light intensity.



3. TILT & TURN UNITS

Fireco Tilt & Turn units have become a standard in combination with Partner masts. The system is safe, reliable and easily manageable, and allows you to tilt and rotate the floodlights from 0 to 365°. The product is available in different versions, which can carry different payloads and can have simultaneous or independent tilting of the floodlights.



4. REMOTE CONTROL FOR ALL FUNCTIONS

The FIRECO multifunctional remote control permits you to control ALL the functions of the mast with just one remote control. The remote control is easy and safe to use, thanks to the automatic block of the keypad and easy to understand functions. The mast with the multifunctional remote control is supplied with an electronic board and an electrovalves group.

REMOTE CONTROLS FOR MASTS WITH TILT AND TURN



RC.31746

Multifunctional remote control for mast extension/retraction, tilt & turn of the floodlights, on/off switching of floodlights, automatic restore – ergonomic, with protection cover and 4 m spiralled cable.

Available also radio (RC.31747_1)



RC.31748

Multifunctional remote control for mast extension/retraction, turn & independent tilting of the floodlights, on/off switching of floodlights, automatic restore – ergonomic, with protection cover and 4 m spiralled cable.

Available also radio (RC.31749_1)



RC.31766

Multifunctional remote control for mast extension/retraction, tilt & turn of the floodlights, single on/off turning of four floodlights, automatic restore – ergonomic, with protection cover and 4 m spiralled cable.

Available also radio (RC.31767_1)



RC.31756_596

SMART Multifunctional remote control for mast extension/retraction, tilt & turn of the floodlights, on/off switching of floodlights, automatic restore – ergonomic, with protection cover and 4 m spiralled cable – USABLE WITH AND WITHOUT CABLE – switches automatically to the radio mode as soon as the cable is detached – with rechargeable batteries – back-lit keypad

Available also radio for 3 motors version (RC.31758_596)



REMOTE CONTROLS FOR MASTS WITHOUT TILT AND TURN



RC.31742

Multifunctional remote control for mast extension/retraction, single on/off switching of 4 floodlights, automatic restore – ergonomic, with protection cover and 4mt spiralled cable

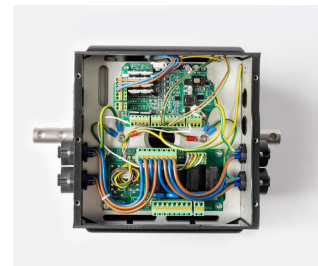
Available also radio (RC.31745_1)

5. ELECTRONIC BOARD

The multifunctional system is controlled by a double layer electronic board mounted inside the tilt & turn unit.

The main features

- Protection against external interferences
- Input Voltage Range - from 9 to 36 VDC
- Protection against higher voltage peaks
- Protection against short circuits on the tilt & turn motors
- Protection against short circuits on the electro-valves
- Storage of all vital data for operation into the microprocessor storage, like airplane black-boxes
- Warning LEDs on the remote control
- 2.4 GHZ radio module for quicker radio data transmission without interferences



6. MICRO - SWITCH

The function of the micro switch is to signal when the mast is extended. The customer can connect it to visual or audio signal inside the cabin, in order not to drive with a still extended mast. Furthermore the automatic restore function can also be connected to the hand brake system, so that by releasing the hand brake, the mast will return automatically to the “home” position.



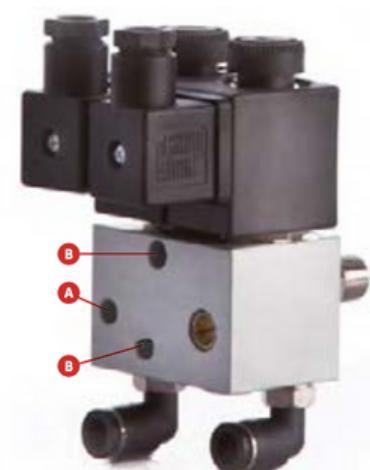
7. ELECTROVALVES GROUP

The solenoid valve unit is used to ensure the electronic extension and retraction of the mast. It is made of anodized Aluminum and it works from 12 V DC to 230 AC, so it is very adaptable. Furthermore it can be easily remoted to another position.

The solenoid valve unit can be placed in two different positions, depending on the costumers' needs: with the coils one opposite to the other or, for a more space-saving configuration, with the coils positioned parallel.

A) Extension Regulator

B) Fixing Screws M4/M5



8. CONNECTORS FOR FLOODLIGHTS

The floodlights are connected to the tilt & turn unit Spark by quick connectors, so that the connection (as well as replacement or removal for maintenance) of the floodlight will be quick and easy; furthermore, it is robust, safe and waterproof (IP67 rating)



9. AUTOMOTIVE CONNECTORS (optionals)

Automotive connectors allow for quick and safe installation.



GALLERY Heavy | Super Heavy | Giant



GALLERY Heavy | Super Heavy | Giant



GALLERY Heavy | Super Heavy | Giant





Credits

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