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ICAO compliance Delivered instantly

ICAO compliance isn't just a nice to have – it's a must. Yet many airports don't comply. This is especially true for remote aprons.

When airports are being expanded or their aprons being reconfigured, the need to upgrade the floodlighting is either forgotten or ignored. This can leave the apron lighting no longer fit for the job and the operator exposed.

Working with of major airports around the globe, we've been the world leader in airport lighting and compliance since 2010. How? Simply because no other company has our depth of knowledge, experience and high-quality lighting systems.

Pioneers in our field, we've used our expertise and drawn on our worldwide experience to develop a unique solution specifically for airport aprons – the Mobile Tower. Already tried and tested in many international airports it delivers ICAO compliance faster than any other solution in the market.

The unique features of the Midstream Mobile Tower are based around our proprietary optics, delivering a highly asymmetric beam to reach the minimum lux requirements, even at the back of the aircraft stand.



Some airports using The Mobile Tower











Mobile Tower Series Overview

Compact and easy to transport and handle, the Mobile Tower features an adjustable 9-metre vertical, hydraulic mast.

This delivers an impressive average 20 Lux coverage over 3600m2 via four highly efficient, asymmetric 326W LED Titan floodlights and a 110-litre long-run fuel tank. These Titan floodlights are produced in stainless steel with two-stage high surge protection devices for added resilience.

A high-efficiency thermal management system also allows for operation in high-heat environments.

The Mobile Tower fulfils the exacting requirements of apron applications. It also allows for the commissioning of Code F and Code E aircraft stands in full compliance with ICAO and EASA requirements.

The unique features of the Mobile Tower are based around our sophisticated proprietary optics. This means it can deliver a highly asymmetric beam to reach the minimum lux requirements, even at the back of the aircraft stand. And, thanks to its unique optics, it means you can say goodbye to the high levels of glare found with traditional generator lights.

Our Mobile Tower also comes complete with official ICAO compliant lighting design. This can be submitted as a part of the certification documentation.





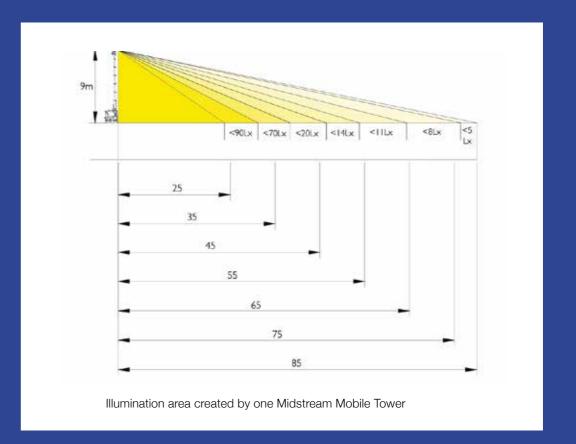
The Midstream Mobile Tower features a 9 metre vertical, hydraulic mast, delivering an impressive average 20 Lux coverage over 3600 m2. Fitted with 4 x 326W LED asymmetric floodlights and a 110-litre long-run fuel tank, this system allows for commissioning of Code F and Code E aircraft stands in full compliance with ICAO requirements (see below).

Thanks to the floodlights' unique optics, the Mobile Tower can achieve these light levels and at the same time provide reduced glare to oncoming operators, whether these are pilots, train drivers, motorists, machine operators or the passing public.

The Titan series LED floodlights are produced in stainless steel with two-stage high surge protection devices and are already in use in major international airports, busy container ports, railways, highways and various military and security locations on all continents.

A high-efficiency thermal management system allows for operation in high-heat environments.

Compact and easy to transport and handle, the Midstream Mobile Tower is designed for heavy-duty mission-critical application where quality and reliability are paramount.



The Mobile Tower

Specifications

Multi-directionally adjustable, mobile floodlight tower with 4 highly efficient, asymmetric 326W LED floodlights, designed specifically for large area lighting with low glare conditions.

Luminaire

Midstream Titan 320 LED Floodlight x 4

Tower

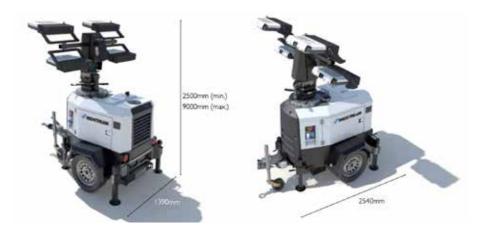
7-section hydraulic vertical tower, up to 9m height, 340° rotatable. Galvanized metalwork with 80 µm powder coating. Guided main coiled cable to avoid damage during tower operation. Certified wind stability up to 110 km/h.

Technical specs

DIMENSIONS MIN. 2320 x 1380 x 2420 mm DIMENSIONS MAX. 2320 x 1550 x 9000 mm TOTAL WEIGHT WITHOUT FUEL 960 kg **ROTATION** 340° ILLUMINATED AREA 4800 m² 4 x 326W LED **FLOODLIGHTS** ENGINE MODEL Kubota Z482 FUEL Diesel 1500 0.55 CONSUMPTION (L/H) 110 TANK CAPACITY (L) 200 **RUNTIME BEFORE REFUELLING (H)** NOISE LEVEL AT 7M (DB) ALTERNATOR MODEL Synchronous FREQUENCY (HZ) INSULATION CLASS DEGREE OF PROTECTION 3.5 kVA - 48V SINGLE PHASE VOLTAGE **AUXILIARY OUTLETS** 1kVA



Dimensions



Product series

The Midstream Mobile Tower is available in a number of other versions and configurations and can be customised according to meet any needs.



Plug-in power

M-Mast unit is operated through a 230V power line for locations where electricity is readily available, but infrastructure works or liquid fuels are inappropriate or prohibited. Zero noise emissions. Low maintenance.



Hybrid power

M-Hybrid unit is operated with a series of rechargeable batteries together with a diesel motor to reduce fuel usage, CO2 emissions, and noise levels. Also available as an M-Hybrid Mobile version.



Military power

Military applications may require some bespoke features and colours. Our products are customisable and can be tailored to individual use. Robust design to survive harsh conditions.

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Applications

- Remote aprons
- VIP Aprons
- Runway resurfacing
- Airport road network
- Parking areas
- Special events
- Temporary Aprons
- Emergency response
- Law enforcement use
- Construction projects
- Fuel farms
- Military applications
- Security checkpoints
- OLS Restricted aprons
- Supplementary illumination

Key Features

- Automatic Mast Operating Safety System
- Light sensor for automatic start
- Longitudinal and transversal forklift pockets
- Optional socket to power lights from mains supply
- IP67 certified
- European manufacturing
- Up to 200 hours running time
- Tower 340° rotatable
- Certified wind stability up to 110 km/h
- Stabilizers adjustable in height
- Central lifting hook
- Remote operation available
- Complies with ICAO Annex 14 requirements
- Asymmetric floodlights for low glare operation



ICAO compliance

The detail

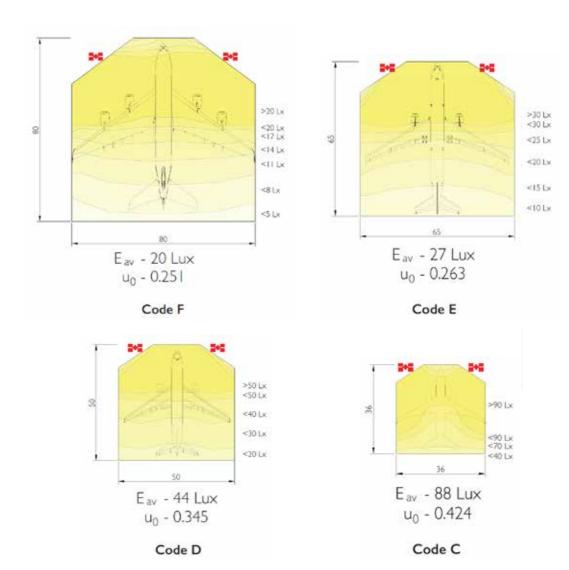
The Midstream Mobile Tower is a unique system that allows airside operators to commission an aircraft stand in full compliance with ICAO requirements (see below).

Proprietary high-asymmetry optics throw the light to the back of a stand without tilting and emitting light into the sky. Low tilt operation significantly reduces glare to pilots and ground staff.

Remote control, timer, or photo-cell operation allows for autonomy even on remote aprons.

Main application areas are low usage stands, remote aprons, stand reconfiguration, and temporary or no-power network locations.

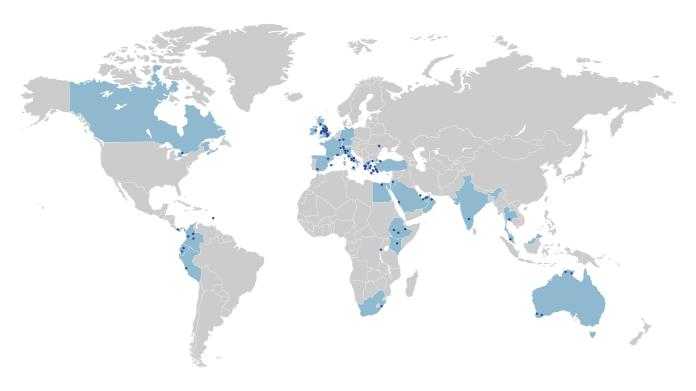
Two masts used in tandem can commission up to a Code F stand to Annex 14 requirements.



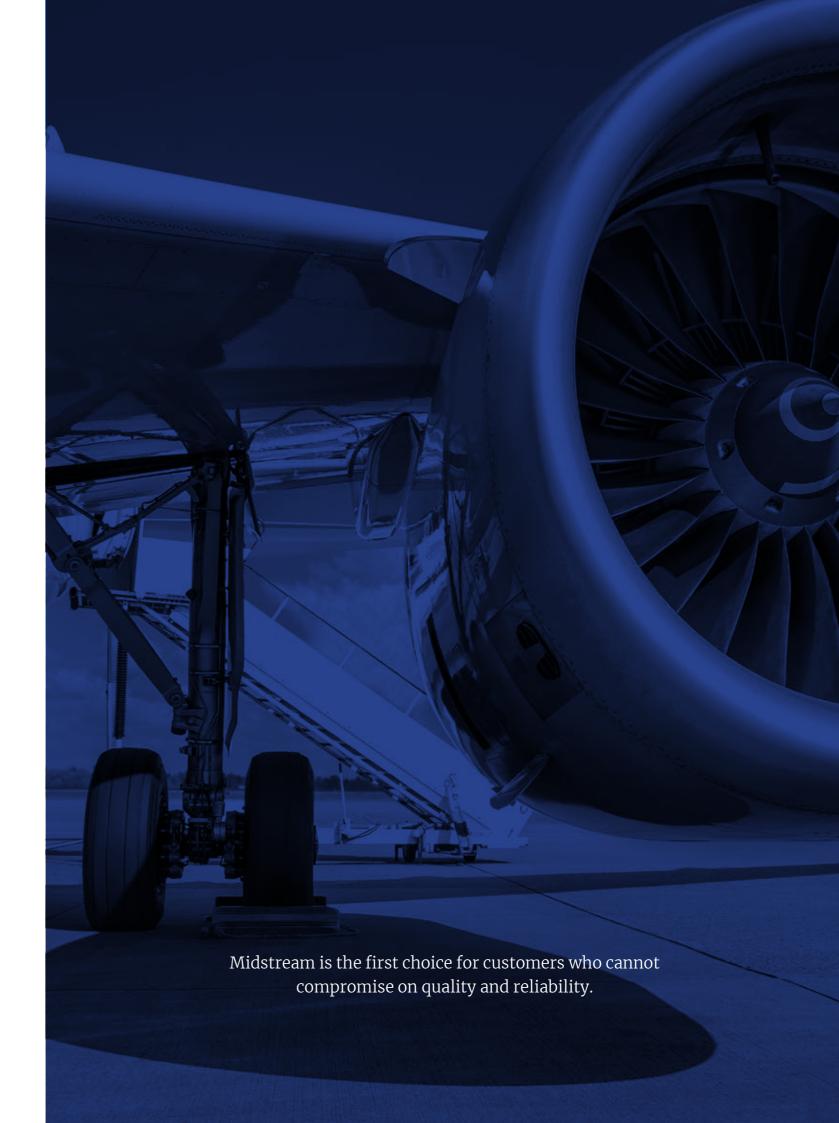
Experience matters

For over the last decade, we've transformed the design and manufacture of airport lighting systems. This has helped us to become the industry's key global player.

From major hubs like London Gatwick, Frankfurt, and Dubai International airports to regional airports such as London City and Queen Alia to highly sensitive military sites – we've delivered time after time.



ITA	Abruzzo Airport	UK	Doncaster Airport	UK	London Gatwick Airport	HKJ	Queen Alia Int'l Airport
UAE	Abu Dhabi Royal Flight	UAE	Dubai Airport	UK	London Gatwick Fuel Farm	COL	Quibdo Airport
ETH	Aéroport de Hawassa	IRE	Dublin Airport	UK	London Luton Airport	ECU	Quito International
ETH	Aéroport de Jijiga	ZAF	Durban Airport	CHE	Lugano Airport	UK	RAF Base
ETH	Aéroport de Jimma	DEU	Frankfurt Airport	LUX	Luxembourg Airport	GRC	Rhodes Airport
QAT	Airforce Base, Qatar	CHE	Geneva Airport	UK	Manchester Airport	ITA	Rome Ciampino Airport
GRC	Aktion National Airport	ITA	Genova Airport	FRA	Marseille Provence Airport	ITA	Rome Fiumicino Airport
AUS	Albany Airport	UK	Glasgow Airport	ITA	Milan Linate	THA	Royal Thai Airways
GRC	Athens Airport	AUS	Gove Airport	UK	MOD Airforce Base	TUR	Sabiha Gokcen Istanbul
UK	BAE Warton Aerodrome	ECU	Guayaquil Airport	OMN	Muscat Airpot	GRC	Samos Airport
IND	Bangalore Airport	ESP	Ibiza Airport	GRC	Mykonos Airport	GRC	Santorini Airport
UK	Birmingham Int'l Airport	CRI	Juan Santamaría Airport	VCT	Mystique Airport	ESP	Seville Airport
COL	Bogota El Dorado Airport	RWA	Kambebe Airport	GRC	Mytilene Airport	UAE	Shaja International Airport
EGY	Borg El Airport	GRC	Kavala Airport	KEN	Nairobi Airport	GRC	Skiathos Airport
COL	Bucaramanga Airport	SAU	King Abdulazziz Airport	ITA	Napoli Airport	GRC	Thessaloniki Airport
AUS	Busselton Airport	GRC	Kos Island Airport	UK	Newcastle Airport	CAN	Toronto Airport
GRC	Cephalonia Airport	MYS	Kuala Lumpur Int'l Airport	ITA	Orio al Serio Airport	GRC	Zakynthos Airport
GRC	Chania Airport	UK	Leeds Bradford Airport	ITA	Palermo Airport	ESP	Zaragozza Airport
GRC	Chisinau Airport	PER	Lima Airport Partners	ITA	Pescara Airport	CHE	Zurich Airport
GRC	Corfu Airport	UK	Liverpool John Lennon Airport	ITA	Pisa Airport		
AUS	Darwin Airport	UK	London City Airport	ITA	Porto Airport		





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