

# BMFL™ Blade

Four fast shutter blades with smooth and precise movement in the new BMFL Blade lighting fixture. Individually angled and positioned within a frame - which itself can rotate through 90 degrees, providing a sharp or soft, precisely repeatable, frame for the projected image.

**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**

rotating and static gobo wheel, circular and linear prism, framing shutters, animation wheel



Producing a new series of fast-moving in-air effects through pre-programmed shape and movement sequences of the blades, gobo images can be trimmed or framed in a regular, triangular or trapezoid shape. Each pair of opposing blades can close to a complete blackout. Two gobo wheels - one rotating with six slot&lock gobo positions plus another with 8 static gobos can be combined with the Animation wheel to create numerous dynamic projected effects.

Add all this to the already acclaimed BMFL features including: exceptionally smooth linear dimming, Imperceptible high definition colour mixing, full width beam, Output in excess of 250,000 lux at 5 metres - and the Robe EMS™ (Electronic Motion Stabiliser) technology, enabling the BMFL™ to both move and stop faster and more precisely than any other fixture in its class - all this housed in a compact body profile weighing just 37,9 Kgs.

# 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
- High efficient component optics
- Fixture total lumen output:
  - 40.000 lm @ 1700 W
  - 36.500 lm @ 1500 W
  - 32.000 lm @ 1200 W (Quiet mode)
- Light output: 250.000 lx @ 5 m, 2.500 lx @ 50 m

## Dynamic Effects and Features

- Cyan: 0-100 %
- Magenta: 0-100 %
- Yellow: 0-100 %
- Variable CTO: 2.700 - 6.000 K
- Colour Wheel 1: 6 fixed dichroic colours: deep red, deep blue, orange, green, magenta, congo blue + white
- Colour Wheel 2: 6 replaceable "SLOT&LOCK" dichroic colours: pink, lavender, laser green, 9000 K CTB, minus half and minus green + white
- Framing shutters: 4 individually positionable blades plus rotation of the complete frame system +-45°
- Rotating Gobo wheel: 6 rotating, indexable, replaceable "SLOT&LOCK" glass gobos + open
- Static Gobo wheel: 8 static, replaceable "SLOT&LOCK" glass gobos + open

- Animation wheel: Aluminium animation wheel, used alone or in combination with gobos, rotating in both directions at variable speed
- Prism 1: 6 facet linear
- Prism 2: 6 facet circular
- 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<sup>™</sup> - Robe Ethernet Access Portal
- Wireless CRMX<sup>™</sup> technology from Lumen Radio: On request
- DMX Protocol modes: 2
- Control channels: 49, 42
- Pan/Tilt resolution: 16 bit
- CMY & CTO: 8 bit
- Colour wheel positioning: 8 or 16 bit
- Framing shutters module movement & rotation: 8 bit
- Rotating gobo wheel positioning: 8 bit
- Gobo indexing & rotation: 8 or 16 bit
- Static gobo wheel positioning: 8 bit
- Animation wheel: 8 bit
- Animation wheel rotation: 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 (Patent pending)
- Automatic Pan/Tilt position correction

### **Rotating gobos**

- 6x rotating glass gobos
- 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

### **Static gobos**

- 8x static glass gobos
- 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**

- Single animation wheel
- Material: Aluminium
- Diameter: 109 mm
- Can be used alone or in combination with rotating gobos
- Rotating in both directions, variable speed

### **Framing shutters system**

- Blade: 4 Blades, each with separate movement and rotation control
- Movement: Smooth with variable speed, ultrafast blade movements for creating mid-air effects
- Pre-programmed: Shape and blade sequences
- Rotation: 90° of the complete framing system

### **Thermal specification**

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 170 °C (338 °F)
- Minimum operating temperature: -5°C (23°F)

## 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
- Data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in: RJ45

## Approvals

- CE Compliant
- cETLus Compliant

## Mechanical specification

- Height: 813 mm (32")
- Width: 483 mm (19")
- Depth: 335 mm (13.2")
- Weight: 37.9 kg (83.6 lbs)
- Ingress protection rating: IP20

## Rigging

- Mounting positions: 0°, 32°, 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: 10980233
- BMFL Side Handle: 10980396

- Doughty Trigger Clamp: 17030386
- Frost 1° (exchange) assembled: 10980296
- Safety wire 50 kg: 99011957
- Single Top Loader Case: 10120163-02
- Dual Top Loader Case: 10120164-02
- Foam Shell: 20020218-01

## Legal

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

# Gobos&Colours

## Rotating Gobo Wheel



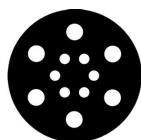
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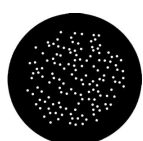


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## Static Gobo Wheel



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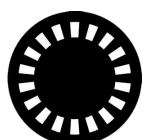
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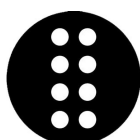
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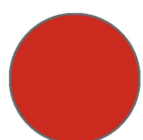


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## Colour Wheel 1



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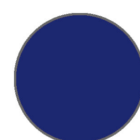
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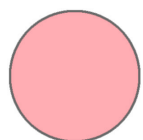


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## Colour Wheel 2



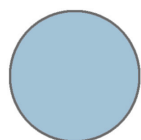
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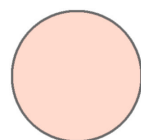
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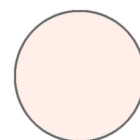
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## Animation Wheel



