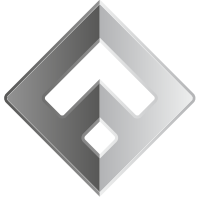


## TILT & TURN UNIT

Spark- Spark plus- Heavy





**FIRECO**

TILT & TURN UNIT

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## 01

### TILT & TURN UNIT

- *spark*
- *spark plus*
- *heavy*



# 01

## TILT & TURN UNIT

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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.



## TILT & TURN UNIT

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

## GALLERY Tilt & Turn Unit







## GALLERY Tilt & Turn Unit





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## Credits

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