

HOACO Rotary Die Cutting Machine 3-Stations Model

The Machine (For illustration only, actual machine may differ)



Technical Specifications

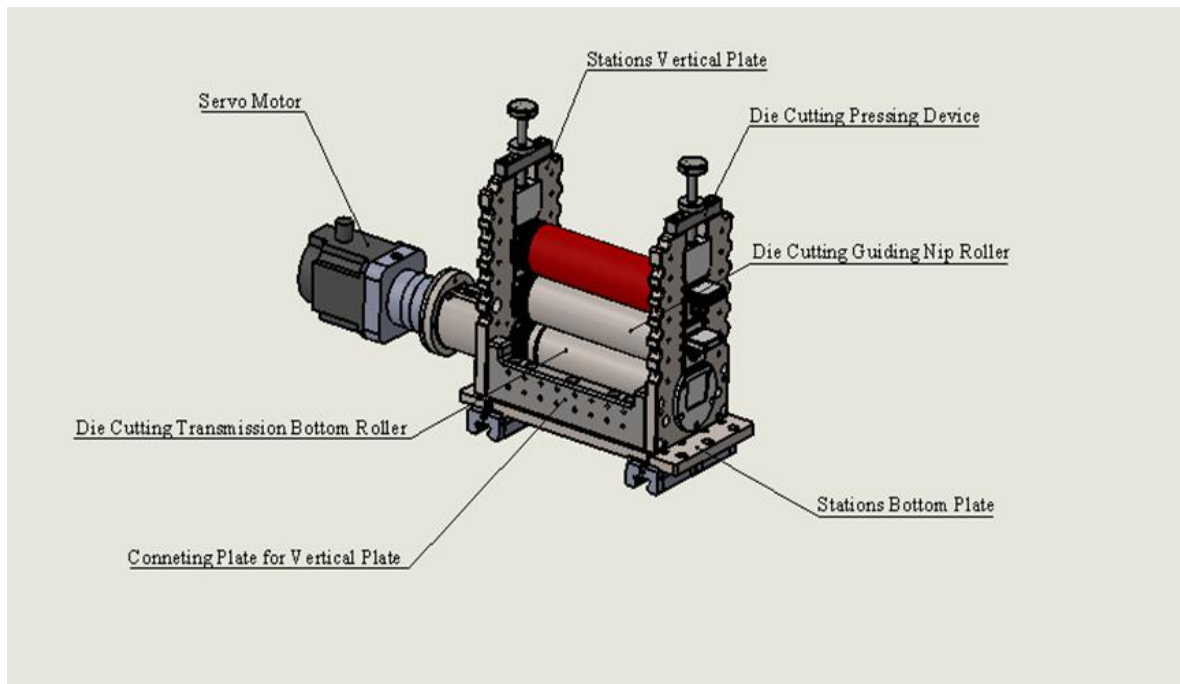
Parameters	Specifications
Rated Power	9KW
Maximum Current	18A
Input Voltage	380V ± 10%, 3 Phase 5 Wires, 50/60Hz
Compressed Air	0.45 – 0.60 MPa
Dimension	L2080 x W1500 x H1700mm
Weight	1 Ton
Typical precision	±0.1mm
Max operating speed	60 meters/min
Web width	250mm or 350mm
Max Web Roll Diameter	500mm

Max Rotary Die Diameter	250mm
Air Shaft Tension (min – max)	1N-150N
Machine Base Frame	Welded Steel
Machine Body Frame	Industrial-Grade T-Slot Aluminium
RDC Station Plates	Stainless Steel
Air Shaft Motor/Controller	Delta Electronics (Taiwan)
RDC Station Motor/Controller	Omron (Japan)
PLC Controller	Omron (Japan)
HMI Screen	Weiview (Taiwan)
Web Guiding System	TechMach (China)
Bottom Roller	Teeth: 81, Module: 1.010634
Anvil Roller	Teeth: 70, Module: 1.010634
Groove Roller	Teeth: 70, Module: 1.010634
Guiding Roller	Teeth: 81, Module: 1.010634
Low Voltage Electrical Components	Schneider (France)
Electrical Cables	China
Magnetic Valve	Taiwan/Japan
Operating environment	Indoor with altitude < 1000m
Temperature	0~+40 °C
Humidity	0-70%RH
Vibration	< 5.9m/S ²

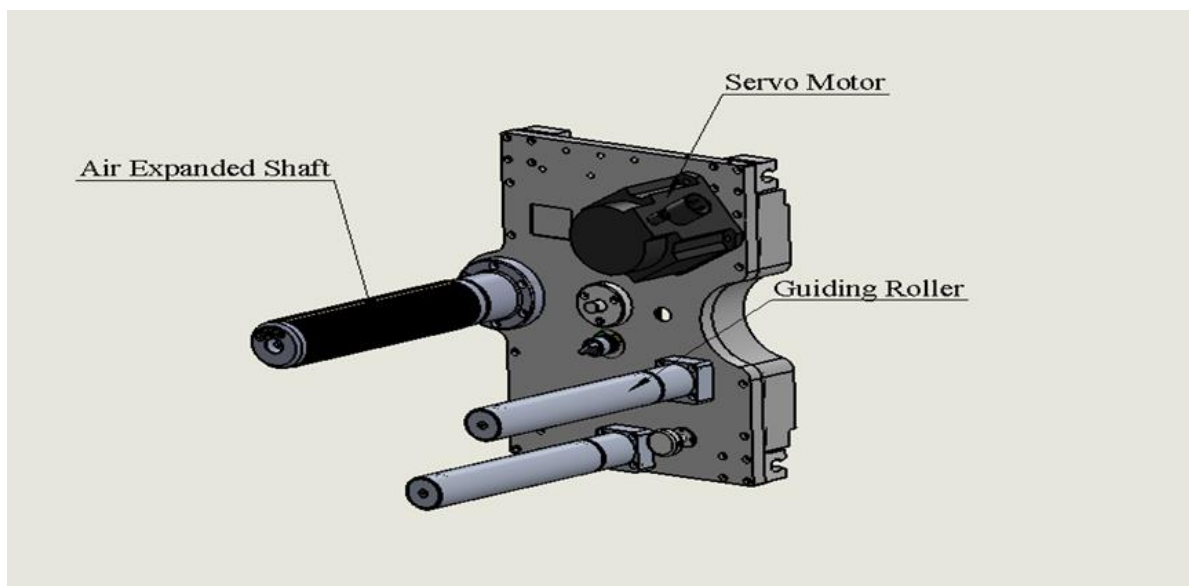
Packing List (Standard 3-Stations RDC Machine)

No.	Part Name	Specifications	QTY	Unit	Remark
1	Station	250	3	group	installed on machine
2	Bottom roller	81 teeth	3	pcs	installed on machine
3	Lamination rubber	81 teeth	2	pcs	installed on machine (1 pc no gear)
4	Guiding groove roller	70 teeth	1	pcs	installed on machine
5	Pressing hand wheel	M14X1.5	6	pcs	installed on machine
6	Pressing block		6	pcs	installed on machine
7	Air expanded shaft	3"-250	5	set	installed on machine
8	Removable operation platform		1	set	in packaging box
9	Mould adjuster	M16X1.25	2	set	in packaging box
10	Cutter pressing device		2	set	in packaging box
11	Material guiding bent roller	Φ35-40	4	pcs	installed on machine
12		Φ35-55	1	pcs	installed on machine
13	Material guiding straight roller	Φ35	2	pcs	installed on machine
14	Reset spring		4	pcs	in packaging box
15	Removable air expanded shaft		1	pcs	installed on machine
16	Removable material guiding roller		7	pcs	installed on machine
17	Material shield plate	Φ200	4	pcs	in packaging box
18		Φ330	10	pcs	in packaging box
19	Check ring	Φ35	8	pcs	in packaging box
20		Φ50	8	pcs	in packaging box
21	Expanded ring		14	pcs	in packaging box
22	Expanded core	3 to 6	2	pcs	in packaging box
23	Separating cutter	250	1	pcs	installed on machine
24	T-type guiding rail	40x40x400	2	pcs	installed on machine
25	Air gun	Φ8	1	set	in packaging box
26	Damping cushion	Φ100	8	set	in packaging box
27	Shaft button		2	pcs	in packaging box
28	Pause button		2	pcs	in packaging box
29	Front panel hose lamp		1	pcs	in packaging box
30	Air tube joint	HPGΦ10-Φ8	1	pcs	in packaging box
31	T-type nut		15	pcs	in packaging box
32	Short handle rotary knob		1	pcs	in packaging box
33	Internal hexagonal wrench		1	set	in packaging box

Die Cutting Station



Unwind/Rewind Station



HOACO Machine Features and Benefits

Mechanical

- Available in 3 to 20 movable stations, the machine enables ultimate flexibility in process design and material placement. Each station is fully capable of handling multiple layers of kiss-cut, through cut or lamination
- Materials and cut parts are facilitated in roll form
- Standard web material width: 250mm (10") and 350mm (13")
- Pendant arm HMI touchscreen for greater ergonomics
- Active web guiding control maintains even feeding of materials

Electro-Servo

- All servo-motors are synchronized by our ingenious software
- Dedicated servo-motor for each cutting/laminating and unwind/rewind station ensures synchronized positioning accuracy and precision up to $\pm 0.05\text{mm}$
- CCD camera registration/inspection with feedback for correction/adjustment to improve precision and minimize material waste

Process and Control

- **Dual Systems:** A single RDC machine's available stations can be separately configured to manufacture two different products, operated by two operators at the same time without interference. Modular independent stations and replaceable cutters deliver unparalleled simplicity and flexibility in enabling the manufacturing of two products on a single machine, saving customer investment and factory footprint.
- **Graphite Sheet Cutting:** Overcoming challenges of partial edge banding and backside adhesiveness when cutting thermal graphite sheet, HOACO RDC machine successfully automated multilayered cutting/lamination of thermal graphite sheet with 95% yield. Fueled by the superior performance and yield, HOACO commands a majority market share in the domestic thermal graphite cutting market.
- **Fixed-Length Crosscutting function** can be achieved by setting cutting length in advance according to product requirement. Once set, the machine can automatically crosscut parts based on input material length, eliminating the need for a separate cutting machine.
- **Screen Frame Adhesive Sticker Tape** production through asynchronous cutting and splicing of edge strips greatly reduced material waste while maintaining precision and speed.
- **Single/Double Asynchronous function** enables different modes of cutting operation—automatic async, manual async, coupled async and passive async moded can reduce material waste by up to 30%.