



cannadermTM
TECHNOLOGIES

**Medical Marijuana
Transdermal Patch
Development
and
Production
Experts**

**Start Making
Patches Today**



Medical Marijuana Transdermal Drug Delivery Systems

Put the power of decades of research and development behind your product using the best chemists, coating technicians and equipment in the business.

CannaDermTechnologies can provide a complete system including training at our state of the art facility in Mentor, Ohio. Our equipment system includes laminators, coaters and testing devices delivered to your site.

We also provide a supply of facestocks, release liners, adhesives and other consumables. Our chemists and coating technicians provide ongoing support for formulating, coating and converting as well as continuing education for your employees.

MEDICAL MARIJUANNA— TRANSDERMAL PATCH SYSTEM

CannaDerm Technologies is your one shop for Transdermal Drug Delivery Systems. We provide a turnkey patch development solution. Although we do not work with actives we can recommend how to load actives such as CBD, THC, Menthol and Vitamins.

The Medical Marijuana Transdermal Patch System will get you started making patches within weeks.

MATERIALS and SUPPLIES

Liners, release paper, adhesives, beakers, lab wipes, and other consumables.

EQUIPMENT

All equipment needed to manufacture medical marijuana patches.

TRAINING

Standard training course is a two day session at our headquarters in Mentor, Ohio. The course covers adhesives, liners, coating, drying and converting.

We also offer the same course at your facility. Our instructors are all experienced in every aspect of adhesive formulation, transdermal patch production, equipment use and problem-solving.

SUPPORT

Adhesive formulation support (our site or yours), and continued equipment training.

Process Equipment

CD-420-101 Lab Scale:

Touch screen, pan size 17 x 20.5 cm, weighing capacity 800-1400 grams.

CD-420-102 Lab Mixer:

General Purpose Mixer with Stirrer and Stand.

CD-420-201 Lab Drawdown Coater:

Minimum viscosity 1000 cps, dial indicators for fast, accurate, reproducible gap setting, unwind capable of holding roll stock 12" diameter by 12" wide. Quick disassembly for easy clean up.



CD-420-202 Oven:

Maximum oven operating temperature of 500°F (260°C).

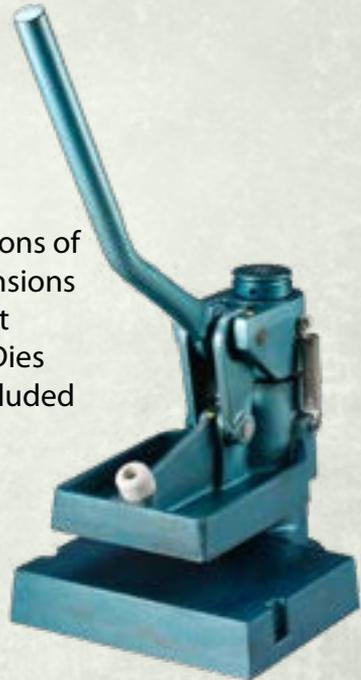
CD-420-203 Hot Roll Laminator:

Produce laminated samples of unlimited length up to 18" wide. Variable speed motor allows laminating speeds from 0.5 to 20.0 fpm. Capable of maintaining temperatures up to 400°F. Unwind stand is capable of holding roll stock up to 12" diameter by 18" wide.



CD-420-204 Swing Arm Die:

Quick and easy to operate and maintain. Upper platen dimensions of 8" x 8" wide. Lower platen dimensions of 9" x 11" wide. Easy adjustment for stroke and height changes. Dies available on request, but not included with the unit.



CD-420-205 Rotary Die Cutter:

Custom to your patch size. Allows for multiple cuts. Includes hand crank and housing station.

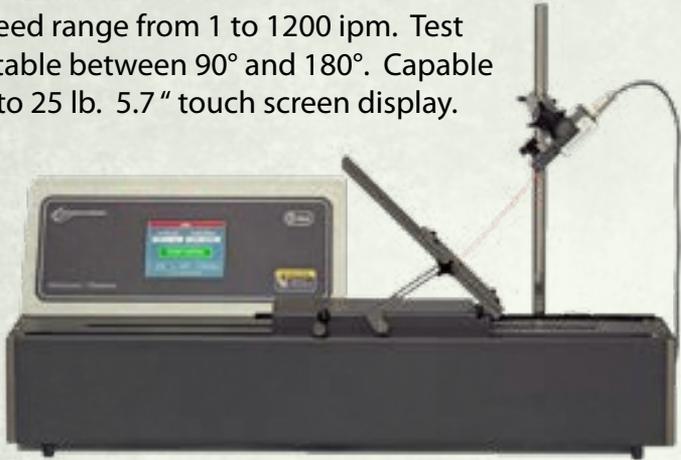
CD-420-300:

Custom all-in-one coater and oven laminator for high levels of production.

Quality Control Equipment

CD-420-500 Adhesion Tester:

Selectable speed range from 1 to 1200 ipm. Test angle is selectable between 90° and 180°. Capable of pulling up to 25 lb. 5.7" touch screen display.



CD-420-502 Shear Tester (10 bank):

Easy-to-read, 0.5" (1 cm) LCD timer display is set to time in increments of 1/10 of a minute. Designed to use standard 2" x 3" (50mm x 75mm) format test panels. Mechanical switches can be calibrated to trip when using weights from 100 to 1,000 grams. Adjustable angle panel rack allows the user to easily change the test angle from 178° to 90°.



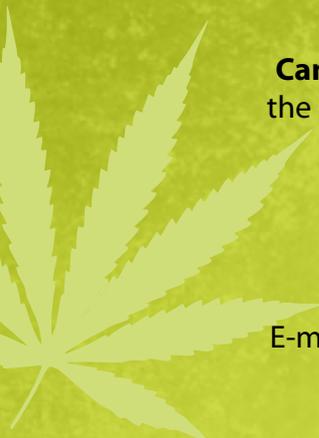
CD-420-501 Probe Tack Tester:

Single speed motion utilizes a cam design for consistent and repeatable tack testing. Simple one-touch operation delivers information quickly and easily.



CD-420-503 Standard Stainless Steel Test Panels:

18 gauge, 304 stainless steel with a bright annealed finish. Cleaned, baked, shipped and wrapped with lint free tissue. Polished to a surface roughness of $1.5 \mu''$ Ra $\pm .5 \mu''$.



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the Chemsultants International family

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