ROBE lighting s .r. o., Hazovice 2090
75661 Roznov pod Radhostem
Czech Republic

Tel: +420-571-751500
Fax: +420-571-751515
Email: info@robe.cz

# BMFL™ Spot

The BMFL™ – Bright Multi-Functional Luminaire – much anticipated new lighting fixture from Robe, brings a real game changer in the world of moving lights.

**Light source**
1700 W OSRAM Lok-it! HTI 1700/PS

**Light output**
40.000 lm, 250.000 lx @ 5 m, 2.500 lx @ 50 m

**Zoom range**
5° - 55°

**Effects**
2x gobo wheel, dual graphic wheel, circular and linear prism

The BMFL Spot™ has a custom light source designed for Robe and produces a staggering powerful 250 000 lux at 5 metres – no other product currently on the market can equal this output! Despite its power and comprehensive feature set, it weighs just 36 Kgs… and has a compact body profile.

The lamp produces light at a CRI of 92+, this combined with a refined optical system, 5–55 degree zoom, results in a crisp, high quality fat beam that is truly homogenised and without a hotspot. There are also two colour wheels which include filters that can be utilised to adjust colour temperature and improve the CRI of the white output in aging lamps. There are two rotating gobo wheels – each with six slot&lock gobo positions. There are also two Rotating Prisms. The Dual Graphic Wheels both focus within the same focal plane and the rotation and movement can be individually controlled and varied… to create ultra-cool, infinitely subtle special effects. The frost and dimming functions provide further effects.

Three grades of Frost are available and the dimmer is exceptionally smooth with no distortion, so the full beam width is visible right up to the point at which it disappears. The strobe effect is authentic with up to 10 flashes per second!

Aimed at long-throw applications, the newly patented Robe EMS™ (Electronic Motion Stabiliser) technology, enables the BMFL™ to absorb vibrations from audio outputs, truss movement, sprung or suspended floors, etc. The BMFL™ is a very powerful, feature packed luminaire that will provide a real signature light source for any project.

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# Technical Specification

## Source

- Lamp: Compact short-arc metal halide lamp
- Base: PGJX28
- Approved model: OSRAM Lok-it! HTI 1700/PS
- Lifetime: 750 hours @ 1700 W / 1500 W / Quiet mode
- CRI: 92+
- Colour Temperature: 6.000 K
- Control: Automatic and remote on/off
- Ballast: Electronic

## Optical system

- Robe's proprietary optical design
- High - efficiency zoom optical system, ratio 11:1
- Zoom range: 5°–55°
- Output Lens diameter: 160 mm
- Dichroic glass reflector for maximising the light efficiency
- Fixture total lumen output:
  - 40.000 lm @ 1700 W
  - 36.500 lm @ 1500 W
  - 32.000 lm @ 1200 W (Quiet mode)
- Illuminance: 250.000 lx @ 5 m

## Dynamic Effects and Features

- Cyan: 0 – 100 %
- Magenta: 0 – 100 %
- Yellow: 0 – 100 %
- Variable CTO: 2.700 – 6.000 K
- Colour wheel 1 with 6 fixed dichroic colours: deep red, deep blue, orange, green, magenta, congo blue + white
- Colour wheel 2 with 6 replaceable "SLOT&LOCK" dichroic colours: pink, lavender, laser green, 9000 K CTB, minus half and minus green + white
- Rotating Gobo wheel 1:6 rotating, indexable, replaceable "SLOT&LOCK" glass gobos + open
- Rotating Gobo wheel 2:6 rotating, indexable, replaceable "SLOT&LOCK" glass gobos + open
- Dual Graphic Wheel with two animation discs, individual control of rotation of each disc
- Prism 1: 6 facet linear
- Prism 2: 6 facet circular

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- Iris: Motorized, stepless, pulse effects up to 3 Hz

- Frost: variable Light, Medium and Heavy Frosts

- Motorized zoom and focus

- Shutter: Separate dual blade system, Variable strobe effect up to 10 Hz, full black out

- Dimmer: Optimized dual blade system for exceptional smooth dimming

## Control and programming

- Setting & Addressing: ROBE Navigation System 2 (RNS2)

- Display: QVGA Robe touch screen with battery backup, gravitation sensor for auto screen positioning, operation memory service log with RTC, stand-alone operation with 3 editable programs (each up to 100 steps), built-in analyser for easy fault finding

- Protocols: USITT DMX-512, RDM, ArtNet, MA Net, MA Net2, sACN

- REAP™ - Robe Ethernet Access Portal

- Wireless CRMX™ technology from Lumen Radio

- DMX Protocol modes: 2

- Control channels: 41, 33

- Pan/Tilt resolution: 16 bit

- CMY & CTO: 8 bit

- Colour wheel positioning: 8 or 16 bit

- Rotating Gobo Wheel positioning: 8 or 16 bit

- Gobo indexing & rotation: 8 or 16 bit

- Dual Graphic Wheel: 8 bit

- Iris: 8 or 16 bit

- Frost: 8 bit

- Zoom: 8 or 16 bit

- Focus: 8 or 16 bit

- Dimmer: 8 or 16 bit

## Movement

- Pan movement: 540°

- Tilt movement: 270°

- Movement control: Standard and Speed

- Controllable speed of Pan/Tilt movement

- EMS™: Electronic Motion Stabilizer system for Pan & Tilt reducing beam deviation caused by truss movement or vibration (Patented)

- Automatic Pan/Tilt position correction

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## Rotating gobos

- 12x fully rotating, indexable glass gobos on two wheels
- Outside diameter: 30.8 mm
- Image diameter: 25.0 mm
- Thickness: 1.1 mm
- Max. thickness: 3.5 mm
- High temperature borofloat or better glass

## Effect wheel

- Dual Graphic Wheel
- Material: Aluminium
- Diameter: 96 mm
- Can be used alone or in combination with rotating gobos
- Rotating in both directions at variable speed

## Thermal specification

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 100 °C (212 °F)
- Minimum operating temperature: -5°C (23°F)
- Total heat dissipation: max. 5800 BTU/h (calculated)

## Electrical specification and connections

- Power supply: Electronic auto-ranging
- Input voltage range: 200–240 V, 50/60 Hz
- Power consumption: 2000 W at 230 V / 50 Hz
- Power in connector: Neutrik powerCON
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in: RJ45

## Approvals

- CE Compliant
- cETLus Compliant

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# Mechanical specification

- Height: 813 mm (32") – head in vertical position
- Width: 483 mm (19")
- Depth: 335 mm (13.2")
- Weight: 36 kg (79.4 lbs)
- Ingress protection rating: IP20

# Rigging

- Mounting positions: 0°, 32° and 90°
- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locking points
- 2x Omega adaptors with 1/4-turn quick locks
- Safety cable attachment point
- Pan and Tilt transport locks

# Included items

- User Manual
- Omega Adaptor CL-regular 2 pcs
- Power cord including powerCON In connector

# Optional accessories

- Lamp Osram Lok-it HTI 1700/PS: 14080049
- BMFL Handles - 2 pcs in box: 10980233
- BMFL Side Handle: 10980396
- Doughty Trigger Clamp: 17030386
- Frost 0.5° (exchange) assembled: 10980594
- Frost 1° (exchange) assembled: 10980296
- Frost 5° (exchange) assembled: 10980595
- Frost 10° (exchange) assembled: 10980596
- Frost 20° (exchange) assembled: 10980597
- Frost 30° (exchange) assembled: 10980598
- Safety wire 50 kg: 99011957
- Single Top Loader Case: 10120163-02
- Dual Top Loader Case: 10120164-02
- Foam Shell: 20020218-01

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## Legal

- BMFL™ is a trademark of Robe lighting s.r.o.

- BMFL™ Spot is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patent

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# Gobos&Colours

## Rotating Gobo Wheel 1

| 15020290 | 15020291 | 15020292 | 15020293 | 15020294 | 15020295 |

## Rotating Gobo Wheel 2
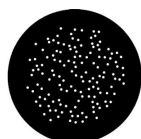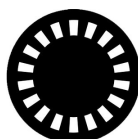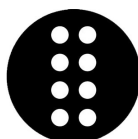
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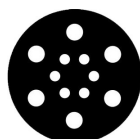
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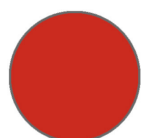
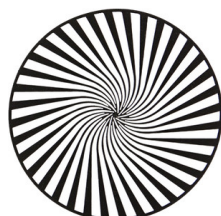| 14070411 | 14070393 | 14070394 | 14070395 | 14070396 | 14070397 |
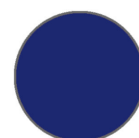
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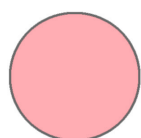
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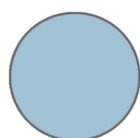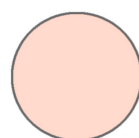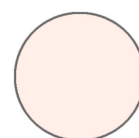
## Animation Wheels

| 11020171 | 11020172 |