



MADE IN ITALY

IDEAL MELT

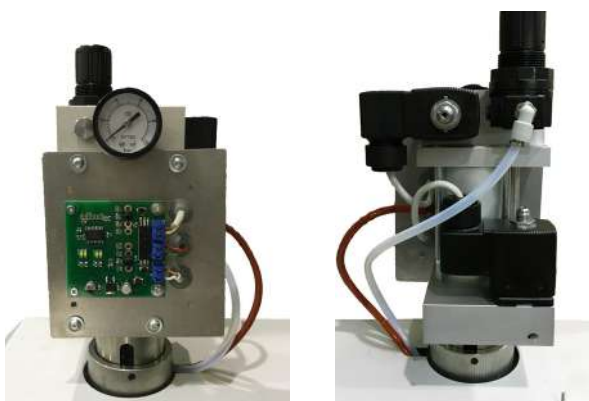
The new range of tank melting systems **IDEAL MELT 5 & 12** has born. Their production is totally **MADE IN ITALY** and represents the best choice to get advantageous prices, optimal performances, reliability and modularity.

- Safety • Saving energy • Lowered cost
- Full compatibility with the principal "BRANDS" of the market



Touch Screen Operator Panel

The new systems are equipped with 4,3" and 7" **touch screen operator panel** or symbolic intuitive control, two levels of filtration, improved insulation, integrated pattern control, automatic timer and saving-energy function, arrangement to fit an automatic feeder. Everything makes IDEAL-MELT the most suitable device to be installed on any automatic or manual machine present in the packaging market.

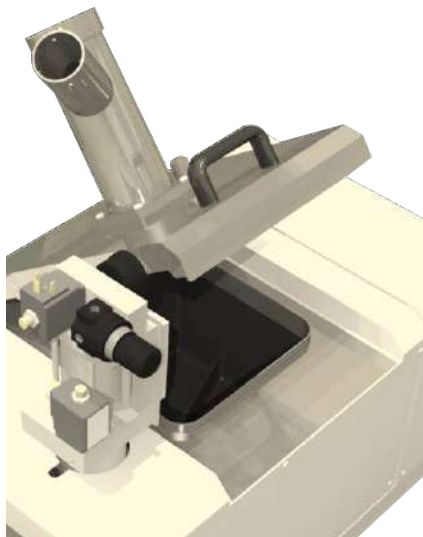


A new generation **pump** with electro-magnetic exchanger, compression ratio 1:13 and pressure regulator installed directly on the pump enable to change the quantity of the adhesive at any time.

The **high flow stainless steel filter** of the pump and the **primary filter** installed in the tank prevent possible impurities present in the adhesive from reaching and contaminating both the heated hoses and the jetting heads. Their replacement is easy, rapid and safe.

Tanks available 5 and 12 liters: the accurate study and design of the heat - exchange wings of the tank, so as the improvement of the electronics, enabling to cover and meet all melting requirements **from 0,5 up to 14 kg/h**.

Thanks to the flexible structure of the system, it's possible to set it up quickly and easily from 2 up to 6 heating zones.



The total and practical opening of the frame, along with the right and left opening of the lid enable a fully integration of the system on the production lines, ensuring an optimal operating space in any condition of installation.

The gradual and sequential heating ensures a homogeneous melting, avoiding adhesive's charring.

Ideal-Melt systems guarantee high levels of safety: all components are CE certified and the heated parts of the unit are fully insulated, with significant decrease of the energetic consumption.

The system works by means of connections **Plug & Work**: connecting the unit to the electrical and compressed air system, IDEAL-MELT is operating after approx. 30 – 40 min.

Additional equipment: capacitive adhesive level sensor, remote operator panel and glue automatic feeder Ideal-Fill. All Ideal-Melt systems can be implemented at any moment when needed.

A special **pressure drain kit** (optional) enable to drain automatically the pressure of the hydraulic circuit in case of production downtime, improving the operator's safety.

Technical Data	
Tank capacity	5 and 12 liters
Melting rate	from 0,5 to 14 Kg/h
Piston pump	Ratio 1:13
Max. pressure pump	90 Bar
Viscosity	100 - 15.000 cps
Heating zones	from 2 up to 6
Operating temperature	100 - 210 °C
Operating voltage	240VAC - 400VAC
Max. power absorbed	5.000 W Max
Compressed air feeding	max 6 Bar
Weight	from 40 to 60 Kg

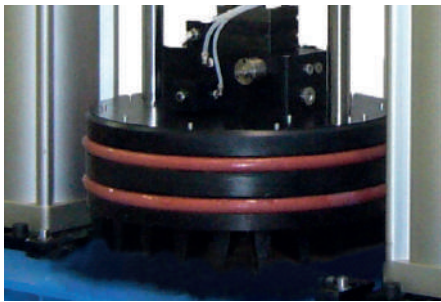
Main advantages:

- Ergonomic structure (easy and fast maintenance)
- Integrated unit controller on request
- Possibility to install additional equipment at any time if needed
- Precise and user friendly electronics
- Perfect compatibility with the main brands on the market
- Integration of the system in the machine control
- Minimum operator training required
- Lower costs of maintenance and management

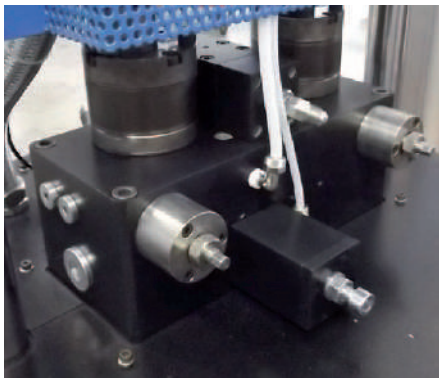


DRUM LINE

The Idealtech Drum Un-loaders have been designed for melting and dosing different kind of adhesives, like hot melt EVA, Pressure Sensitive, Polyamide and Polyurethane. A precise temperature control system is able to control and regulate separately each heating zone: the melting loader, the pump, the heated hoses and the automatic/ manual guns. The standard version of the product can run N. 4 external heating zones, extensible to N. 8 ones.



Melting plate



Gear pump



The **Drum line** is the best solution for processing high quantities of hot melt, particular sealants or PUR-hot melt. Moreover, in case of PUR, the closure of the melting loader and the air discharge system enable to preserve the adhesive from undesired filaments, caused by the contact with air humidity.

The **gear pumps** ensure a precise dosage of the adhesive. The choice of the pump depends on the supply capacity desired, so as the viscosity of the product used.



The **sealing gasket** can endure temperatures above 200° C. The double-gasket system guarantees a perfect adherence to the internal drum's surface.

It's possible to run the machine's functions directly from the **touch screen operator panel**, such as:

- Temperature handling
- Control of pump's speed
- Switching on /off the system.

The level of the drum and possible failures/anomalies are automatically displayed.

The choice of the **melting plate** depends on the product type to be melted and on the melting rate required by the processing. The Drum melting system can be equipped with:



FLAT PLATE

characterized by an easy and rapid cleaning, suitable for low melting and PUR adhesives.



RIBBED / FINNED PLATE

thanks to the wider surface of contact, it's suitable for high melting adhesives. Recommended for adhesives with low fluidity and adhesives which require high melting.



The Drum Line can be predisposed on request for Tandem Work of two systems, avoiding production downtime due to the change of the drum.

Technical details:

Code	Melting Rate	Pump Rate	Type of Melting Drum	N° of pumps
DR - 20 - L1	Max melting 8 - 10 kg/h*	38 kg/h	Flat	1
DR - 20 - A1	Max melting 10 - 12 kg/h*	48 kg/h	Ribbed	1
DR - 200 - L1	Max melting 40 - 50 kg/h*	144 kg/h	Flat	1
DR - 200 - L2	Max melting 40 - 50 kg/h*	96 kg/h	Flat	2
DR - 200 - A1	Max melting 70 - 80 kg/h*	144 kg/h	Ribbed	1
DR - 200 - A2	Max melting 70 - 80 kg/h*	144 kg/h	Ribbed	2
DR - 200 - AH1	Max melting 100 - 120 kg/h*	192 kg/h	Finned	1
DR - 200 - AH2	Max melting 100 - 120 kg/h*	192 kg/h	Finned	2

* Melting for EVA adhesive.

The melting rate depends on the adhesive used.



MADE IN ITALY

EXTRUDER LINE

The new range of Idealtch Screw Extruders are the most suitable systems for melting adhesives that are generally complex to be processed by the usual melting tank systems. ID Extruders are particularly suitable for processing high quantities of polyamide, polyester and polyolefine. The melting of the product is always homogeneous and constant thanks to the special geometry of the extruder screw.

Touch Screen Operator Panel



Stabilization Blower's Fans

P.I.D. modular temperature control

Dosing pump station

Dosing pumps for automatic basis weight control



Using an extruder is especially advisable for applications requiring high melting rate and where are used adhesives tending to oxidize whether maintained at high temperatures for a long time. Thanks to the extruder's working, the adhesive oxidation process is stopped: the special shape of the extruding screw enables the return of air into the hopper as soon as the adhesive's melting and compression phase is starting. The operating temperatures are included between 60 and 300°C; the heating zones are controlled by means of PID digital heat regulators.



Motor

Technical details:

- **Melting rate** from 60 to 3000 kg/h
- **AC Motor** drive asynchronous 3-phases, servo-ventilated, started up by means of vector inverter
- **Gear Motor** triple reduction, with duty helical gear, thrust housing bearings, provided with a pressurized water cooled lubrication system
- **Cooling system** through a forced water circulation chiller
- **Extrusion screw** manufactured with nitrided steel 41 CRALMO7 NITR (1050 HVC)
- **Stainless steel feeding box** manufactured in AISI 304 steel, equipped with adhesive level sensor and **"Granulate Shaker Set"** (optional)

- **Digital Pressure Regulator**
- **P.I.D.** modular temperature control
- **PLC** and **touch screen operator panel**
- **Dosing pump station** for direct feeding of the coating heads and automatic control of the basis weight. The station includes 1 or more gear pumps with Brushless motors and variable pump rate in relation to the customer's requirements



Hopper



Extrusion Barrel

Part number	Description	Motor Power
ID - EXT - 60	Extruder System, melting rate 60 Kg/h with thermal plastic adhesive	7,5 Kw
ID - EXT - 80	Extruder System, melting rate 80 kg/h with thermal plastic adhesive	9,5 Kw
ID - EXT - 140	Extruder System, melting rate 140 kg/h with thermal plastic adhesive	15 Kw
ID - EXT - 200	Extruder System, melting rate 200 kg/h with thermal plastic adhesive	22 Kw
ID - EXT - 400	Extruder System, melting rate 400 kg/h with thermal plastic adhesive	45 Kw
ID - EXT - 600	Extruder System, melting rate 600 kg/h with thermal plastic adhesive	80 Kw
ID - EXT - 1000	Extruder System, melting rate 1000 kg/h with thermal plastic adhesive	132 Kw
ID - EXT - 1500	Extruder System, melting rate 1500 kg/h with thermal plastic adhesive	200 Kw
ID - EXT - 3000	Extruder System, melting rate 3000 kg/h with thermal plastic adhesive	250 Kw

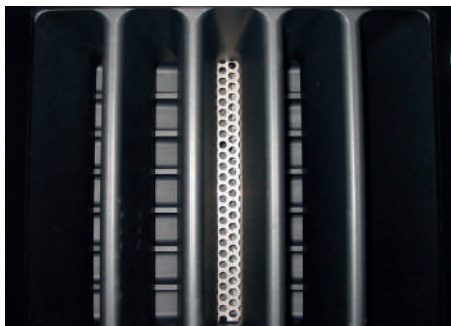


ASSY LINE

The Assy Line Hot-melt Glue Systems have been designed to melt and distribute with precision a high quantity of thermoplastic adhesive. Easy to use, with a modular structure and is designed in order to optimize the productive cycles and reduce the costs. Sturdy and flexible, the system offers an extreme accessibility to all primary components, making easier and faster ordinary operations of maintenance. Thanks to their features, they can be easily installed on any production line.



PLC Control Panel

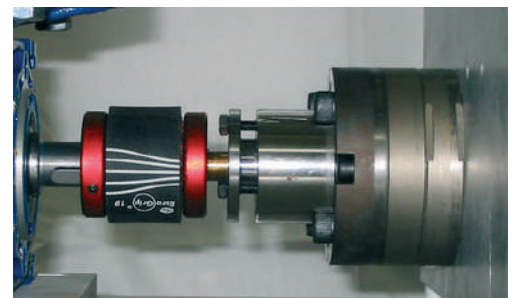


Inox Filter



The Assy Line Hot-melt Glue System is equipped with:

- AC MOTOR
- PRESSURE CONTROL VALVE
- GEAR PUMP/S
- HIGH FLOW STAINLESS STEEL FILTER
- ADHESIVE LEVEL SENSOR
- TOUCH SCREEN OPERATOR PANEL



Gear Pump



Gears pumps (available with different capacities) enable a regular application, without any variation of capacity during the adhesive's application, maintaining therefore the adhesive's basis weight even when the speed of the product is variable.

A **high flow stainless steel filter** is fitted on every pump output to block entirely all impurities, which could be present inside the adhesive, preventing the heated glue hoses and the nozzles from undesired obstructions. The level of the adhesive in the tank is controlled by an **adhesive reading sensor** installed inside the melting tank.

The Assy Line Systems can be easily interfaced with production lines run by **Profibus, Profinet or Modbus**. A PLC **touch screen operator panel** enables a direct control of the dot mode and the basis weight.

The **temperature control** is carried out by a microprocessor or by P.I.D. heat regulators and each heating zone is independently controlled ensuring ± 1 degree precision.

Technical details	Assy 24	Assy 60	Assy 100	Assy 150	Assy 300
Glue tank capacity	24 liters	60 liters	100 liters	150 liters	300 liters
Tank Opening	170x370	320x320	420x420	420x420	840x840
Melting Rate *	12 Kg/h	40-50 Kg/h	70-80 Kg/h	120-140 Kg/h	280 Kg/h
Number of gears pumps	1 or 2	1 or 2	1 or 2	1 or 2	1/2/4
Gears pump capacity	from 4 to 144 Kg/h				
Distribution pressure	Max 80 bar				
Viscosity	100 - 80.000 mPas				
Motor/s	Motor/s AC/400V				
Motor power **	From 0,37 to 0,55 Kw				
External heated zones	Max 12 (6 hoses / 6 applicator heads)				Max 16
Operating temperature	20 - 210° C, tolerance +/- 0,5° C				
Electrical connections	400 Volt, 3 LNPE, 50/60 Hz				
Power ***	10-20 kWatt	15-30 kWatt	15-30 kWatt	15-30 kWatt	30-60 kWatt
Dimensions (Length x Width x Height)	900x610x856	1135x610x880	1130x610x1430	1190x610x1430	1190x1220x1430
Weight	200 kg	250 kg	270 kg	310 kg	700 kg

* The adhesive type influences the melting rate.

** It changes in relation to the type of pump fitted.

*** It changes in relation to the number of hoses and applicator heads connected.



MADE IN ITALY

HOSE LINE



I tubi elettroriscaldati della serie HOSE LINE sono stati studiati e realizzati per poter essere utilizzati su tutti i principali sistemi di applicazione per adesivi hot melt (disponibili con sonda PT100, NI 120, FE-CO, NTC).

Grazie all'utilizzo di materie prime di alta qualità, i tubi elettroriscaldati IDEALTECH risultano **ROBUSTI** e **FLESSIBILI**.

Disponibili in vari modelli (standard, alta temperatura, spray, water proof e speciali su richiesta) ed in diverse lunghezze, garantiscono precisione nell'applicazione, sicurezza ed affidabilità.

Un guscio rigido racchiude le estremità del tubo

La robusta maglia antiusura in poliestere o poliamide conferisce al tubo resistenza ad urti e abrasioni

La guaina in schiuma siliconica garantisce un perfetto isolamento

I cavi con isolamento in PTFE per l'alimentazione delle pistole applicatrici sono avvolti intorno alla resistenza.

Il nastro isolante in fibra di vetro consente alla resistenza di aderire perfettamente al tubo.

La precisione dei sensori di rilevamento garantisce una temperatura omogenea

La resistenza distribuita in maniera uniforme su tutta la lunghezza del tubo garantisce un trasferimento efficiente di calore ed adesivo.

L'anima in teflon favorisce il flusso dell'adesivo, rinforzata da una rete flessibile che permette una resistenza maggiore alle alte temperature.



MADE IN ITALY

HOSE LINE



The heated glue hoses HOSE LINE has been designed in order to be used on the main hot melt application systems (available with PT100 sensors, NI 120, FE-CO, NTC).

Thanks to the use of quality raw materials, Idealtech heated glue hoses have a sturdy and flexible structure.

Available with different models (standard, high temperatures, spray, water proof and special on request) and different lengths, they ensure precision, safety and reliability.

The hose's extremities are contained inside a rigid end cover.

The hose is covered externally by a strong anti-wear mesh in polyester and polyamide, which enables a good endurance to abrasions, impacts and heat.

The heat insulation is ensured through a silicone foam sheath, which guarantees a total insulation.

The PTFE wires for applicators' feeding are wound round the heater during the production phase.

A layer of glass fibres insulating tape enables a perfect adherence between the heater and the internal hose.

Thanks to the perfect working of the reading sensor, the heat is homogeneously distributed along the hose.

The heating power is uniformly distributed along the hose length and ensures an efficient transfer of heat and adhesive

The internal core is composed by a teflon hose, reinforced by a flexible chromium-plated steel net to endure high temperatures.



MADE IN ITALY

GUN LINE

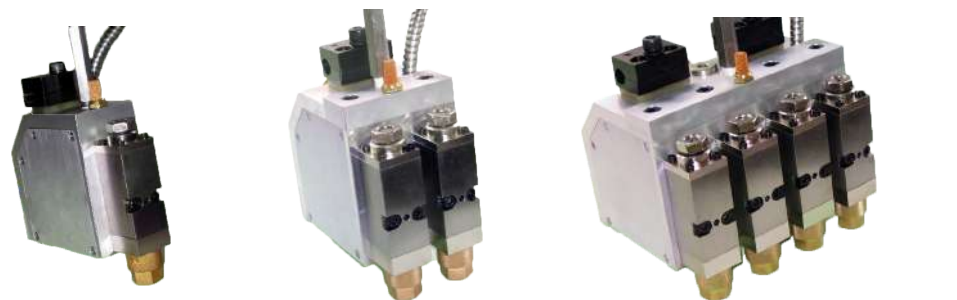
Le pistole automatiche Idealtech sono state studiate per poter applicare l'adesivo in cordoli, punti o strisce di varia larghezza. Sono modulari e possono essere realizzate in diverse configurazioni, con uno o più moduli, con filtro a grande portata o senza filtro, con una o più elettrovalvole per la gestione del tratto colla. Le pistole della serie Gun Line garantiscono una grande affidabilità nel tempo e grazie alla loro modularità e alle ridotte dimensioni, possono essere montate facilmente sulle macchine automatiche presenti sul mercato.



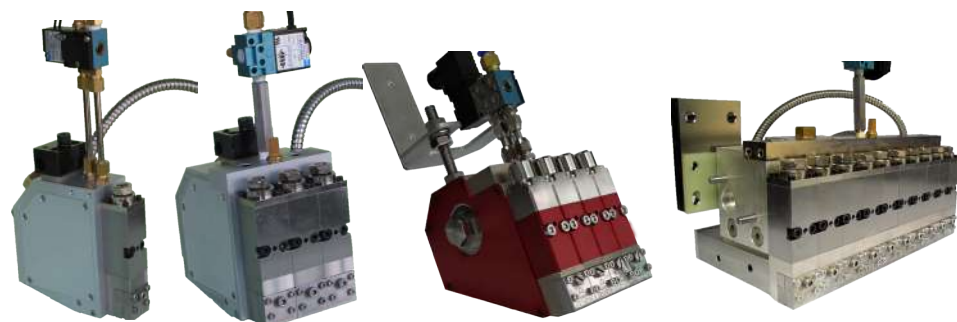
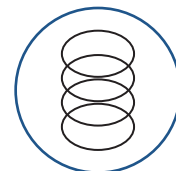
Mini modulo



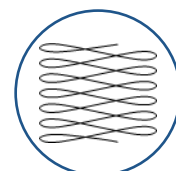
Multi modulo



Spray



TMF





MADE IN ITALY

GUN LINE

The automatic applicators by Idealtech have been designed in order to apply the adhesive in points or stripes of different length. They are modular and available with different configurations: one or more modules, high flow filter or without filter. It is possible fitting solenoid valves for running glue points and their width. Idealtech applicators ensure a remarkable and durable reliability; furthermore, they can be easily installed on automatic machines present on the market, thanks to their modularity and their contained dimensions.



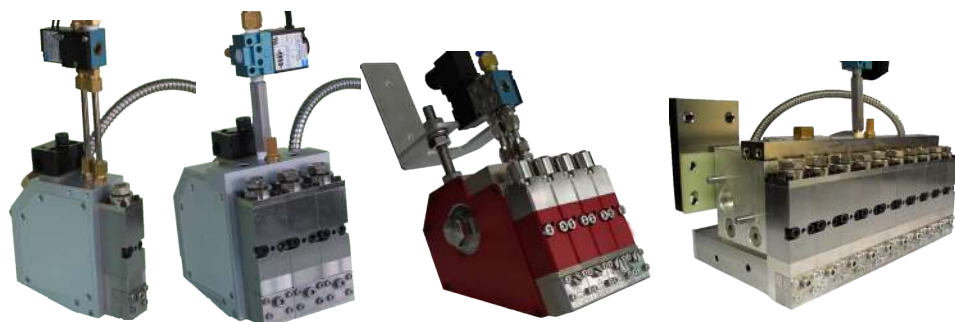
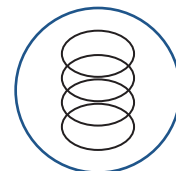
Mini module



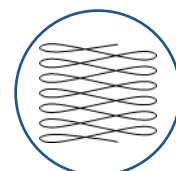
Multi module



Spray



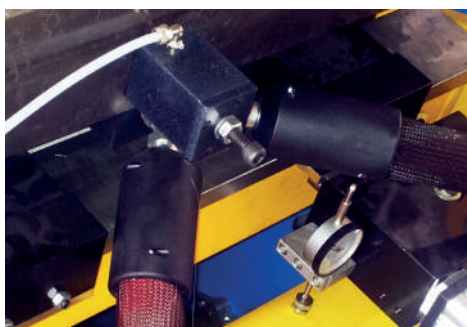
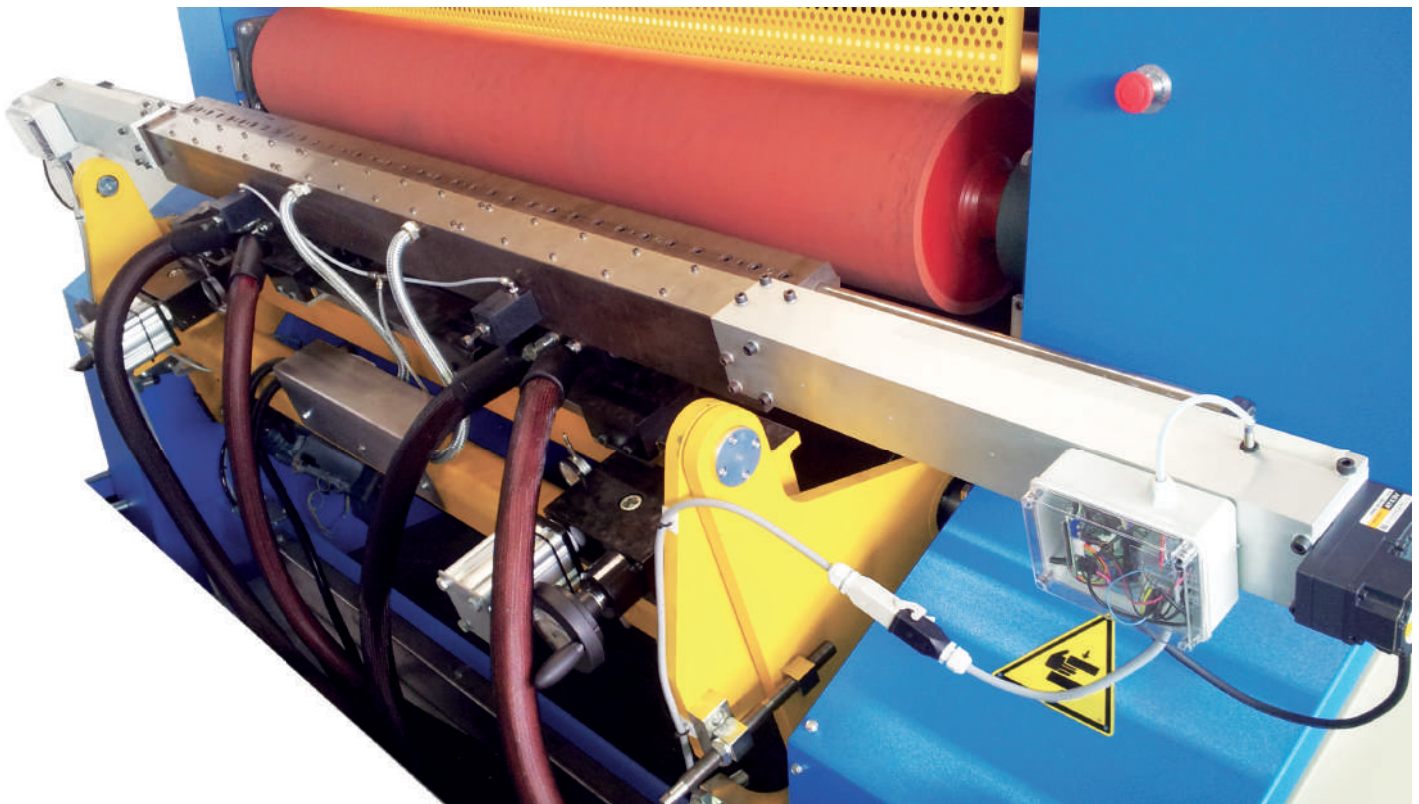
TMF



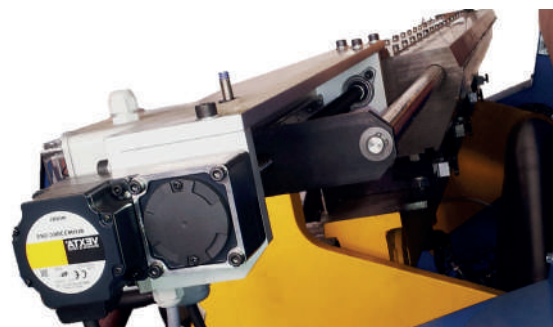


COATING HEADS

The ID Coating Heads meet the application especially in the wood industry for profile wrapping and panel lamination, so as in the textile coating industry for textiles or generally in all applications where it is needed matching two or more materials. The ID LV COATING HEADS are suitable for hot-melt coating application, guaranteeing a precise and uniform dosage of the adhesive. The ID LV Coating Heads enable to coat surfaces up to 2500 mm width.



*High flow feeding module
for coating head*

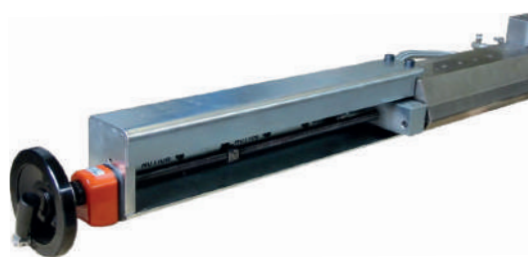
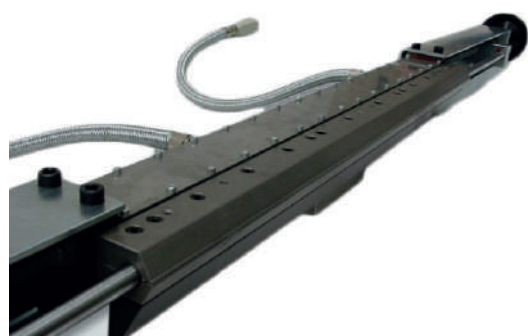
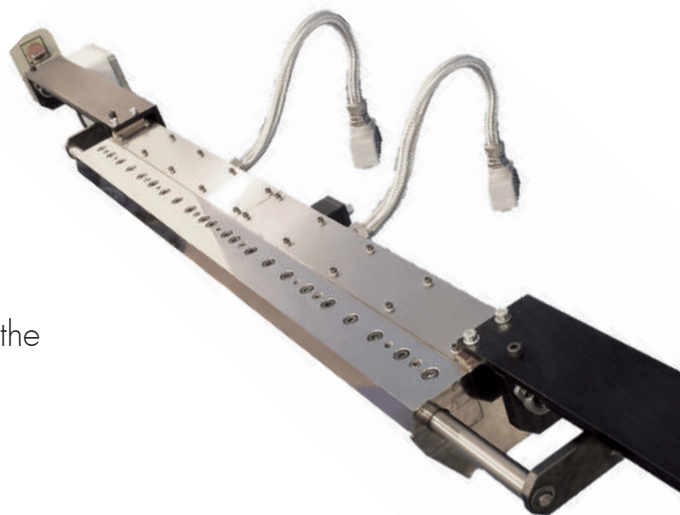


*Automatic adjustment of
the coating width*

It can be used **adhesives** such as EVA, pressure sensitive and polyurethane. The ID LV Coating Heads are suitable also for high viscosity adhesives (from 1.000 to 100.000 mPas).

Main benefits:

- Format-change speed;
- Manual or automatic adjustable coating width;
- Low maintenance costs;
- High precision dosage;
- Uniform and regular coating;
- Abrasion hardness thanks to a special surface of the coating nozzle (50 Rockwell).



The **integrated filters** installed on the feeding modules, prevent the contaminations present in the adhesive from reaching the coating nozzle, avoiding therefore the formation of lines or imperfections on the product smeared.

The ordinary **cleaning** is carried out simply opening the coating head at the maximum width level, in order to eliminate all possible residuals of adhesive.

The **adjustment** is carried out by means of a retaining bar equipped with an indicator of position on the left and on the right side. It works through of an adjusting wheel which turning of 360°, changes the coating width from the minimum level foreseen to the maximum one.

The adjustable coating width and the uniformity of temperature on the surface enable to measure out the exact adhesive quantity, reducing the production **costs** and improving the quality of the finished product.

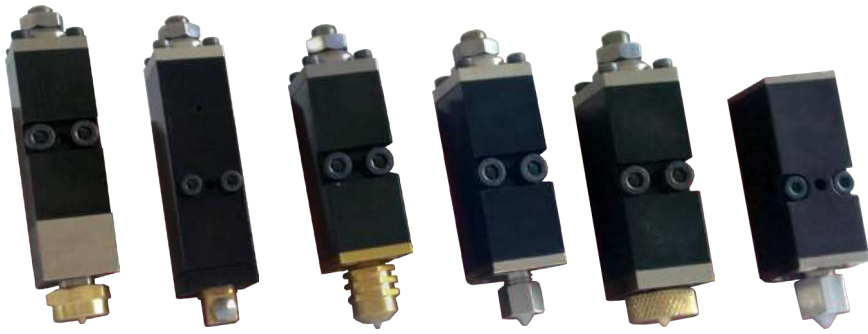
TECHNICAL DETAILS

Area of application	Continuous Adjustable Coating
Working temperature	Up to 220° C, precision $\pm 0,5^\circ$
Glue viscosity	1.000 . 100.000 mPas
Maximun coating width	2.500 mm
Working pressure	max 80 bar
Basis weight	From 25 to 200 g/m ²
Basis weight tolerance	Up to 50g/m ² $\pm 4\%$ - from 50g/m ² $\pm 6\%$
Power feeding	240Volt AC, 50/60 Hz
Heating power	1.000 Watt each 200 mm of coating width
Coating width	In relation to the model, with millimetric regulation
Optional	Motorization for automatic regulation of the coating



MADE IN ITALY

RICAMBI COMPATIBILI



Moduli

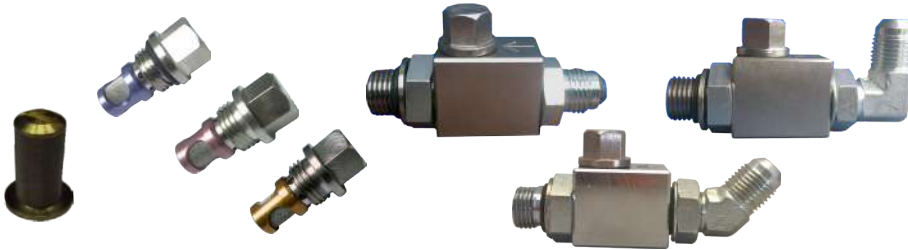
Applicazioni disponibili:

- punto/tratto colla
- spray
- spiro
- spalmatura

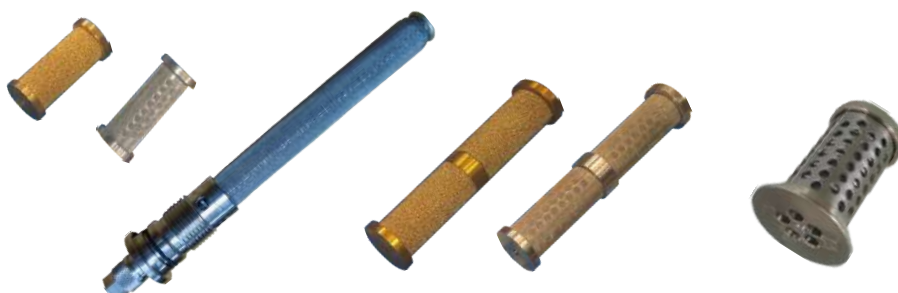
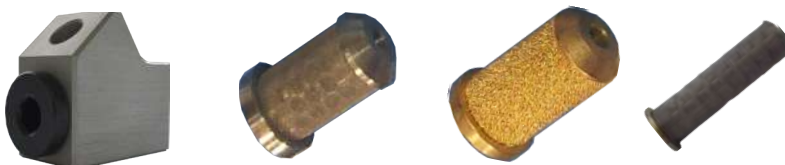


Ugelli compatibili

- dritto un foro
- dritto due fori / multi foro
- 90° 1 foro / 2 fori
- ribassati o zero cavity
- spray/spiro (unibody o dual body)
- ugelli per pistola manuale



Filtri pistola



Filtri vasca



MADE IN ITALY

SPARE PARTS



Modules

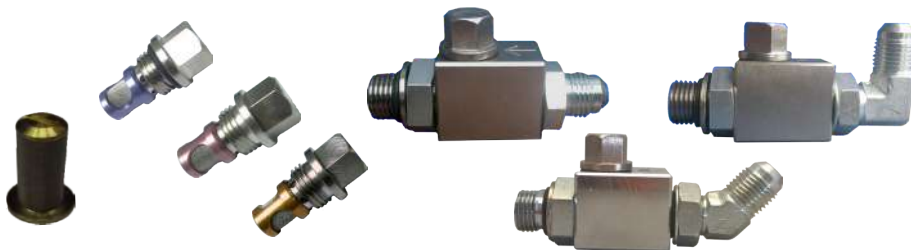
Applications available:

- bead
- spray
- swirl
- coating

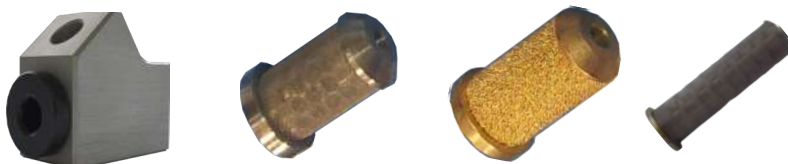


Nozzles

- straight single hole
- straight double and multi holes
- 90° single or double holes
- reduced or zero cavity
- spray/swirl (unibody or dual body)
- nozzles for hand guns



Gun filters



Tank filters