Leader in flexographic printing
For over 40 years leader in flexographic printing, Grafiche Tamburini presents its unmatched product portfolio in order to meet all customer requests. Thanks to constant research and the most up-to-date technologies, Grafiche Tamburini solutions offer top quality and efficiency for packaging industry.

In the forefront in flexographic printing market but in respect of tradition. The customer is the base on which the company is founded: his needs come first of all.

For 40 years Grafiche Tamburini have been putting the service quality, the warrantee of reached agreements and the respect to the companies we work with even before equipments, technology, skilled workers and constant innovation.
Grafiche Tamburini policy is to provide a complete global service: consulting, graphics elaboration, FULL HD printing sets in 4000dpi and sleeves of several dimensions. We realize from the easiest GT SPEEDY to the most complex GT HQ SPEED (even antistatic) and sleeves of latest generation melted with DUPONT or FLINT photopolymer (GT COMBI) in order to create seamless endless printings and in order to reach incomparable printing resolutions than with other materials. We also manufacture seamless sleeves, in aluminum or steel (even chromed) cylinders and, on demand, with certificate profiles and x-rayed outlines.

In order to perform all these processes, which are internally occurred, the Tamburini Srl. uses 3 productive plants for a total of about 5000 m².

The philosophy, which distinguishes the company, is based on the continuous improvement of internal processes and on the continuous research for technologies and processes designed to enhance the products requested by customers.
On the cutting edge in flexographic printing market is not only an idiom. For us, it is a philosophy we try to fully respect.

We highly invest in technology looking for the best solutions for our customers. Technological up-dating is a philosophy of that involves the whole staff of Grafiche Tamburini and each department.

The graphics department is equipped with permanently updated computers and software in order to meet every request. Internet is a channel of primary importance that offers a detailed website showing a wide range of services including the MATERIALS MANAGEMENT in order to easily and quickly receive and deal with orders. In our productive departments photopolymer plates are worked with the latest generation digital technique of FULL HD at 4000 dpi.
Certification UNI EN ISO 9001:2008 is the warranty of our permanent task toward quality and it becomes a media to measure our continuous improvement of our business performances.

ISO 9001:2008
It is an international standard regarding quality management founded on an organizational model which is based on process management, using quality management principles, fundamental for a good business direction such as: focus on the customer, systematic approach to the management, staff engagement...

FIRST OF ALL: QUALITY
Grafiche Tamburini’s most important goal is to satisfy and even pass customer’s needs.
• Digital Graphics
• Flat and continuous mounting
• Flat digital engraving
• Sleeve digital engraving
• Production development one touch sleeve
• Flat dot realization with the DuPont Digiflow Digicorr system
• Digital mounting-plate machine for low thicknesses
• Digital mounting-plate machine for continuous clichè
• Manufacturing and grinding of Sleeves of various types and size (with printing proof)
• Manufacturing of seamless continuous sleeves with DuPont or Flint photopolymer
• Manufacturing of rubber sleeves
• Manufacturing of cylinders
• Realization of sleeves in elastomer
HEADQUARTER PLANT 2500 sq.m.
Graphic Department: we are aware that technology is useless without suitable human resources. In graphic department our staff is highly qualified and some of them praise an over twenty-year experience.

The Graphic Department is equipped with the following Instrumentation:
12 workstations equipped with Apple Mac system
Leased line FTP for customers
2 Plotter referred to 1 digital cromalin with possibility to print on transparent paper and silver
WASHING PHOTOENGRAVING PLATES DEPARTMENT
PRE-MOUTING
This department is composed of 5 optical pre-mounting machines with automatic tracer. There is the option of flat mounting for low thickness photo-polymer projects.
GTHD is an innovative electronic mounting-clichè machine with crosses-setting and first printing proof.

Thanks to some cameras created to get the biggest extension, this machine is able to control even the smallest details in images overlapping through a virtual mounting proof.

It supports sleeves / cylinders up to 3150 mm long.
DIGITAL PLATE ENGRAVING

Our new precision productive lines engrave plates with Creo-Kodak and Esko Sysyems, with size up to 2030x1270 mm, with thickness from 0.80 to 6.35 mm and nets with shades up to 0.7%.

Our productive lines:
Nr. 2 Creo-Kodak machines for plates and endless sleeves;
Nr. 1 5080 Esko machine for FULL HD 4000 dpi.
Dupont™ Cyrel® DigiFlow/DigiCorr
The High Definition Flexographic workflow

We offer to our Customer the best market definition for flexible packaging and corrugated board: HD technology Dupont™ Cyrel® DigiFlow/DigiCorr. This high resolution standard achieves a quality comparable to that of offset. The main advantages of the Dupont technology are:
- sharper and brighter images.
-Extended tonal range.
-Even more intense Colors.
-Small texts more readable.
DuPont™ Cyrel® DigiFlow uses a controlled atmosphere area of pure nitrogen, without the oxygen contained in the air of the atmosphere, for exposing digital plate, thus creating a real 1:1 reproduction.

DuPont™ Cyrel® DigiCorr is a printing system with Flathead dot developed to reduce the effect of “print channeling” on corrugated cardboard.

This technology, combined with DuPont™ Cyrel® DigiFlow, manages to improve in an incredible way the final print quality.
HD Flexo has determined new standards in the flexographic printing as far as concern the high lights calibration, the zero shade with fluid transition, clear texts and imagines with well-defined details. The new Full HD Flexo technology offers many additional functions: flawless ink anchoring, bright colours and perfectly uniform plates. It is also the only one to engrave plates with a completely digital control.
PLATE ON SLEEVE

Thanks to a special machine, the photopolymer plate to engrave is mounted on the sleeve (using any type of adhesive tape). This system reduces mounting times for printers, ensuring a perfect setting without manual intervention.
Tool to measure and control the point size on the photopolymer for flat printing plates and for seamless sleeve.
Photoengraving fixing washing and drying continuous seamless sleeves

**ASL60 MACHINE**

This model, unique in Italy, is completely automated and is suitable for all types of Seamless sleeves and Plate on Sleeve system with print repeat even of 1070 mm, width of 1820 mm and printing width up to 1650 mm.
FIXING PHOTO-ETCHING CONTINUOS SEAMLESS SLEEVES
ASL WASHING SEAMLESS CONTINUOUS SLEEVES
Grafiche Tamburini, leader in flexographic printing from years, shows its own line of solutions worked out to meet all customers’ needs. Thanks to a continuous commitment in research and to the most up-to-date technologies, Grafiche Tamburini solutions offer top quality and top efficiency for packaging market.

Choose the best solution for your task!
GTSleeve Combi follows the Stork Standard Diameters. It is based on HQ Speed and can be coated with photopolymer.

Combi guarantees a top printing output even with the finest nets. Adapters are not needed.

Other technical notes:
• Concentricity (TIR) ≤ 0.025 mm
• Longitudinal tolerance as per DIN ISO 2768 T1 c
ELEFLEX sleeve follows the Stork Standard Diameters and is completely coated by photopolymer. This seamless sleeve is suitable for continuous printings. There are two types of ELEFLEX sleeves: ELEFLEX 10, usable with damped Adapters; ELEFLEX 30, usable with normal Adapters.

ELEFLEX offers a high-resolution line printing or half-tone printing thanks to the thickness uniformity, which enables a perfect ink transfer. This guarantees a very high register accuracy, too.
SEAMLESS PHOTOPOLYMER SLEEVES
SLEEVE ELEFLEX SAMPLES
The new LOREFLEX system avoids problems linked to Carriers and Adapters with evident advantages in terms of production. Sleeves can be used many times.

LOREFLEX system quickly cushions sleeves cost since they are reusable sleeves.
GTelastX is the laser engraved elastomer sleeve for high printing speeds.

Elastomer is an indestructible material resistant to UV rays and to ozone. It guarantees short productive times and longer service life.
EASY BLOCK SLEEVE (R), an exclusive Grafiche Tamburini patent, is the best solution for big size. Joining two half-sleeves, the laser direct engraving quality is reached even with printing width over 1650 mm.

Using EASY BLOCK, continuous printings are got with the utmost register accuracy between half-sleeves, highly reducing phasing and start-up times.

This sleeve is also available with antistatic features.
EASY BLOCK MOUNTING SYSTEM

STEP 1

STEP 2

STEP 3

READY SLEEVE
GTSleeve Speedy is a light-weight sleeve in fibreglass and epoxy resin suitable for several coating types and available in thicknesses from 0.8 mm to 1.4 mm. Speedy suits all adhesive tape thicknesses and ensures excellent adhesion to all materials thanks to its fibreglass and epoxy resin surface, which is resistant to stress (fibreglass with epoxy resin reaches mechanical features 2.5 times more than polyester fibreglass, for the same weight) and to heat (resistant to vulcanisation temperatures up to 120° C). Speedy sleeves are durable with a very long service life.

Other technical notes:
• Concentricity (TIR) ≤ 0.025 mm
• Longitudinal tolerance as per DIN ISO 2768 T1 c
GTSleeve HQ Speed is a light-weight but robust sleeve for plate mounting with double-sided adhesive tapes available in thicknesses from 1 to 100 mm.

HQ Speed has an epoxy resin surface extremely resistant (75 Shore D). It is long-lived, light-weight, easily transportable and it assures a simple adhesive tape dismounting.

HQ Speed is available in all diameters and lengths also with antistatic feature.

Other technical notes:
• Concentricity (TIR) ≤ 0.025 mm
• Longitudinal tolerance as per DIN ISO 2768 T1 c
GTBRIDGE SLEEVE can be realised in two different ways, aluminium or resin. The material choice depends on the features of the printing unit on which it is mounted.

GTBRIDGE SLEEVE is realised on the basis of the mandrel and can also be done a further air clutch in order to ease the sleeve clutch out of the machine.

GTBRIDGE SLEEVE can be combined with various types of sleeves; it reduces the sleeve thickness saving provision costs for thick sleeves. Its extremely durable surface is generally scratch and solvent resistant if handled correctly (see our User’s Advice). It is available in antistatic version, too.

Further technical notes:
- concentricity (TIR) ≤ 0.025
- tolerance on the length DIN ISO 2768t1 c
- possibility to put positioning PIN
GTBIG SLEEVE is a light and robust sleeve for conventional plate mounting with adhesive tape. GTBIG SLEEVE has an epoxy resin surface which ensures high resistance (70 Shore D) and consequently a superior lifetime. It ensures a simple adhesive tape dismounting. It is low weight and easy to handle. Available in the following size:
Length: up to 3150mm
Diameter: up to 590mm
Thickness: from 1 to 260mm

In three versions:
BIG SPEEDY, BIG HQ SPEED AND BIG HQ ANTISTATIC

Further technical notes:
• concentricity (TIR) ≤ 0.025
• tolerance on the length DIN ISO 2768t1 c
GT ANILOX SLEEVE is the new sleeve devised for ceramic coating with plasma technique for laser engravings. This sleeve is of fiberglass with an expansion layer of the inner core and it is coated with aluminium in order to assure an uniform heat loss that is produced during the ceramic coating process.

The alloy of pure aluminium which is used allows an excellent adherence of ceramic coating because it hardly reduces oxidation that could cause swelling. This makes the sleeve light and, consequently, easy to handle.

Other technical notes:
• concentricity (TIR) ≤ 0.025 mm
• Longitudinal tolerance as per DIN ISO 2768 T1 c
GT ROLLER is the new rolls line of GRAFICHE TAMBURINI for flexographic printing.
We can manufacture aluminium, steel or chromium steel cylinders in order to meet every printing need.

On demand, cylinders can be done with certified and radiographed outlines.

All cylinders are balanced.
GT RUBBER is the RUBBER and POLYURETHANE coating line for your cylinders and your sleeves.

RUBBER guarantees resistance to chemical products, temperatures and its hardness is from 25 to 100 shore A.

POLYURETHANE offers better characteristics with resistance to abrasion, cutting, pressures and ozone.

The hardness and the type of coating are adaptable to the needs of the customer.
Care of sleeves and adapters

In order to utilize sleeves and adapters in the most efficient way and to increase their life time, you should follow the following easy recommendations during all working phases.

Air pressure
- The air pressure measured at the air cylinder should be between 6 and 8 bar (87-116 psi).
- The air volume should not be below 12 litres per second (0.42 cubic ft/sec.).
- Please ensure air can pass freely without obstructions.
- Unnecessarily long or branching supply lines may lead to a drastic fall in air pressure.
- The compressed air system and the air cylinder surfaces should not be wet or dirty of oils, lubricants and inks.
- Check for blockages in the air outlet from time to time.

Cleaning, care and storage of sleeves and adapters
- Lubricants, ink and tape residues should be removed as quickly as possible to maintain unaltered the surface properties as long as possible.
- The only suitable solvents for cleaning are ethanol, propanol and isopropanol.
- Stronger residues can be removed with a soft nylon brush.
- Do not use solvents containing grease or oil since they negatively affect the surface.
- Do not keep solvents on sleeves/adapters for a long period of time.
- Plates and tape should always be demounted after use so that solvents do not damage the sleeves.
- After cleaning, leave the sleeves/adapters to dry for about 30 minutes to allow the complete evaporation of solvents.
- Never use: acids, alkaline solutions, salt solutions and sharp objects that could damage the sleeves/adapters surface.
- To keep unaltered good mounting properties, the inner base of the sleeves should be cleaned with an appropriate cleaner.
- Fibre-glass filaments which could loosen from the inner base of the sleeve can be grinded off, but never pulled out.
- Sleeves/adapters should be stored freely and should not be stacked on top of each other or in contact with weights which may affect their concentricity.
- Please ensure that sleeves/adapters stored upright do not topple over.
- High temperatures and humidity negatively affect the service life of sleeves/adapters.

Clichés mounting
- Lubricant, oil and ink reduce the adhesion properties of the tape.
- To apply the tape on the sleeve without bubbles the use of a plastic rake and of a plastic roller is recommended.
- PVC/PE adhesive tapes effectively protect the exposed surface of the sleeve.
- If an edge sealer is used, never apply it directly on the sleeve, but only on the tape!
- Cutting directly on the sleeve might damage the surface.
- In order to avoid the edge lifting of the plate, adjust the tape gap and the plate gap by a minimum of 30°.

Clichés demounting
- Remove cliché carefully, slowly and with constant tension in order to avoid cliché damaging.
- Remove the tape by slowly pulling it back from the corner at an angle.
- Remove any tape residue immediately.
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SECOND PRODUCTION PLANT

SLEEVES CONSTRUCTION CENTER SQ.M. 800
WORKSTATIONS FOR COATING PHOTOPOLYMER CONTINUOUS SLEEVES

A PART OF THE STORK WAREHOUSE
Grinding machine working field length up to 3000 mm.
Width up to 4000 mm. | Maximum diameter 800 mm.

lathe 3000 mm
PROCESSING ANILOX ALUMINUM SLEEVES, ALUMINIUM AND STEEL CYLINDERS  SQ.M. 1000
THIRD PRODUCTION PLANT

WORKSHOP TOP VIEW
NUMBER 2 WORKSTATIONS
CNC MILLING CENTRES
DIMENSIONS MAX WORKING
L. 4000 MM
DIAM. 700 MM
NR. 3 LATHES CNC MACHINE
MAX WORKING FIELD
L. 4000 MM- DIAM. 700 MM.

CAD CAM
The Current regulations impose to all companies to respect the values regarding the emissions of airborne contaminant in order not to incur the penalties provided by law.

Grafiche Tamburini, always particularly sensitive to environmental issues, channels all the fumes of solvents used in production activities through a post-combustor which starts up the processes of thermal oxidation of the gas streams which contain volatile organic pollutants. Such processes, which take place through a catalyst at 400 degrees, are able to mutate the polluting components into completely harmless substances for the environment such as carbon dioxide or water vapor.

In this way, Grafiche Tamburini decreases the harmful substances far beyond how much it is expected by the regulations of local and international law.
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