



**i-grind**

**i-grind technology is a module to be integrated with any manufacturer's Coffee Grinder to enable it deliver precise weights of ground coffee direct to a group handle.**

**i-grind allows a pre set weight to be achieved by simply placing on the desired coffee machine group handle.**



Ability to **collapse the Coffee grind half way through the process** and then finish grinding to reach the target weight.

**Instant grinding** of coffee as soon as the group handle is placed in the handle rest.

# Grind



**No button pressing** to select single or double handles. **Automatic selection of single or double handle** by placing it on the grinder group handle rest.

**No more time adjustments** - The barista never has to adjust the volume of time to give a desired amount of coffee.

Grinders only have to be adjusted by the grind coarseness or fineness to **achieve the perfect extraction.**

Individual volumes of ground coffee to be **set for up to 2 different group handles. (single or double)** Each handle then has **2 pre set grind fill levels.**

The ability to **use the grinder as it was designed** as its not effected by adding i-grind.



**i-grind** has been adapted from the **i-milk** platform.

**i-grind has been produced as a prototype to show proof of concept but is still in development.** Although the accuracy and utility of i-grind is already at a high level, further development options include:

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### **The following are the current specification limitations we have:**

- We are currently using a 10kg load cell.
- Sampling rate is 20 per second.
- Scale is measuring in 1 gram increments.
- A physically large size load cell.
- External comms box required for setup and adjustment.

### **Future tech required for with our new PCB currently in development:**

- 3kg load cell for smaller measurement range to increase accuracy and physical size
- 0.1 gram weight measurements for sampling and finer settings of desired volumes.
- Sampling rate of 100 per 1 second allowing for even greater accuracy.
- Removal of the comms box as the new PCB will be the controller, it is built into the LCD display.
- Bluetooth connection between the i-grind and i-shot to adjust brew ratios using an app.
- When connected the i-grind would tell i-shot the change in grind and then i-shot would adjust accordingly to ensure the same brew ratio is maintained. This would adjust for all the cups programmed in i-shot.
- Ability to have a variable cut off for the maximum grind volume to ensure motor does not burn out for safety.
- Daily, weekly, monthly shot grind counter.

# **i-grind**

[www.i-milk.com.au/i-grind](http://www.i-milk.com.au/i-grind) for more info and videos

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