



MITSU “TOPCOAT” SYSTEM

COATING HEADS for dispersion products

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 which 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 the product innovation are well testified by many international patents belonging to the company.

A complete range for dispersion products

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 thanks to the use of the most advanced techniques for raw material treating, through which the HIP-MITSU coating heads are designed.

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 dispersion polymers such as water- or solvent-based adhesives, gels, lotions, ...

Recirculation and “all-in / all-out” modality

Thanks to the recirculation possibility and to the “all-in / all-out” service modality, all the HIP-MITSU coating heads enable to easily use also particularly difficult coating products a/o products that cannot be in standing time.

Automatic cleaning and changing product

HIP-MITSU coating heads can be easily cleaned, automatically and quickly.

In this way it’s enabled a quick coating products change, strongly reducing system dead times.



Pattern

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

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

Such applications can be realized in the following ways:

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

Application precision

The main feature of the HIP-MITSU coating heads is the extreme application precision (g/m²), both in machine direction (MD) and in cross direction (CD).

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

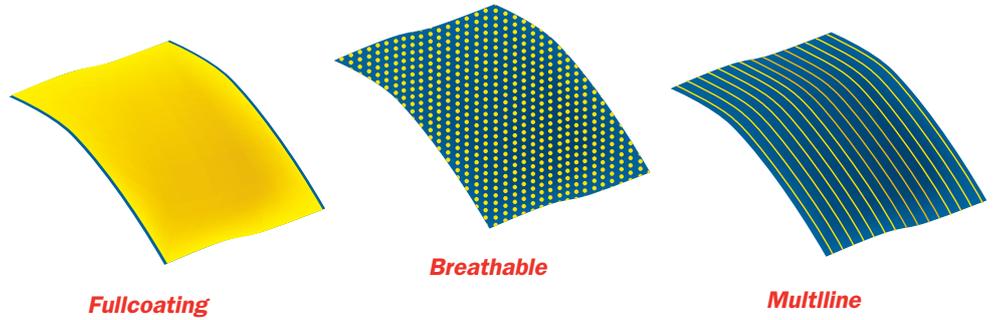
Flexibility

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

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

According to the model, such operations can be realized in the following modalities:

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

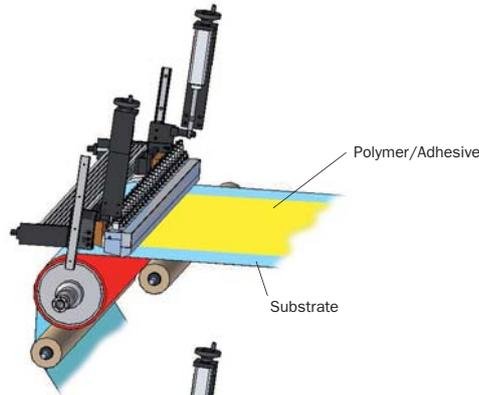


Fullcoating

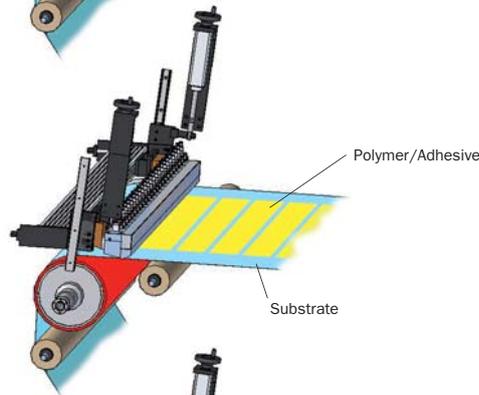
Breathable

Multiline

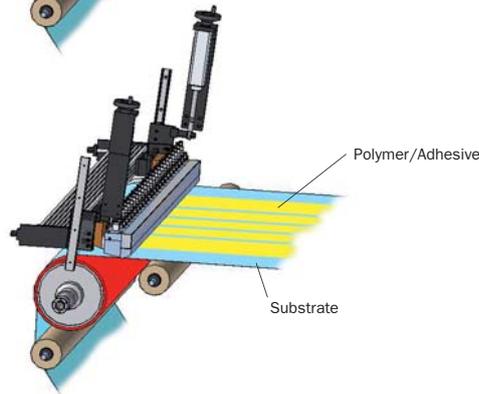
Pattern



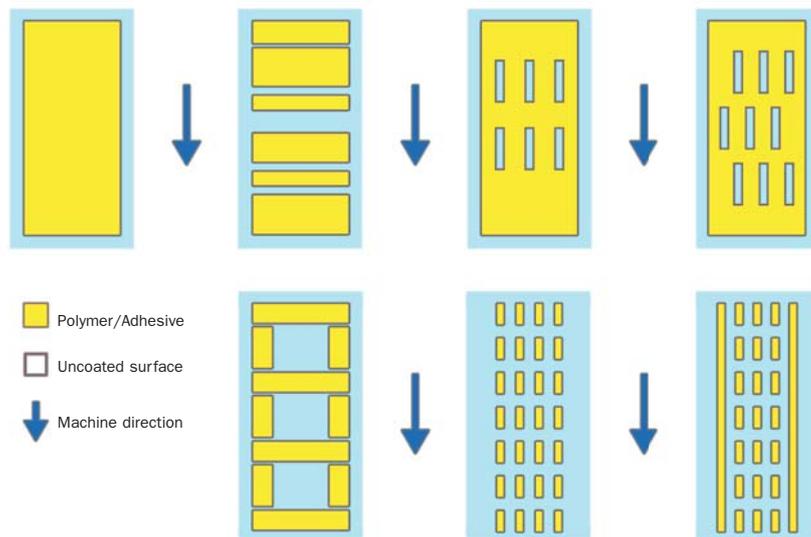
Continuous



Intermittent



Step, transversal section



Applications

Volumes and working position

HIP-MITSU coating heads are compact and can be equipped with all-purpose or customized 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

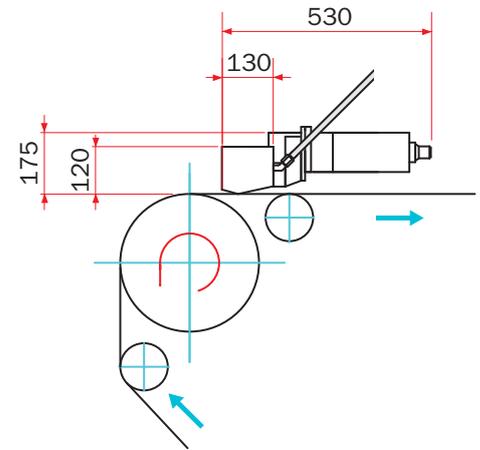
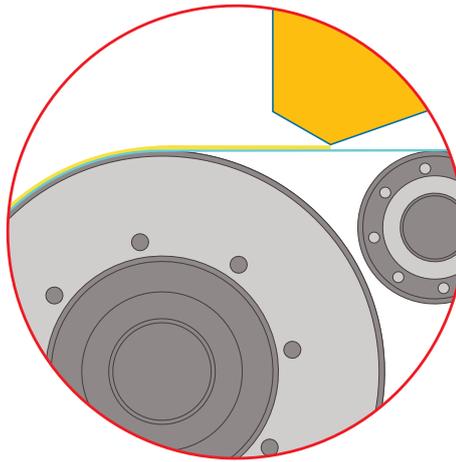
HIP-MITSU coating heads work in contact just with the substrate and not with the cylinder.

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

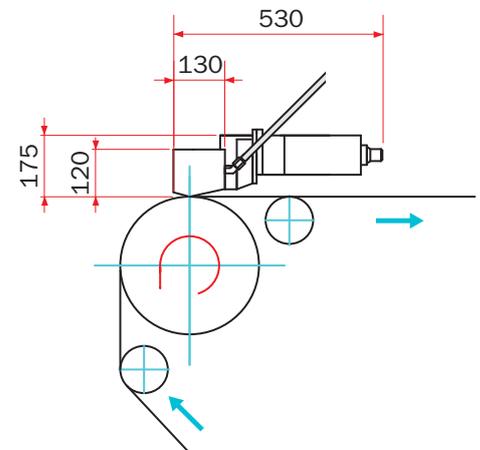
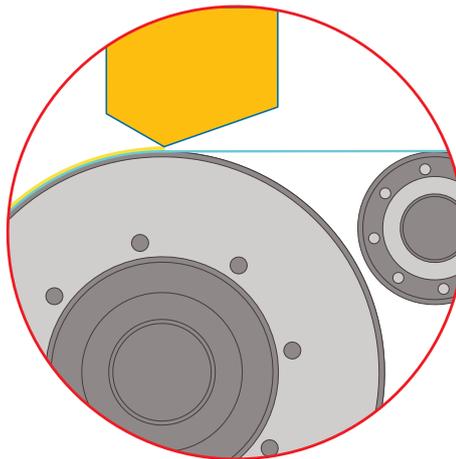
HIP-MITSU "on-roll" coating heads work in contrast with the cylinder.

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 pumping units
- manifolds

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

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	starting from 50 mpas
Min. working width	0,3 mm
Max. working width	6.000 mm
Min. add-on-level	0,3 g/m ² (*)
Max. add-on-level	500 g/m ² (*)
Min. line speed	1 m/min
Max. line speed	900 m/min
Working temperature	room or thermo-regulated

(*) Moist grammage.



add value to your production

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