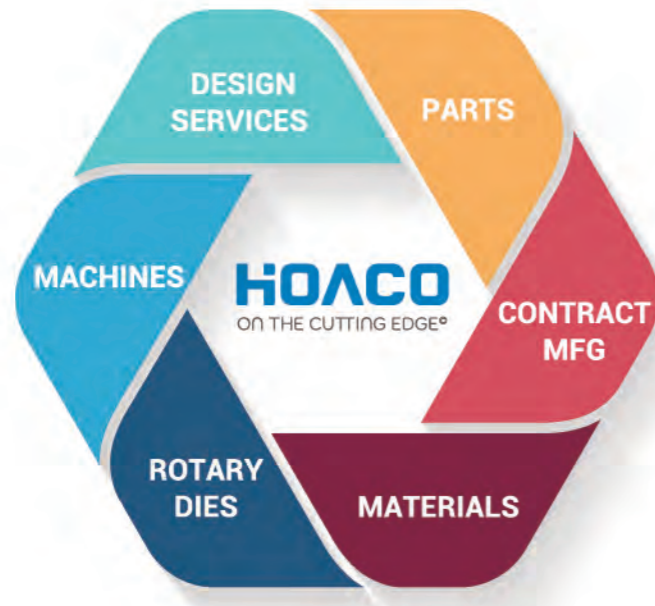
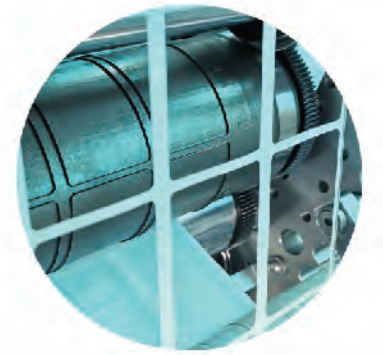




www.hoacoat.com

HOACO
ON THE CUTTING EDGE®



ROTARY | FLATBED
LASER | INTEGRATED
CUTTING MACHINES

PRINTING | PACKAGING
INSPECTION | CUSTOMIZED
SPECIALTY MACHINES

Shandong HOACO Automation Technology Co. Ltd (CHINA HQ)

Address: Gaoer Road, Yingqian Street, High-Tech District, Weifang, Shandong, China 261061

Phone: +86-13356770229 Email: contact@hoacoat.com

HOACO Automation Global Pte Ltd (SINGAPORE IHQ)

Address: 32 Bukit Batok St 21, #11-12, Singapore 659637

Phone: +65-81267312 Email: terence.sun@hoacoat.com

HOACO Automation Technology BV (NETHERLANDS)

Address: De Werf 11, 2544 EH Den Haag, The Netherlands

Phone: +31-628349466 Email: shawn.li@hoacoat.com

HOACO Automation Technology LLC (AMERICA)

Address: 4215 South Main Street #56, Stafford, TX 77477, USA

Phone: +1-4245418788 Email: tony.tong@hoacoat.com

HOACO Korea Co., Ltd. (SOUTH KOREA)

Address: 110 Ace Tower 2nd 91, Changnyong-daero 256beon-gil, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea 16229

Phone: +82-1039513843 Email: hoacokorea@hoaco.co.kr



YOUR ONE-STOP CONVERTING SOLUTIONS PROVIDER

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ABOUT US

Established in 2004, HOACO has become a prominent global player in the fields of precision rotary die cutting, laser cutting, flatbed die cutting, web converting, printing and packaging solutions provider, serving manufacturing customers with excellence in diverse verticals including electronics, RFID, labels & printing, automobile, medical & cosmetics, and clean energy.

HOACO's flagship multi-stations RDC (Rotary Die Cutting) machines offer unparalleled precision, speed, and up to 32 RDC stations in a single machine. Our deep expertise in RDC technology has allowed us to develop fully integrated RDC + Laser cutting, Flatbed cutting, Pick-n-Place, Printing and Packaging machines to enhance our competencies and provide customers with optimized custom solutions.

In addition to automation equipment, HOACO is a true one-stop shop for all your converting needs, providing precision components and accessories, process tapes and materials, process design and prototyping services. We also have our own rotary tooling factories to fabricate quality rotary dies and magnetic cylinders in-house.

Today, HOACO is the unrivaled top supplier of RDC machines domestically in China, with global customers in 30+ countries. By combining cutting-edge technologies with 20 years of web converting experience, we are dedicated to meeting the particular requirements of every industry and refining our solutions to meet the demands of individual customers. The largest brands in the converting sector rely on our machines because they have a track record of high precision, process capability, reliability, safety and ease-of-use. Our goal is to provide our clients with the best converting automation systems and services at the best value.

VISION

To empower our customers to convert the unimaginable, precisely.

MISSION

To make machine cutting more intelligent and deliver innovative web converting solutions that solve our customers' most demanding challenges.

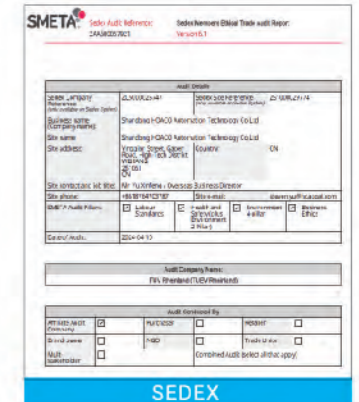
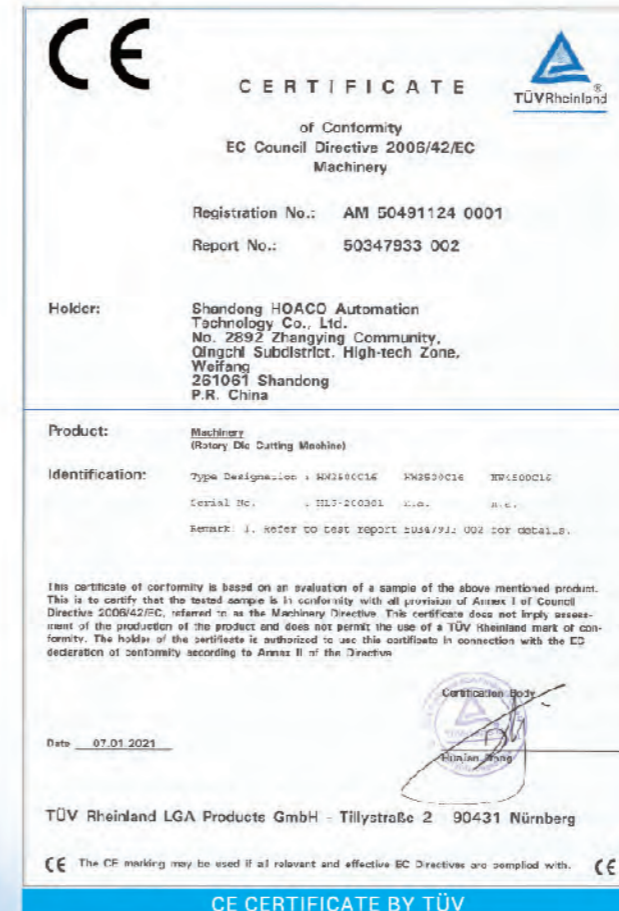
 **2004**
Established

 **200+**
Employees















 **40K SQM**
Factory Space

 **7 Locations**
Globally

CERTIFICATIONS & HONORS



HISTORY OF INNOVATION AND GROWTH

<p>2004 Developed first RDC machine, Company Founded</p>		<p>2016 Invented satellite-type RDC machine with ultra-high precision up to $\pm 0.05\text{mm}$ CCD vision system</p>	
<p>2008 Machine re-design with movable RDC stations - an industry first</p>		<p>2017 Integrated RDC + Flat screen printing Integrated RDC + Flexographic printing Heat-seal pouching machine</p>	
<p>2009 ISO9001 Quality Management</p>		<p>2018 CE certification by TÜV Roll-to-Roll inspection machine Sheet-to-Sheet inspection machine Sheet-to-Roll lamination machine Specialty RFID labels converting machine</p>	
<p>2010 Invented industry-first thermal graphite manufacturing process on an RDC machine</p>		<p>2011 Invented ground-breaking RDC process for screen frame adhesives, achieving more than 80% material saving</p>	
<p>2012 Sales milestone of 1000 RDC stations. Company HQ relocated to Weifang</p>		<p>2019 Integrated RDC + Laser cutting machine Integrated RDC + Flatbed cutting machine Integrated RDC + Pick-n-Place machine</p>	
<p>2014 Flatbed die cutting machine Lamination and Sheeting machines</p> <p>New offices and rotary tooling factory in Kunshan and Shenzhen</p>		<p>2020 Specialty machine for - Medical hydrogel consumable - Medical blood test cartridge - Hydrogen fuel cell RotoMEA - Lithium-ion batteries - RFID antenna</p>	
<p>2015 First overseas office established in Singapore (IHQ)</p>		<p>2022 HOACO America office (Houston) established</p>	

EXPERIENCE DRIVES CREATIVITY

PRODUCTS & SERVICES



YOUR ONE-STOP
CONVERTING SOLUTION
PROVIDER AND PARTNER

ROTARY DIE CUTTING MACHINES

FROM 3 TO 32 RDC STATIONS, ENDLESS POSSIBILITIES

HOACO ROTARY DIE CUTTING (RDC) MACHINES

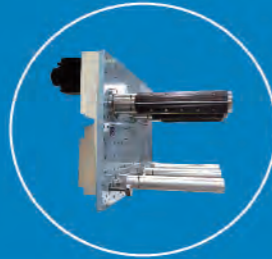
are the ultimate manufacturing solution for crafting multi-layered products with precision and efficiency. Our RDC machines seamlessly integrate die cutting, laminating, waste removal, CCD registration, and inspection into a single, streamlined process. Trusted by leading industries such as electronics, RFID, medical & cosmetics, automobile, labels, and printing, our RDC machines redefine production standards. Versatile and adaptable, they accommodate materials of varying density, thickness, and composition, ensuring tailored results for every application. Experience unparalleled performance and unlock new possibilities with HOACO RDC Machines.

HOACO RDC MACHINE BENEFIT

Featuring a modern multi-station movable design for both RDC stations and air shafts, our RDC machines offer extreme ease-of-use, adaptability, accurate registration, high precision, and exceptional repeatability. Perfectly suited for high-volume and tight-tolerance applications, our RDC machines deliver unparalleled performance to meet your toughest manufacturing challenges.



Movable RDC Station

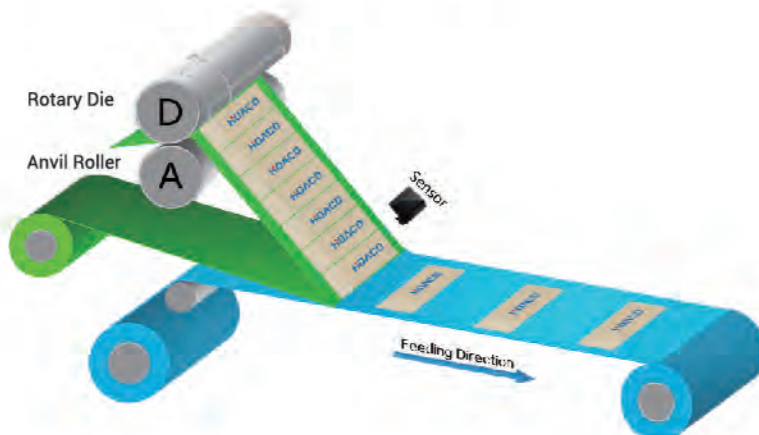


Movable Air Shaft with Automatic Tension Control



WHAT IS ROTARY DIE CUTTING ?

Rotary Die Cutting (RDC) is a precision process employing cylindrical dies that cut against a hardened anvil roller. Powered by advanced servomotors, RDC ensures precise cutting control and registration of parts, guaranteeing impeccable results. Materials are seamlessly fed from unwind shafts, undergo precise die cutting, and are either rewound or supplied as intermediary parts for subsequent processing steps. Versatile and adaptable, RDC machines effortlessly handle a wide array of materials, including plastic, rubber, paper, fabric, foam, thin metal foil, and more, catering to diverse manufacturing needs with ease.



Model (W250mm)	3-Stations	5-Stations	7-Stations	8-Stations	10-Stations	13-Stations	16-Stations	20-Stations	32-Stations
Air Shafts	5	10	14	16	20	26	32	40	64
Weight (Tons)	1.5	3	3.5	4	5	6.5	8	10	15
Rated Power (kW)	9	15	21	24	30	39	48	60	96
Length (mm)	2100	3000	3500	4100	5200	6000	7000	8200	10800
Width & Height (mm)	W1700 x H2500								
Power Supply	3-Phase 380-400V								

	Optional Functions & Accessories								
Data Saving	X	●	●	●	●	●	●	●	●
Dual Systems	X	X	X	X	●	●	●	●	●
HMI Language - English	●	●	●	●	●	●	●	●	●
Asynchronous Mode	X	●	●	●	●	●	●	●	●
Web Guide	X	●	●	●	●	●	●	●	●
Web Width up to 650mm	○	○	○	○	○	○	○	○	○
CCD Vision System	○	○	○	○	○	○	○	○	○
Safety Light Curtain	○	○	○	○	○	○	○	○	○

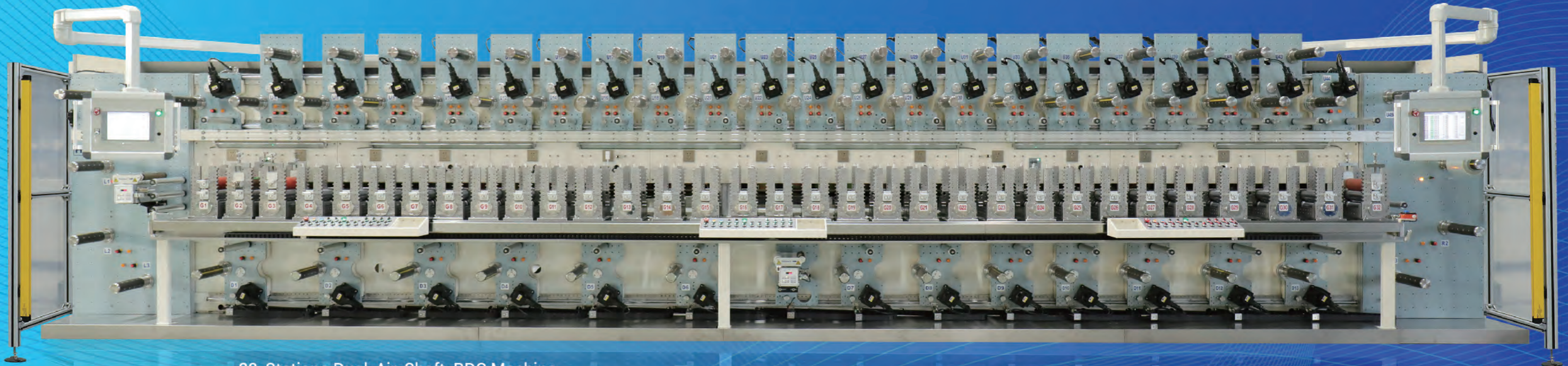
Legend: ● Default ○ Optional X Not Available

Quality Components Across All Models			
PLC Control Software	HOACO	Pneumatics	SMC, Japan
PLC Controller	Omron, Japan	Circuit Breaker	Schneider, Germany
RDC Station Servomotor	Omron, Japan	Motor Starter Protector	Siemens, Germany
Air Shaft Servomotor	Delta Electronics, Taiwan	Web Guide	BST / TechMach / Bianfu
CCD Vision System	Delta Electronics, Taiwan	Mark Sensors	Panasonic / Omron / Keyence
Safety Light Curtain	Keyence, Japan	Touchscreen	Weinview, Taiwan

Machine Performance & Capabilities	
Max Speed	60m/min
Typical Precision	±0.15mm
Typical CPK	> 1.33
Tension Control	Automatic, 1-150N
Cutter Gear Teeth	Z58-Z200
Web Width	250/350/450/550/650

RDC MACHINE SERIES BY STATIONS & WIDTH

From 3 to 32 stations and W250mm to W650mm web width, we have all the proven models to meet your toughest challenges.



32-Stations Dual-Air-Shaft RDC Machine

W250mm Series

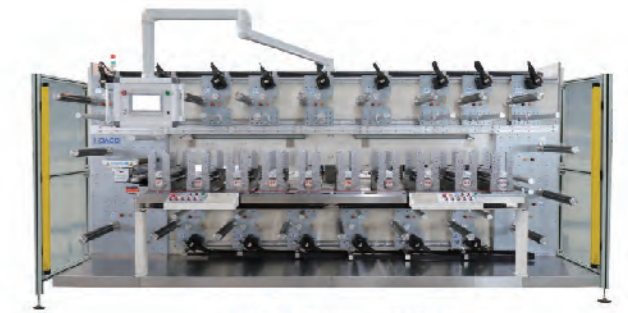
W350/450/550/650mm Wide-Web Series



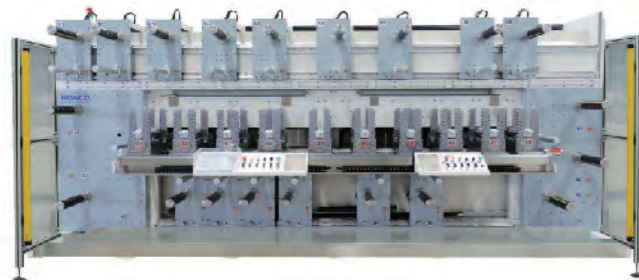
13-Stations



12-Stations W350



10-Stations W450



10-Stations



7-Stations



7-Stations W550



7-Stations W650

INTEGRATED RDC + LASER CUTTING MACHINE (RDC-LC)

Hybrid Capabilities Light-Years Ahead



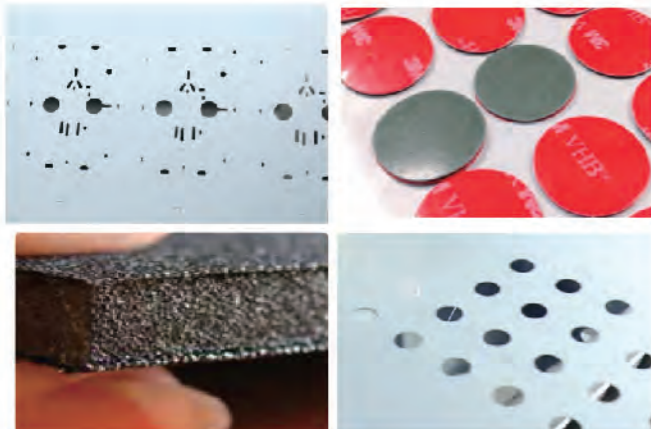
Key Features

- ▶ Hybrid capabilities offering the best of both worlds to meet your most demanding challenges
- ▶ Operates in continuous (Cut-on-the-Fly) or step mode
- ▶ Vision registration for automatic cutting correction
- ▶ Through-cut or kiss-cut capabilities
- ▶ Eliminate tooling costs and minimize changeover downtime
- ▶ Flexibility in handling complex cut geometries
- ▶ Proprietary laser control software offering customized solutions and capabilities
- ▶ Easy fume exhaust and waste removal with integrated vacuum systems
- ▶ Pre-focusing scanner for wider cutting width
- ▶ Low to high power laser generator available

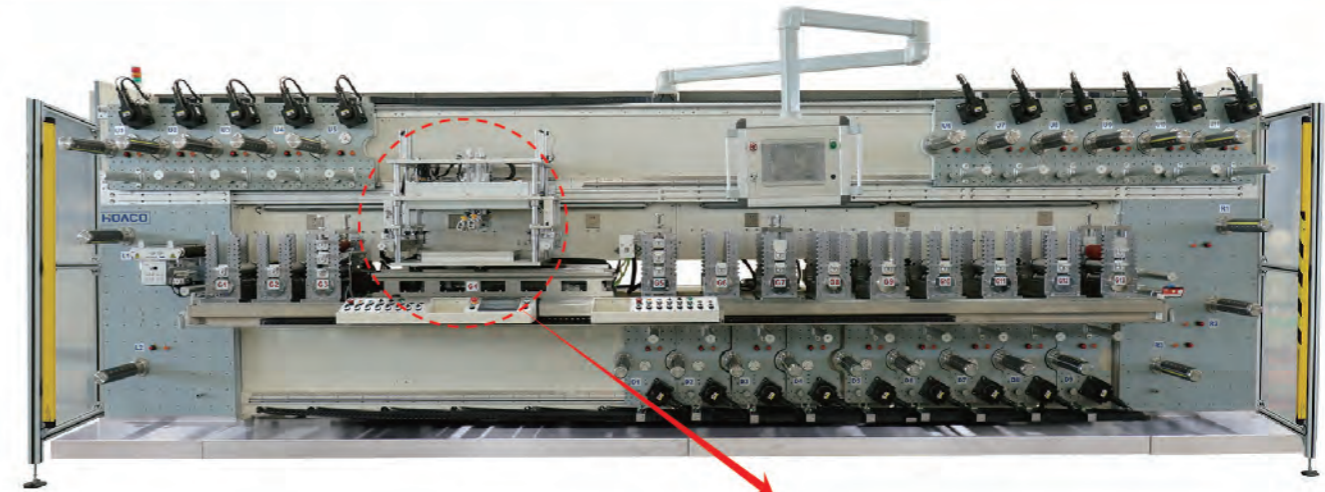
COMPARISON	RDC	LASER
Speed	✓	
Big Runs	✓	
Flexible Slug Removal	✓	
Less Upfront Cost	✓	
Less Maintenance Cost		✓
Tight Tolerance		✓
Quick Turnaround		✓
Thick or Narrow Cuts		✓
Vast Material Types		✓

Laser Cutting Station Specifications

Laser Generator	150W/250W/350W/450/650W
Scanner	3D Pre-focusing
Mirror Size [mm]	30/50
Wavelength	10.2um or 9.3um
Spot Size	0.1 - 0.2mm
Working Field	Up to 400x400mm
Generator Cooling	Water (23±1°C)
Scanner Cooling	Water (23±1°C)



INTEGRATED RDC + FLAT SCREEN PRINTING MACHINE (RDC-FSP)

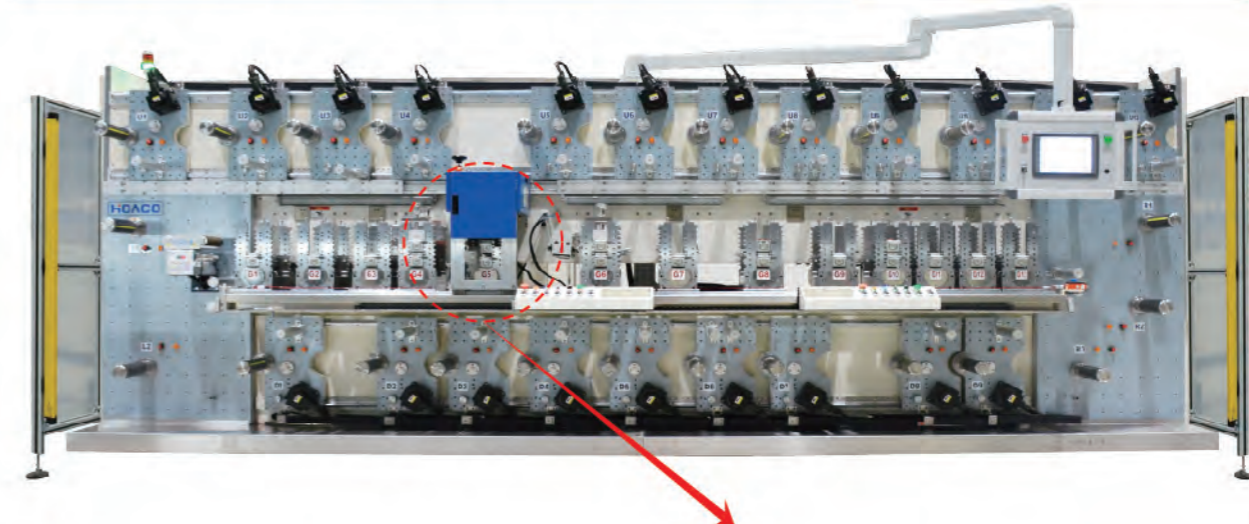


Key Features

- ▶ Continuous printing with flat screen moving in sync with the underlying substrate web
- ▶ Medium-speed throughput and precision
- ▶ Supports UV ink or Solvent ink
- ▶ Low cost of ownership and maintenance



INTEGRATED RDC + FLEXOGRAPHIC PRINTING MACHINE (RDC-FXP)

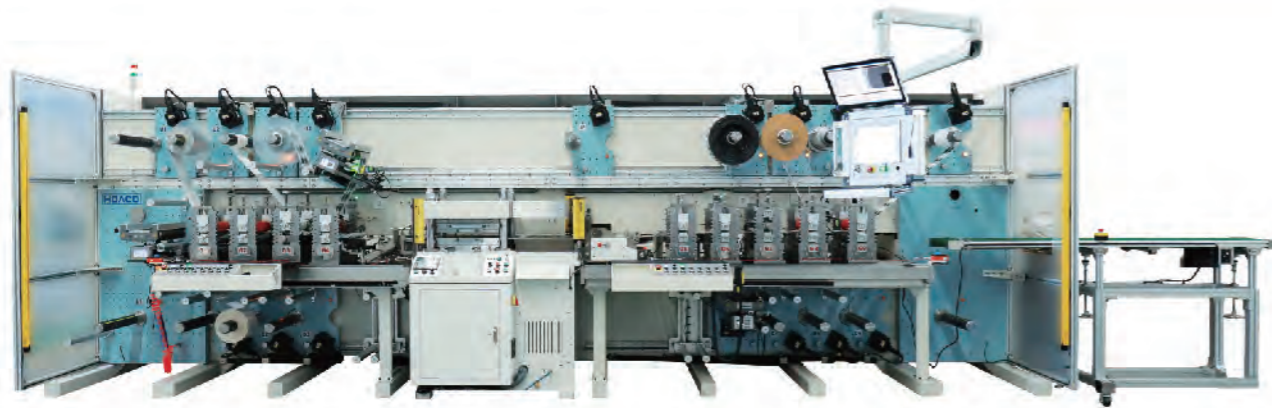


Key Features

- ▶ Continuous flexographic printing that integrates seamlessly with RDC stations
- ▶ Space-saving design - the flexo unit can be easily installed in between any two RDC stations
- ▶ Use UV ink with LED UV cure
- ▶ Lowest cost of ownership and maintenance



INTEGRATED RDC + FLATBED DIE CUTTING MACHINE (RDC-FDC)

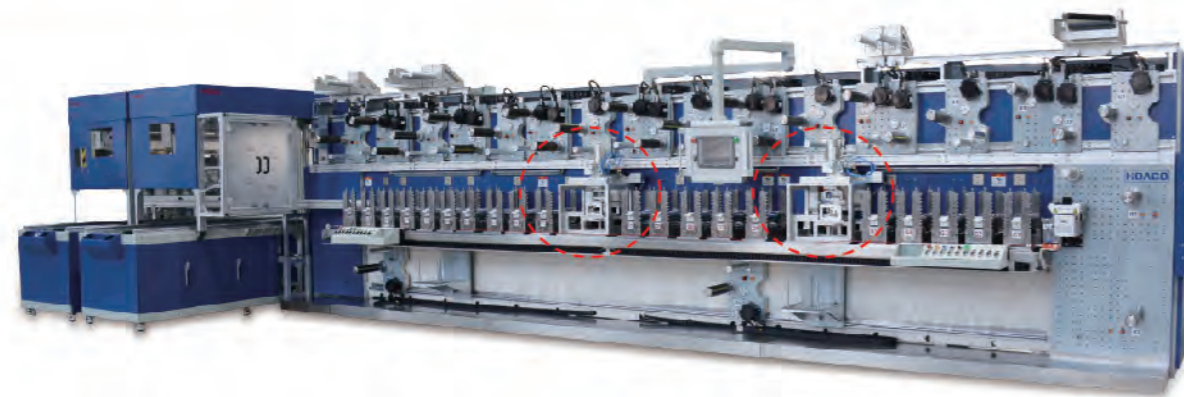


Key Features

- ▶ Offers the best of both Rotary Die Cutting and Flatbed Die Cutting in a single machine
- ▶ Web buffering system enables RDC operating in continuous mode while flatbed in step mode
- ▶ Integrated machine control
- ▶ Flexible and easy waste removal
- ▶ RDC or flatbed can operate independently when required
- ▶ Flexible and easy slug removal

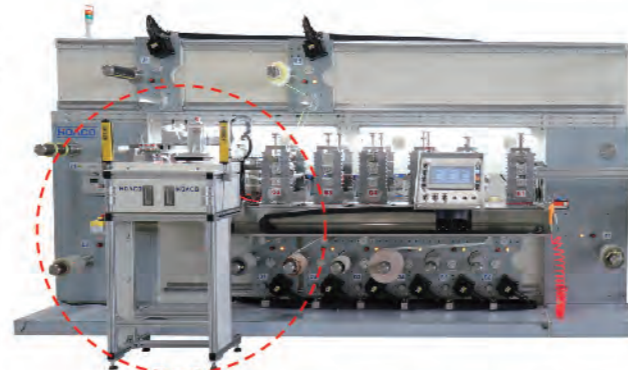
TOOLING & CUTTING	ROTARY	FLATBED
Material Thickness	Thin	Thick
Tooling Cost	High	Low
Turnaround Time	Weeks	Days
Kiss Cutting	Yes	Difficult

INTEGRATED RDC + PICK-N-PLACE MACHINE (RDC-PNP)



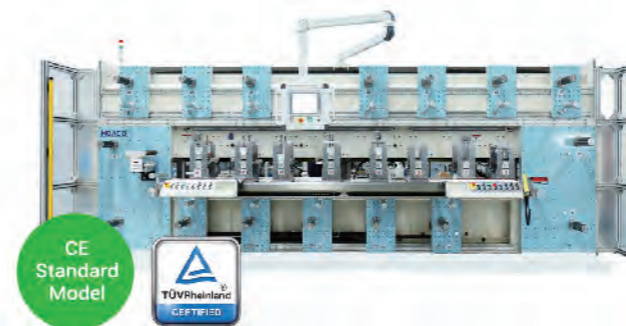
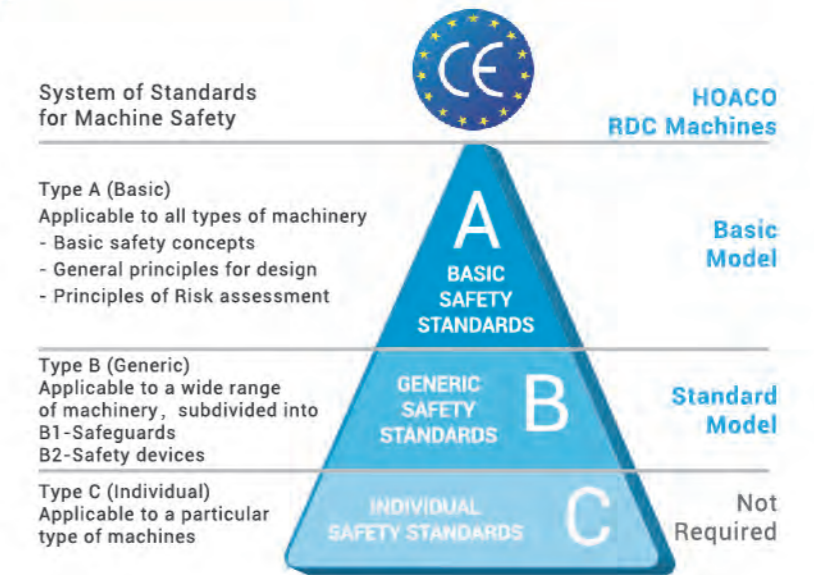
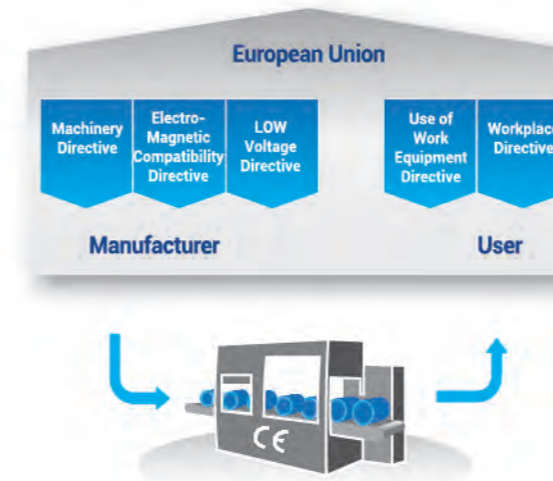
Key Features

- ▶ A pick-n-place robot works in sync with RDC stations to allow raw materials in sheets laminated and cut on RDC stations
- ▶ Choose from Robotic arm, Cartesian or Delta types with vision system
- ▶ Individual or stacked sheet placement with placeholders.
- ▶ Operates in Step mode

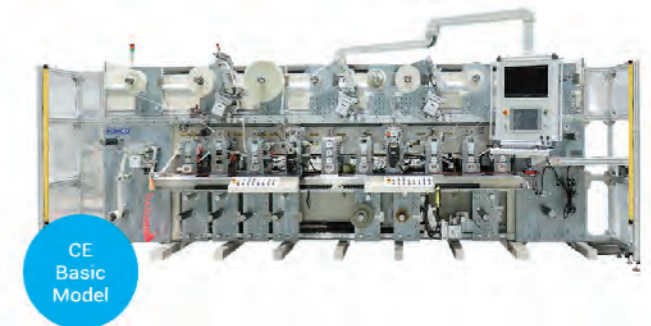


CE Certification and Models

Built-in Machine Safety for a Safe Work Environment



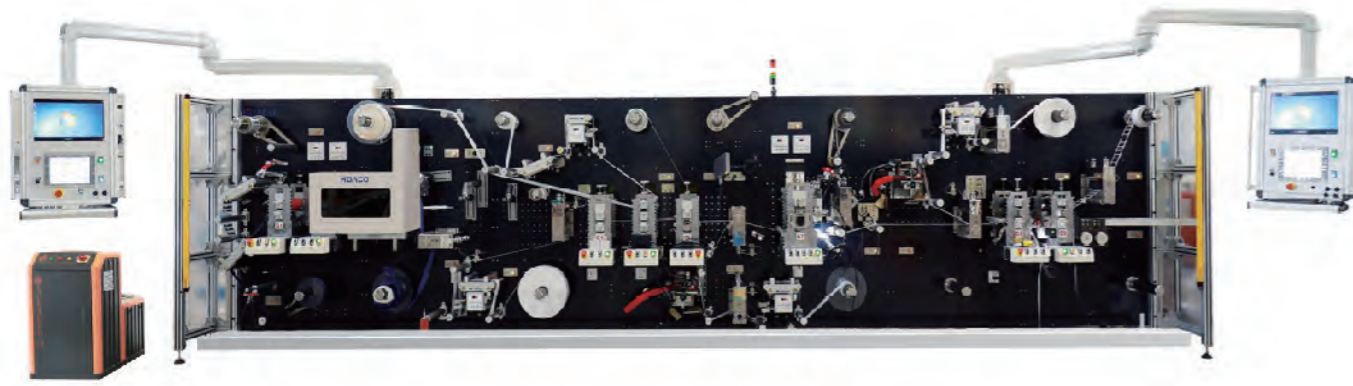
- Built with 100% CE-certified components and design
- More steps to operate but safety first
- Full compliance with CE basic and generic safety standards



- Designed for functionality and price competitiveness
- More focus on ease-of-use and productivity
- Meets CE basic safety standards

FEATURES	STANDARD MODEL	BASIC MODEL
CE Standards	Type A + B (Basic + Generic)	Type A (Basic)
Safety Controller	Standard PLC Controller + Safety PLC Controller	
Servomotor	Safety Servomotors	Only 1st RDC Station with Safety Speed Encoder
Safety Control	Independent safety control for each RDC station	Safety control follows 1st RDC station
CE Certificate	Yes (by TÜV)	Yes (by UDEM)
Precision & Functions	Same	

Purpose-Built RFID Labels Converting Machine

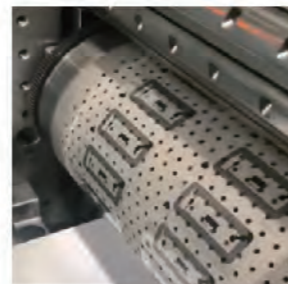


Key Features

- ▶ Purpose-built RFID lamination and converting machine for cost-effective RFID labels mass production
- ▶ Inline hotmelt adhesive coating (optional)
- ▶ Vacuum-based inlay cut-n-transfer
- ▶ Inline bad inlay reject capability
- ▶ Multiple lanes of incoming inlay support
- ▶ Folded antennas handling (optional)
- ▶ Speed: up to 60m/min
- ▶ Lamination/transfer precision: ±0.5mm



Hotmelt Adhesive Coating



Vacuum-Based Cut-n-Transfer

RFID Label Inspection Machine



- ▶ 100% quality check
- ▶ Operates in continuous or step mode
- ▶ Support all types of HF/UHF RFID readers
- ▶ Automatic machine stop upon detection of NG labels to allow manual replacement and re-test
- ▶ Cost-effective thermal printing for defective labels

Applications



Folded Inlay RFID

Check-in Luggage Tags

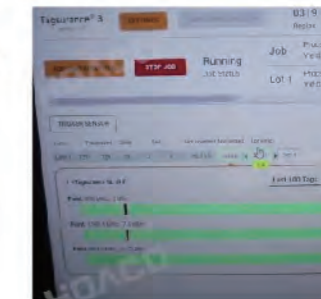
Standard RDC Machine for RFID Labels Converting



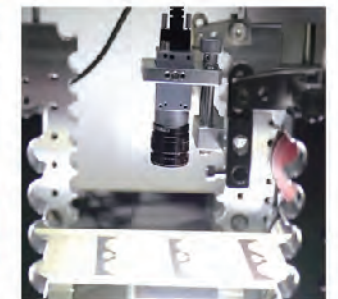
Key Features

- ▶ Standard RDC machine with enhanced features and functionalities for flexible RFID lamination and converting
- ▶ Suitable for RFIDs of complex designs
 - More than 3 layers
 - Extra compensation layer with holes
 - High precision
 - Labels with artworks / Pre-cut inlays
- ▶ High precision up to ±0.3mm
- ▶ Inline CCD vision system for visual inspection
- ▶ Inline RFID reader for functional inspection (certified integration with Voyantic Tagsurance)

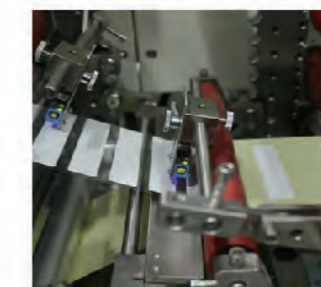
Applications



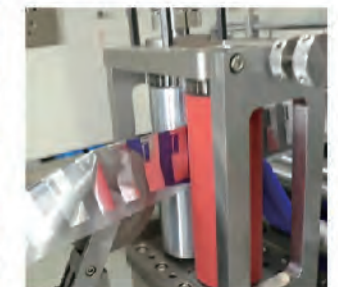
Certified Integration with Voyantic



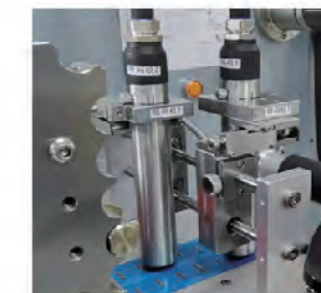
CCD Visual Inspection



Wet Inlay Island Placement



Folded Antenna

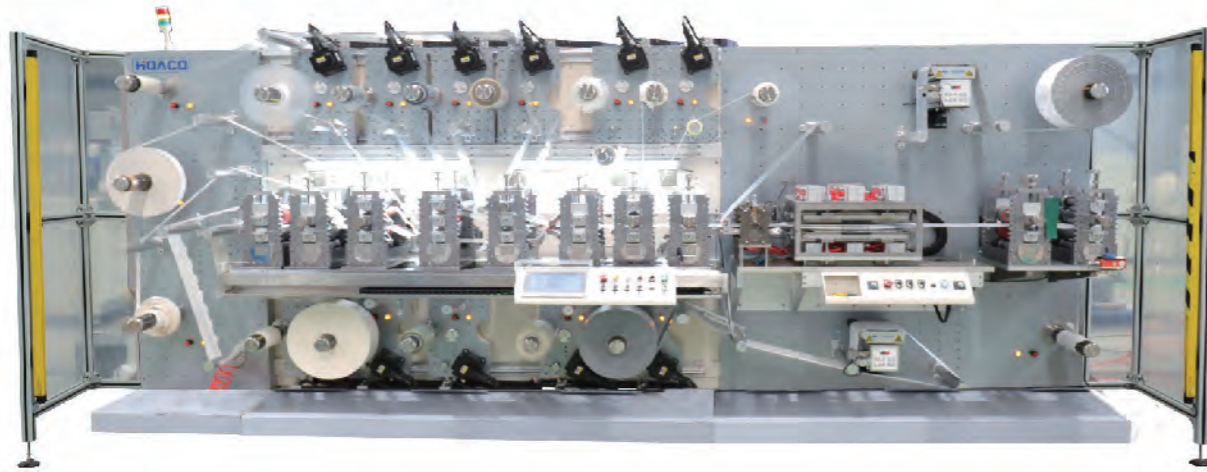


NG Blackmarking

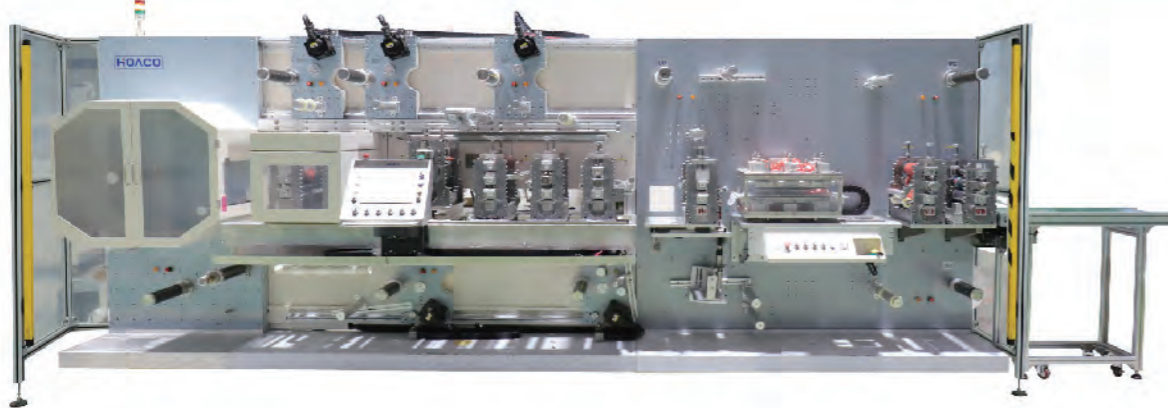


Large Roll Support (600mm)

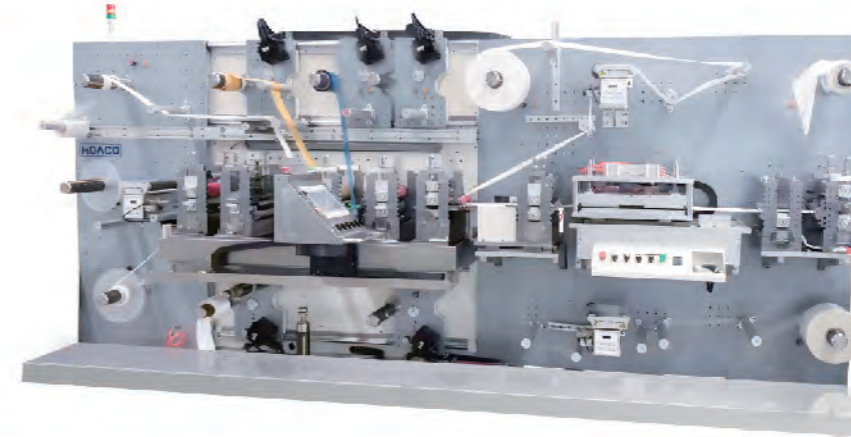
Multi-functional Medical Consumables Machine



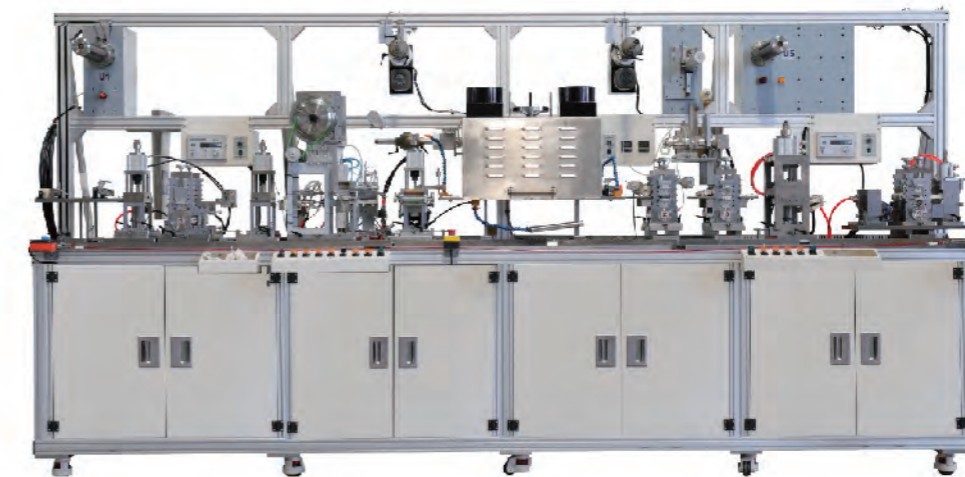
Medical Wound Dressing + Pouching Machine



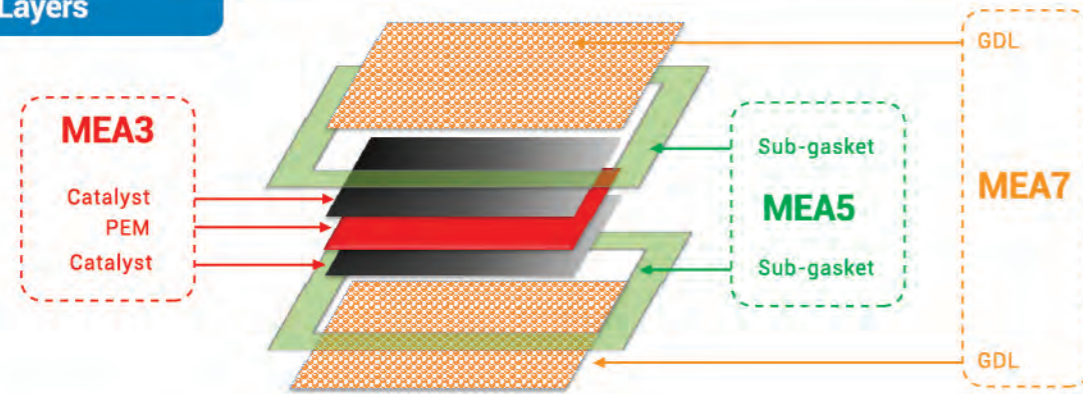
Medical I.V. Cannula Fixation Dressing + Pouching Machine



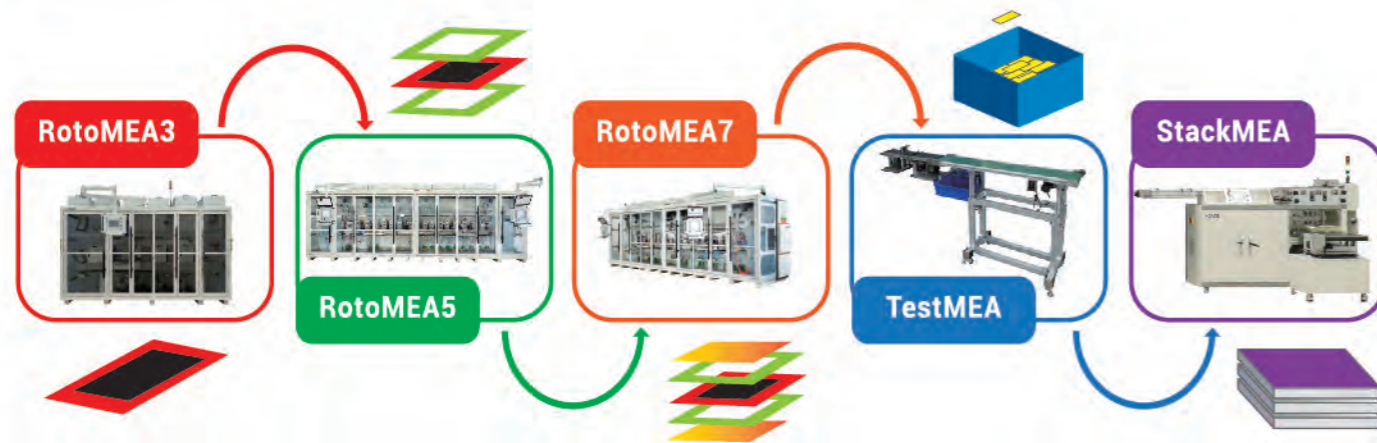
Medical ECG Electrode Flatbed Machine



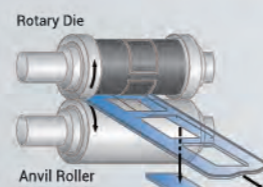
MEA Layers



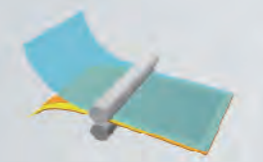
RotoMEA Automation Series



RotoMEA Advantage



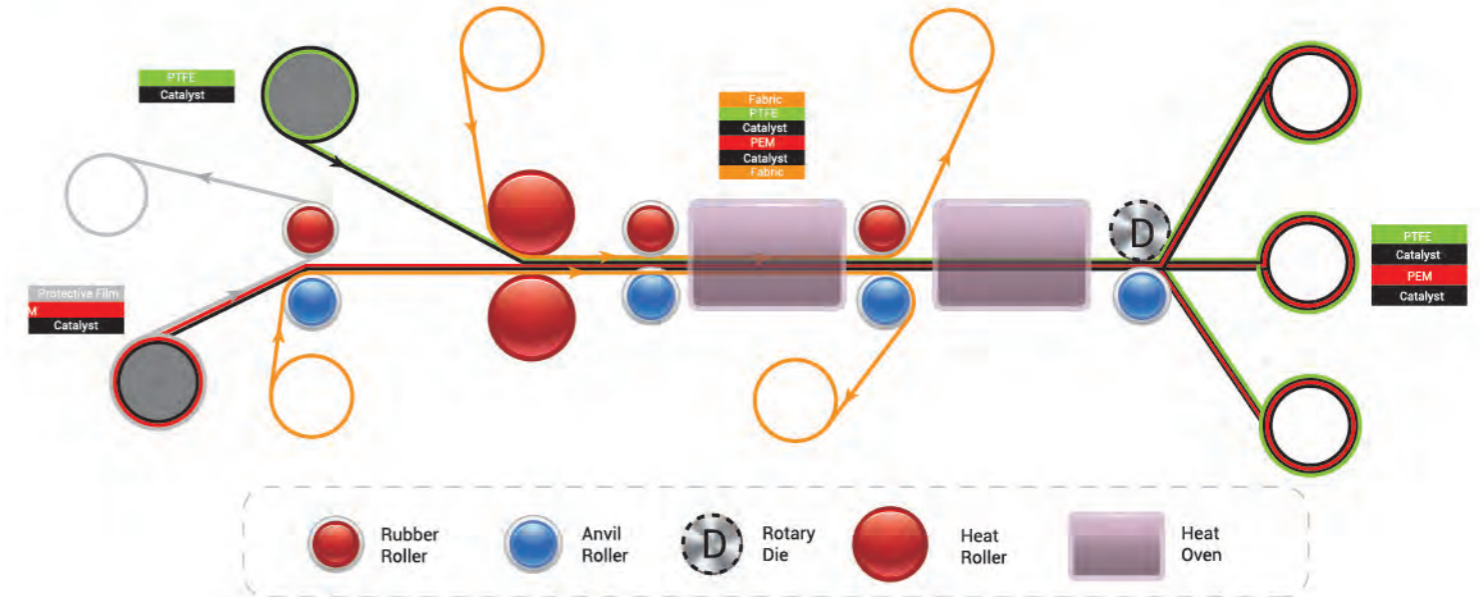
- Rotary Die Cutting**
- Multiple-layers in a single pass
 - High speed continuous cutting
 - High precision
 - Clean and smooth cut edges
 - Easy slug removal
 - High yield, material savings



- Rolling Lamination**
- Naturally Bubble-free
 - Wrinkle-free
 - Closed-loop tension control
 - Heated lamination available

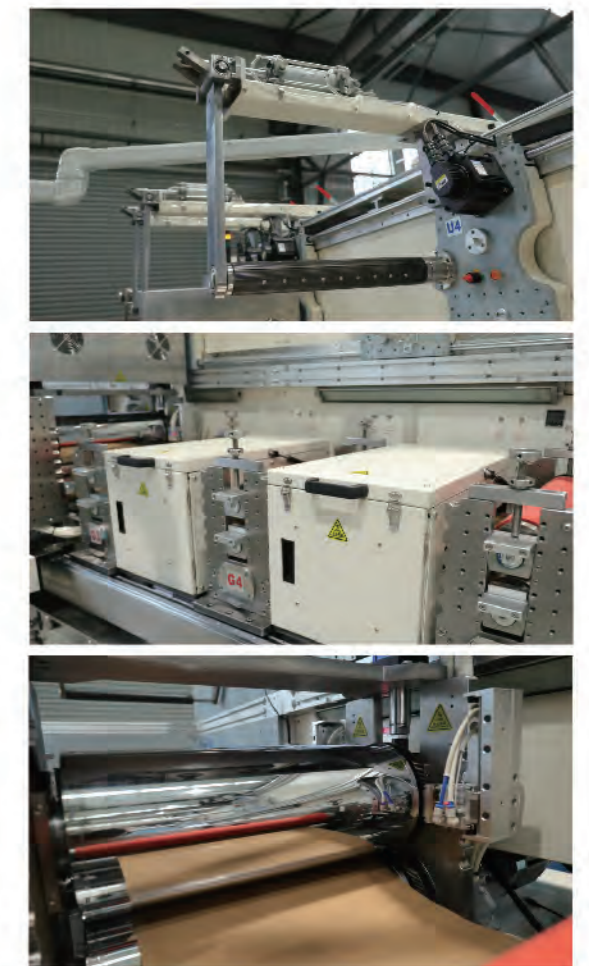
Converts two rolls of single-side-coated PTFE/PEM into a single roll of double-side-coated PEM (CCM) by heat-assisted decal transfer and lamination. Decal transfer temperature and duration can be accurately controlled to achieve optimal transfer result.

- > Web width support up to 500mm
- > Inline slitting for FG rolls



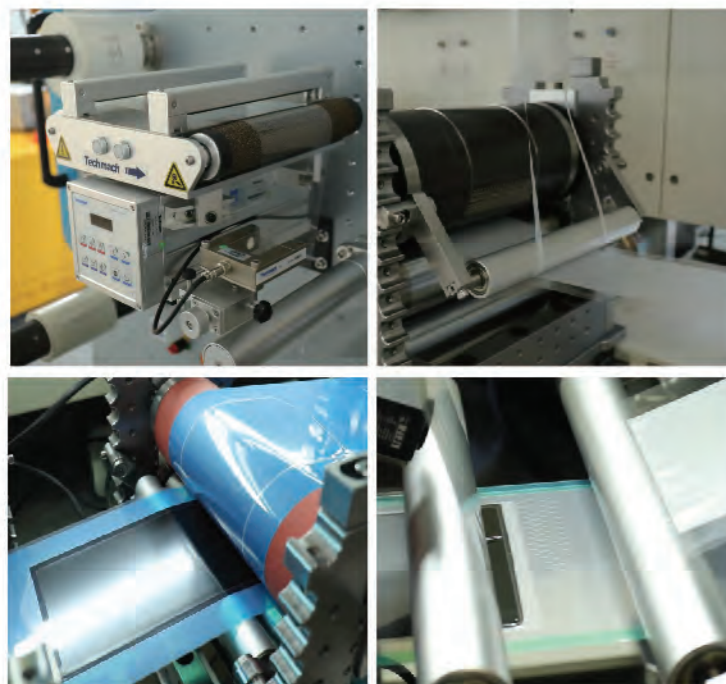
Specification

Model	RotoMEA3
Rated Power	43kW
Dimension	L4600*W2000*H2500
Speed	≤ 1m/min
Web Width	≤ 500mm
Catalyst Layer Width	≤ 400mm
Heat Roller Temperature	≤ 200±2.5°C
Heat Oven Temperature	≤ 200±5°C
Web Guide Precision	±0.5mm



Cutting and laminating top/bottom sub-gasket layers to MEA3 to produce MEA5, RotoMEA5 18-stations model can add double-layer gaskets (top and bottom), while its 26-station counterpart model can attach 4-layers (top 2 and bottom 2) - all in a single pass.

- > All incoming materials in rolls.
- > Superior sealing finish, no wrinkles/bubbles.



Specification

Model	RotoMEA5
Rated Power	63kW
Dimension	L8100*W1760*H2600
Speed	Up to 10m/min
Web Width	≤ 250mm
Heat Roller Temperature	≤ 200±2.5°C
Cutting Precision	±0.15mm
Gasket-to-Gasket Precision	±0.3mm
Gasket-to-CMM Precision	±0.4mm
Web Guide Precision	±0.3mm
Rotary Die Lifespan	400K Rotations

RotoMEA7 attaches top and bottom GDL layers to produce the final MEA assembly in sheets. Heat rollers are used when necessary to trigger heat-activated adhesive on GDL and improve lamination result.

- > FG in sheets
- > Supports GDL with hotmelt or PSA adhesive.



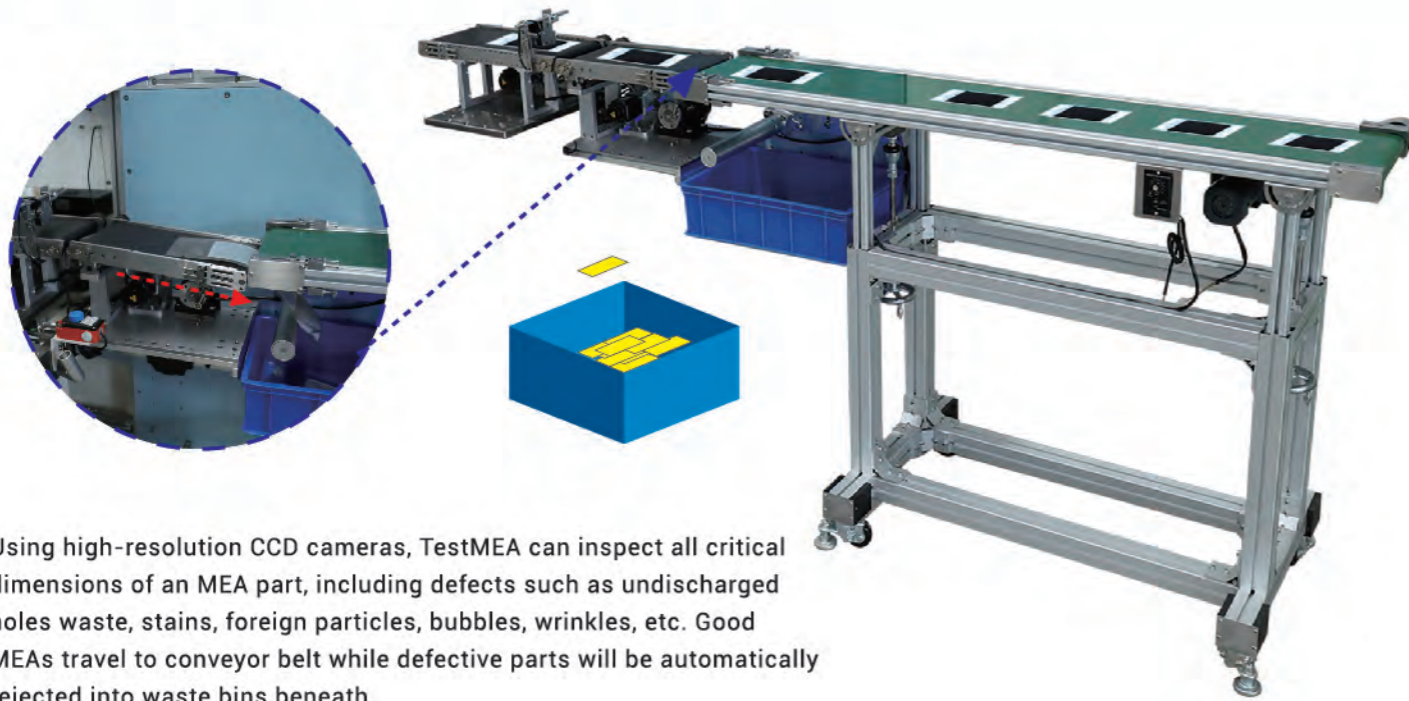
Specification

Model	RotoMEA7
Rated Power	55kW
Dimension	L8100*W2100*H2600
Speed	Up to 10m/min
Web Width	≤ 250mm
Heat Roller Temperature	≤ 200±2.5°C
Cutting Precision	±0.15mm
GDL-to-Gasket Precision	±0.4mm
Web Guide Precision	±0.3mm
Rotary Die Lifespan	400K Rotations





TestMEA (Visual MEA Inspection)



Using high-resolution CCD cameras, TestMEA can inspect all critical dimensions of an MEA part, including defects such as undischarged holes waste, stains, foreign particles, bubbles, wrinkles, etc. Good MEAs travel to conveyor belt while defective parts will be automatically rejected into waste bins beneath.

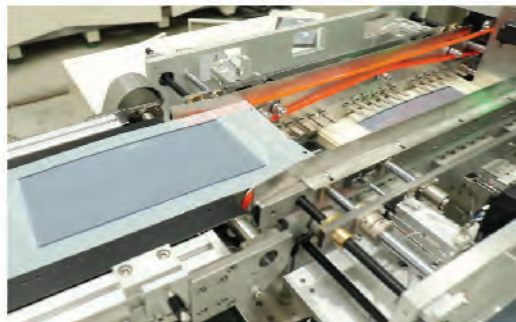
GDL Glue Dispensing Machine



With incoming GDL in rolls, the machine can dispense non-continuous glue droplets onto the GDL first, followed by inline sheeting to produce GDL with adhesive in sheets.

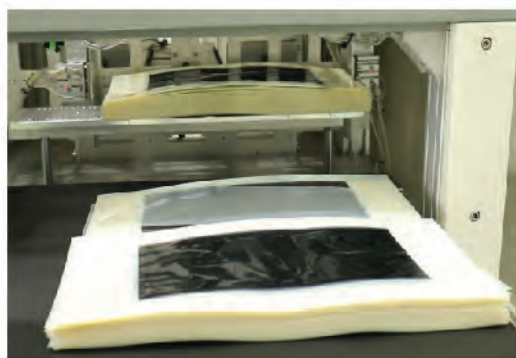


StackMEA (Stack Up MEAs for Packaging)



Good MEA7 parts travel to StackMEA machine through a conveyor belt. Sensors on StackMEA keep track of when and how many MEA parts are coming, sort and stack them up for easy packaging.

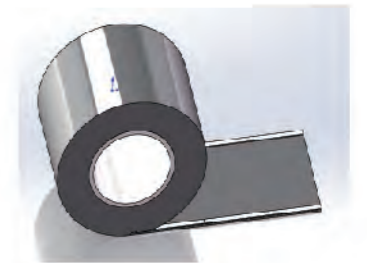
- > Number of parts in each stack is configurable
- > Automatically handles MEAs of varying dimensions



GDL Glue Coating Machine



The machine prepares the GDL roll ready for use on RotoMEA7 by coating two strips of glue along GDL edges.



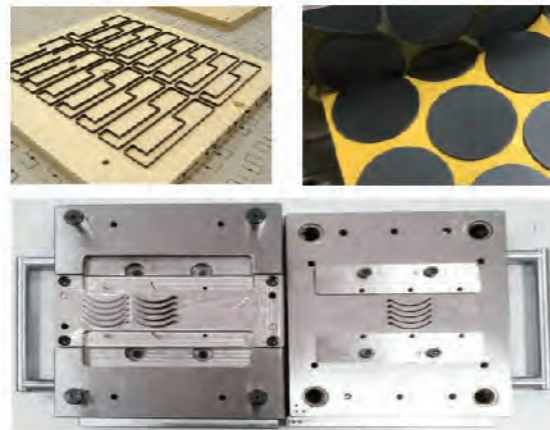
Flatbed Die Cutting Machine (HXM)

Servo-Driven Precision



Key Features

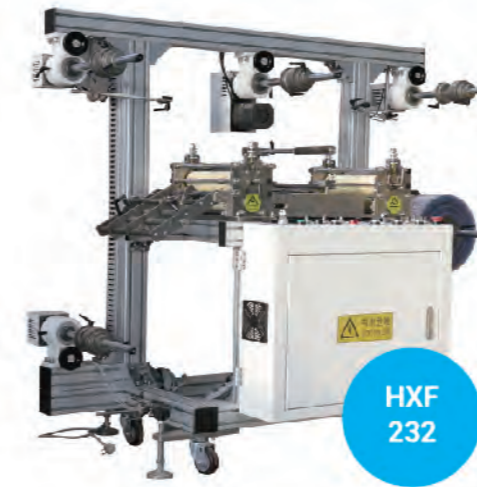
- ▶ Servo-driven precision up to $\pm 0.03\text{mm}$
- ▶ Cleanroom-friendly
- ▶ Through-cut or kiss-cut
- ▶ Roll or sheet feeding
- ▶ Parts registration by sensor or camera
- ▶ Quick tooling change
- ▶ Low noise, gentle vibration



Specifications

MODEL	HXM-2	HXM-4
# of Support Post	2	4
Max Cuts/Min	300	200
Max Cutting Force	50kN (5 ton)	120kN (12 ton)
Max Cutting Size	200 x 180mm	420 x 320mm
Stroke Travel Distance	24mm	28mm
Max Web Width	200mm	Horizontal: 420mm, Vertical: 320mm
Feeding Precision	$\leq 2\%$ mm	$\leq 2\%$ mm
Dimension	L1200 x W910 x H1250mm	L1450 x W1550 x H1450mm
Weight	1.0 Ton	2.3 Tons
Power	3P5W 380-400V, 6KW	3P5W 380-400V, 11KW
Safety	Safety Curtain, CE Certified	
Compressed Air Pressure	0.55-0.65Mpa	
Operating Modes	Jog Single Continuous Project	
Tool Acceptance	Steel Rule, Male/Female Reciprocating, Flexible "Chem-Etch"	

Lamination Machine (HXF)



- ▶ For lamination and auto waste discharge of multi-strip, multi-layer tapes and liners
- ▶ Independent speed and tension control of stations and shafts
- ▶ Flexible waste discharge

MODEL	HXF-232	HXF-343
Laminating Stations	2	3
Unwind/Rewind Shafts	3 / 2	4 / 3
Speed	30m/min	
Web Width / Diameter	W300 / $\varnothing 350$	
Dimension	L1610 x W920 x H1430	

Sheeting Machine (HXQ)

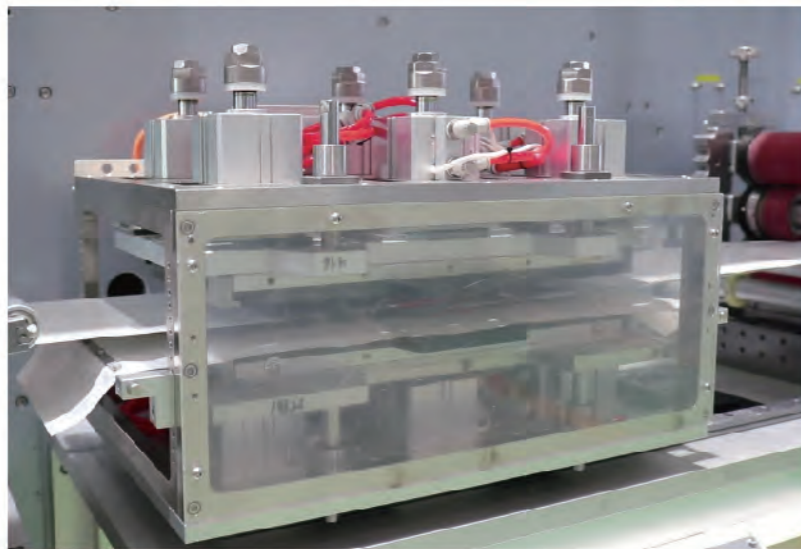


- ▶ Specialized equipment used for converting tape rolls into sheets
- ▶ Sheeting by registration or fixed length
- ▶ Automatic counting
- ▶ Automatic stacking

MODEL	HXQ-2	HXQ-4
Sheeting Speed	200 pcs/min	200 pcs/min
Precision (as % of set length)	0.4%	0.2%
Web Width	200mm	420mm
Weight	280kg	350kg
Dimension (LxWxH)	660 x 400 x 1300	1350 x 650 x 1500

Reciprocating Heat-Seal Pouching Machine

Achieve flawless four-sided pouch sealing by heated plate pressing, while the web is continuously moving



Specifications

RDC Station	3
Air Shaft	2-4
Web Guide	Optional
Max Speed	20m/min
Temperature	30 - 180°C
Web Width	250/350/450 mm
Dimension	L2100*W1120*H2000



Conveyor Belts



Standalone Single-Belt



Adjustable-Height Single-Belt



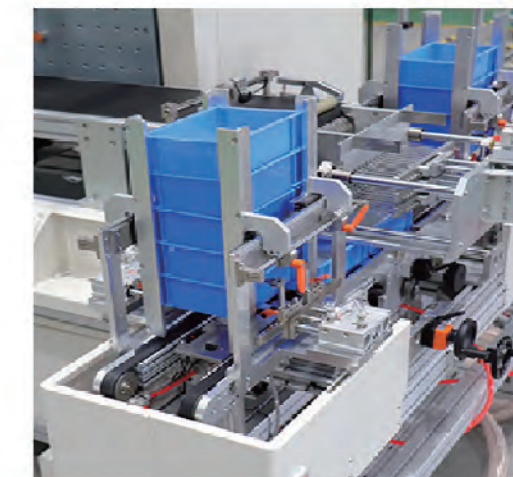
Integrated Dual-Belt Conveyor



Standalone Dual-Belt Conveyor with Counting and Stacking Function

Stacking Machine

Receives FGs in sheet, stack and place into trays



Roll Inspection Machine

Standalone visual inspection of products in rolls - one air shaft for unwinding, and another for rewinding. Inspection type can be dimensional measurement, appearance check or defects detection.



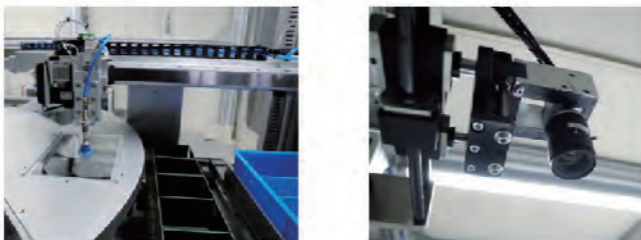
Sheet Inspection Machine

Standalone visual inspection of products in sheet form. Inspection type can be dimensional measurement, appearance check or NG detection.



1 Sheet Pickup from Stack

2 Turntable Rotation



4 Pass/Fail Bin Holders

3 Image Capture and Analysis

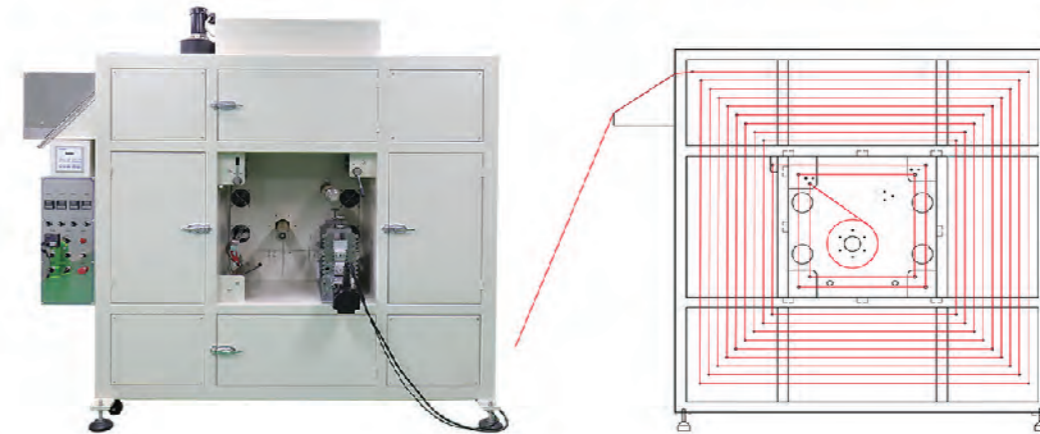
Coating Machine

The machine leverages rotary screen printing technology to coat ink on the underlying substrate. Coating thickness and smoothness can be easily controlled by speed and screen mesh count.



Oven Drying Machine

This machine maintains a configurable temperature inside an insulated oven space to dry inks. Total film inside the oven can be wound up to 75m in length to allow sufficient drying time.



Applications

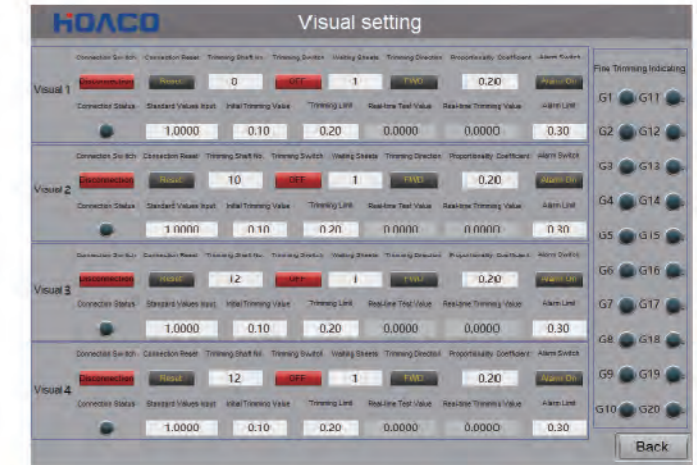


CCD System Configuration



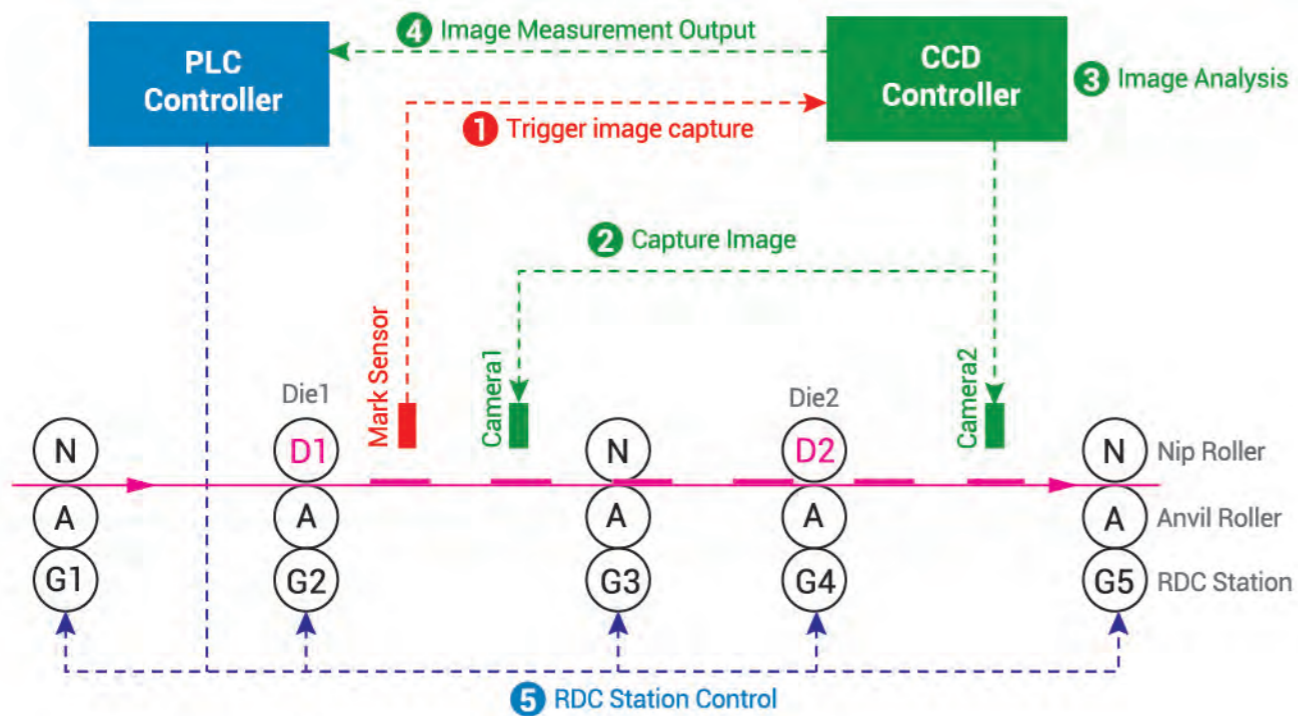
Opt for enhanced precision and efficiency with the optional CCD vision system available for HOACO RDC machines. While optional, it's strongly recommended for achieving unparalleled accuracy, automatic tuning, and significantly improving yield rates.

- ▶ Automatic machine pause after continuously # of NGs
- ▶ Enjoy automated rotary die fine-tuning capabilities, simplifying setup procedures and reducing manual intervention.
- ▶ Triggering of blackmark printing for NG parts
- ▶ Recording of measurement data for offline analysis

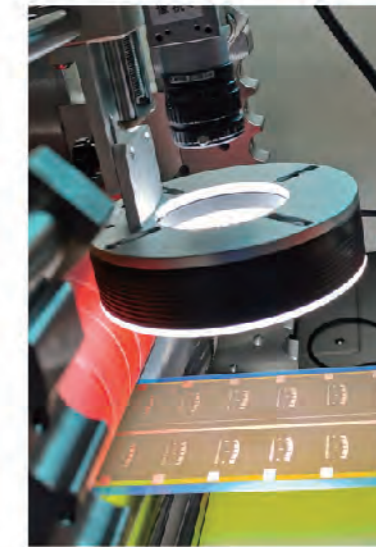


PLC-CCD Inter-Connect Settings

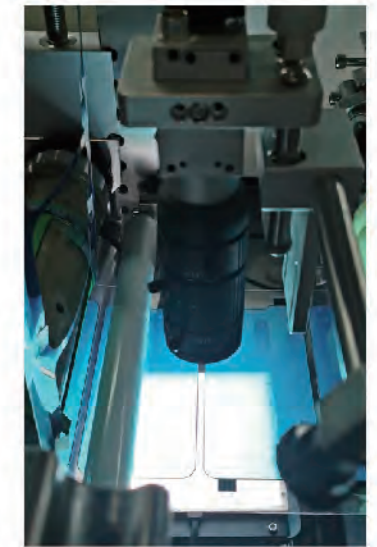
PLC-CCD Interconnect



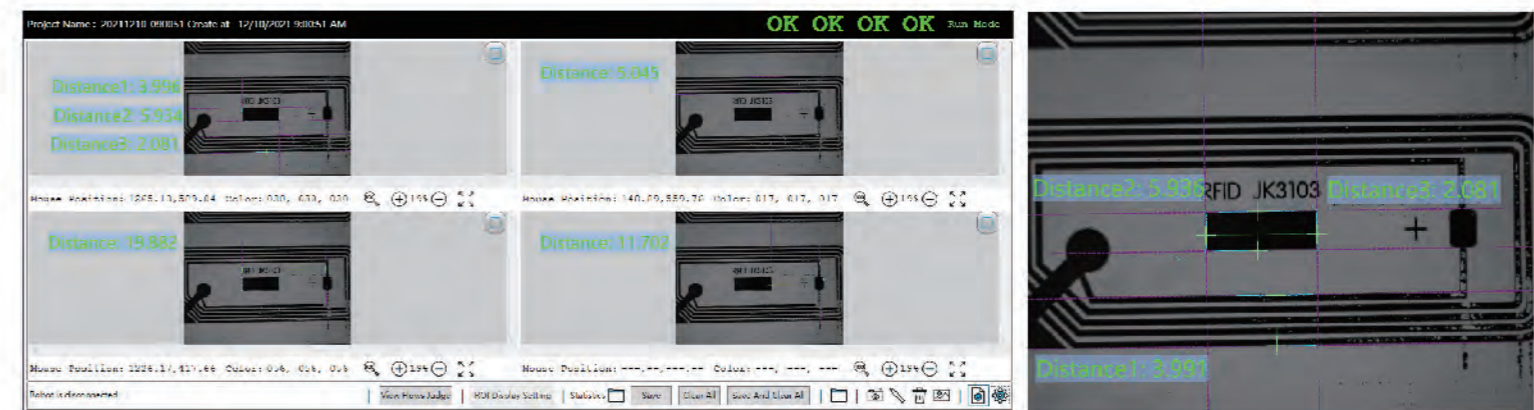
Cameras, Lens and Mounting Brackets



Top LED Light



Bottom LED Light



CCD Vision Software - Processing, Output & Analysis

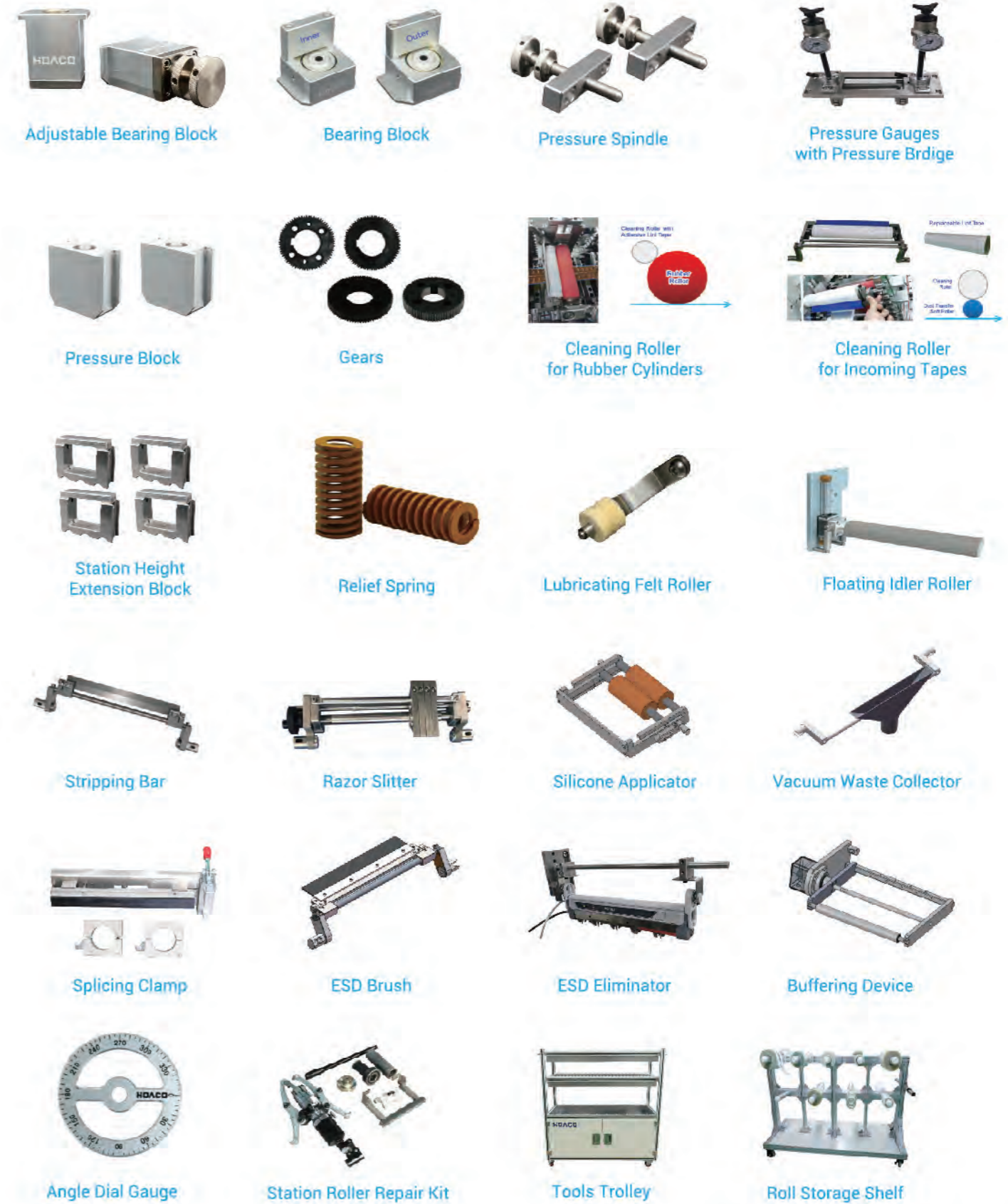
ACCESSORIES & TOOLS

YOUR TOOLKIT FOR SUCCESS

At HOACO, we believe that precision is the cornerstone of quality, and it all starts with meticulously crafted machine parts. Before installation, each component undergoes rigorous internal quality control inspection to ensure unparalleled excellence. Our commitment to excellence is evident in every aspect of our RDC machines, which are predominantly constructed using standard quality parts and accessories. This ensures that we deliver high-performance, high-precision RDC machines that offer exceptional value to our esteemed customers.

Furthermore, we understand the importance of accessibility and convenience in maintenance and upkeep. That's why most parts and accessories are available for individual purchase as field-replaceable units. Whether you require replacements or spares, we've got you covered. Additionally, for those unique requirements, custom-made parts can be meticulously designed and crafted upon request. At HOACO, we're dedicated to providing not just machines, but comprehensive solutions tailored to your unique needs.

RDC Station Accessories



Air Shaft Accessories



Automatic Air Shaft



Manual Air Shaft



Differential Air Shaft



Sleeve Shaft



Air Shaft Core Adapter



Lug-Type Core Adapter



Ring-Type Core Adapter



Roll Flange



Roller Clamp



Air Shaft Clamp



Air Gun



Pneumatic Connector

Electrical Accessories and Others



Color Mark Sensor



Thrubeam Sensor



Proximity Sensor



LED Light with Magnetic Base



CCD Camera / LENS



CCD Top LED Light



CCD Bottom LED Light



Inkjet Printer



Web Guide



Edge Sensor



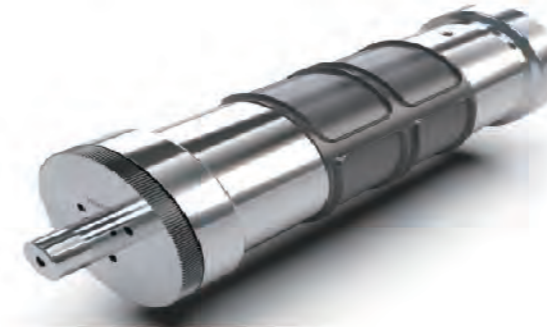
Line Sensor



Splicing Web Guide Top

Rotary Tooling

As a premier supplier of rotary die cutting machines, HOACO understands the critical significance of top-tier rotary tooling. We possess the full spectrum of capabilities to meticulously design and fabricate a diverse range of high-precision rotary dies. Our paramount focus is on delivering unmatched quality and rapid turnaround times, ensuring our customers receive nothing short of excellence. Trust HOACO for superior rotary tooling solutions tailored to elevate your operations.



Solid Die

The most commonly used rotary dies with outstanding hardness, precision, wear resistance and long life.



Pin-Eject Die

Holes waste is pushed out by retractable pins and carried away by an underlying tape. No air, no noise, just a clean finish.



Vacuum Die

Made hollow inside, vacuum dies have through holes on the body to allow waste extracted out by vacuum.



Air-Eject Die

An air-eject rotary die incorporates compressed air to assist in the ejection of holes waste.



Hot Stamping Die

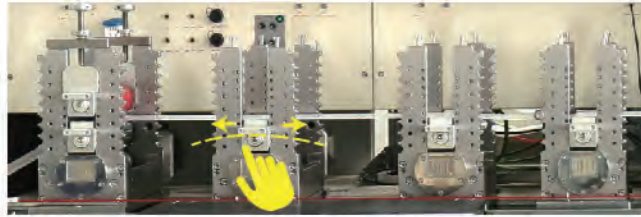
Utilizing cutting-edge image and text processing systems, our hot stamping cylinders are designed to deliver precise contours and exact reproductions.



Magnetic Cylinder

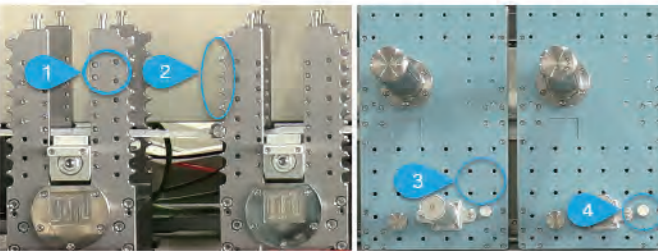
The material choice maintains the magnetic force while providing strong and consistent adhesion to the flexible die during usage.

MECHANICAL ADVANTAGES



From 3 to 32 Movable RDC Stations

Unlock unprecedented flexibility with our RDC machine featuring movable stations. Customize your process setup and seamlessly integrate additional subsystems between stations. At HOACO, the power to optimize your operations is in your hands.



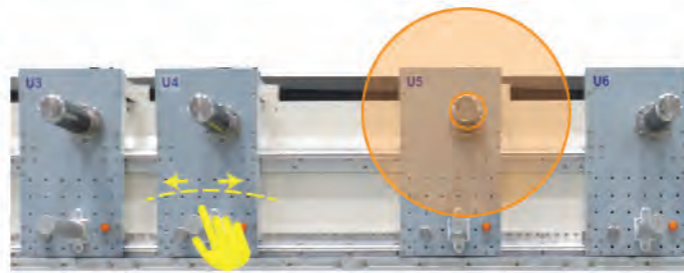
Flexible Process Setup

- 1) Screw holes for easy attachment of rollers/brackets
- 2) Notches the side for quick install and removal of rollers
- 3) Screw holes to easily install accessories
- 4) Single button controlling shaft start/stop, inflate/deflate



Entire Machine on a Single Base Frame of PWHT Steel

Precision is paramount in RDC stations, demanding meticulous mechanical construction for station-to-station accuracy. Even slight deformations over time can compromise cutting precision. That's why HOACO machines are built on a single unified PWHT (Post Weld Heat Treatment) treated steel base frame, ensuring enduring accuracy, durability, and repeatability through extended heavy-duty use. Trust in HOACO for unwavering performance over the long haul.



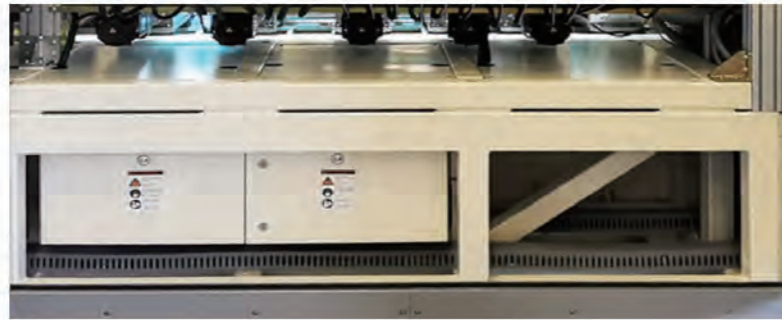
Movable Air Shaft with Large Roll Support

Our machines offer a unique advantage: movable shafts and large roll support combined. The air shaft panel design with a rear-attached motor ensures convenience and flexibility like never before. Experience efficiency and versatility with HOACO.



Sliding or Suspension-Arm HMI Console

Operating an RDC machine requires constant interaction with the machine's HMI console. Our user-friendly HMI consoles are always within your arms' reach for a seamless operation, whether through a sliding or suspension-arm design.



ELECTRICAL ADVANTAGES



Easy-to-Use Touchscreen HMI Console

- Configure all settings through intuitive touchscreen
- Main - Home screen showing overall machines status
 - Stations - Start/Stop, CW/CCW, Speed Ratio, Sync/Async
 - Shafts - Start/Stop, Inflate/Deflate, CW/CCW, Alarm Diameter
 - Function - Standard Async, Sensed Async, Cut-to-Mark, Follow, etc
 - Others - Gears, Output, Recipe Save/Load

That is about 90% of what you need to learn to operate a HOACO RDC machine like a pro. Extra settings will be required only when optional systems are installed, such as CCD vision system.

Best-of-Breed Motion Control Software

- ▶ Proprietary machine control software embeds 18 years of RDC converting experience representing the best-in-class functionalities, performance, precision and process control
- ▶ Automatic station-to-station synchronization control
- ▶ Automatic air shaft tension control and material shortage alarm
- ▶ Simple yet powerful touchscreen-based HMI interface
- ▶ Remote access for remote troubleshooting and support
- ▶ Built-in safety control meeting CE standards

Dual Systems

Run a single machine like two machines

- ▶ Dual systems allow production of two different products, operated by two operators at the same time without interference. This improves machine utilization, saves customer investment and factory footprint.
- ▶ Only for 10+ stations machine

Premium Components, Top-Notch Finish, Quality Assured



APPLICATIONS



RFID Labels



Electronics



Medical & Cosmetics



Automobile



Printing & Packaging

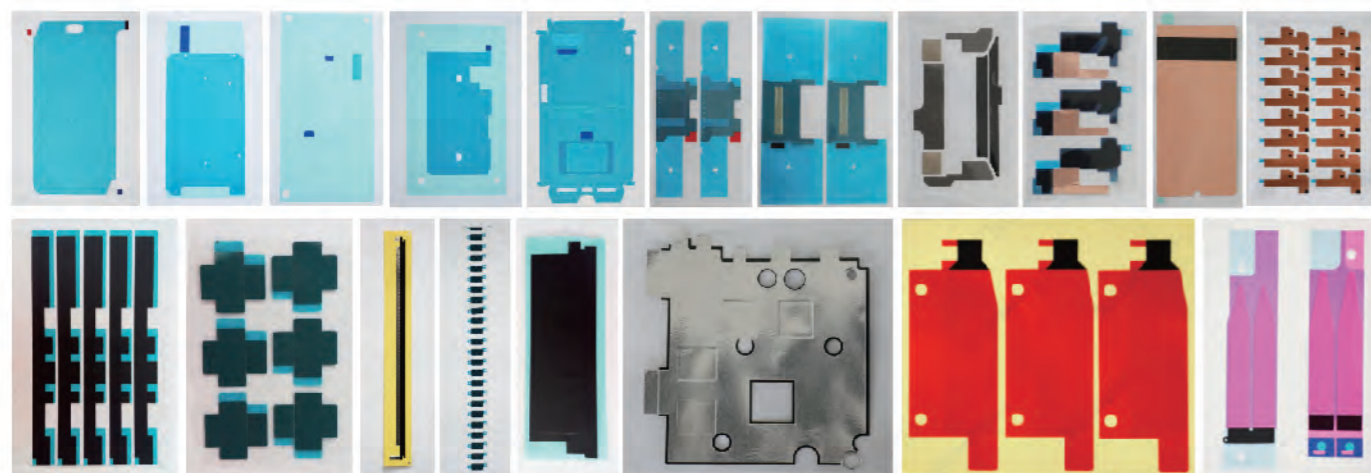


Clean Energy

RFID & Labels



Electronics



GLOBAL SERVICE NETWORK



- HOACO Group of Companies
- Global Customers