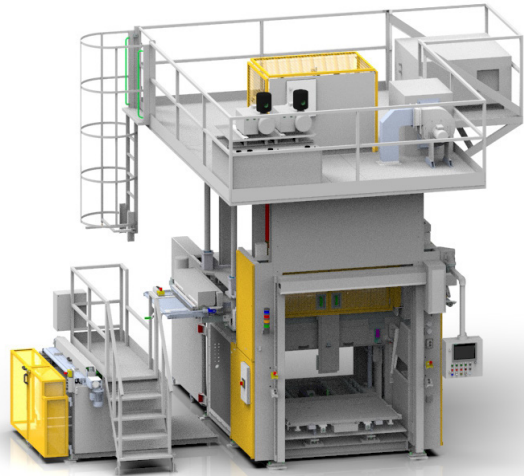




# HIDRAGRUP

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VACUUM

## THERMOCOVERING MACHINE.

### Main Characteristics.

Moulding surface.	Max 1600 x 1000 mm.
Max moulding height.	1700 x 1100 x 2300 mm.
Foil storage.	Reinforced structural tubes.
Lower table vertical stroke.	3500 Kg.
Tool data.	
Lower tool plate.	Max 1700 x 1150 mm.
	Min 1360 x 1000 mm.
Upper tool plate.	Max 1600 x 1000 mm.
	Min 1200 x 750 mm.
2nd Upper tool plate	Max 1600 x 1000 mm.
	Min 1200 x 750 mm.
Height tool (1st upper tool).	800 mm.
Height tool (2nd upper tool).	1000 mm.
Max total tool weight.	3000 Kg.
Max weight of upper tool.	1000 Kg / upper tool.

### Structure.

Built with steel structural tube St52.  
Vacuum chamber completely sealed.  
Automatic front door of 2000 x 1250 mm.  
Front open window 1950 x 1200 mm.  
Oil level control during heating process.  
Platform located in the upper part.  
4 electric 0,25 kW fans for foil cooling.  
Upper table: 800 mm vertical stroke.  
4 clamping units.  
Roller door in the operator side.



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## **THERMOCOVERTING MACHINE.**

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### **Moulding table + sliding feeding table.**

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Moulding table will be guided by columns.  
Approx. Dimensions 1750 x 1600 mm.

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### **Heating stations.**

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Pneumatically actuated movement with shock absorbers.  
168 HQE heaters of 400 W in lower plate.  
167 HQE heaters of 400 W & one heater of 300 W in the upper plate.  
1 refrigerated pyrometer in the upper plate station to read the temperature of the foil.  
4 pneumatic cylinders with valves of 3/8 " station to read the temperature of the foil.  
HS724 SIEMENS heating system.

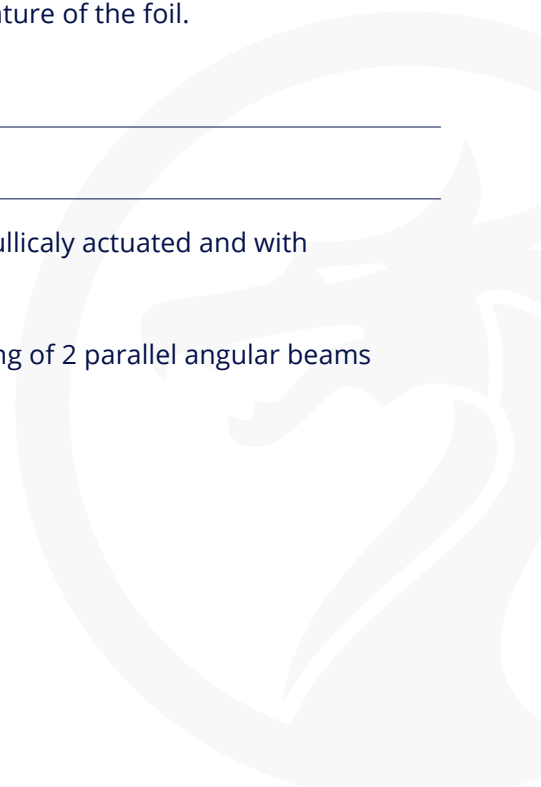
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### **Frame system.**

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Fixation/clamping system for the lower frame will be installed, hydraulically actuated and with control of its position.

Fixation/clamping system for the upper tool will be installed, consisting of 2 parallel angular beams synchronism and hydraulically actuated.





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## VACUUM

### **THERMOCOVERTING MACHINE.**

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#### **Vacuum equipment.**

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2 x 300 vacuum pumps.  
2 Vacuum accumulator/tank with 500 l capacity.  
85% vacuum in 3 seg.

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#### **Foil Storage & Transport.**

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Ø1000 mm rolls.  
Un reeling using electric motor.  
Intermediate foil accumulator (2 strokes) for roll change.  
Synchronised mechanic brake.  
Feeding through pinch chains.  
Manual adjustment of width.  
Motor control using frequency driver and encoder for the control of measurements.

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#### **Electric installation.**

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PLC S7 SIEMENS.  
Terminal TP 270.  
Electrical cabinet.  
Synchronised mechanic brake.

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#### **Options.**

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Control pyrometer.  
Control Vacuum.  
Control of Foil Joints.  
Transfer for 2nd upper tool.  
Tilting table.  
Storage and pre-cut sheet manipulator.  
Machine communication/traceability system.  
Modem for remote assistance.

Tool Change Trolleys.  
Pre-stretching of foil in the transport.  
Cutter and manipulator of the cut sheets.  
Air Cooling system.