HOACO ON THE CUTTING EDGE®

HOACO INTRODUCTION





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Pioneering China's Converting Industry



2000+ RDC Stations Sold Annually by RDC Machine Sales in China

30+ Countries Sold to



200 +Employees

60,000 SQM Factory Space



Domestic + Overseas Offices

History of Innovation and Growth



2004 Developed 1st RDC machine



2008 Movable RDC station patented



2009 ISO9001:2015 certification



2010 Invented RDC-based thermal graphite sheet process



2011 Invented RDC-based screen frame process, with up to 85% material savings



CE certification by TUV



Beyond RDC

RDC + Laser Cutting RDC + Printing RDC + Flatbed Cutting RDC + Heat-Sealing RDC + Satellite Station RDC + Pick-n-Place Inspection Machines Packaging Machines

Industries Served











Electronics

- Screen protectors
- Protective films
- Thermal pads
- Frame adhesive
- Conductive pads
- Insulation pads
- Anti-dust meshes
- Battery strips
- LED strips

Medical & Cosmetics

- Wound dressings
- IV dressings
- ECG/Tab Electrodes
- TENS electrodes
- ESU grounding pads
- Kinesiology patch

Automobile

- Tire repair patch
- Tire plug patch
- Car logo adhesive
- Dashboard adhesive
- Spacers
- Insulators
- Sealing gasket
- Touch pads

Label & RFID

- Label stickers
- Security labels
- RFID labels
- RFID antenna
- Tickets
- Cards
- Luggage tags

Clean Energy

- Hydrogen fuel cell
- MEA (Membrane Electrode Assembly)
- CCM (Catalyst Coated Membranes)
- Lithium-ion batteries protectors



HOACO Group of Companies



НОЛСО

Corporate Honours & Certificates







- 2021 Enterprise for high-end branding cultivation, Shandong
- 2020 Manufacturing Technology Award, Shandong
- 2019 Invisible Champion, Weifang
- 2019 Gazella Company of high-tech enterprises, Weifang
- 2018 Top 10 Mobile Phone Automation Solution Provider
- 2017 Shandong Entrepreneurship & Innovation Award 1st Prize
- 2016 Top 100 National High-Tech Enterprise Pioneers
- 2016 National Torch Plan Industrialization Demo Project
- 2015 National High-Tech Enterprise
- ISO Quality Management (ISO9001)
- CE Certificate by TUV (MD/LVD/EMC)
- EU Certificate of Registration
- 148 Patent Certificates (Utility Model: 110, Invention: 10, Design: 28)

ΗΟΛΟΟ

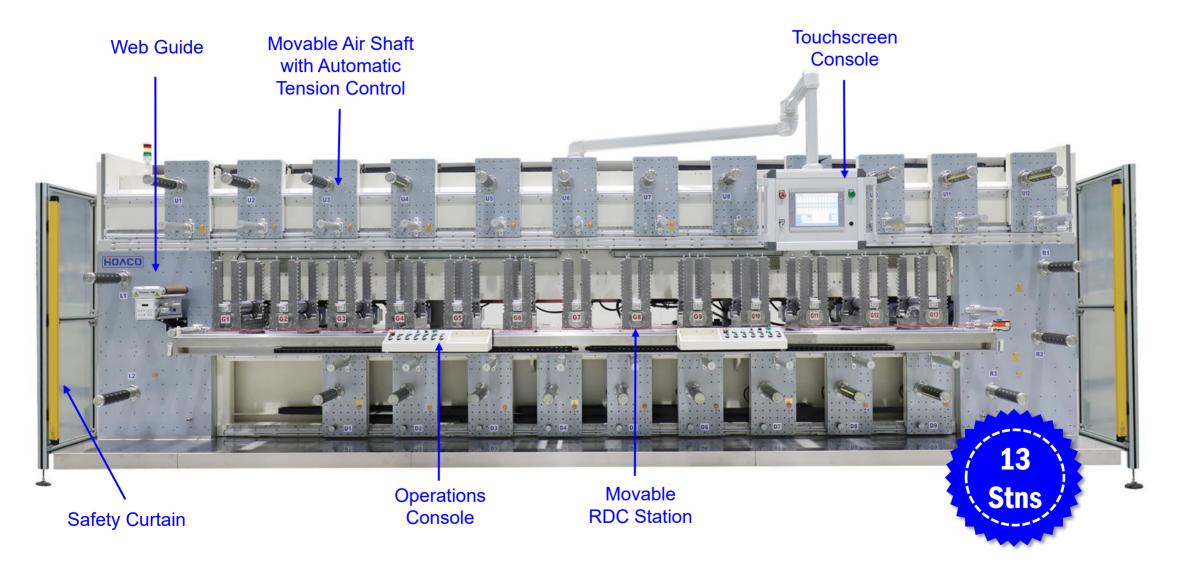
Products & Services



YOUR **ONE-STOP** CONVERTING SOLUTION **PROVIDER** AND PARTNER



Flagship Rotary Die Cutting (RDC) Machine





More RDC Machines - 3-32 Stations, W250/350/450/550/750mm









RDC Stations and Shafts

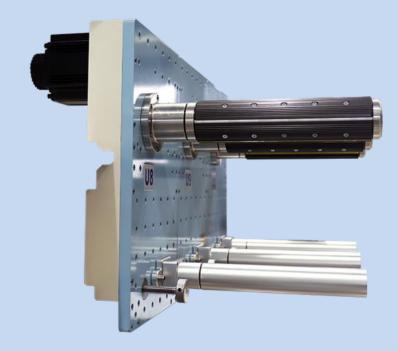
RDC Station

- Cutting or Laminating
- Standard 3.175 gear pitch
- Built-in Sync / Async functions



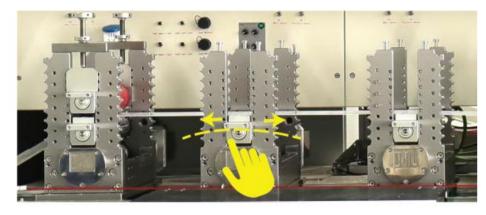
Air Shaft

- Automatic Tension Control
- Powerful servomotor (1-150N Tension)
- Rear Motor Design

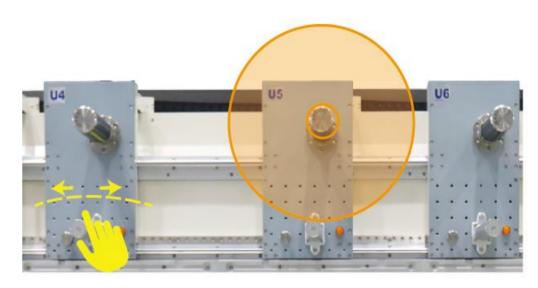




Features Highlight



Movable RDC Station



Movable Air Shaft



Welded Base Frame



Easy-to-Use Touchscreen

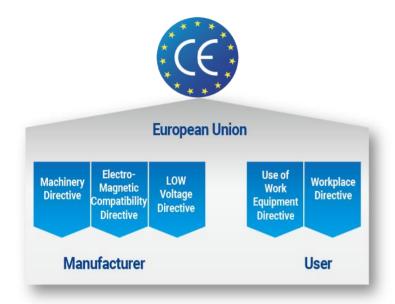


Premium Components, Quality Assured





CE Certified Covering MD/LVD/EMC





	of Conformity EC Council Directive 2006/42/EC Machinery Registration No.: AM 50491124 0001		
	Report No.: 50347933 002		
Holder:	Shandong HOACO Automation Technology Co., Ltd. No. 2892 Zhangying Community, Qingchi Subdistrict, High-tech Zone, Weifang 261061 Shandong P.R. China		
Product:	Machinery (Rotary Die Cutting Machine)		
Identification:	Type Designation : HW2500Cl6 HW3500Cl6 HW4500Cl6		
	Serial No. : H16-200301 n.a. n.a.		
	Remark: 1. Refer to test report 50347933 002 for details.		
This is to certify that Directive 2006/42/EC, ment of the production	tormity is based on an evaluation of a sample of the above mentioned product, the tested sample is in conformity with all provision of Annex I of Council referred to as the Machinery Directive. This certificate does not imply assess- of the product and does not permit the use of a TúV Rheinland mark of con- the certificate is authorized to use this certificate in connection with the EC ity according to Annex II of the Directive.		

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

all relevant and effective EC Directives

CE

(The CE marking

CE Technical Files >

~ Name 203 Electrical Schematic 200 Risk assessment-20200528.pdf 201 Machine Operation Manual.pdf 202 Machine Layout Drawing.dwg 204 Pneumatic schematic.pdf 205 Safety logic procedures.png 206 Machine Part list-20200509.xlsx S 206 Spare Component list-20200509.xlsx S 300 PL Assessment Report for RDC Machine.pdf 301 SISTEMA Calculation Report.pdf 302 Calculation Report of Minimum Distances of ESPDs.pdf 302 Mean Number of Annual Operations.docx 🛃 303 CE test report .pdf 304 TR 60360594 001 EMC_Shandong HOACO.pdf 305 Noise Emission Test Record.doc 306 Declaration of Conformity-HOACO.pdf 307 CE Certificate-UDEM.pdf 308 R 60360594 001 EMC_Shandong HOACO.pdf Technical Files v20200522.xlsx HUV CE Certificate.pdf

ΗΟΛΟΟ

CE Highlights











Safety PLC





Contact Sensors











ΗΟΛΟΟ

Performance, Precision and Reliability





Tight Tolerance
Process Precision ±0.05mm



Proven Reliability
Long production runs



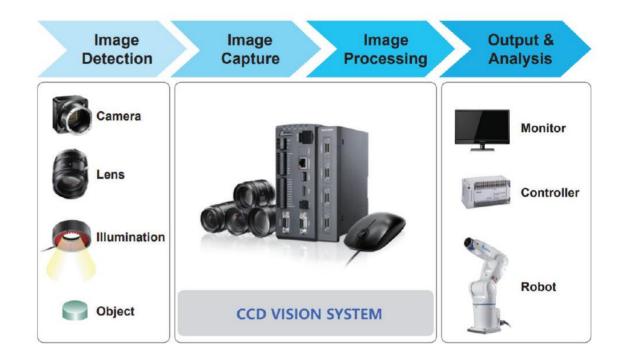
Dual Systems

A single HOACO machine can be configured to run as two independant machines, operated by different operators to produce different parts simultaneously.



CCD Vision System

- Realtime high-resolution dimensional measurement to enable
 - Auto-tuning of rotary cutters (Both X/Y Axis)
 - Auto machine alarm/stop
 - Auto blackmark printing or rejection of NG parts

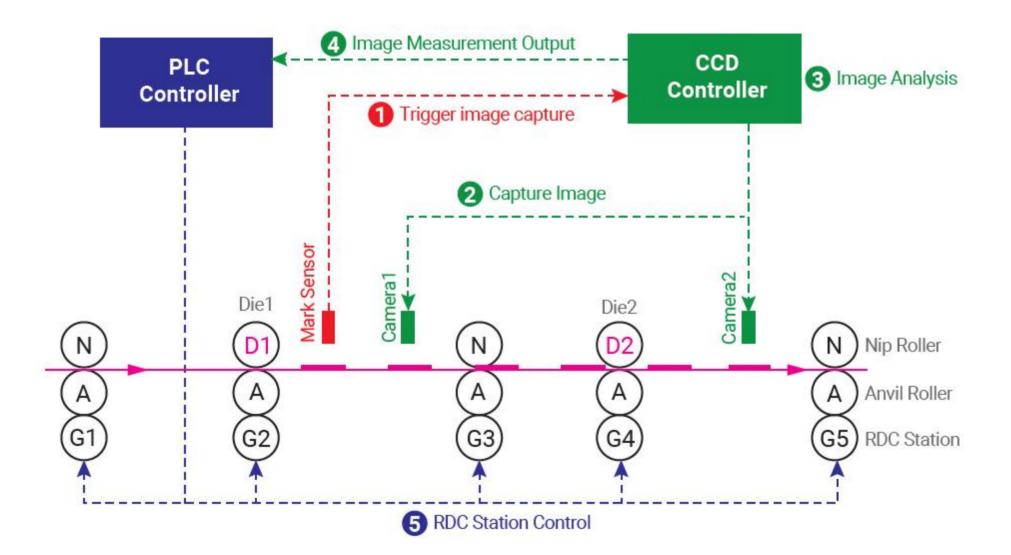




ΗΟΛΟΟ

WATCH VIDEO

CCD-PLC Interconnect







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Beyond RDC



Integrated RDC + Satellite Station Machine (RDC-SC)

Achieving extreme cutting precision **up to ±0.05mm** by using mechanical gear synchronization through Sun/Plantary gears





Integrated RDC + Laser Cutting Machine (RDC-LC)



HYBRID CAPABILITIES offering the best of both worlds for a seamless web converting process. Precision up to ±0.06mm.

MODE Cut-on-the-Fly or, Step-and-Repeat

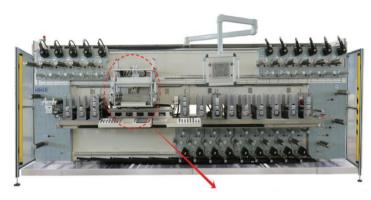
COMPARISON	RDC	LASER
Speed	~	
Big Runs	~	
Flexible Slug Removal	~	
Less Upfront Cost	~	
Less Maintenance Cost		\checkmark
Tight Tolerance		~
Quick Turnaround		~
Thick or Narrow Cuts		~
Vast Material Types		~



Integrated RDC + Printing Machine

Simplified Manufacturing Process, Improved Product Design and Material Savings

Flat Screen Printing (RDC-FSP)





WATCH VIDEO

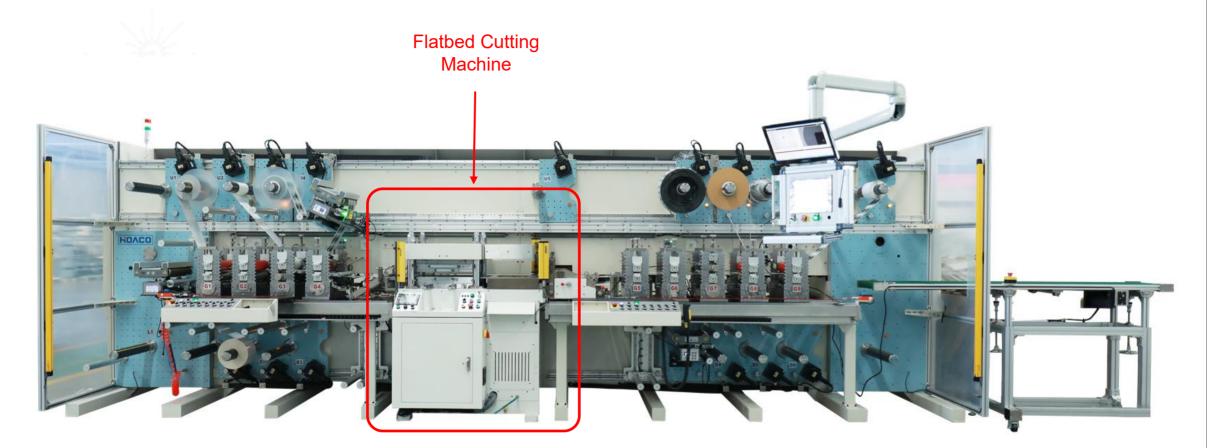
Flexo Printing (RDC-FXP)





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Integrated RDC + Flatbed Cutting Machine (RDC-FDC)







Integrated RDC + Heat-Seal Machine (RDC-HS)

 Four-sided pouch sealing by heated reciprocating plate pressing, while web is continuously moving

WATCH VIDEO

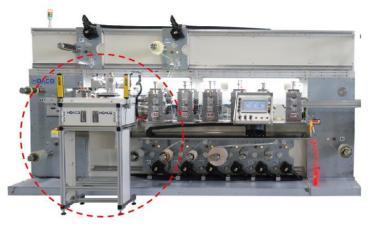


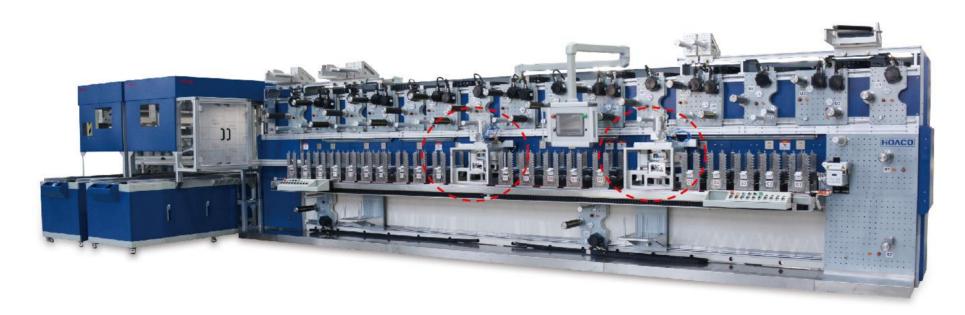


Integrated RDC + Pick-n-Place Machine (RDC-PNP)

- Integrated Pick-n-Place robots to
 - Handle raw materials in sheets for RDC cutting
 - Cut-and-transfer with rotations









Flatbed Die Cutting Machine (Servo-Press)



Cut Size:180 x 130mm Max Pressure: 5 Tons





Cut Size:400 x 240mm Max Pressure: 12 Tons



Standalone Inspection Machines

Roll Inspection Machine WATCH VIDEO







Sheets Inspection Machine



WATCH VIDEO 🔊





HOVCO

Specialty RFID Label Machine





Specialty Machines



Fuel Cell MEA (Membrane Electrode Assembly) Machine



Fuel Cell CCM Lamination Machine



Tire Plug Patch Machine



Medical ECG Electrode Machine



Rotary Dies (Made by HOACO)







Pin-Eject Dies



Vacuum Dies

Solid Dies

ΗΟΛΟΟ

Accessories 1/3



ΗΟΛΟΟ

Accessories 2/3



Crank Roller



Crank Rubber Roller

Straight Roller (Ø35)



Anti-Static Roller (Ø50)



Dual Lamination Roller



Non-Stick Crank Roller



Floating Idler Roller



Lubricating Felt Roller



Color Mark Sensor



Thrubeam Sensor



Proximity Sensor



LED Light



Accessories 3/3



CCD Controller



CCD Camera / LENS



CCD Top LED Light



CCD Bottom LED Light



Web Guide Controller



Edge Sensor



Line Sensor



Splicing Web Guide Top



Safety Light Curtain



Inkjet Printer



ESD Eliminator



ESD Brush



HOACC H

THANK YOU!