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1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Brennenstuhl CL 1050 MA Rechargeable Adjustable LED Clamp Light. Please read these instructions carefully before first use and keep them for future reference. The CL 1050 MA is a versatile, portable LED work light designed for various applications in workshops, construction sites, and outdoor environments, offering robust performance and flexible illumination.

2. PRODUCT FEATURES

- **High-Performance LED:** Equipped with powerful SMD LEDs, delivering 10W of power and 950 lumens of luminous flux.
- **Adjustable Lighting Modes:** Features three distinct lighting modes: 100%, 50%, and 25% brightness, allowing for adaptable illumination based on task requirements.
- **Rechargeable Battery:** Integrated 3.7V/2.5Ah Li-ion battery provides up to 12 hours of operation on a single charge. Includes a charging indicator.
- **Power Bank Function:** Built-in USB port allows the light to function as a power bank, enabling charging of external devices such as smartphones or tablets.
- **Versatile Clamp Attachment:** Features an effective clamp with a maximum spacing diameter of 55 mm, allowing secure attachment to various surfaces like worktops, pipes, or scaffolding.
- **Articulated Ball Head:** An integrated articulated ball joint enables the LED spot to be tilted and rotated almost 360°, providing precise light direction.
- **Durable Construction:** Lightweight housing made from impact-resistant plastic, designed for demanding environments.
- **High Protection Ratings:** IP65 rated for dustproof and water jet protection, and IK08 rated for impact resistance.
- **Color Temperature:** Provides a clear, bright light with a color temperature of 6350K.

3. PACKAGE CONTENTS

Please check the package contents upon unpacking to ensure all items are present and undamaged:

- 1x Brennenstuhl CL 1050 MA 10W Rechargeable LED Clamp Light (with integrated Li-ion battery)
- 1x USB Type A/C connection cable

4. SETUP

4.1 Attaching the Light

1. Identify a suitable surface for attachment. The clamp can securely grip objects up to 55 mm in thickness.
2. Open the clamp by pressing the lever.
3. Position the clamp onto the desired surface and release the lever to secure it. Ensure the clamp is firmly attached and the light is stable before use.

4.2 Adjusting the Light Direction

The CL 1050 MA features an articulated ball joint for flexible light positioning:

1. Once the light is clamped, gently hold the light head.
2. Tilt or rotate the light head to direct the illumination precisely where needed. The ball joint allows for nearly 360° adjustment.



Image 1: The Brennenstuhl CL 1050 MA LED Clamp Light, showing its robust design and the clamp mechanism for secure attachment to various surfaces. The light head is adjustable via a ball joint.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off and Brightness Adjustment

The light is operated via a single button:

- **First Press:** Turns the light on at 100% brightness.
- **Second Press:** Switches to 50% brightness.

- **Third Press:** Switches to 25% brightness.
- **Fourth Press:** Turns the light off.

The light will cycle through these modes with each subsequent press.

6. CHARGING AND POWER BANK FUNCTION

6.1 Charging the Light

To charge the integrated Li-ion battery:

1. Connect the supplied USB Type A/C cable to the charging port on the light.
2. Connect the other end of the USB cable to a suitable USB power adapter (not included) or a powered USB port.
3. The charging indicator will illuminate to show that the battery is charging.
4. A full charge takes approximately 3 hours. The indicator will change or turn off once charging is complete.

6.2 Using as a Power Bank

The CL 1050 MA can be used to charge other USB-powered devices:

1. Locate the USB output port on the light.
2. Connect your device's charging cable to the USB output port on the CL 1050 MA.
3. The light's internal battery will begin to charge your external device. Note that using the power bank function will reduce the operational time of the light.

7. MAINTENANCE

7.1 Cleaning

To maintain the performance and appearance of your light:

- Ensure the device is turned off and disconnected from any power source before cleaning.
- Wipe the exterior with a soft, damp cloth.
- Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the housing or internal components.

7.2 Storage

When not in use for extended periods:

- Store the light in a cool, dry place, away from direct sunlight and extreme temperatures.
- For optimal battery health, charge the battery fully before storing and recharge every 3-6 months.

7.3 Battery Care

The Li-ion battery is integrated and not user-replaceable. Do not attempt to open the housing or replace the battery yourself. Improper handling can lead to damage or injury.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	Battery is depleted.	Charge the light using the provided USB cable.
Light is dim or flickers.	Low battery charge.	Recharge the battery fully.
Clamp does not hold securely.	Surface is too thick or too thin for the clamp, or clamp is not fully engaged.	Ensure the surface thickness is within the 55 mm maximum. Re-position and firmly engage the clamp.
External device not charging via power bank function.	Light's battery is depleted, or cable is faulty.	Ensure the light is sufficiently charged. Try a different USB cable.

9. SPECIFICATIONS

Feature	Specification
Model Number	CL 1050 MA (1173070010)
Power	10W
Luminous Flux	950 lm
Lighting Modes	100% / 50% / 25%
Battery Type	Li-ion 3.7V/2.5Ah
Battery Life (max)	Up to 12 hours
Charging Time	Approx. 3 hours
USB Function	Power Bank (Type A/C connection cable included)
Clamp Spacing (max)	55 mm
Protection Rating	IP65 (Dustproof, protected against water jets)
Impact Resistance	IK08
Color Temperature	6350K
Material	Impact-resistant Plastic, Metal
Dimensions (L x W x H)	3.54" x 3.35" x 7.09" (approx.)
Item Weight	0.4 kg (14.1 ounces)

10. SAFETY INFORMATION

Please observe the following safety precautions to prevent injury or damage to the device:

- **Eye Protection:** Do not look directly into the LED light when it is on, as it can cause eye strain or temporary vision impairment.
- **Children:** Keep the device out of reach of children.
- **Temperature:** Do not expose the light to extreme temperatures, direct sunlight for prolonged periods, or open flames.
- **Disassembly:** Do not attempt to disassemble, modify, or repair the device. This will void the warranty and may lead to hazards. Contact qualified personnel for service.
- **Water Exposure:** While the light is IP65 rated (protected against water jets), do not immerse it in water.
- **Battery Disposal:** Dispose of the integrated Li-ion battery responsibly according to local regulations. Do not dispose of batteries in household waste.
- **Charging:** Only use the provided USB cable for charging. Ensure the power source meets the required specifications.

11. WARRANTY AND SUPPORT

Brennenstuhl products are manufactured to high-quality standards and come with a manufacturer's warranty. For specific warranty terms, support, or service inquiries, please refer to the warranty card included with your product or visit the official Brennenstuhl website. Please have your model number (CL 1050 MA) and purchase information ready when contacting support.