

TAILOR-MADE SOLUTIONS FOR THE TRANSPORT SECTOR



OUR ADHESIVE FILMS
ARE **SUITABLE FOR ANY
VEHICLE** AND RESISTANT
TO THE MOST EXTREME
CONDITIONS



TS/ TRANSPORT



TACKSYSTEM

Since 1986, Tack System has designed and created innovative solutions for the decoration and protection of any kind of surfaces through the technology of its self-adhesive, multilayer, high-performance film. The high quality of its products has determined the use of the adhesive film in many areas: railway sector, nautical sector, architecture and advertising.



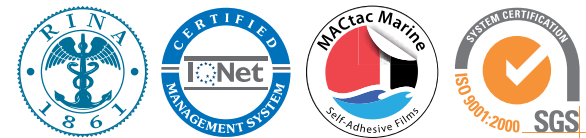
/ MISSION

OUR MISSION: TO PROMOTE THE KNOWLEDGE AND THE DISTRIBUTION OF MULTI-LAYER ADHESIVE FILM AS A SYSTEM TO DECORATE AND PROTECT SURFACES, SINCE IT IS EASIER TO USE AND MORE SUSTAINABLE, PRACTICAL AND CONVENIENT THAN TRADITIONAL PAINTS.

/ KNOW HOW

- APPLICATION
- TECHNOLOGY
- PROBLEM SOLVING
- EXPERIENCE

/ CERTIFICATION



ISO 9001:2008 CERTIFIED COMPANY

CERTIFIED PARTNER



A COMPLEX SELF-ADHESIVE FILM CONSISTS OF SEVERAL LAYERS:



1. PROTECTION - PET
2. ADHESIVE LAYER
3. COLOURED/PRINTABLE PVC
4. ADHESIVE LAYER
5. PROTECTIVE SILICON PAPER

TS/SOLUTIONS

Adhesive films tested for the intensive use on transport vehicles and for high speeds. Liveries and advertising for trains and company vehicle fleets, public transport, wrapping solutions for cars, caravans, articulated trucks and vans.



/ **TRANSPORT**

Our adhesive films are particularly recommended for naval use because they are resistant to the sun, salty water and extreme climatic conditions.

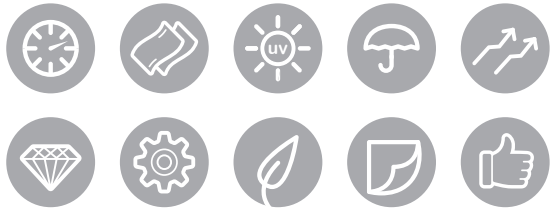


/ **NAVIGATION**

Several proposals for interior and exterior design: adhesive films to decorate and renew environments and furnishing. Furthermore, a range of solutions specific for glass.



/ **ARCHITECTURE**



**QUICK, COST-EFFICIENT,
RESISTANT TO WEATHER,
ENVIRONMENTALLY
SUSTAINABLE, FLEXIBLE,
EASY TO INSTALL AND REMOVE**





TS/Transport

TS/T

Initially, our high-performance adhesive film, was born for the railway sector in order to tackle the issue of graffiti on train coaches.

The innovative intuition was to create a product that could be both protective and decorative, with several advantages in terms of time, costs and environmental impact, in order to replace the traditional paint.

Thanks to the development of conformable film and to the unlimited possibilities offered by printing, filmwrapping became progressively popular, showing all its potentials.



TS/T

APPLICATIONS AND TAILOR-MADE SOLUTIONS



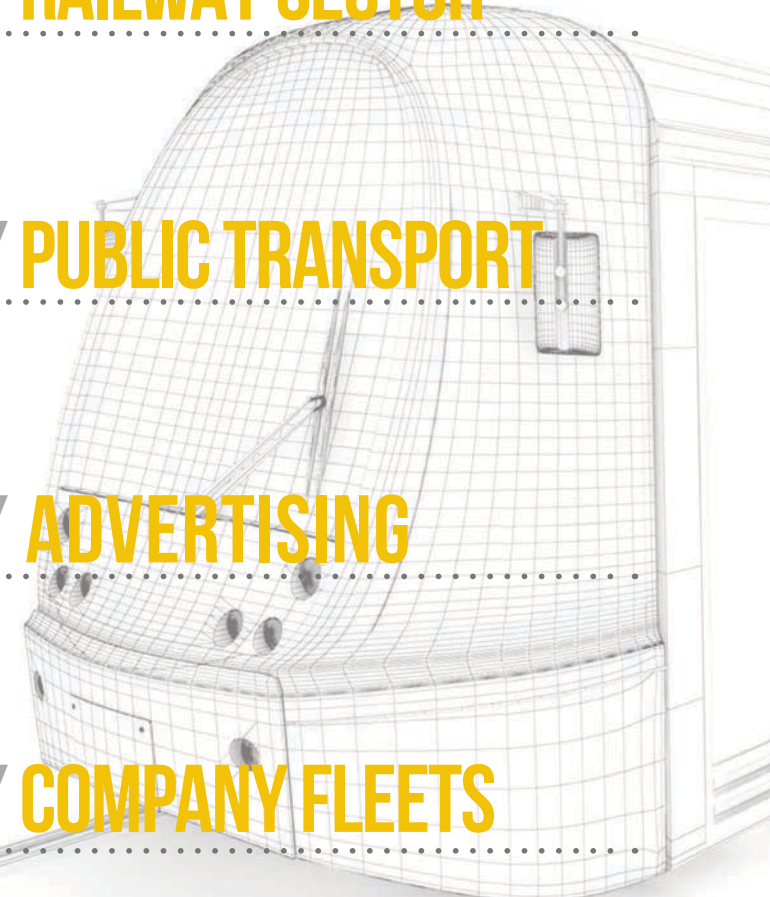
/ RAILWAY SECTOR

/ PUBLIC TRANSPORT

/ ADVERTISING

/ COMPANY FLEETS

/ CAR WRAPPING



WRAPPING VS PAINT



ECO-FRIENDLY

By applying our film there is no need of using toxic solvents and there is no dispersion of dust or gases. This way the work place is healthier for workers and environment-friendly.



QUICK

Less than 2 days are enough to completely cover a standard train coach, with a significant reduction of the refurbishment cycle time and downtimes.

ADVANTAGES IN THE USE OF FILM ON VEHICLES

CONVENIENT

Lower material costs and no need of installation equipment. Easier and convenient removal of graffiti. Finally, in case of damage, it is possible to replace only single parts of the film.



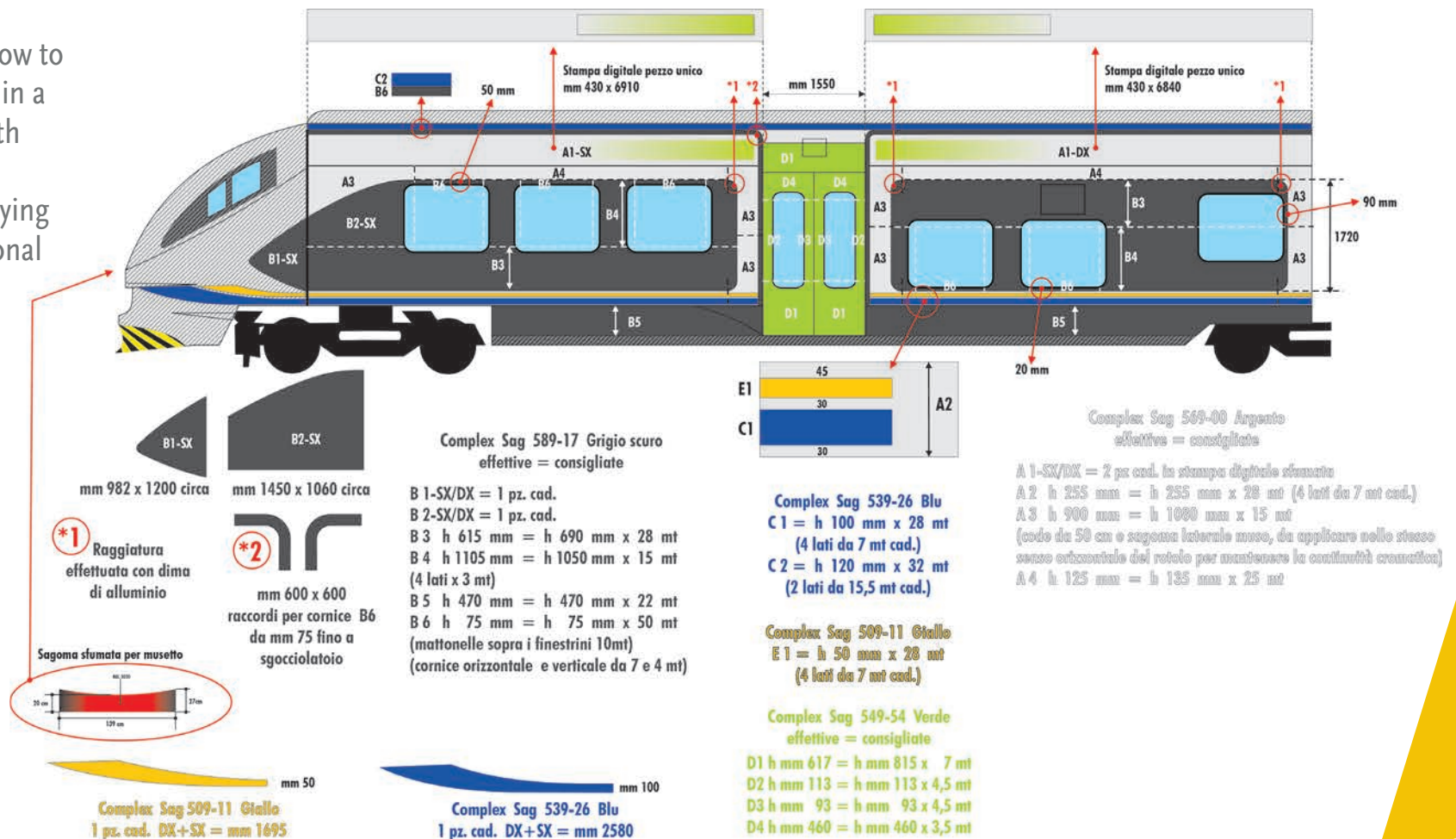
RAILWAY INDUSTRY

THE CORE BUSINESS OF
OUR COMPANY:
**LIVERIES FOR THE
RAILWAY SECTOR**

In Italy, most of the railway fleet is covered by Tack System Complex multilayer film. A challenging bench test for materials subjected to high stress levels for long periods of time.

DESIGN FILM-COATING DIAGRAM

The diagram shows how to build the entire livery in a single application, with no need for masking, painting, and oven-drying as required by traditional methods.





PUBLIC TRANSPORT

FILMS TESTED AND SUITABLE FOR THE DIFFERENT NEEDS OF LARGE CITIES

The use of adhesive films for public transport vehicles is increasing. The high-performance Tack System Complex is perfectly suitable both for advertising and to decorate corporate liveries.

ADVERTISING

EVERY VEHICLE CAN BE USED AS
AN ADVERTISING TOOL.
A MEAN OF COMMUNICATION
THAT BIG BRANDS HAVE
ADOPTED FOR A LONG
TIME OBTAINING GREAT
IMPACT SOLUTIONS





WRAPPING vs PAINT

A **COST** COMPARISON
BETWEEN **PAINTING**
AND WRAPPING IN
AN **ANTI-GRAFFITI**
ADHESIVE FILM

COSTS

QUOTE FOR INITIAL INVESTMENT

PAINTING VS WRAPPING

ASSUMING THE FOLLOWING: PAINTING EQUIPMENT COST = € 1,000,000
ANNUAL MAINTENANCE COST OF EQUIPMENT = € 50,000

INVESTMENT
PAINTING EQUIPMENT FOR TRAIN
COACHES



**EQUIPMENT
MAINTENANCE**



100% COST SAVING

*The recommended procedure of blend-painting the edges uncovered by the film does not require a painting cabin.



COST ANALYSIS

REDECORATION OF A LIVERY

PAINTING

100%

WRAPPING

65%

IF THE AVERAGE COST TO PAINT A 24-METRE TRAIN COACH IS € 5,000, THE POTENTIAL **COST-SAVING OF USING WRAPPING WILL BE 35%**

TIMELINES

REDECORATION OF A LIVERY (3 COLOURS)

TRADITIONAL PAINT

FIRST MASKING + FIRST COAT OF GLOSS PAINT + DRYING OF FIRST COAT + SECOND MASKING + SECOND COAT OF GLOSS PAINT + DRYING OF SECOND COAT + THIRD MASKING + THIRD COAT OF GLOSS PAINT + DRYING OF THIRD COAT + EXTERNAL FUNCTIONAL LABEL KIT

- Location - workshop specifically equipped with a painting cabin
- The only way to speed up the process is to invest in new cabins

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**WORKING DAYS
PER COACH**
PER PAINTING CABIN

WRAPPING

COACH PREPARATION + BLEND-PAINTING OF EDGES + CUSTOMISED WRAPPING FILM KIT ON LIVERY + EXTERNAL FUNCTIONAL LABEL KIT

- Painting cabin not required. The work can even be carried out on the track in the depot as long as the environment is dust-free, well-lit, with a temperature between 8 and 30 degrees Celsius and that a connection to an electrical power grid is available.
- The process can be expedited by employing more fitters

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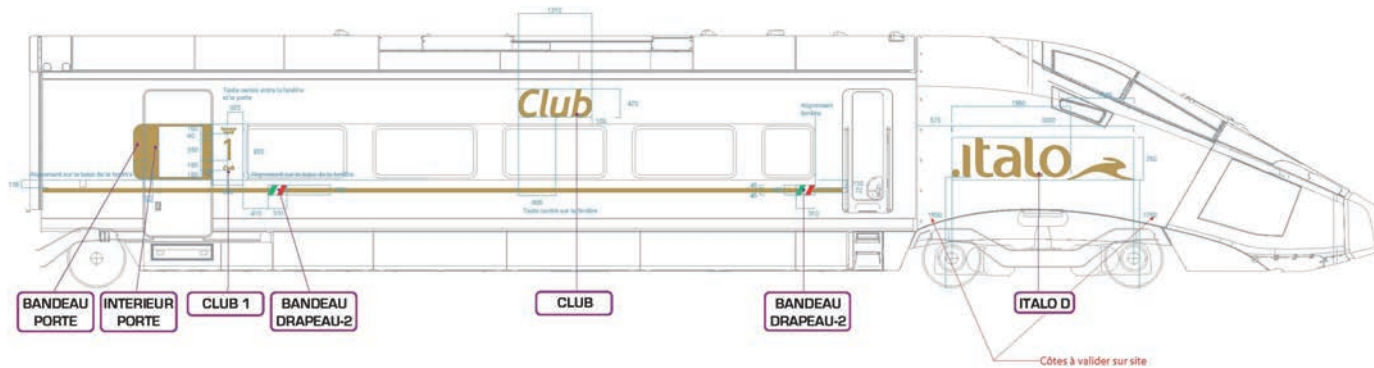
**WORKING DAYS
PER COACH**
PER TEAM OF FITTERS



CASE STUDY

RAIL WRAPPING

WRAPPING OF EXTERNAL
LIVERIES ON RAILWAY
VEHICLES IN A LONG-LASTING,
SELF-ADHESIVE
ANTI-GRAFFITI FILM



CORPORATE

INSIDE SIGNAGE



ADVERTISING

COMMERCIAL SIGNS
AND INTERNAL
FUNCTIONAL, SAFETY
AND WARNING
LABEL KITS





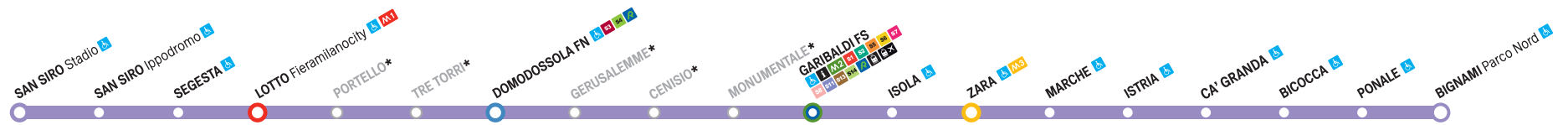
CITY TRANSPORT

THE USAGE OF ADHESIVE
FILMS FOR COMMERCIAL
SIGNS DISPLAYED ON CITY
TRANSPORT VEHICLES
IS NOW STANDARD
PRACTICE.

CASE STUDY

CITY OF MILAN UNDERGROUND - WRAPPING

M5



CATEGORY

Outdoor applications, Public Transport, Underground trains

Fully automated trains with no driver (City of Milan underground line n.5, or "Lilac line"). Complete redecoration (incl. signage and anti-graffiti protection) on all trains

AT A CONVENTION OF THE TRANSPORT ASSOCIATION IN SIENA, **TACK SYSTEM** DECORATED A CITY BUS...IN THE CAR PARK!



The bus is cleaned on site and filler is applied where required. A damaged section of the body is replaced and sent to a body shop.



The film application continues until the bus is completely redecorated.



The bus is ready to go back on the road with its new livery.

CASE STUDY BUS WRAPPING

EVERY DAY, THOUSANDS OF VEHICLES CIRCULATE ON ITALIAN ROADS, DISPLAYING LIVERIES WITH DIGITALLY-PRINTED COMMERCIAL SIGNS. WRAPPING IS MORE AND MORE USED FOR CORPORATE LIVERIES AS WELL.



COMPANY VEHICLE FLEETS

A NEW WAY TO
COMMUNICATE
WITH EVERY
VEHICLE



TS/MAIN CLIENTS



THANK YOU



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