

The network of specialists, for AM professionals

INTEGR<sup>AM</sup>

**PostPROCESS & Surface Treatments  
for POLYMERS & COMPOSITES  
made in Additive Manufacturing**



**INTEGR**<sup>AM</sup>

EN

# I-AM Program

## POLYMERS & COMPOSITES

What does IntegrAM mean?

IntegrAM stands for "Integrated Post-Processing Solutions and Finishing Technologies for Additive Manufacturing.»

IntegrAM is a specialized brand, synonymous with "Integrated post-processing and surface treatment solutions for Additive Manufacturing/3D Printing," for metals, polymers, composites, and other materials (e.g., ceramics).

The IntegrAM brand is coordinated by Techno Surface, a company that creates numerous exclusive and patented technologies, primarily focused on additive manufacturing.



Techno Surface has developed specialized and exclusive know-how, capable of interpreting and adapting even special, exclusive/patented technologies from technology partners—such as Rollwasch Italiana S.r.l. — that have designed them more for the industrial context than for additive manufacturing. Hence the need for a specialist dedicated to reworking, metabolizing, and formulating specific know-how for additive manufacturing, like Techno Surface.

The IntegrAM brand is therefore the result of multiple companies and specialists, combined in a portfolio of machines, systems, devices, and consumer products with a strong specialization index for the Additive context.

# I-AM Program

## POLYMERS & COMPOSITES

INTEGR<sup>AM</sup>

# SURF<sup>PRO</sup>



# BS

## BASIC STANDARD

The SURF-PRO finishing machine series is characterized by pre-assembled compositions on technological pallets or skids, easily positionable and with the prerogative of being PLUG & PLAY. Depending on the preferences of the end user, the type of environment in which the finishing machine is intended or more simply on the expected budget, all SURF-PRO machines can be supplied in the basic version or with an «AM» cabin. All basic machines have a 4.7" color touch screen HMI interface, but those with an «AM» cabin have an external HMI panel, ideal for managing recipes based on multiple types of «AM» processes, even 7" or 15".

The SURF-PRO BS - Basic Standard - line combines the vibratory finishing unit with a wastewater recovery tank, easily connectable to a collection point provided by the customer.

### BS BASIC STANDARD

The **SURF-PRO BS Basic Standard** series of finishing machines is designed to perform processes based, for example, on the use of a single "abrasive media", water and a liquid cleaning compound.

The high scalability of this solution allows for specific customization for the customer's process, whether using wet or dry processes.

The pre-assembled and pre-wired skid-mounted configuration allows the end user to receive a "**plug & play**" machine that can be immediately positioned with a simple pallet truck, connected to power and a water supply in just a few minutes, and immediately begin operating effectively.

# I-AM Program

## POLYMERS & COMPOSITES

INTEGR<sup>AM</sup>

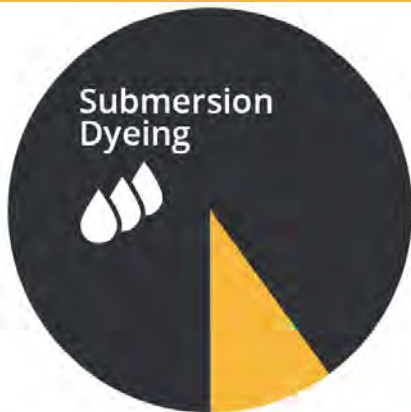
# SURF<sup>PRO</sup>



# STEAM<sup>DYEING</sup>

The SURF-PRO finishing machine series is characterized by pre-assembled compositions on technological pallets or skids, easily positionable and with the prerogative of being PLUG & PLAY. Depending on the preferences of the end user, the type of environment in which the finishing machine is intended or more simply on the expected budget, all SURF-PRO machines can be supplied in the basic version or with an «AM» cabin. All basic machines have a 4.7" color touch screen HMI interface, but those with an «AM» cabin have an external HMI panel, ideal for managing recipes based on multiple types of «AM» processes, even 7" or 15".

The SURF-PRO GM-SD or QS-SD line combines the vibratory finishing unit with a steam boiler and specific accessories for Steam Dyeing processes.



## SurfPro SteamDyeing



# STEAM DYEING

SurfPro Steam Dyeing (Vapor-based) Automatic coloring system for SLS and MJF 3D printing

The underlying idea that guided the IntegrAM Group in the development of SurfPro SD (Steam Dyeing) was to create a mass-colouring system with the lowest possible environmental impact and with a flexibility of use in line with the needs of the additive manufacturing industry.

SurfPro SD systems, on the other hand, are based on the use of high-temperature steam to vaporise the colour on objects, ensuring homogeneity and excellent dye penetration, while consuming an extremely small fraction of water and colour compared to immersion systems.

# I-AM Program

## POLYMERS & COMPOSITES

INTEGR<sup>AM</sup>

# SURF<sup>PRO</sup>



# MF<sup>MICRO FLUID</sup>

The SURF-PRO finishing machine series is characterized by pre-assembled compositions on technological pallets or skids, easily positionable and with the prerogative of being PLUG & PLAY. Depending on the preferences of the end user, the type of environment in which the finishing machine is intended or more simply on the expected budget, all SURF-PRO machines can be supplied in the basic version or with an «AM» cabin. All basic machines have a 4.7" color touch screen HMI interface, but those with an «AM» cabin have an external HMI panel, ideal for managing recipes based on multiple types of «AM» processes, even 7" or 15". The SURF-PRO MF - MicroFLUID - line combines the vibratory finishing unit with a customized dosing station based on the types of "multi-tasking" processes typical of MicroFLUID technology. The configuration levels are multiple and can be identified thanks to preliminary tests in our test laboratories.



**MF** MICRO FLUID

The MicroFLUID process is an exclusive, patented technology that allows a single machine, with a single "vector media," to replace, for example, four machines with four different types of "abrasive media," from the most aggressive, to medium, to fine, and finally to the final polishing stage. This is possible thanks to the formulation of special ABRASIVE GELS that, automatically introduced into the tank in three phases, followed by a liquid polishing compound, allow for the automation of complex processes and the customization of processing cycles for components of different types, shapes, and materials with specific recipes.

## POLYMERS & COMPOSITES



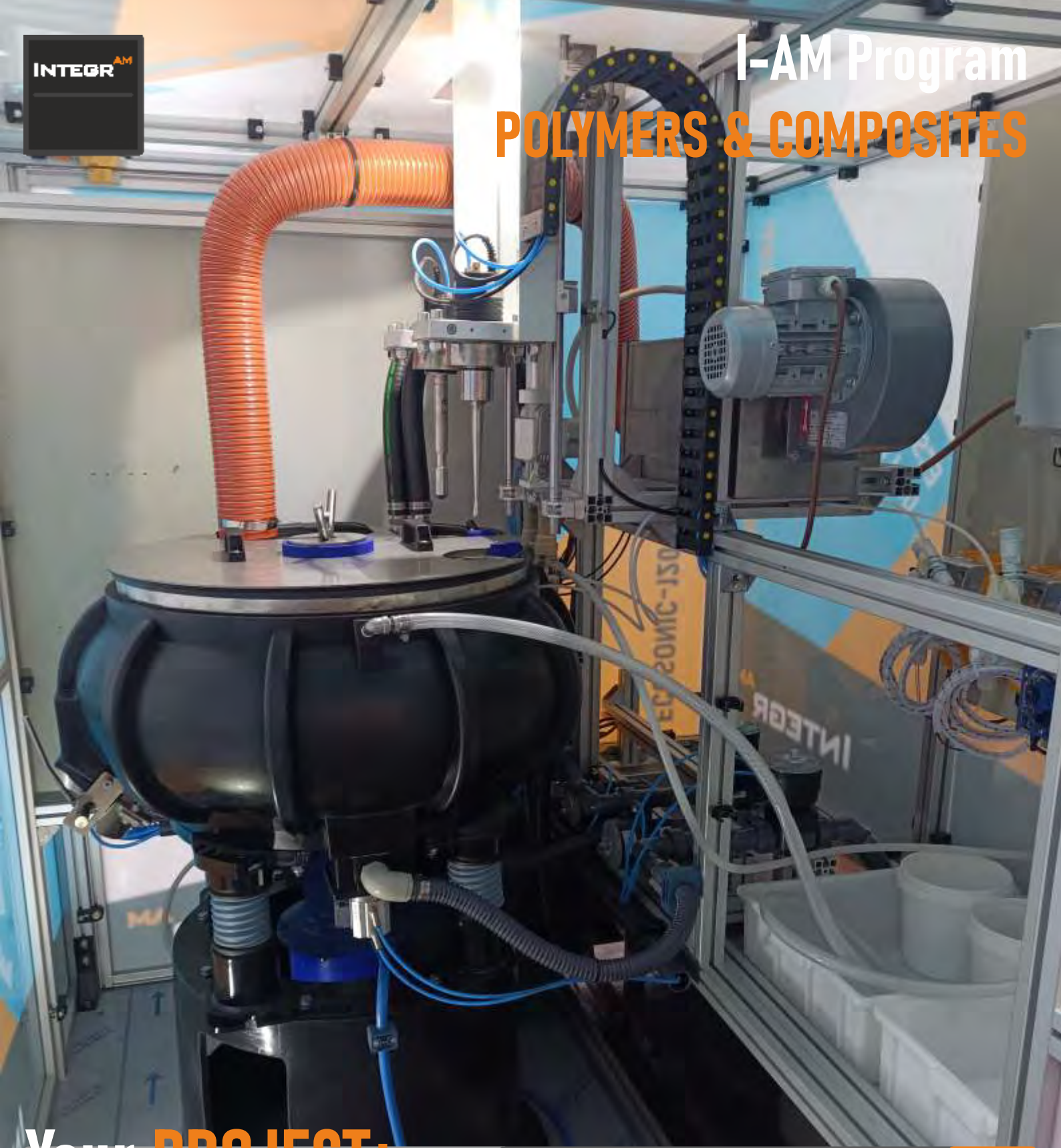
## Your PROJECT

The selection of the right machine and process often involves the IntegrAM testing center, where specialized technicians, expertly coordinated by the Techno Surface team, are involved in carrying out the requested testing service.

Among the variables needed to build a unique benchmark are:

Quantity: the volumes of components required on an annual basis;

Quality: the quality parameters set as objectives, such as roughness, a specific surface tension, an aesthetic grade based on a reference sample, etc.;



## Your PROJECT+

In some industries, such as the medical, pharmaceutical, food, aerospace, precision micromechanics, and other sectors, the process isn't limited to providing a smooth, rather than shiny, surface; it requires more.

In this case, thanks to our patented EcoSONIC technology, we can offer automatic pre-washing, washing, rinsing, and final drying processes.

# I-AM Program POLYMERS & COMPOSITES

INTEGR<sup>AM</sup>

140°C

## Your PROJECT++

Where washing alone isn't enough, and surface sanitization is also required using dry saturated steam, possibly supplemented with hydrogen peroxide, we can offer this additional function, either by implementing it in existing systems or by supplying machines capable of performing this process on a significant number of components.



The network of specialists, for AM professionals

# PostPROCESS & Surface Treatments for POLYMERS & COMPOSITES made in Additive Manufacturing



## IntegrAM

The network of specialists, for AM professionals

The IntegrAM program and network are coordinated by:

**Techno Surface Sas** - Headquarters Offices and Warehouse:

Via Roccolo Aldè 1, 23811 Ballabio (LC) - Italy

Tel. **IntegrAM**: +39 0341 150 2516

e-mail [info@integram.eu](mailto:info@integram.eu)

web <https://integram.eu>

This brochure is for guidance only. Its content can change depending on the development of the product.

#0126-IntegrAM\_Program\_Pim[EN]244V

# INTEGRAM