

D&R PACKAGING



**Product Handling
& Automation
Equipment**

Custom Automation Specialists

913-722-6664

www.dandrpackaging.com

D&R PACKAGING

Full-Service Customization and Integration

D&R Packaging specializes in the unorthodox. For nearly three decades, we have applied our unique product handling expertise to engineer simple solutions for complex manufacturing dilemmas across a diverse range of products and industries. If you have a project that others cannot, or simply will not solve, D&R is here to offer its innovative automation services. We maintain a vast catalog of standard machinery which, after detailed consultations, we adjust to meet your specific needs. We are always open and willing to create something new to add to our repertoire. Whether it's a custom one-off machine, or turnkey installation of an entire packaging line, D&R's core values of excellence in engineering, fabrication, and service will provide the necessary solution to keep your manufacturing processes productive and efficient for many years to come.



Centrally located in suburban Kansas City, D&R's experienced engineers and service technicians are only a phone call and short journey away. You will always speak directly with an individual involved in the fabrication of your machine.

Co-Owners:
Clif Derks & Greg Russell

D&R Packaging

Custom Automation Specialists

Engineering Sales Contacts:
clif@dandrpackaging.com
greg@dandrpackaging.com
ryan@dandrpackaging.com

Tabletop Chain Conveyors

Tight Radius Tabletop Chain Conveyor
Turning discs reduce friction
Side Transfer on /off



Portable stainless steel side-flexing
conveyor with controls



Portable stainless steel covered washdown
side-flexing conveyor with controls



Portable, with
Induction Sealer

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Mattop Chain Conveyors

Mattop Helical Incline Conveyor
Custom Fit underneath VFFS
bagger
Rigid Stainless Steel portable base
Height Adjustable Infeed/Discharge
Variable Speed Controls



Portable stainless steel side-
flexing conveyor with controls
Rigid Stainless Steel portable
base
Adjustable Guide Rails
Variable Speed Controls



Rubber Molded Incline
Conveyor
Low Profile Infeed



Explosion-proof operator
fill stations with
pneumatic blade-stops



Custom Designed Equipment for Special Applications

Metal Component Decoration
Machine
Part Recognition
High Res Ink Jet Print
UV Activation
Pick & Place
Drying Conveyor



Blow Molded Plastic Parts
Finishing Machine
Multiple Work Stations
Trim Fixture
Two Drills
High Speed Pneumatic Router
Label Application
Scrap Removal



Parts Assembly Machine
Sorted, Orientated, Dispensed
Components Combined into
one Finished Assembly

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Accumulation Conveyors & Turntables



Serpentine Accumulation Conveyor
FIFO 100' of accumulation buffer
Bottle Orientation Maintained through out
(1) Drive, no conveyor transfers
Open sanitary design
Full washdown
No return track to accumulate debris



Bi-Flow Accumulation
Tables and Line Feeders
As small as 6 square feet
Automatic shut off gates
Reverse Flow
Portable Line Feeders
Multiple discharges



Pharma grade precision built turntables
Double Reduction Gearboxes
Laser cut top plates
Extremely precise rotation tolerances
Bottle transfers as small as 5ml
Tray Loading / Unload Stations, sweep
mechanisms, radial transfer plates, static and
dynamic anti-jamb devices, AC or DC drive
stainless steel or mild steel frames



Spacing Wheels and Belts
Tool Less Adjustment
Compact and Robust
High Torque
Adapts to most conveyors



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Weigh Scale Applications

In-motion checkweighing
Conveyorized Scales
Product Reject Mechanisms
Fill Stations



Two Strand Chain Conveyor
Barcode validation application
Caustic/Corrosive Environment
Remove-able Conveyor

Mattop Chain Conveyor
Washdown Case Ready
Nema 4X Controls
Remove-able Conveyor

Rough Top Belt Conveyor
Bagging Application
Nema 7 XP Controls



Scaled Packing Station
Wash down duty IP69
Target Weight Indicator
Counting Functions and
Product Memory Capable
Palm-Switch Pneumatic
Lid Press
Pharma Grade 316
Washdown

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Automatic Label Application Systems

Multi-Head Clamshell Closure System
Dual lane infeed from existing conveyor
Folds and snaps close clamshells
Closure labels applied
Rotates clamshells 90 degrees
Applies three-panel wrap over clamshell

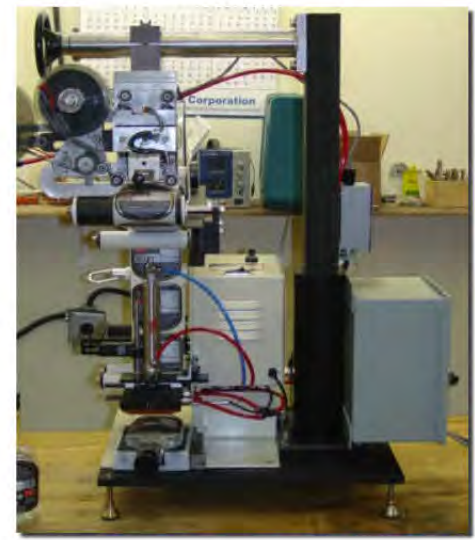


Front Back System
Corner Wrap Print Apply
5' overall length
Boxes enter for leading edge right
Boxes reverse for trailing edge left
docking stations for easy service
7-10 product per minute

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Ultra-Precise Multi-Label System
 PLC based system
 Dual palm switches for safety
 Custom spring loaded cartridge jig
 Precise position linear slide
 Deboss coder
 +/- .005" label placement accuracy



Semi-Automatic Label Application Systems

Starwheel Wrap System
 PLC Based
 Stepper driven starwheel
 360 degree wrap
 Change parts for different diameters
 60 + product per minute



Variable Stroke Tamp System
 Same label applied to both bottle & box
 Custom fixture holds bottle / box in same plane
 Foot switch activated
 Portable to move to different production lines
 Hot Stamp



Servo Driven Ink Jet System
 Product ID of Cryogenic Freezer Racks
 Dual Palm Switch

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Roller Deck Weigh Scale Applications



Live Roller Conveyor
Pop-Up Product Stop
Over / Under Reject
Leveling Feet



Custom Stand
and Indicator
Mount for Weigh
Tronix Scale
Accompanying
Product Reject
Mechanism



Portable Scale
Controller Stand



Roller Conveyor
Pallet & Crates
Leveling Feet

Barcode Validation System

Verify Either 1D or 2D Barcodes
Single or Dual Scanner Systems

Confirm that your product has the correct labeling on each container by "Barcode Validation". This system checks each container for barcode presence, correct matching barcode, and that each barcode is scannable.

The PLC controlled system comes standard with two different modes of operation. "Rejector Control" includes adjustable reject delay and reject duration timers along with a built in shift register to control a down stream rejection station. "Reject Lockout" which initiates a holding circuit until the system is manually reset.

The color touch screen displays counts of "Good" and "Reject" products as well as all controls for, Mode of Operation, adjustable timers, barcode teach, and system tests. The HMI will display what type of failure has been detected.



* Some optional equipment pictured

Standard Features

- PLC controller
- Four color touch screen HMI
- Raster scanner
- Photo-eye product trigger
- One of the smallest scanners commercially available
- Multi color annunciator light
- Audible alarm
- NEMA 12 enclosure
- Displayed counters for "Good" and "Reject" products
- HMI with built-in password
- HMI accessible controls for all timers and modes of operation



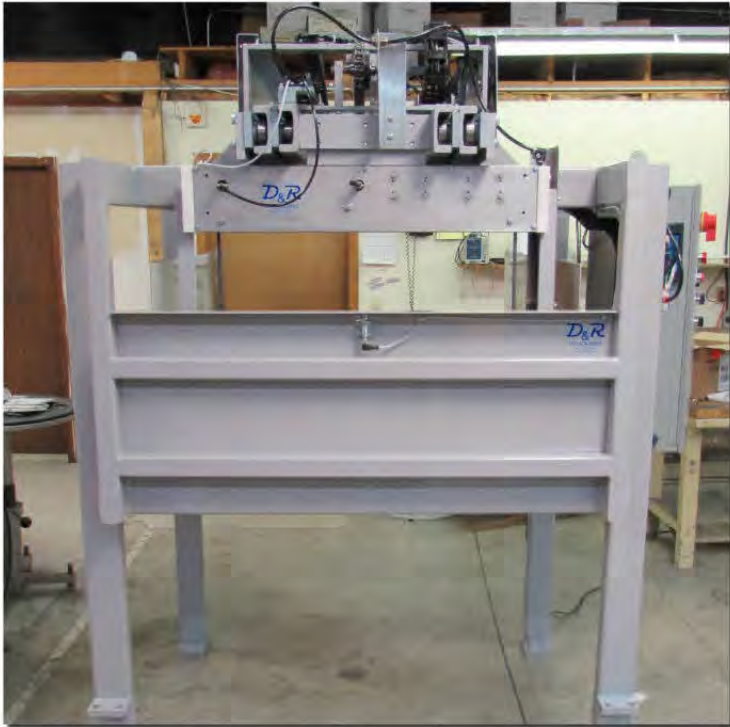
Green : Running Condition
Yellow: Teach Mode
Red: Error Condition

Options:
NEMA 4X stainless steel enclosure
Reject verification photo eye
2D Barcode scanner
Second Barcode scanner

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Engineered Solutions For Challenging Projects



Custom Pallet Tie Sheet Placer
6'6" Stroke Length
Slip Sheet Detect Sensor
Designed to Integrate with Existing Cartesian Palletizer
Fast Cycle Time



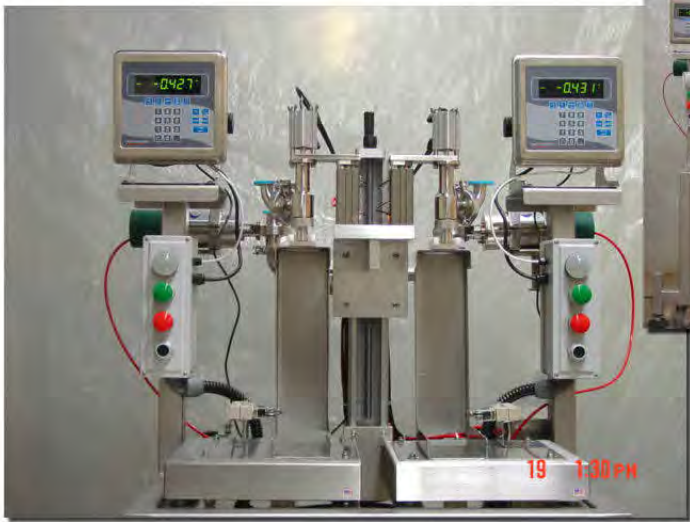
Label Repositioning Machine
Label and RFID Tag
Repositioner
Vacuum Belt Merge
Label Counter
Label Stock Rewind



Tube Labeling System
OCR Inspection
Tube Orientation
Print and Apply Label
Label Wrap on Heat Seal
OCR Vision System with Reject

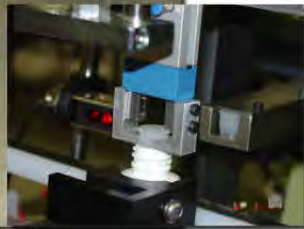
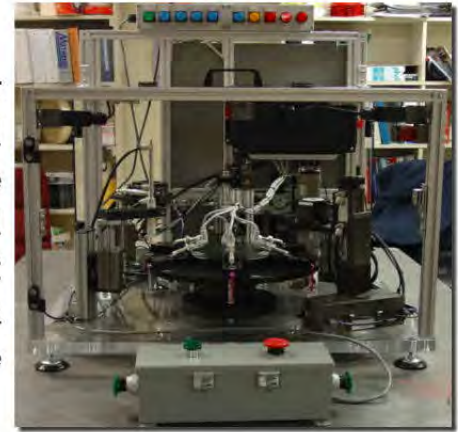
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Unique Filling and Capping Machines



Twin Head net-weigh filling system
No drip diving nozzles
Fail Safe auto closing supply valves
No Bottle No Fill
Utilizing Zero-Point set point control
Bottle neck locator
Nema 4X washdown rated.

Ink Cartridge Recycler
Stopper Removal
Vacuum Purge
Metered Piston Fill
Stopper Placement
Stopper Insertion
No Cartridge No Cycle



Hazardous Liquid Chemical Filler
Bottle Sorter Feeder
Peristaltic Metering Pump Fill with
continuous circulation
Plug Sorter
Plug Inserter
Cap Sorter/Placer
Semi Automatic Cap Chuck Torquer

Custom Electrical Panel Fabrication



Custom Truck Scale Kiosk
Nema 4X enclosure
Internal Heat Control
Internal Humidity Control
Fully Insulated
Thermal Ticket Printer
Magnetic Card Reader
Short Leadtime

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Retracting NoseBar Conveyors

Pharmaceutical Grade
Polished Stainless Steel
Retracting Conveyor deposits
product at a right angle
Pivoting Nosebar



Finger spliced endless belt
Bed raises for cleaning
Cantilever rollers allow tool-less
belt changes
Easily remove-able guards to
access drive assembly



A Different Approach

Project Qualification Analysis

D & R Packaging uses practical knowledge and experience when solving automation problems. We employ a pragmatic approach to identify the key challenges prior to developing an automation solution. We work with our customers as if we are wearing their shoes to create the best solutions for their needs. Reducing labor, increasing productivity, decreasing downtime, and eliminating risks are all possible reasons for an automation project, but the bottom line is typically the driving force for a project, return on investment being the key to your success. After all, as business owners, we look at these projects through your eyes because we face the same challenges every day in our business. We will approach your project in the same analytical manner we make rational spending decisions here in our own offices and shop.

Consultation Services

D & R Packaging offers on-site engineering consultation to evaluate your existing production environment. We develop a comprehensive solution to address the existing process, and help you improve your business through automation.

Turnkey Project Management Services

When your equipment arrives on skids, in crates and unmarked boxes, D & R Packaging is there to take complete control of the project. Turnkey services include: system layout, FAT, integration with existing equipment and processes, mechanical and electrical installation, field wiring, sub-contractor management, field technician logistical management, system start-up, SAT, operator training, and complete as built drawings, detailed schematics, BOM, parts lists and comprehensive manuals. We offer management services from idea to complete implementation.

**Contact D & R Packaging
today to discuss your automation project!**

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