

**Product Introduction**

Hair homogenizer / fast hair Tissuelyser / portable hair Tissuelyser  
 DH-2019 portable rapid hair grinding device utilizes a unique "8"-shaped three-dimensional oscillation mode. Through the high-frequency reciprocating vibration, impact, and shear of grinding beads (zirconia, steel beads, glass beads, ceramic beads), it is suitable not only for fine crushing and fine grinding of hard, semi-hard, and brittle samples but also for soft, elastic, fibrous materials, and more. It rapidly achieves ideal grinding results, ensuring samples are thoroughly and uniformly ground, exhibiting better sample reproducibility, and avoiding cross-contamination between samples. When combined with colloidal gold detection technology after grinding, it enables rapid on-site detection of common drugs (such as morphine, methamphetamine, ketamine, ecstasy, cannabis, etc.) in hair samples.



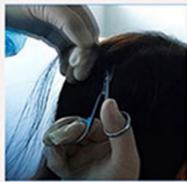
**Product Description:**

- ◆ LCD digital display function, adjustable time (3 seconds to 240 seconds) at will.
- ◆ Grinding speed of 5000rpm.
- ◆ The time and speed parameters have self-memory function.
- ◆ It operates in a "8" shaped loop, and the clamp is an effective automatic locking device.
- ◆ There are two choices of metal and plastic clamps. Customers can choose according to experimental conditions.
- ◆ It is designed with safety in mind. During operation, when the mask is opened, the machine stops working to ensure operation safety.
- ◆ Ergonomic design, low noise, and automatic alarm reminder.
- ◆ Easy operation, easy maintenance, and uniform oscillation.



**Operation Process**

LAWSON can help you easily complete the hair inspection in only **4** steps :

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1. When extracting hair samples, disposable gloves should be worn, and scissors should be used to cling to the scalp surface of the extracted person to cut hair with a length of less than 3 cm at the top and back. Hair longer than 3 cm should be cut from the root of the hair.
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2. After putting the extracted hair into the kit, put the reagent bottle into the grinder.
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3. Adjust the instrument to the best state, and grind the hair according to the set instrument parameters. Take out the hair sample after the instrument stops working.
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4. Suck the ground hair solution with a test tube, drop 3-5 drops into the hair detection plate, and observe the changes of the detection plate.

(If two lines of C/T appear at the same time, the sample is negative. Only line C appears, and the test sample is positive. The product can process 12 samples at one time, and the whole process does not exceed 10mins.)

**Technical Parameters**

Model	DH-2019	DH-2020
Application	Rapid grinding of hair and rapid screening of drug testing, etc.	
Rotational Speed	5000 rpm	6000 rpm
Grinding Mode	Dry grinding, wet grinding	
Display	LCD display (upgradable)	
Processing Capacity	2.0ml*4; can also be adapted to 2ml*3	5ml*2 adapter (with/without edge)
Timing Range	3 seconds to 240 seconds	
Noise	Less than 65dB	
Weight	5kg	
Power	60W	100W
Power Supply	AC 220±20V, 50HZ; DC 24V,5A	
Dimensions	210*240*170 mm	
Weight	5.2Kg	5.3Kg