

**Operating
theatre lights**
Brandon Medical



Operating theatre lights

Auxilab lamps are produced by Brandon Medical, a leading British company in the design and manufacture of medical and surgical lighting solutions.

For its engineering and manufacturing expertise and experience, Brandon Medical has received the following awards and accolades in recent years



Building Better Healthcare Awards 2021 Winner
Best Interior Product - Innovation



Make UK - Manufacturing Awards 2021
North East, Yorkshire and Humber
Innovation Award Shortlist



Make UK - Manufacturing Awards 2020
North East, Yorkshire and Humber
Innovation Award WINNER



Make UK - Manufacturing Awards 2020
North East, Yorkshire and Humber
SME of the year Runner UP



Northern Powerhouse Export Awards 2020
Emerging Markets Exporter of the Year



The Queen's Awards For Enterprise
International Trade 2018



Northern Export Market Export of the Year Award



Sunday Times Awarded SME Export Track 100



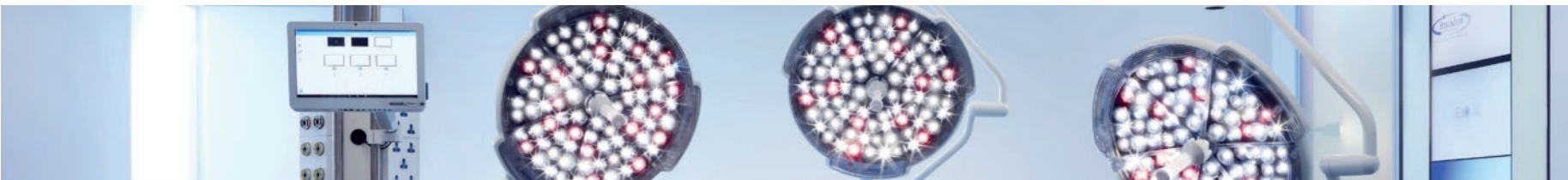
Board of Trade Award For Exceptional Innovation



Medilink Export Achievement Award

General characteristics

| | |
|------------------------------|---|
| 1. Illuminated area | Our lamps provide a uniform light beam whose width can be adjusted according to the type of surgery, up to 420 mm for single head models (Qe60). |
| 2. Power | The maximum central illumination (CE) of surgical lamps according to standards must be 40,000 and 160,000 lx at the centre of the light beam, measured at 1m from the light source, which is why we offer a wide range of wattages: Quasar (160k), Astramax (150k), Astralite (100k and 70k). |
| 3. Shade control | By distributing the LEDs over the entire length of the lamp, we achieve effective control of shadows caused by obstructions in the light path. |
| 4. Lifetime | Brandon Medical LEDs have an estimated life of 60,000 hours compared to 1,000 hours for traditional halogen lamps, virtually eliminating the need for replacement. |
| 5. Colour temperature | Allows for natural colour reproduction, the best possible visualisation of red (R9) and differentiation between tissues of similar colours, adjustable to each surgeon's vision. |
| 6. Fat Beam technology | The generation of wide light beams allows uniform illumination of wide fields, making patient and lamp positioning more flexible. |
| 7. Heat management | Our lamps minimise the heat generated by the beam energy, as well as the heat generated in the lamp head itself, in order to avoid desiccation of the patient's tissues and discomfort for the surgeon, even with prolonged use. |
| 8. Type of mounting | Depending on the characteristics of the operating theatre and the surgeon's preferences, ceiling, wall and mobile mounting are available. |
| 9. Certificación ISO | The production of the lamps is certified according to BS EN ISO 13485:2016 and ISO 9001:2015 quality standards. They also comply with IEC 60601-1, IEC 60601-1-2 and IEC 60601-2-41. |
| 10. Antimicrobial protection | The Biomaster additive, containing silver ions with antimicrobial properties, is incorporated into the materials used in the manufacture of the lamps. |



assembly

how to choose the right one?

| Wall | Rolling foot | Ceiling | Double-headed ceiling |
|---|---|--|---|
| <ul style="list-style-type: none"> • Solid wall (not plasterboard) • Need for wall reinforcement if the wall is not solid enough | <ul style="list-style-type: none"> • Practically no requirements | <ul style="list-style-type: none"> • Solid ceiling of a given height range. • Need for additional ad hoc supports in case of hollow ceilings or ceilings of excessive height. • Not suitable for very low ceilings • Cut to size according to ceiling height | <ul style="list-style-type: none"> • Solid ceiling of a given height range. • Need for additional ad hoc supports in case of hollow or over-height ceilings. • Not suitable for low ceilings • Cut to size depending on ceiling height. |
| <ul style="list-style-type: none"> • Simpler and more flexible installation • Can be plugged into the mains • Frees up floor space | <ul style="list-style-type: none"> • No installation • Free mobility • Mains pluggable | <ul style="list-style-type: none"> • Larger pivot radius arm • Frees up floor and wall space | <ul style="list-style-type: none"> • Larger pivot radius arms • Frees up floor and wall space |
| <ul style="list-style-type: none"> • Medium and small rooms • Rooms with unsuitable ceilings | <ul style="list-style-type: none"> • Spacious rooms • Mobile use within the centre for different rooms • Unsuitable ceilings and walls | <ul style="list-style-type: none"> • Large and medium-sized rooms • Spaces cluttered with wall and floor equipment. | <ul style="list-style-type: none"> • Large and very large rooms • Spaces cluttered with wall and floor equipment • Major surgery where larger field diameter and volume of three-dimensional light is required |



Quasar lamps
BWL008
technical
specifications



| | |
|--|---------------------------|
| Reference | BWL008 |
| Central illumination intensity at 1 m | 160.000 lux |
| Adjustable size of the illuminated field d10 | 200-420 mm |
| Working distance from head | 600-1.400 mm |
| Colour temperature | 3.100-5.000°K |
| Number and type of lights per lamp | 90 HD-LED |
| LED lifetime | >60.000 hours |
| Increased temperature at the surgeon's level | Insignificant |
| Dimming range | 5-100% |
| Lamp head diameter | 685 mm |
| Autoclavable handle | Yes |
| Power supply | 24V DC |
| Video camera | Integrated (optional) |
| Indicated for | Major and general surgery |

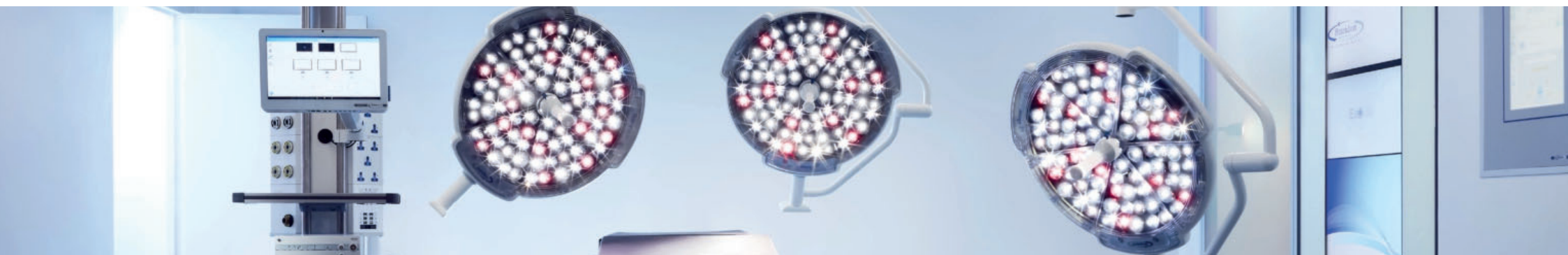
Quasar lamp
BWL014
**technical
specifications**



| | |
|--|---------------------------|
| Reference | BWL014 |
| Central illumination intensity at 1 m | 160.000 lux |
| Adjustable size of the illuminated field d10 | 150-320 mm |
| Working distance from head | 600-1.400 mm |
| Colour temperature | 3.100-5.000°K |
| Number and type of lights per lamp | 39 HD-LED |
| LED lifetime | >60.000 hours |
| Increased temperature at the surgeon's level | Insignificant |
| Dimming range | 5-100% |
| Lamp head diameter | 480 mm |
| Autoclavable handle | Yes |
| Power supply | 24V DC |
| Video camera | Integrated (optional) |
| Indicated for | Major and general surgery |

Quasar lamps models & combinations

| Model | Principal head | Satellite head | Camera |
|--------|----------------|--------------------|-----------------|
| BWL014 | BWL014 single | - | - |
| BWL015 | BWL014 | + BWL020 satellite | - |
| BWL016 | BWL014 | + BWL014 satellite | - |
| BWL017 | BWL014 single | | + Camera HD-SDI |
| BWL018 | BWL014 | + BWL020 satellite | + Camera HD-SDI |
| BWL019 | BWL014 | + BWL014 satellite | + Camera HD-SDI |
| BWL008 | BWL008 single | - | - |
| BWL009 | BWL008 | + BWL014 satellite | - |
| BWL010 | BWL008 | + BWL008 satellite | - |
| BWL011 | BWL008 | + BWL014 satellite | + Camera HD-SDI |
| BWL012 | BWL008 | + BWL008 satellite | + Camera HD-SDI |
| BWL013 | BWL008 single | - | + Camera HD-SDI |



Astramax lamps
common
specifications
for the whole
range

| | |
|--|---------------------------|
| Central illumination intensity at 1 m | 150.000 lux |
| Adjustable size of the illuminated field d10 | 150-320 mm |
| Working distance from head | 600-1.400 mm |
| Colour temperature | 3.100-5.000°K |
| Number and type of lights per lamp | 39 HD-LED |
| LED lifetime | >60.000 hours |
| Increased temperature at the surgeon's level | Insignificant |
| Dimming range | 5-100% |
| Lamp head diameter | 480 mm |
| Autoclavable handle | Yes |
| Power supply | 24V DC |
| Indicated for | Major and general surgery |



**Astramax lamps
BWL003
technical
specifications**



| | |
|---|---------------------|
| Reference | BWL003 |
| Assembly | Ceiling |
| Intensity | 150k |
| Weight | aprox 20kg |
| Rotation of the horizontal arm about the central axis | 360° |
| Rotation of the spring arm on the horizontal arm | 360° |
| Spring arm vertical travel up/down | 45°± 5° / 45°± 5° |
| Length of horizontal arm | 800 mm |
| Length of spring arm | 750 mm |
| Total reach / radius of the arms (excluding head) | 1.550 mm |
| Height of the ceiling bracket | 2.540 mm – 3.330 mm |

**Astramax lamps
BWL002
technical
specifications**



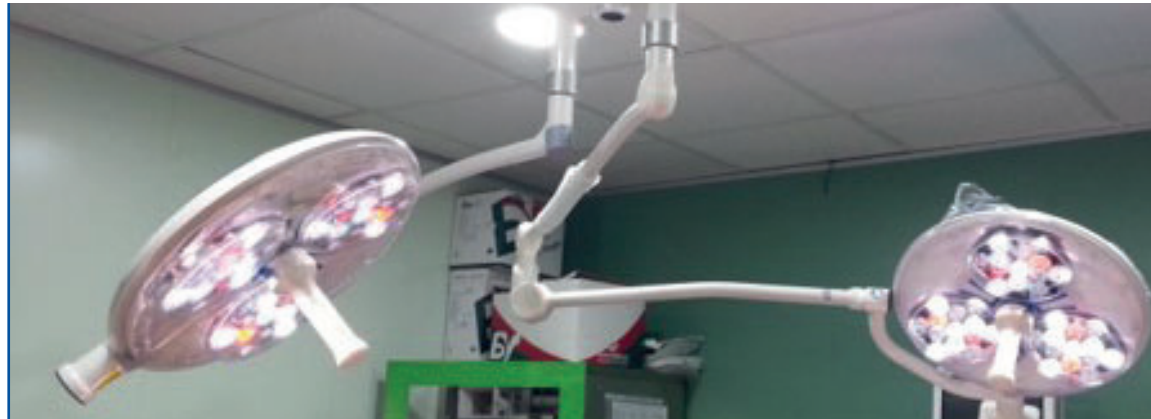
| | |
|---|-------------------|
| Reference | BWL002 |
| Assembly | Wall |
| Intensity | 150k |
| Weight | aprox 20kg |
| Rotation of the horizontal arm about the central axis | 180° |
| Rotation of the spring arm on the horizontal arm | 360° |
| Spring arm vertical travel up/down | 45°± 5° / 45°± 5° |
| Length of horizontal arm | 800 mm |
| Length of spring arm | 750 mm |
| Total reach / radius of the arms (excluding head) | 1.550 mm |
| Height of the ceiling bracket | 2.350 mm |

Astramax lamps
BWL001
**technical
specifications**



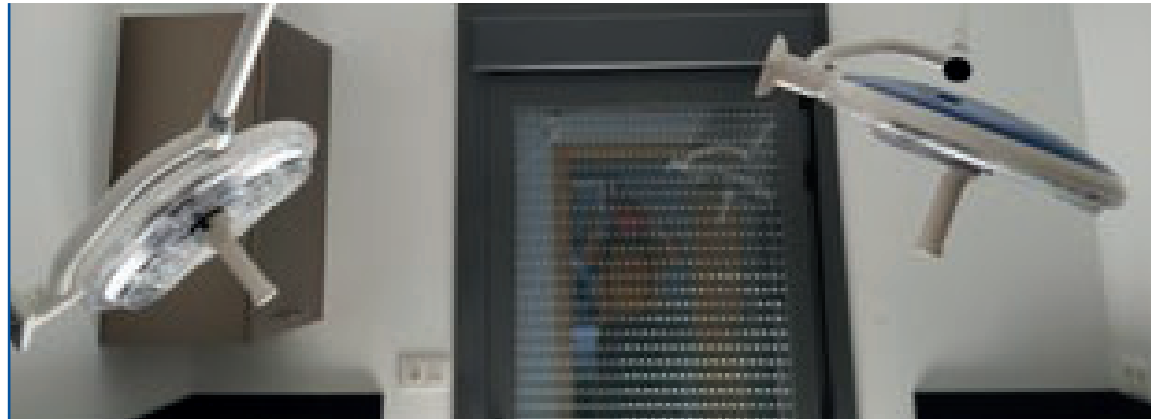
| | |
|--|---------------------|
| Reference | BWL001 |
| Assembly | Rolling foot |
| Intensity | 150k |
| Weight | 18kg |
| Rotation of the spring arm on both sides of the centre column axis | 30° |
| Spring arm vertical travel up/down | 45° ± 5° / 45° ± 5° |
| Length of horizontal arm | 800 mm |
| Length of spring arm | 750 mm |
| Total reach / radius of spring arms | 720 mm |

Astramax lamps
BWL005
**technical
specifications**



| | |
|---|----------------------|
| Reference | BWL005 - Double head |
| Assembly | Ceiling |
| Intensity | 150k+150k |
| Weight | aprox 32kg |
| Rotation of the horizontal arm about the central axis | 360° / 300° |
| Rotation of the spring arm on the horizontal arm | 360° / 360° |
| Spring arm vertical travel up/down | 45°± 5° / 45°± 5° |
| Length of horizontal arm | 900 mm |
| Length of spring arm | 750 mm |
| Total reach / radius of the arms (excluding head) | 1.650 mm |
| Height of the ceiling bracket | 2.730 mm - 3.520 mm |

**Astramax lamps
BWLO06
technical
specifications**



| | |
|---|----------------------|
| Reference | BWLO06 - Double head |
| Assembly | Ceiling |
| Intensity | 150k+150k |
| Weight | 58kg |
| Rotation of the horizontal arm about the central axis | 360° / 360° |
| Rotation of the spring arm on the horizontal arm | 360° / 360° |
| Spring arm vertical travel up/down | 45°± 5° / 45°± 5° |
| Length of horizontal arm | 950 / 800 mm |
| Length of spring arm | 550 mm |
| Total reach / radius of spring arms | 1.500 / 1.350 mm |
| Height of the ceiling bracket | 2.500 mm - 3.420 mm |

Astramax lamps
BWL007
**technical
specifications**



| | |
|---|----------------------|
| Reference | BWL007 - Double head |
| Assembly | Ceiling |
| Intensity | 150k+100k |
| Weight | 30kg |
| Rotation of the horizontal arm about the central axis | 360° / 300° |
| Rotation of the spring arm on the horizontal arm | 360° / 360° |
| Spring arm vertical travel up/down | 45°± 5° / 45°± 5° |
| Length of horizontal arm | 900 mm |
| Length of spring arm | 750 mm |
| Total reach / radius of the arms (excluding head) | 1.650 mm |
| Height of the ceiling bracket | 2.730 mm - 3.520 mm |

Astralite lamps
common specifications for the whole range

| | |
|--|-------------------------------|
| Central illumination intensity at 1 m | 100.000 lux |
| Adjustable size of the illuminated field d10 | 180 mm |
| Working distance from head | 700-1.400 mm |
| Colour temperature | 3.500-5.000°K |
| Number and type of lights per lamp | 39 HD-LED |
| LED lifetime | >50.000 hours |
| Increased temperature at the surgeon's level | Insignificant |
| Dimming range | 5-100% |
| Assemblies disponibles | Ceiling , Wall , Rolling foot |
| Available head models | Single and double |
| Autoclavable handle | Yes |
| Transverse / longitudinal spindle rotation | 360° / 290° |
| Indicated for | Minor surgery and examination |

