



## Slot Die for wide width

**HIP-MITSU**, an Italian company headquartered 15 minutes from the international Venice and Treviso airports, is one of the most qualified producers of *web-coating and laminating equipment*, in a field it has operated in for many years.

### Specialisation and steady research

In particular, the high specialisation in the production of coating heads and the steady research in product innovation are well testified by many international patents belonging to the company.

### A complete range

HIP-MITSU offers the largest range of coating heads, produced in various designs and sizes, which satisfy the requirements for any application needs.



### High quality raw materials

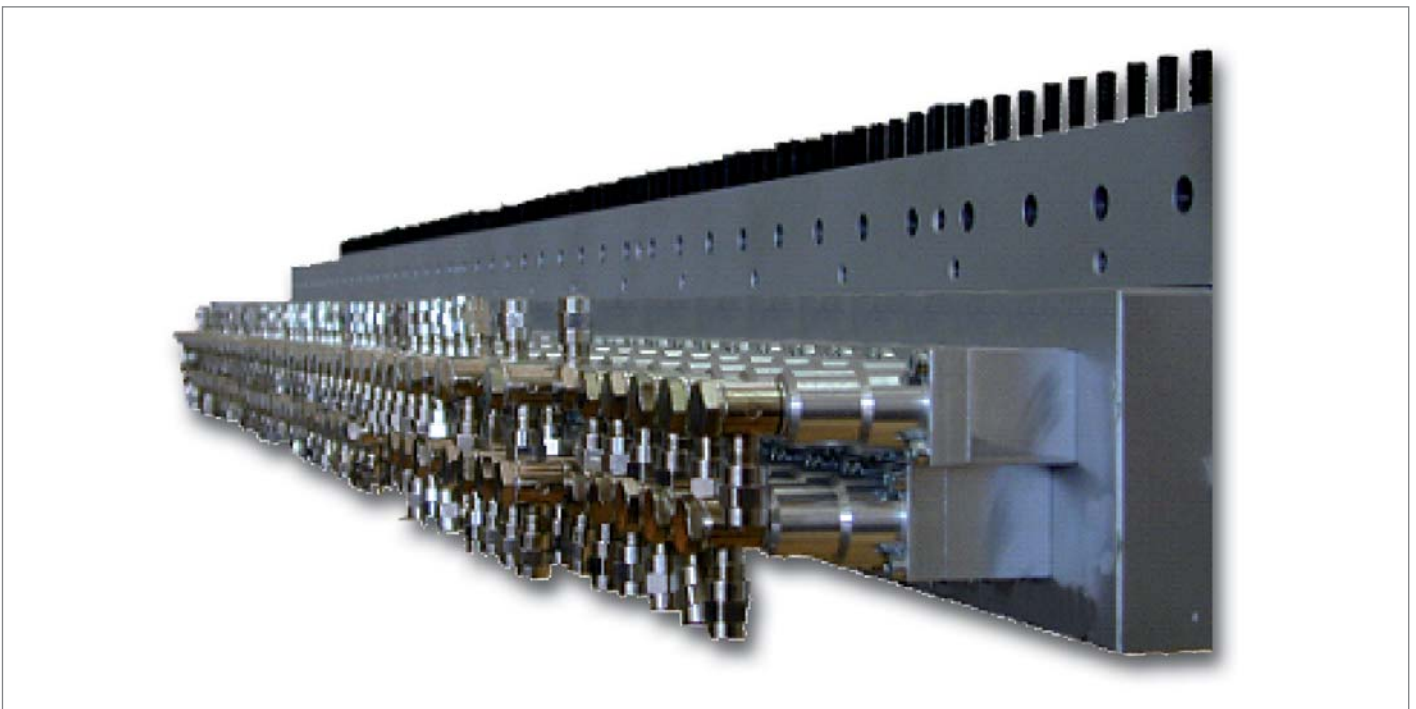
Such performances can be reached just thanks to the use of the most advanced techniques for raw material treating, through which the HIP-MITSU coating heads are produced.

### Reliability and reduced maintenance

Moreover design and raw materials guarantee a high reliability for the future in any working condition and a meaningful reduction of the line maintenance.

### Industrial application fields

HIP-MITSU coating heads are used for the application of hotmelt adhesives, also UV curable and PUR, as well of several ranges of thermoplastic polymers.



**Pattern**

All models of HIP-MITSU coating heads enable the production of the following contact applications:

- “fullcoating”
- “breathable”
- “multiline”

Such applications can be formed in the following ways:

- **continuous**
- **intermittent**
- **step, transversal section**

**Application precision**

The main feature of the HIP-MITSU coating heads is the extreme application precision (g/m<sup>2</sup>), both in machine direction (MD) and in cross direction (CD).

In this way it is ensured a perfect application in each situation.

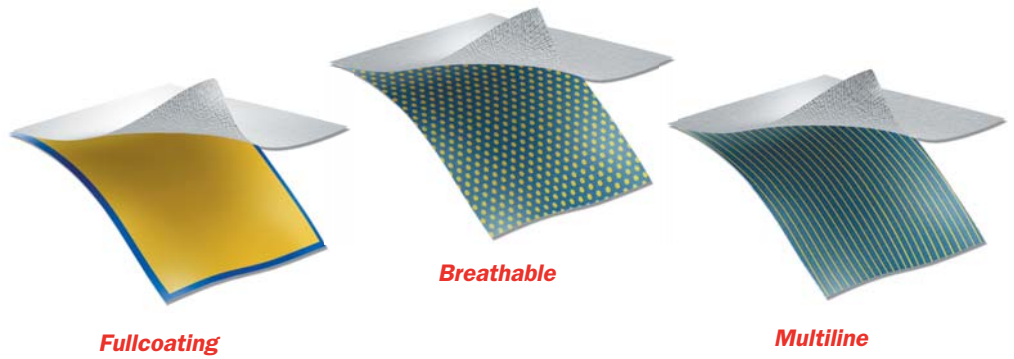
**Flexibility**

Flexibility is another main feature of the HIP-MITSU coating heads, which enable the operator to change quickly and precisely:

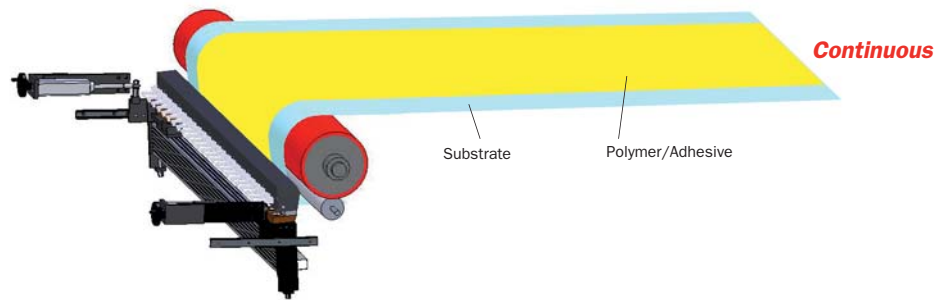
- working width
- applied product add-on-level
- coated product
- pattern (fullcoating - multiline - breathable)
- kind of application (continuous, longitudinal intermittence or transversal step application).

According to the model, such operations can be achieved in the following ways:

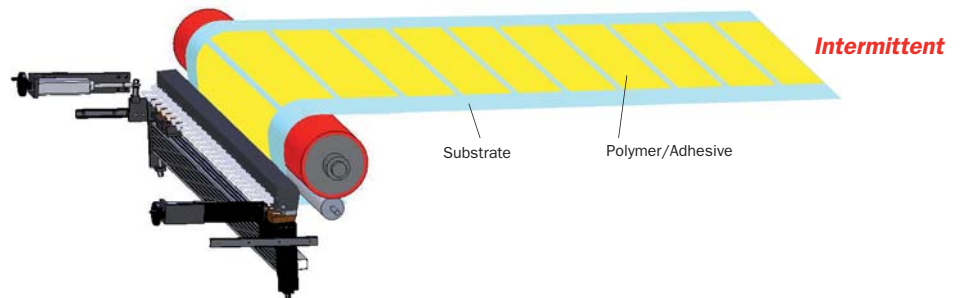
- **manual**
- **semi-automatic**
- **full automatic**



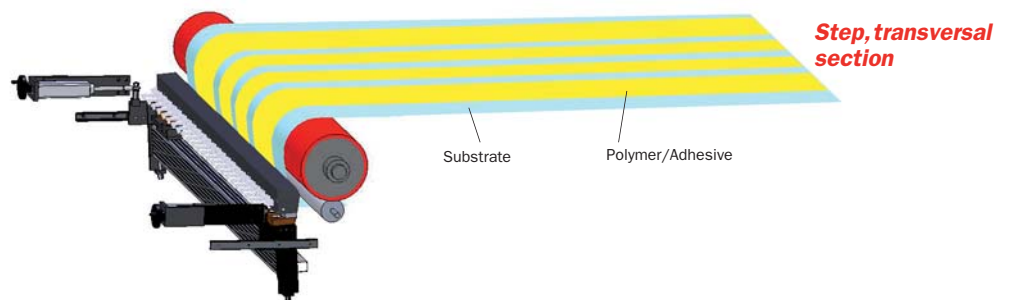
Pattern



Continuous

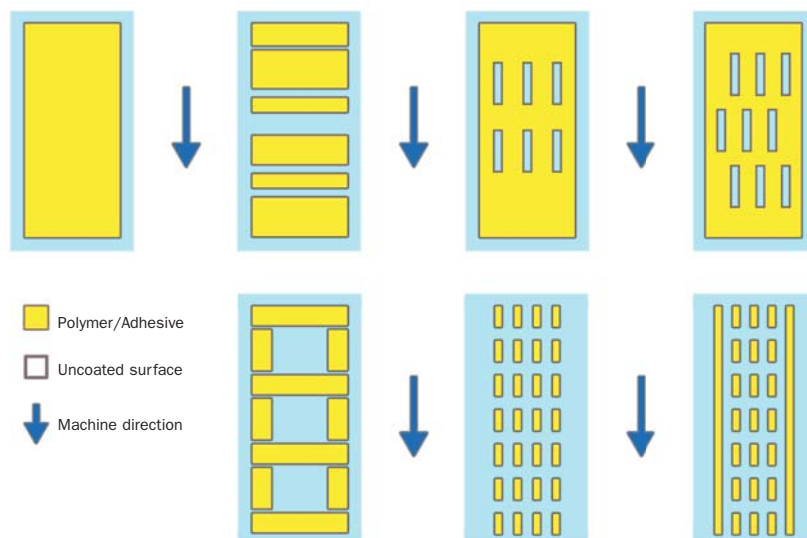


Intermittent



Step, transversal section

Applications



Some application examples

### Volumes and working position

HIP-MITSU coating heads are compact and can be equipped with all-purpose or customised supports, onto which to be installed.

The volumes here represented are approximate and can obviously change according to the models and supports.

Furthermore they can be used in any working position.

### Working position: "off-roll" concept

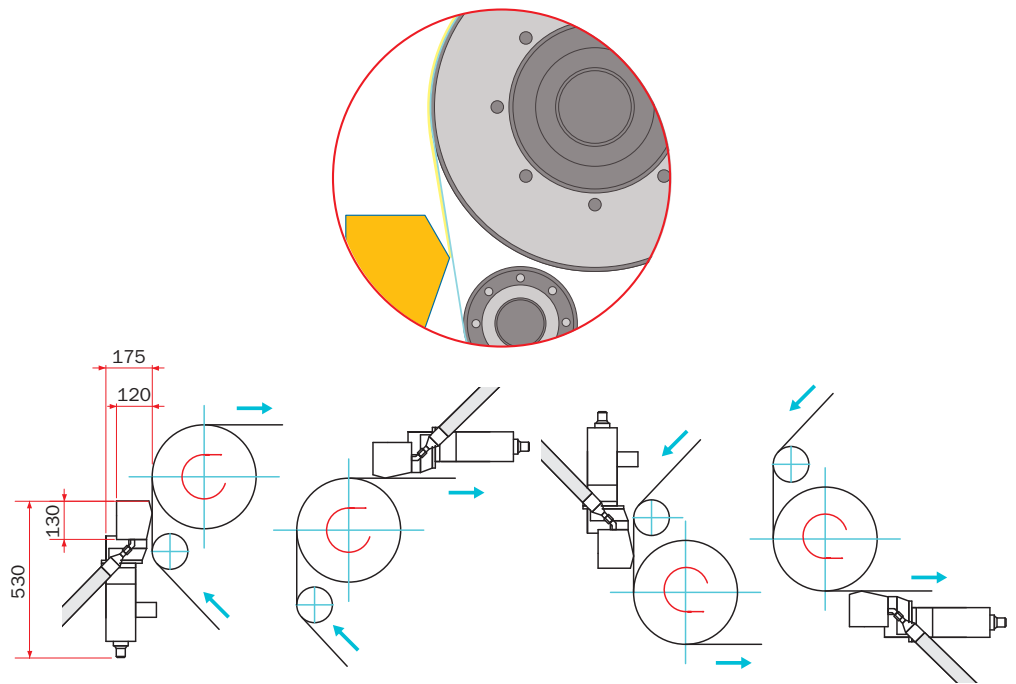
HIP-MITSU coating heads work in contact just with the substrate and not with the cylinder.

Consequently they do not cause any additional tension on the substrate and do not require any machine adjustment at each variation of the substrate thickness.

### Working position: "on-roll" concept

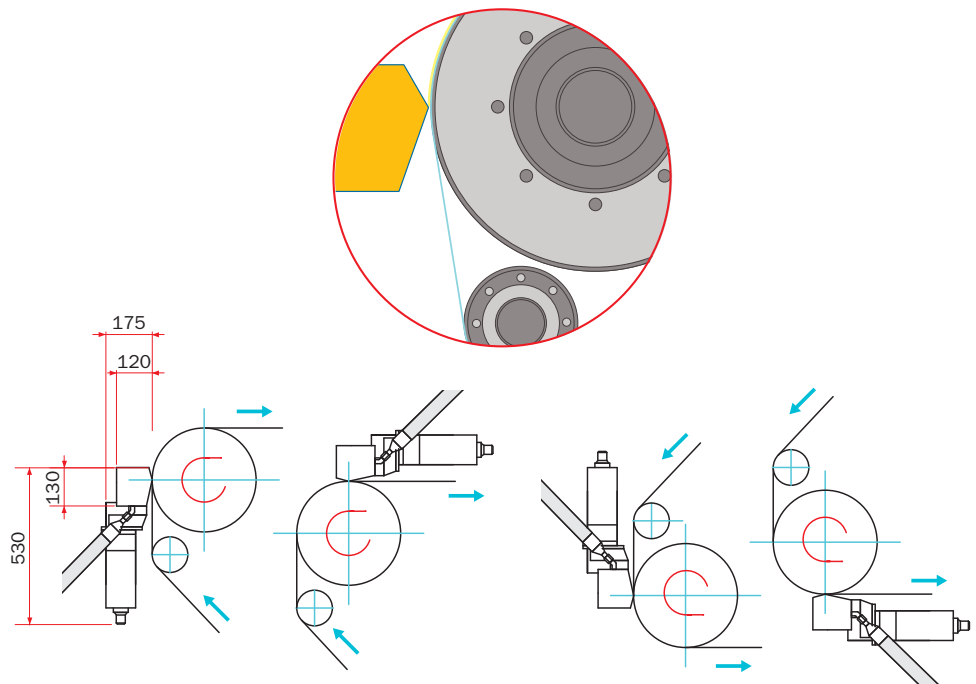
HIP-MITSU "on-roll" coating heads work in contrast with the cylinder.

### OFF-ROLL



Volumes and working position "OFF-ROLL"

### ON-ROLL



Volumes and working position "ON-ROLL"

### Cleaning during the application

HIP-MITSU coating heads are equipped with an extremely efficient cut-off system and enable to get an extremely clean application.

### Feedings

HIP-MITSU coating heads can be fed by:

- continuous cyclus melting units
- drum melters
- manifolds

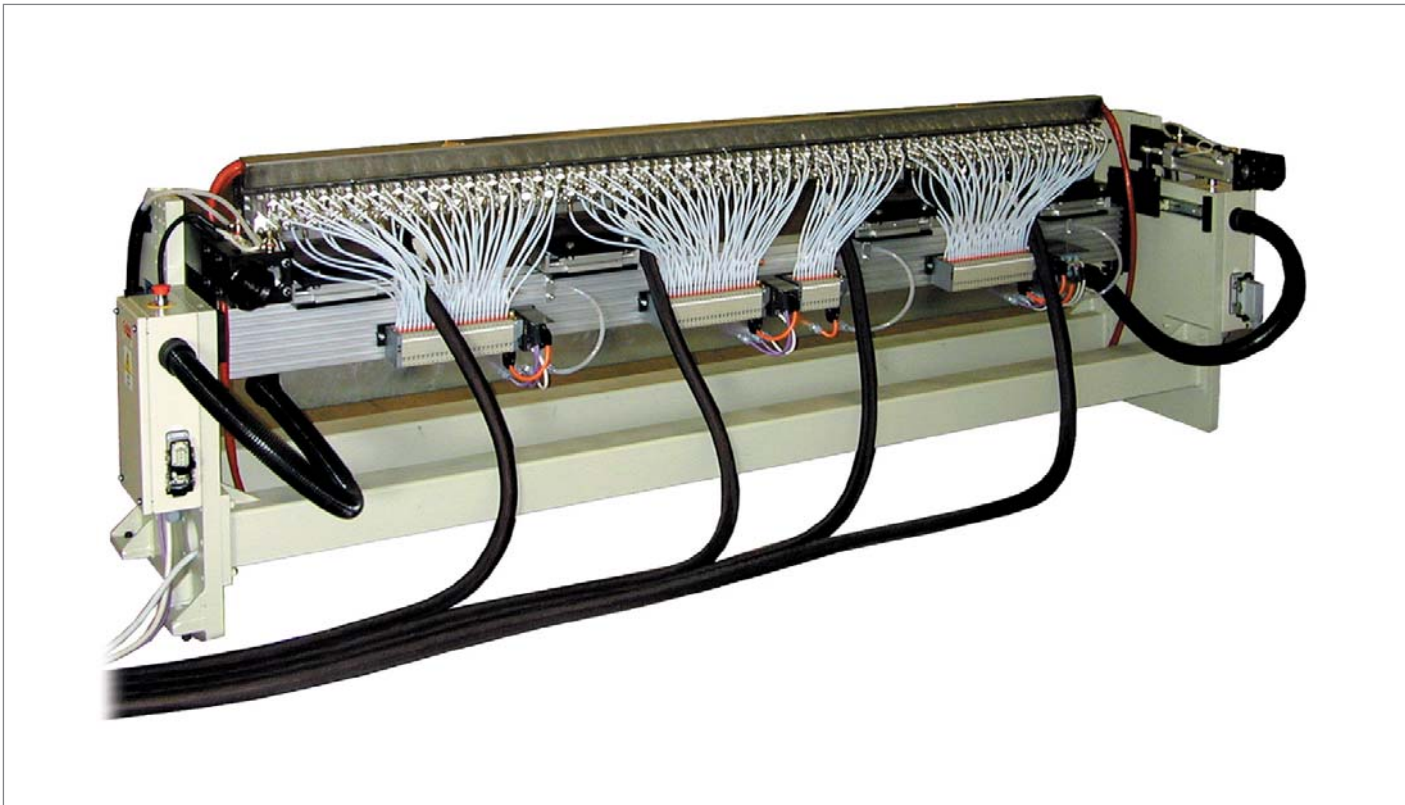
Incidentally, all the a.m. systems groups are made by HIP-MITSU in a complete range.

### Thermo-regulation

HIP-MITSU coating heads are thermo-regulated with shielded electric resistances and PT100 driving sensors and are always supplied cabled with quick fit pins.

### Control systems

The wide range of HIP-MITSU coating heads enables a User Friendly and integrated system management in different development levels, according to the operative needs.



**Technical Data**

The operative ranges into which HIP-MITSU coating heads can be used are:

Viscosity	from 100 up to 120.000 mpas
Min. working temperature	30°C
Max. working temperature	240°C
Min. working width	0,3 mm
Max. working width	6.000 mm
Min. adhesive add-on-level	0,02 g/m <sup>2</sup>
Max. adhesive add-on-level	1.500 g/m <sup>2</sup>
Min. line speed	1 m/min
Max. line speed	900 m/min



*add value to your production*

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