



Pressing Handling And Conveying

Vacuum membrane presses, gantry loaders, turnover machines and conveyors.

Qingdao INCRI Machinery Co., Ltd has built flexible intelligent finishing lines since 1999. All machines are customised to the buyer's requirement, so the figures below are the published data for each model series and are confirmed against your panel size, coating system and line speed before production.

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Vacuum Membrane Press Machine

Membrane presses that pull PVC and PET film into deep routed grooves under negative pressure, in a 2 to 4 minute cycle.

Vacuum Membrane Press Machine for PVC Film Cabinet Door Increase efficiency by 50% Negative Pressure

The vacuum membrane press covers PVC film onto the face of a routed panel: compound doors, cabinet fronts, furniture parts and speaker boxes. A heated membrane is pulled down over the panel under negative pressure, so the film follows deep grooves and 3D profiles instead of bridging over them. A full cycle runs 2-4 minutes per load, and the vacuum reaches -0.1 MPa with a plated working pressure of at least -0.095 MPa.

Parameter	Value
Plated working pressure	Negative pressure $\geq$ -0.095 MPa
Max vacuum press	-0.1 MPa
Max processing height	80 mm
PVC film thickness	0.10-0.60 mm
Working speed	2-4 min per piece
Machine weight	1500 kg
Total power	20 kW
Power consumption	5 kW
Top temperature	180 C
Voltage	380 V 50 Hz 3 phase
Heating	Double upper and lower heating
Vacuum pump	Single vacuum pump
Control system	PLC with LED touch screen
Temperature control	Thermocouple
Packing size	3500 x 2100 x 2400 mm

Vacuum Membrane Press for MDF Kitchen Cabinet Doors Save 60% of labor force

The vacuum membrane press covers PVC film onto the face of a routed panel: compound doors, cabinet fronts, furniture parts and speaker boxes. A heated membrane is pulled down over the panel under negative pressure, so the film follows deep grooves and 3D profiles instead of bridging over them. A full cycle runs 2-4 minutes per load, and the vacuum reaches -0.1 MPa with a plated working pressure of at least -0.095 MPa.

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Vacuum Membrane Press Machine for Furniture Save 60% of labor force

The vacuum membrane press covers PVC film onto the face of a routed panel: compound doors, cabinet fronts, furniture parts and speaker boxes. A heated membrane is pulled down over the panel under negative pressure, so the film follows deep grooves and 3D profiles instead of bridging over them. A full cycle runs 2-4 minutes per load, and the vacuum reaches -0.1 MPa with a plated working pressure of at least -0.095 MPa.

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Working speed	2-4 min per piece
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Power consumption	5 kW
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Total power	20 kW
Power consumption	5 kW
Top temperature	180 C
Voltage	380 V 50 Hz 3 phase
Heating	Double upper and lower heating
Vacuum pump	Single vacuum pump
Control system	PLC with LED touch screen
Temperature control	Thermocouple

Parameter	Value
Packing size	3500 x 2100 x 2400 mm

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Parameter	Value
Vacuum pump	Single vacuum pump
Control system	PLC with LED touch screen
Temperature control	Thermocouple
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Vacuum Press Machine for Wood Doors & Cabinets Negative Pressure Increase

The vacuum membrane press covers PVC film onto the face of a routed panel: compound doors, cabinet fronts, furniture parts and speaker boxes. A heated membrane is pulled down over the panel under negative pressure, so the film follows deep grooves and 3D profiles instead of bridging over them. A full cycle runs 2-4 minutes per load, and the vacuum reaches -0.1 MPa with a plated working pressure of at least -0.095 MPa.

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Voltage	380 V 50 Hz 3 phase
Heating	Double upper and lower heating
Vacuum pump	Single vacuum pump
Control system	PLC with LED touch screen
Temperature control	Thermocouple
Packing size	3500 x 2100 x 2400 mm

Vacuum Laminating Machine for Wood Doors & Cabinets Save 60% of

The vacuum membrane press covers PVC film onto the face of a routed panel: compound doors, cabinet fronts, furniture parts and speaker boxes. A heated membrane is pulled down over the panel under negative pressure, so the film follows deep grooves and 3D profiles instead of bridging over them. A full cycle runs 2-4 minutes per load, and the vacuum reaches -0.1 MPa with a plated working pressure of at least -0.095 MPa.

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Max processing height	80 mm
PVC film thickness	0.10-0.60 mm
Working speed	2-4 min per piece
Machine weight	1500 kg
Total power	20 kW
Power consumption	5 kW

Parameter	Value
Top temperature	180 C
Voltage	380 V 50 Hz 3 phase
Heating	Double upper and lower heating
Vacuum pump	Single vacuum pump
Control system	PLC with LED touch screen
Temperature control	Thermocouple
Packing size	3500 x 2100 x 2400 mm

Vacuum Membrane Press for MDF Kitchen Cabinet Doors Save 60% of labor force

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Total power	20 kW
Power consumption	5 kW
Top temperature	180 C
Voltage	380 V 50 Hz 3 phase
Heating	Double upper and lower heating
Vacuum pump	Single vacuum pump
Control system	PLC with LED touch screen
Temperature control	Thermocouple
Packing size	3500 x 2100 x 2400 mm

Vacuum Membrane Press Machine for MDF Kitchen Cabinet Doors Save 60% of labor force

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Automatic Machine

Loading, transferring, turning and returning panels. These are the machines between the machines, and they are where the last manual labour in a finishing plant usually sits.

180 degree Curve return line Machine Return production Line for woodworking

A curve return line machine turns and returns panels automatically so a single operator can load and unload at the same station. The 90 and 180 degree steering allows flexible line combinations, and rubber coated rollers protect the panel face. The ICFH-13300 handles panels 250-2440 mm long and 250-1220 mm wide at 16-24 m per minute on 5.25 kW.

Parameter	Value
Model	ICFH-13300
Equipment size	13300X3650X900
Panel length	250-2440mm
Panel width	250-1220mm
Panel Thickness	10-60mm
Maximum panel weight	60kg
Linear velocity	16-24m/min
Total power	5.25kw
Weight	1800kg

Curve return line Machine Return production Line for Edge Bander Machine

A curve return line machine turns and returns panels automatically so a single operator can load and unload at the same station. The 90 and 180 degree steering allows flexible line combinations, and rubber coated rollers protect the panel face. The ICFH-13300 handles panels 250-2440 mm long and 250-1220 mm wide at 16-24 m per minute on 5.25 kW.

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Curve return line Machine Return Line Automatic

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Wooden Door Series-Powered Roller Conveyor with Translation Device power conveyor roller

A powered roller table with a translation device, used for 90 degree steering in panel conveying. Rubber coated rollers and a synchronous rubber conveyor belt move the panel without damaging the face. The ICGP-2500 takes panels 300-2440 mm long and 250-1220 mm wide at 5-30 m per minute on 0.85 kW.

Parameter	Value
Model	ICGP-2500
Equipment size	2500X1500X900
Panel length	300-2440mm
Panel width	250-1220mm
Panel thickness	10-60mm
Maximum panel weight	60kg
Linear velocity	5-30m/min
Pressure	0.8Mpa
Total power	0.85kw
Weight	450kg

Powered Conveyor Transfer Roller table power translation roller table

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roller conveyor translation machine power conveyor roller table

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Weight	450kg

Door Panel Wood automatic panel turnover machine flipper machine

An automatic panel turnover machine with hydraulic control, used to flip a panel so the second face is ready for the next process. It runs continuously at up to 7 turns per minute, takes panels to 2440 by 1200 mm and 60 kg, and carries an emergency stop rotary switch on the electric operating display.

Parameter	Value
Model	ICFB-850
Dimension	4560X3400X1760
Processing Length	2440mm
Processing Width	1200mm
Processing Thickness	10-60mm
Max. Loading	60kg
Processing Speed	7Times/min
TTotal Power	4.04kw
Net Weight	700kg

Woodworking Panel Bundle Plate Plywood Panel Turnover machine Flipping Machine

An automatic panel turnover machine with hydraulic control, used to flip a panel so the second face is ready for the next process. It runs continuously at up to 7 turns per minute, takes panels to 2440 by 1200 mm and 60 kg, and carries an emergency stop rotary switch on the electric operating display.

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Panel turnover machine 180 degree turning machine flipper flipping machine for

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Automatic heavy duty gantry loading machine gantry type loading stacker loading

An automatic gantry loading machine that strips, palletises, steers and moves panels so the line does not need manual loading. It works with sanders, sawing machines and glue coating machines to make an automatic connection, with a large span and a heavy load capacity of 200 kg. Siemens electrics, AirTAC cylinders and German P+F photoelectrics handle the control.

Parameter	Value
Model	ILM4-3500
Dimension	4700×3700×2800mm
Processing Length	300-2440mm
Processing Width	250-1220mm
Processing Thickness	5-60mm
Max. Loading	200kg
Processing Speed	8Times/min
TTTotal Power	10.2kw
Net Weight	2300kg

gantry loading machine Automatic loading and unloading system

An automatic gantry loading machine that strips, palletises, steers and moves panels so the line does not need manual loading. It works with sanders, sawing machines and glue coating machines to make an automatic connection, with a large span and a heavy load capacity of 200 kg. Siemens electrics, AirTAC cylinders and German P+F photoelectrics handle the control.

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Automatic gantry loading machine furniture door

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TTotal Power	10.2kw
Net Weight	2300kg

Gantry Type loading Machine

Vacuum gantry loaders that strip, palletise, steer and move panels up to 200 kg between a stack and a machine.

Panel turnover machine

Hydraulic flippers that turn a 60 kg panel up to 7 times a minute so both faces can be finished without manual handling.

Curve return line Machine

90 and 180 degree return tables that bring the panel back to the loading operator so one person can run the machine.

Power Translation Roller Table

Powered transfer tables that steer panels 90 degrees between two machines without a manual lift.

Conveyor Machine

Roller and belt conveyors that link machine transport systems into one continuous line, plus the dust cleaning that belongs with them.

dust clean machine surface dust cleaning machine for MDF solid wood

A dust cleaning machine that removes dust from the panel surface before coating or after sanding, for flooring, furniture and wood doors. Double brush rollers lift the dust and a blower carries it away, so the coating that follows has a clean surface to bond to. Widths are 600, 1000 and 1300 mm at 1.84-3.34 kW.

Parameter	ICCC600	ICCC1000	ICCC1300
Max. Processing Width	600mm	1000mm	1300mm
Processing Thickness	2-90mm	2-90mm	2-90mm
Feeding Speed	0-20m/min	0-20m/min	0-20m/min
Feeding Power	0.75kw	1.5kw	1.5kw
Brush Roller Power	0.75kw	1.5kw	1.5kw
Fan Power	0.33kw*2	0.33kw*2	0.33kw*2
TTotal Power	1.84kw	3.34kw	3.34kw
Dimension(L x W x H)mm	2520*1260*1260	3250*1650*1500	3250*1950*1500
Net Weight	650kg	750kg	900kg

Rubber Roller conveyor machine for wood door floor production conveyor machine

A rubber roller conveyor used to connect the transport systems of machines in a line, normally at the entrance and exit where loading and offloading happen. The transport system is driven by an imported motor and inverter for smooth transfer. Transfer widths are 600 and 1300 mm at 0-20 m per minute.

Parameter	ICSS600-G	ICSS1300-G
Transfer Width	600mm	1300mm
Transfer Speed	0-20m/min	0-20m/min
Transfer Power	0.75kw	1.5kw
Dimension(Length x Width x Height)	3030*850*920mm	3260*1580*920mm
Net Weight	210kg	310kg

Roller conveyor machine for wood door floor production conveyor machine

A rubber roller conveyor used to connect the transport systems of machines in a line, normally at the entrance and exit where loading and offloading happen. The transport system is driven by an imported motor and inverter for smooth transfer. Transfer widths are 600 and 1300 mm at 0-20 m per minute.

Parameter	ICSS600-G	ICSS1300-G
Transfer Width	600mm	1300mm
Transfer Speed	0-20m/min	0-20m/min
Transfer Power	0.75kw	1.5kw
Dimension(Length x Width x Height)	3030*850*920mm	3260*1580*920mm
Net Weight	210kg	310kg

Flat belt series belt conveyor Belt conveyor machine

A flat belt conveyor from the ICSS series that links the transport systems of machines into a line. The continuous belt supports small and thin parts that would drop between rollers. Transfer widths are 600, 1000 and 1300 mm at 0-20 m per minute with an imported motor and inverter.

Parameter	ICSS600	ICSS1000	ICSS1300
Transfer Width	600mm	1000mm	1300mm
Transfer Speed	0-20m/min	0-20m/min	0-20m/min
Transfer Power	0.75kw	1.5kw	1.5kw
Dimension(L x W x H)	3030*850*920mm	3260*1300*920mm	3260*1780*920mm
Net Weight	210kg	260kg	310kg

Flat belt series belt conveyor for wooden door factory

A flat belt conveyor from the ICSS series that links the transport systems of machines into a line. The continuous belt supports small and thin parts that would drop between rollers. Transfer widths are 600, 1000 and 1300 mm at 0-20 m per minute with an imported motor and inverter.

Parameter	ICSS600	ICSS1000	ICSS1300
Transfer Width	600mm	1000mm	1300mm
Transfer Speed	0-20m/min	0-20m/min	0-20m/min
Transfer Power	0.75kw	1.5kw	1.5kw
Dimension(L x W x H)	3030*850*920mm	3260*1300*920mm	3260*1780*920mm
Net Weight	210kg	260kg	310kg

Roller Coater Line

A complete UV roller coating line rated at 5000 square metres a day with 100 percent paint recycling and zero VOC.

woodworking panel Automatic roller coater line for kitchen cupboard door flat

A complete automatic UV roller coating line with a capacity of 5000 square metres per day. High gloss and matt finishes are both available, and because the UV paint is 100 percent recycled with 0 percent VOC, the line has no solvent emission to handle. Three to five operators run it at 12-20 m per minute in a 6 x 20 m area on a minimum 120 kW supply.

Parameter	Value
Capacity	5000 m2 per day
Workers needed	3-5 persons
Line speed	12-20 m/min
Minimum power	120 kW
Working area	6 x 20 m
Paint	UV, 100 percent recycled, 0 percent VOC

woodworking panel Automatic roller coater line for kitchen cupboard door

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Capacity	5000 m2 per day

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Workers needed	3-5 persons
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Minimum power	120 kW
Working area	6 x 20 m
Paint	UV, 100 percent recycled, 0 percent VOC

Inert Coating Line

Inert technology lines that give decorative panels a high gloss, matt or skin feeling surface with a film that costs far less than PET.

Automatic Inert Coating Line high glossy skin feeling surface

An automatic inert coating line for decorative panels. Inert technology produces high gloss, matt and skin feeling surfaces directly on the panel, and the film costs much less than PET. After inert processing the panel sells as a high end material, which is where the added value comes from. Three operators run the line at 12-20 m per minute inside a 6 x 18 m area on a minimum 70 kW supply.

Parameter	Value
Workers needed	3 persons
Line speed	12-20 m/min
Minimum power	70 kW
Working area	6 x 18 m

woodworking panel Automatic Inert Coating Line high glossy skin feeling surface

An automatic inert coating line for decorative panels. Inert technology produces high gloss, matt and skin feeling surfaces directly on the panel, and the film costs much less than PET. After inert processing the panel sells as a high end material, which is where the added value comes from. Three operators run the line at 12-20 m per minute inside a 6 x 18 m area on a minimum 70 kW supply.

Parameter	Value
Workers needed	3 persons
Line speed	12-20 m/min
Minimum power	70 kW
Working area	6 x 18 m

How To Order

Do you offer installation?

Machines are almost fully assembled before they are loaded into the container, so installation in your workshop is straightforward. Video guidance and an English manual are provided free. An engineer can be sent to site on request, with all costs in the buyer's account: two way transport between China and your factory, visa and insurance, hotel and meals in your country, plus USD 200 per day labour.

Where can we get replacement parts?

Most spare parts are held in stock and are sent to the buyer directly from our warehouse at original prices.

How long does it take to get replacement parts?

Common spare parts can be delivered by express within one week. Some parts can be purchased locally.

What technical support do you offer?

Technical support by phone, email or WhatsApp and Skype around the clock, an English version manual with operation video, and an engineer available to service machinery overseas.

Do you have machines in our country?

Machines have been sold to more than 20 countries, including Russia, Singapore, Uzbekistan, the USA, Malaysia, Peru, Colombia, Vietnam and Slovakia.

Can the machine be customised?

Yes. Machines are customised to the buyer's requirement, which is how almost every order is built.

What other machines do you offer?

A one-stop range of woodworking machines: sanding machines, UV dryers, roller coating machines, painting machines and conveyors.