THE SOLO MINING CO'

YOUR RIGS. YOUR REWARDS.

Instruction Manual and Setup Guide:

GekkoScience Mein Coffee
A Bitcoin Mining Coffee Warmer

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About the Mein Coffee Bitcoin Mining Coffee Warmer (or candle melting thing if that's how you want to use it!)

Core product concept

Mein Coffee is a fanless, silent standalone Bitcoin miner integrated into a mug warmer / hotplate form factor, with:

- ○ USB-C power (~23–27W typical)
- ○ Wi-Fi + web UI on an integrated Linux controller
- ○ Front OLED showing miner/network/price stats
- ○ Temperature target control (hotplate temp target, miner performance adapts)
- ○ Premium materials: walnut base + aluminium hotplate
- ○ Up to 600 GH/s Bitcoin Mining Speed
- ○ Up to 60°C hotplate temp'

Mein Coffee can be used to solo mine or pool mine on the SHA 256 (Bitcoin) algorithm.

New to Bitcoin mining and have zero clue what we are talking about? That's ok!

Read this: https://www.thesolomining.co/what-is-bitcoin-mining/

Requirements:

Internet Connection: A 2.4Ghz Wifi connection is required to allow Mein Coffee to connect to your pool / solo mining host of choice. Bandwidth is minimal, stability is more important than speed.

Bitcoin Wallet Address: You must have your own Bitcoin Wallet Address that you are in control of to allow the mining pool / solo mining host to pay your bitcoin to if you mine a block. If you input the wrong address when setting up Mein Coffee and you do mine a block, you will have no access to it as it would've been paid to the BTC address YOU input. This is VERY important!

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Safety & Intended Use

Heat + liquids (critical)

- Hotplate surface gets hot (up 60°C).
- Use only stable mugs/cups; avoid thin plastics.
- Wipe spills immediately; do not allow liquid ingress.
- Keep vents/air gaps unobstructed (even fanless devices need convection).

Electrical safety

- Use appropriate USB-C supply.
- Do not use damaged cables.
- Indoor use only.
- If you spill a drink on Mein Coffee, unplug the unit and wipe it clean.
- If Mein Coffee is saturated ensure the unit is thoroughly dry before turning back on.
- Mein Coffee has "watchdog" software which prevents overheating and it will automatically shutdown in the event of an overheat or thermal runaway issue. If you are in any doubt, unplug the unit and contact us.

What's in the Box

- Mein Coffee unit
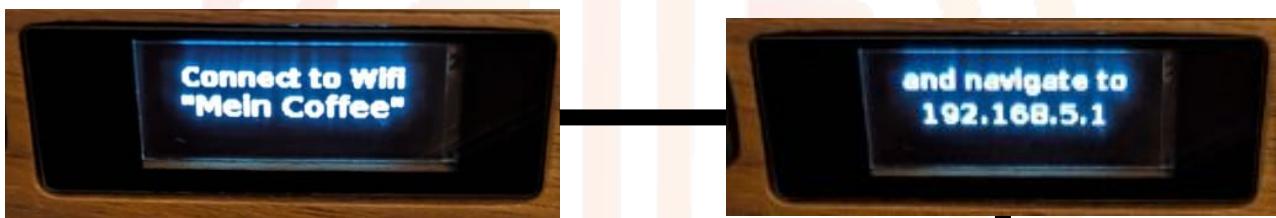- USB-C power supply
- USB-C power cable
- Enamel mug

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Quick Mein Coffee Setup:

1. Place unit on a flat surface.

2. Connect **USB-C power** (use supplied PSU or a minimum 27W+ USB-C PD source).

3. Wait for boot (OLED screen will take a moment).

4. Join the device setup hotspot **"Mein Coffee"**.

5. From your web browser on your device, navigate to http://192.168.5.1 (it should automatically open your browser and do this for you)

6. Configure Wi-Fi + pool + wallet in the web UI. *(If you don't know what the pool & wallet stuff is, don't worry, read the FAQ at the end of this guide).*

7. Save and then the unit will restart.

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After Setup - Now What?!

Once you have entered your details in the config page and the unit has rebooted, you will see Mein Coffee's screen displaying snippets of information.

What you should see:

1. IP address: This is the IP address of your unit (more on this shortly)
2. Temperature - Hotplate temperature
3. BTC Price - In realtime
4. Hash Rate - Bitcoin Mining hashrate of Mein Coffee
5. Wallet Balance - if configured in the web interface
6. Time - The same thing you have on your watch, probably!

Of these, the most important is the IP address.

From a device on the same wifi network as Mein Coffee, open a web browser and type in: "http://ip_address". If your IP address is 192.168.1.30, you will type http://192.168.1.30

If you get an error about the unit not having an IP and cannot continue, you must reboot and press the button to factory reset when prompted. This will be down to you entering your Wifi SSID or password incorrectly. You will then need to go through the setup process again.

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The Web Interface

From the web user interface, you can change all of the settings of Mein Coffee.

Further down the page you will see the LED options for the LED board underneath the unit (where fitted).

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Mein Coffee FAQ

What are the "Pool" and "User" fields?

Mining Pool URL = the pool server address Mein Coffee connects to (Stratum), e.g.
`stratum+tcp://solo.ckpool.org:3333`

User = who gets credited for the mining work.

- Most commonly: **your Bitcoin payout address** (often you can add a worker tag, e.g. `bc1...abcd.MeinCoffee`)
- Some pools use: **account/worker format** like `username.worker1` (follow your pool's instructions)

What should the "Password" be?

Usually it's **not a real password** — it's just a required Stratum field.

- If your pool doesn't specify one: use **x** (works for many pools)

How do I get the highest hashrate?

Mein Coffee is heat-limited by design. It runs to maintain your target hotplate temperature.

More heat dissipation = more hashrate.
If the heat has somewhere to go, the miner can run harder. If heat builds up, it will throttle to hold the target temp.

Best quick wins:

- Give it **good airflow** (don't enclose it).

- Place it on a surface that can **dump heat well** (avoid insulating mats/soft surfaces).

- Cooler room / better ventilation = **more headroom** = **higher hashrate**.

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Two simple pool options for Mein Coffee

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1) Solo (Lottery-style): CKPool Solo (solo.ckpool.org)

Use this if you want the **"one big win"** experience.

- **What it is:** Solo mining is basically a **lottery**. Your miner is working on its own to find a block.
- **How you get paid:** You only get paid if **your miner finds a whole block**. That's rare on small miners — but if it happens, it's a **huge payout** (the full block reward + fees, minus pool fee).
- **Best for:** People who like the solo vibe and don't mind long stretches of nothing.

Settings:

- Pool URL: `stratum+tcp://solo.ckpool.org:3333`
- User: `YOUR_BTC_ADDRESS` (optional: `YOUR_BTC_ADDRESS.MeinCoffee`)
- Password: `x`

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2) Pool (Regular payouts): Braiins Pool (www.braiins.com)

Use this if you want **small and more frequent payouts**.

- **What it is:** You mine as part of a larger group (a pool).
- **How you get paid:** You get **smaller, regular payouts** based on your contribution (shares), instead of waiting to find a whole block yourself.
- **Best for:** Anyone who prefers steady progress and predictable payouts.

Settings:

- Pool URL: `stratum+tcp://stratum.braiins.com:3333`
- User: `YOUR_BRAIINS_USERNAME.workername` *(Braiins uses accounts/workers rather than a raw BTC address)*
- Password: `x` (or whatever you set in Braiins)

A few more frequently asked questions:

Can I mine other coins like Ethereum, Doge, etc? Yes and no. You can only mine SHA-256 algorithm based coins such as Bitcoin, Bitcoin Cash, Digibyte, etc. You cannot mine coins with different algorithms as the Mein Coffee Bitcoin miner can only work with SHA-256 coins. Ethereum is ETHash, Litecoin is Scrypt, etc. Look here for mineable SHA-256 coins https://cryptodelver.com/algorithm/sha256.

If I am solo mining, mine a block and Mein Coffee gets broken, do I lose my bitcoin? No, Mein Coffee is purely hardware trying to mine a block. The pool you are mining to (be it a solo pool or a PPLNS pool) is responsible for managing your bitcoin payout. No bitcoins can be stored on Mein Coffee or the web interface. Do not try to take Mein Coffee apart to find your bitcoin, you won't find them (yes, this happened…!) Anyway, see your pool details for info. **Note:** If you use ckpool.org, which the unit is preconfigured to, if you solo mine a block, ckpool will automatically pay you your bitcoin to your wallet address you entered in the initial setup as described earlier in this document. You are responsible for your own bitcoin wallet! Ensure you know how to set this up!

Can I upgrade Mein Coffee? No, you cannot upgrade the Mein Coffee hardware. You can adjust the temperature which will change its hashrate.

Can I mine to a pool rather than solo mining? Yes! You are free to mine to any pool you like. Enter your pool settings in the web config page as previously mentioned. Remember, this is a SHA-256 based miner and will only work with coins that run on that algorithm.

What is the difference between solo mining and pool mining? Solo Mining: You have a small shovel and you are trying to find a big lump of gold in the hills all by yourself. You find it, it's yours. **Pool mining - aka PPLNS:** You and 10000 other people have lots of shovels of different sizes, all looking for the same lump of gold. When one person finds it, that gold is divided proportionally by the amount of people there are working together on that team (pool) and how big their shovels are (speed of miners). The bigger the shovel the bigger your payout. The shovel analogy implies a big shovel is a really powerful but really expensive miner, a small shovel is an R909 and so on.

What are the odds of solo mining a bitcoin block? Go to http://www.solochance.com, enter your speed and you will see the real time odds of solo mining a block. Mein Coffee sits around 600gh/s

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Troubleshooting (Quick Fix Cheatsheet)

1) Nothing turns on (no OLED, no LEDs, no heat)

Most common cause: power supply / cable.

- Use a **USB-C PD power supply (27W+ / 30W+ recommended)**.
- Try a different **USB-C cable** (some are charge-only or low current).
- Unplug power for **10 seconds**, plug back in, wait **60–90 seconds**.

Power indicator check:
Look into the **rear gap around the USB-C port** — when power is present you should see a **small red LED illuminated deep inside the unit**.

- **No red LED = not getting power** (PSU/cable/PD issue).

If still dead: contact support.

2) I can't see the "Mein Coffee" Wi-Fi network

- Wait **60–90 seconds** after power-on (boot can take a moment).
- Move closer (phone/laptop within 1–2m).
- Power cycle: unplug for **10 seconds**, plug back in.
- Try a different USB-C PD PSU and cable.

Tip: If you **can't see the red LED** (see section 1), the problem is power, not Wi-Fi.

Still not visible? Do a **factory reset** (see section 6).

3) I connected to Mein Coffee Wi-Fi but 192.168.5.1 won't load

- Make sure your phone/computer is **still connected to Mein Coffee Wi-Fi** (devices often auto-switch back to home Wi-Fi).
- Temporarily turn **mobile data off** (some phones block local-only Wi-Fi).
- Type the full address exactly:
  - http://192.168.5.1
- If your browser forces HTTPS, manually type **http**.
- Try a different browser (Chrome/Safari/Edge).

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Troubleshooting (Quick Fix Cheatsheet - continued)

4) It joined my home Wi-Fi… but now I can't find it / web page won't open

- Check the OLED for the **new IP address** once it's connected to your Wi-Fi.
- Or find it via your router:
  - Router admin page → **DHCP / Connected Devices**
  - Look for something like **Mein Coffee / NanoPi / miner**
- Or use a network scanner app like **Fing**.

If you still can't find it:

- The Wi-Fi password may be wrong, or your network may be **5GHz-only** (many IoT devices need 2.4GHz).
- Do a **factory reset** and set Wi-Fi again.

5) "Miner Dead" / no shares / pool not connecting

Check these first:

- Pool URL is correct (copy/paste, **no spaces**).
- Your Wi-Fi is connected and stable (weak Wi-Fi causes pool drops).
- Username/password format is correct (depends on pool).

Common pool format (example):

- Pool URL: `stratum+tcp://...`
- User: usually your **wallet address** or **username.worker**
- Password: often **x** (many pools ignore it)

Still "dead"? Try a different pool to confirm it's not pool-side.

6) Wi-Fi is wrong / stuck / I need to reset it

Factory Reset (Wi-Fi + settings)

- Use the on-screen prompt to reset when it appears after a power cycle.
- After reset, Mein Coffee returns to **hotspot mode**.
- Reconnect to **Mein Coffee Wi-Fi** and repeat setup at:
  `http://192.168.5.`

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Troubleshooting (Quick Fix Cheatsheet - continued)

7) Hashrate seems low (this is usually normal)

Mein Coffee uses a **temperature target system**:

- Higher hotplate targets = less thermal headroom = the miner may **throttle** to stay safe.
- Ambient temperature matters.
- What's on the plate matters:
  - A mug/cup can act as a heat sink and allow higher sustained performance.

Try:

- Lower the hotplate target temperature slightly.
- Improve airflow around the unit (don't box it in).
- Place on a flat, heat-resistant surface.

8) It gets too hot / shuts down

Mein Coffee has thermal protection.

- If it overheats, it may **throttle** or **shut down** to protect itself.
- Let it cool down, then power-cycle.

If overheating happens repeatedly at normal settings, contact support.

Still stuck?

Send support:

- A photo of the OLED screen
- Your pool URL + username format (you can redact sensitive parts)
- What PSU/cable you're using
- What happens when you try http://192.168.5.1

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What is the point of the the hardware supplied by us at The Solo Mining Co'? Not everyone has £100,000+ to invest in serious mining hardware that will probably never make a return. These monster machines cost £thousands a month in electricity to run and is a massive gamble. If you own a power station or get free power, use it to your advantage - legally of course.

The hardware we supply, such as the Bitaxe, SmartHub, CompacF's, R909's, etc are all cost effective and presentable ways of any enthusiast getting into bitcoin mining. Our whole product range has been designed as a talking / conversation piece as well as a fun desktop trinket that has a genuine chance of getting you a huge life changing amount of money.

Do people actually mine blocks with these small Bitcoin Miners?
Yes, often!

Any questions or comments? Let us know.
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Cheers!
IAmGPIO

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