



A person is holding a vinyl record horizontally in front of them. The background is a solid green color. The person's face is partially visible in the upper right, and their hands are holding the record. The record is a standard black vinyl with a white label in the center. The text "Modern design. Classic sound." is overlaid on the image in a white sans-serif font, with "Classic sound." in a yellow-green color.

Modern design. Classic sound.

About Us.

A combination of bright, experienced record pressing minds, high level mechanical and mechatronics engineers, define the Viryl Technologies™ outfit.

We understand vinyl records. As machine specialists, pressing plant owners and operators, cutting engineers, and musicians. We are vinyl record experts. We understand that now is the time for advancement in the vinyl record manufacturing process.

Viryl Technologies has taken a calculated approach to propelling vinyl records into the future and we are proud to introduce our suite of products to the marketplace. Conceived out of frustration in dealing with long turnaround times, high defect rates, inconsistent cycle times, and operator reliability, our products offer complete control of your business. An engineered solution that removes “the rust” from the vinyl manufacturing process.

The Process.

This overview outlines the vinyl manufacturing process

Viryl Technologies has in no way altered the process of manufacturing vinyl records. We understand and respect the traditional process of manufacturing vinyl and designed this machine so that it could be immediately implemented into current and new pressing plants.

Our machines make the process more reliable, environmentally friendly, and efficient. Here is a basic **3 step breakdown** of the vinyl manufacturing process. Our machines handle the pressing portion of this process.

1.

Cutting/Mastering

Lacquer masters (acetate) are cut via a lathe by a mastering engineer. The finished product is then sent to be plated.

2.

Plating/Galvanics

The lacquer master is electro-formed into a nickel-based stamper. This is the stamper which is put on the press for pressing.

3.

Pressing

PVC compound is extruded, heated, and cooled under high pressure. The finished product is a vinyl record.

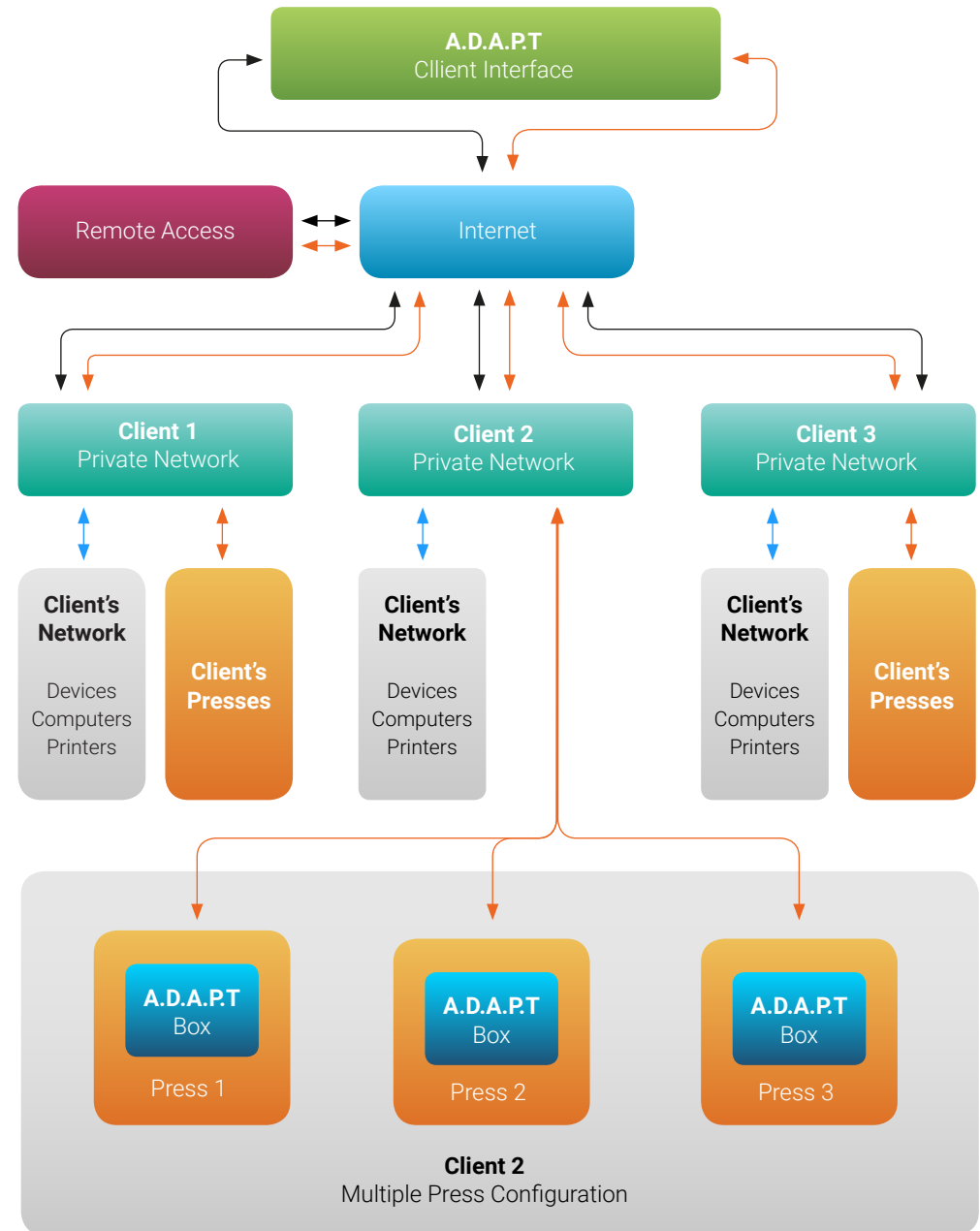
A.D.A.P.T

It's 2017, the time to A.D.A.P.T is now.

Our **A.D.A.P.T**™ Platform is like nothing ever imagined in the record pressing industry. Machines are equipped with the capability to pull data from every key part of the pressing process. The collected data feeds back to your smart device where a customized interface will allow for monitoring of daily throughput, press uptime, and other key data points. This platform gives you complete control of your business.

Sick of downtime? **A.D.A.P.T** allows our engineers to keep track of each press, be aware of maintenance needs, and ensure each press is running at peak performance. It's 2017, time to **A.D.A.P.T** wouldn't you say?

The **A.D.A.P.T** Platform is outfitted on every WarmTone™ record press. It can also be outfitted to Alpha Toollex, S.M.T., Lened, Hamilton, and Finebilt machines.





WarmTone Record Press
Machine guarding shown

Meet the WarmTone.

*"The WarmTone record press is everything that its vintage counterpart is not: safe, fast, fully automated, reliable..." - **WIRED Magazine***

Our modernized, fully-automatic record press is built with your plant in mind. Our value proposition promises to produce profit in more ways than simply manufacturing product. Imagine fast cycle times, less wasted PVC, no manual intervention, modern reliability, automated workflow, and real time business analytics at the palm of your hand. Our improvements allow your plant to focus on operational effectiveness and press more records.

Viryl Technologies is committed to supporting our machines with a customer service experience not seen in the industry. All machines come with a one year warranty, and service contracts are made available after warranty expires. Our parent company XYZ International has over 150 service locations worldwide allowing for complete reliable coverage for all of our clients. Our service engineers remotely monitor each WarmTone press in the field and ensure that machines are running at peak performance. All of this is available for tracking through the A.D.A.P.T. Platform.

See **page 14** for technical specifications.

** Cycle time is subject to input temperatures, PVC brand, stamper quality, operator input, infrastructure specifications, ambient temperature and humidity, and is based on the use of 100% virgin vinyl.*

Workflow Features

- Safety guarding
- Removeable label cartridges
- Quick-release stampers
- Quick-release hopper
- Quick purge extruder
- Dual trimming and stacking station
- Removeable stack spindles
- Automated cooling plates
- 23-27 second cycle time (140gram) *
- Semi-automatic mode for custom runs
- System touch interface
- 12-10-7 inch compatibility
- Fault recovery and log
- Steam & water manifold with purchase

A man with a beard, wearing a dark jacket, is shown in profile, looking down at a vinyl record he is holding with both hands. The record has a white label with a stylized logo. The background is a blurred industrial or factory setting with various mechanical parts and structures. The entire image is overlaid with a green tint and a diagonal split effect, with the top-left portion being a lighter shade of green.

Quality is our mission.



Meet the LiteTone.

The most affordable record press on the market.

The LiteTone is a semi-automatic iteration of the WarmTone. This machine is the most affordable modern record press money can buy. The process is fully automated up until the record is taken off the face of the mold for trimming. LiteTones are built in a modular capacity and can be upgraded to WarmTone models at any time. This machine is manual record pressing done properly.

Workflow Features

- Safety guarding
- Cycle time 27 seconds (140 gram)
- Removeable label cartridges
- Fully- automated labelling and extrusion
- Quick-release hopper
- Quick-purge extruder
- Quick-release stampers
- System touch interface
- 12-10-7 inch compatibility
- Fault recovery and log
- Steam & water manifold with purchase

Mold Technology.

Introducing the most efficient record mold in the world. Meticulously engineered for accurate, quality pressing.

Viryl Technologies is proud to announce our very own optimized record molds. Our design includes an optimized steam labyrinth and can withstand up to 300,000 impressions. Compatible with not only our WarmTone record press, Viryl molds can be fitted for **Alpha Toolex, Lened, Hamilton, Finebilt** and **S.M.T. machines**.

Molds can be manufactured in 7,10 & 12 inch formats and any weight within reason. All molds will be sold as a matched pair and are re-profileable if damaged or expired.

Consulting Plans.

Our engineers provide you with the tools, insight, and ability to run the most efficient and profitable business possible. Let us work for you.

Viryl Technologies offers a transfer of knowledge that is unmatched in the record pressing industry. We specialize in plant design, efficiency, and offer 'turnkey' solutions for our clients. Whether you're a current pressing plant owner, or completely new to record pressing, we can help improve your operation.

Consulting plans may include:

- Full plant design and floor layout
- Data Sheets
- Contracting
- Infrastructure layout
- P&ID
- Plant calculations
- Procurement

Basic	Premium	Turnkey
\$8,000	\$15,000	15% Fee
40 hours of Viryl Technologies support from our highly trained support staff	80 hours of Viryl Technologies support from our highly trained support staff	Complete turnkey solution for custom based projects

Training & Manuals:

We provide on-site training with our highly skilled support staff upon installation. Machines come with full service and operating manuals.

Service Contracts:

Full and partial service contracts available after warranty expires. Inquire for pricing.

Lead Time:

16 - 20 weeks from time of deposit.

Selling success.

We take pride in the machinery and services we offer our clients. Our approach is simple. Through providing modern, reliable, and efficient machinery alongside excellent customer service and consulting, we provide our clients with the knowledge and expertise they need to be successful in the industry.

We work closely with every client and ensure that their operation is set up to encourage profit, eliminate downtime, and grow into the future.

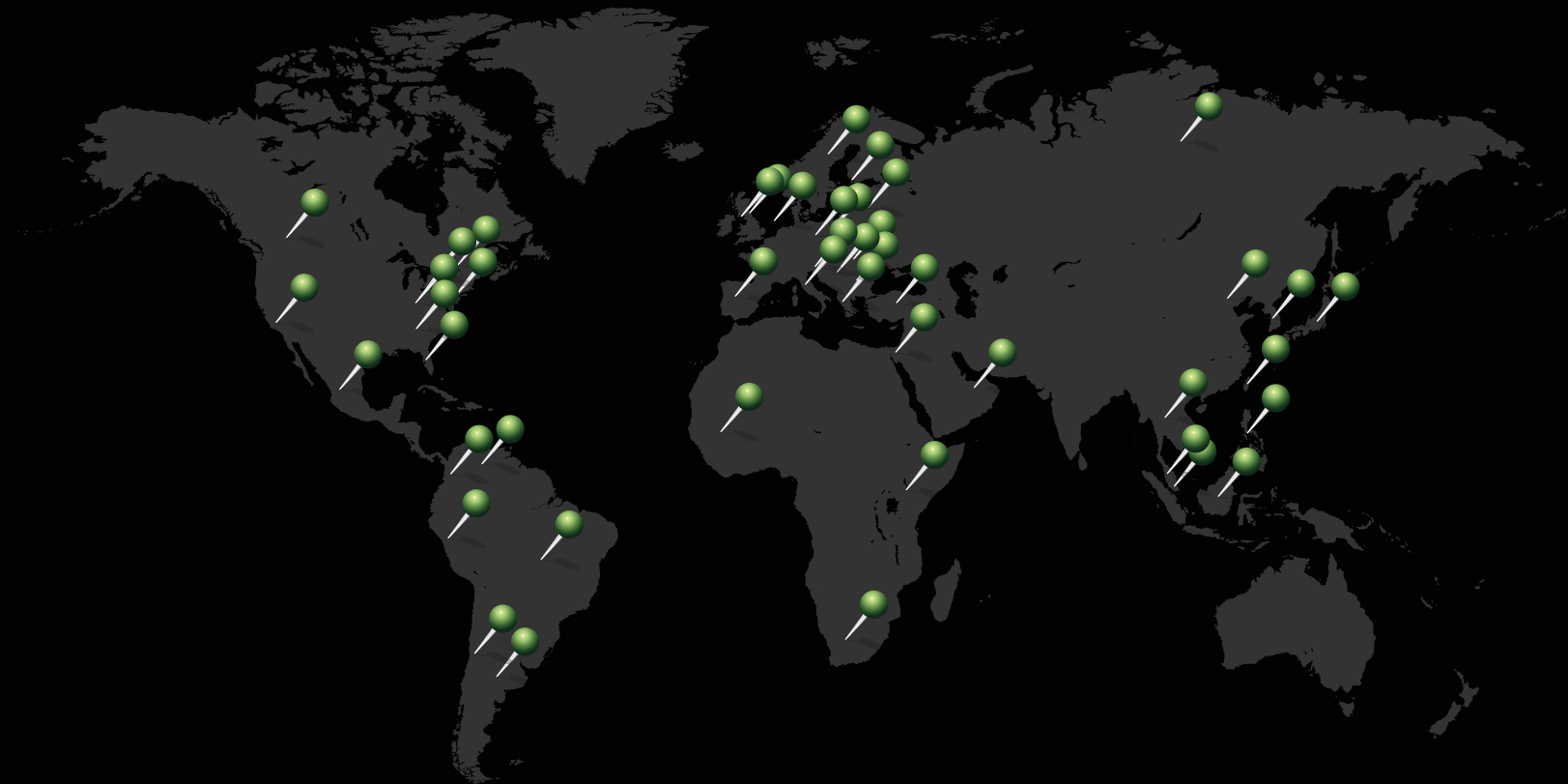
Hand Drawn Pressing - Dallas, Texas

(Photo: Hoyoung Lee)

World Class Service.

Viryl Technologies offers worldwide service coverage for all WarmTone machines. Our service staff offers technician support at most locations across North America, South America, Europe, Africa and Asia. Let us worry about *your machinery*, while you worry about *making money*.

Below is a chart of our service technician locations across the world.



Specifications.

Infrastructure Specifications:

- **Boiler:** 20 HP per press @ 150 psi
- **Steam:** 1.5 kgs/per cycle @ 150psi
- **Chiller:** 20 T per press @ 150 psi
- **Cooling Water:** 30 litres/per cycle @ 150psi
- **Air Compressor:** 10 CFM per press @ 120 psi
- **Airline Dryer:** 10 CFM per press @ 120 psi
- **Chilled Reservoir:** Fiberglass construction
- **Process Pump:** 25 GPM per press @ 150psi

Production Estimates:

- PVC Compound: **\$1.10/per pound**
- Gas, Electricity, Water: **\$0.07/per record**
- Stamper Production (2 Step): **\$225/per pair**
- Lacquer Production: **\$450/per job**

Site Specifications:

- 1000 square feet per press
- 5 psi natural gas line
- **3 Phase @ 60Hz, 600V | Canada**
- **3 Phase @ 60Hz, 480V | United States**
- **3 Phase @ 50Hz, 400V | Europe**
- **3 Phase @ 50Hz, 380V | Asia**
- Frequency: 50/60 Hz

Electrical panels are custom outfitted for regional electrical specifications.

Schematics:

- Full plant design and floor layout
- Infrastructure layout
- Plant calculations
- Data Sheets
- P&ID

WarmTone Specifications:

- **Extruder:** Quick-Change Resin, 2" feedscrew, bi-metallic barrel
- **Hopper:** 80 pound capacity, Quick-release colour changer, Vacuum compatible
- **Hydraulic Press:** 150 tonnes, 4 post, proportional valving, Quick-change stampers
- **Autonomous Trimmer & Stacking Unit:** dual spindle system, transport arm, fully-automated
- **Stock PLC:** Automation Direct Productivity 2000
- **Alternate PLC Options:** Siemens, Allen Bradley, etc.
- **HMI Touch Screen:** Siemens TP900 Comfort
- **Electrical Consumption:** 45 kVA per press



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Patents Pending.