

Pre-Recorded Replication

VDL ODMS Dex *plus*



PROVEN TECHNOLOGIES FOR HIGHLY RELIABLE DVD REPLICATION

PRE-RECORDED REPLICATION DEMANDS HIGH PERFORMANCE.

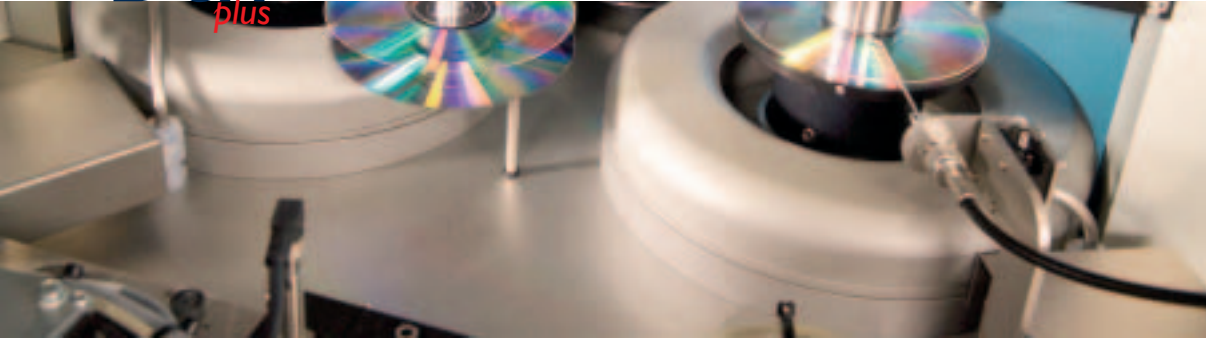
WE'VE APPROACHED THE CHALLENGE OF MATURE PRE-RECORDED DVD MARKETS

BY BRINGING TOGETHER OUR EXPERIENCE OF HIGH CAPACITY RECORDABLE

PRODUCTION AND OUR UNIQUE PROCESS CONTROL KNOW-HOW.

Strength through co-operation





The result is the Dex_{plus}, the HD-DVD ready system, based on the same future-proof platform and high-speed handling systems as the Profi,VDL ODMS' recordable platform. It supports best-in-class cycle times and 'parallel processing', separating substrate supply from the process modules. Parallel processing for the Dex_{plus} results in the possibility of integrating additional process modules to anticipate future cycle time reductions.

The Dex_{plus} delivers an extra high performance that results directly from stable processes and our SmartControl, automated process control.

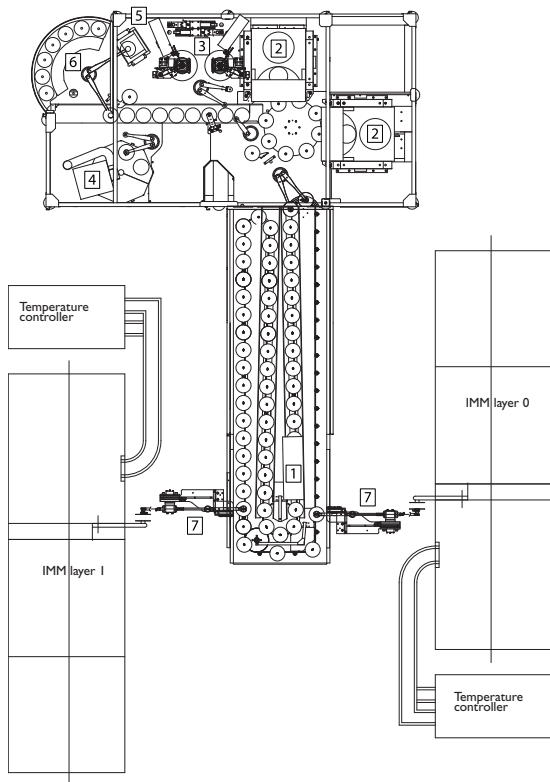
With SmartControl for metallizing and bonding, the Dex_{plus} offers more process automation than any other line, simplifying production by automatically monitoring and adjusting layer uniformity and thickness. All that's left is to enjoy the very high yields and reduced costs that SmartControl ensures. As you discover more about our pre-recorded replication systems, you'll find them full of valuable features like these.

You may be surprised to learn that the Dex_{plus} has a CD option; and you'll probably have realized it's already prepared for faster cycle times, because VDL ODMS builds for the future. Our goal is to be a complete partner with equipment, process know-how and support.

KEEP YOUR BUSINESS GOING FROM STRENGTH TO STRENGTH

DEX_{plus} FEATURES

- <2.0 sec cycle time
- Parallel processing; possibility for additional process modules
- Nova: industry proven metallizer
- Double gap dispense bonding unit
- UV Direct homogeneous curing
- Self-centring substrate handlers for optimal yield and uptime
- Disc traceability enabling trend monitoring per process step
- SmartControl for metallizing and bonding
- CD option with twin order control
- HD-DVD ready
- Windtunnel technology for low cycle time substrate conditioning



1. Substrate conditioning unit:
 - Integrated airconditioning unit for complete system
2. Nova metallizer:
 - Silicon/Silver alloy
 - Aluminium
3. Double gap dispense bonding unit
4. UV Direct curing
5. Dr. Schenk final scanner
6. Spindle off-loading:
 - 7 spindle output
 - Disc traceability for allocation per spindle
7. Interface for all injection moulders

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NOVA METALLIZER

- High uniformity
- Highly efficient target design
- <1 sec process time



SMART CONTROL

- Closed loop control for both metallizing and bonding
- Controlling layer thickness and uniformity
- Increase in yield and uptime, resulting in lowest cost per disc



GAP DISPENSE BONDING TECHNOLOGY

- Excellent layer uniformity and bubblefree bonding
- 2 gap dispense bonding units
- All bonding steps in same bowl resulting in excellent process stability



UV DIRECT CURING

- Patented UV Direct curing
- Homogeneous UV profile
- Low heatload on disc
- Excellent edge curing



SUBSTRATE CONDITIONING

- Optimized for low cycle times
- Windtunnel technology
- Substrate autolock

