

HIP-MITSU

DP HIGH PRECISION PUMPING UNITS for dispersion products/polymers

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 and the steady research in the product innovation are well testified by many international patents belonging to the company.

Industrial application fields

The HIP-MITSU range of high precision pumping units for dispersion of products/polymers supplies a complete solution to all use requirements for dispersion products/polymers, such as water- a/o solvent-based adhesives, gels, lotions,...

Precision

The main feature of the HIP-MITSU high precision pumping units is the absolute output precision and consistency, without dead points, that make them particularly suitable for such applications requiring a high level of coating homogeneity or a high finish degree of the coated product.

Dedicated materials and design

The dedicated design and the selected materials studied and used for the production of the high precision HIP-MITSU pumping unit guarantee against any deterioration affects of the processed product/polymer.



Blow-by and "all-in / all-out" modality

Thanks to the blow-by possibility and to the "all-in / all-out" working method, all the high precision HIP-MITSU pumping units enable an easy use of some particularly difficult products a/o the ones that can not standstill in the machine.

Ergonomics

The structure of all units is designed for enabling an easy access to each component. Moreover all the machine elements are joined with quick release connectors, which enable the supplementary maintenance. Fitted wheels enable an easy system moving.

Circulation with gear pumps

The different gear pumps models, with adjustable speed and possibility to be installed on all HIP-MITSU models, enable to configure the system optimizing the product/polymer output; any pump can support more hoses. The supplied product quantity can be increased or reduced according to the main line speed, adjusting automatically the RPM of the motor which drives the gear pump.

Anhydrous cap

The high precision HIP-MITSU pumping unit can be equipped with a management and control system for the injection of inert gas, in case some products must be used in anhydrous cap.

According to the features of the processed product the maintenance program can be easily customised by the user.

Reliability and reduced maintenance

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

Automatic cleaning - product change

The "multi-tank" philosophy

Thanks to our "multi-tank" philosophy, the high-precision HIP-MITSU pumping unit can be easily cleaned in a completely automatic and quick way.

Dead times are eliminated

Moreover the high-precision HIP-MITSU pumping units enable a completely automatic cleaning from the processed product/polymer of the output devices, enabling in such a way a quick production change and drastically reducing the dead times.

Control panel

The on-line control and monitoring of all main machine functions during working and stand-by phases is done through the centralised electronic control panel.

The control panel with simplified graphic interface includes:

- interface with the main line with the respective emergency devices
- protections against not suitable working conditions

Light tower for remote control

The main system state condition is signalled to the operator on-demand through a four colour light tower.

Daily and weekly timer

On the control processor it can be installed a weekly and daily timer, which provides in a full automatic way to the machine management, both concerning the working and the stand-by condition.

Reserve gauge

The devices are equipped with a warning light reserve gauge, which alerts in time the operator when the system must be refuelled.

Easy and automatic set-up

The changing of the set value can take place also when the machine is working, without stopping the line and completely eliminating the stop times.

Any operator can easily use the system, which provides automatically and without mistakes to the process parameters adjustment.

Built according to the international safety standards

Electrical equipment IP-54 in line with the safety regulations in force concerning the industrial facilities.

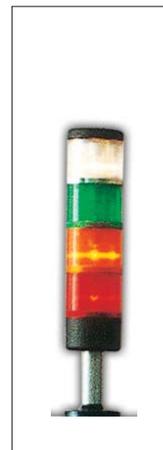
In case of using of solvent based dispersion products/polymers, the systems are realized according to the European anti-deflagrating regulations EN 60079-14 and to the provisions of Italian laws CEI 31-30 and CEI 31-33.

All units are provided with an emergency push button installed on the machine, according to the safety regulations in force.

The emergency can easily be interfaced with the main line.



Control panel



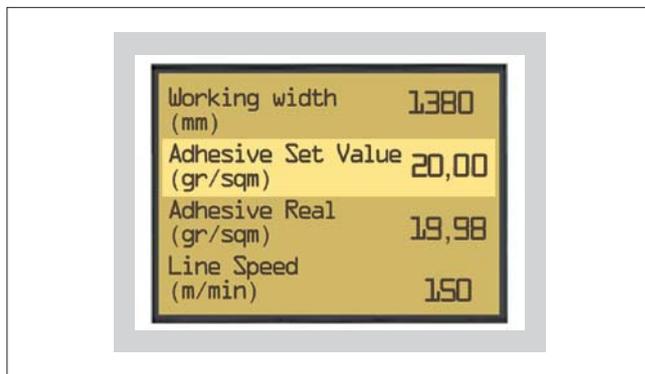
Light tower

User Friendly models

The new generation of high precision HIP-MITSU pumping unit model User Friendly system gives the most advanced reply to the requirements imposed by the modern production techniques:

- flexibility, enabling the execution of small batches with the same efficiency as big productions
- zero scraps, granting to process the material from the beginning without over or under adhesive dosing

The immediate and completely automatic setting of the product quantity to be supplied is easily altered in the system control panel with the required working parameters, responding in such a way very quickly to the frequent production changes.



User Friendly control

Technical data

The operative ranges into which the MITSU DP high precision pumping units can be used are:

Viscosity	from 50 mPas
Min. capacity	0,3 litres/hour
Max. capacity	2.500 litres/hour
Colour	RAL 5015
Power supply	3ph 380V-50Hz + N
Anti-deflagrating electrical installation	optional



add value to your production

HEAD OFFICE

I - 31027 SPRESIANO (TV) Italy - Via A. Volta, 1

Tel. + 39 0422 887.566 r.a. - Fax + 39 0422 887.337 - <http://www.hip-mitsu.com> e-mail: info@hip-mitsu.com