Reel-to-Reel (Roll-to-Roll) CVD Processing

For rolls of metal foils, plastic sheets, fibers, and other materials

CVD Equipment Corporation’s reel-to-reel (roll-to-roll) chemical vapor deposition (CVD) process tools deposit materials on a continuous roll of metal foils, plastic sheets, fibers, and other materials in place of individual substrates. The technology has been used for superconductor tape production*, nanomaterial synthesis, aerospace materials, and ALD coatings. Reel-to-reel processing offers high production volumes at a low cost. In-line reel-to-reel processing is often preferred over batch processing for applications where multiple in-line processing steps are required.

We have developed reel-to-reel systems for many applications. Custom systems can be engineered to accommodate various substrate widths and lengths.

*CVD systems have set world records for superconductivity (>300,330 amp-meter performance in 1,065 meter length of 2G HTS wire)
Source: SuperPower, Inc. www.superpower-inc.com/content/history/

powered by CVDWinPrC™

Operated through our CVDWinPrC™ process control software, the systems automatically log data and graphically show time-dependent values of user-selected parameters. CVDWinPrC™ also allows users to load preprogrammed recipes, modify, check and create new recipes, and view realtime or saved process data.

Safety Protocols

The systems have application configured safety protocols embedded into relay logic, PLC, and CVDWinPrC™ software.

www.cvdequipment.com
CVD Equipment Corporation offers CVD processing systems with support equipment such as gas cabinets and exhaust gas conditioning systems. All major components from one vendor makes component interfacing seamless.

Call us at +1 631-981-7081 to discuss a product solution for your project. We can also be reached at sales@cvdequipment.com or visit our website.

**Reel-to-Reel System Features**
- CVDWinPrC™ based process control software for real time process control, data logging and display, recipe generation and editing
- Continuous processing of flexible substrates
- In-line processing for improved productivity / efficiency
- Atmospheric or low pressure processing
- Advanced tension control

**Reel-to-Reel Process Options**
- Atomic Layer Deposition (ALD)
- Atmospheric Pressure CVD (APCVD)
- Low Pressure CVD (LPCVD)
- Metal Organic CVD (MOCVD)

**Our Other System Capabilities**
- Atomic Layer Deposition (ALD)
- Atmospheric Pressure CVD (APCVD)
- Crystal Growth
- Chemical Vapor Infiltration (CVI)
- High Temperature Annealing (HTA)
- Hydride Vapor Phase Epitaxy (HVPE)
- Low Pressure CVD (LPCVD)
- Liquid Phase Epitaxy (LPE)

**Selected Core Expertise**
- Automation
- Cluster Tools
- Dry Etching
- Exhaust Abatement/Scrubbing
- Multi-Chamber Tools
- Reel-to-Reel Processing
- High Vacuum / UHV Systems

![Reel-to-Reel System Features](image)

**Dual chamber III-V MOCVD system with batch and reel-to-reel processing capabilities**

*VISIT OUR WEBSITE TO LEARN MORE*