



INDUSTRIAL FOOD PROCESSING FACTORY

STUDIES, DESIGNS, MACHINERIES, INSTALLATIONS

THE SOLUTIONS WHICH BENEFIT YOU !

RENE TOY AN INTERNATIONAL EXPERIENCE IN INDUSTRIAL FOOD PROCESSING FACTORY BUILDING

Since already more than 60 years the Company SAS RENE TOY manufactures for, the Industry, the breeding, the food agro sector, machinery, processing feed line, reliable and full robust turnkey installation designed and manufactured with rigor, to meet your needs effectively and ongoing.

In industrial food processing factory building, René TOY brings you a global know-how :

- ✓ Studies, conception, (modernization, adaptation and expansion of installations and existing machinery) ;
- ✓ Technical conception, feeding chains, machines ;
- ✓ Manufacture and supply of all materials including mounting hardware.
- ✓ The logistic organization and supervision of work ;
- ✓ Installation, adjustments, production testing ;
- ✓ Starting up, personnel training ;
- ✓ If necessary, the transfer of technology.

The Group of TOY companies, stands solidly as a leading provider of food processing installations for the main manufacturers of animal feed with a wide range of products. Their efficient equipment given high-level work; the team's studies (engineers, automation experts, designers, TOP SOLID, AUTOCAD); export service team manage an accurate logistics.

Teams of industrial boilers, machines, electrical Assembly. A team of installation support, (Foreman, assembler heads and assembly worker), knowing the problems of international works, knowing the problems of the International works.

The Group of TOY companies, are a means of industrial production: Parks of advanced machines (robots welding, cutting laser, numeric bending, welding TIG and MIG aluminum and stainless steel, chain of painting (liquid, and powder...) 12000 m2 of offices, workshops and storage. It is primarily an industrial rigorous process, innovative, and the great experience of professionals for a good quality at the service of the most complex to the simplest projects.

Created in 1950 by Mister René TOY, the SAS TOY company is a recognized specialist, reputed by the serious and the strength of their fabrications for storage, maintenance, crushing, rolling, mix, distribution, food processing factory and pelleting. Today, the company exports its machinery, equipment and know-how throughout the 5 continents.

Our will: our will, make you always benefit from the best of the technique in a spirit of performance and budget optimization....



Dany Fouquet
President general manager

THE GROUP RENE TOY PRESENTATION

The TOY group, are several industrial sites dedicated to the design and manufacturing; specialized structures (prototypes, automation); representations abroad, a park of advanced machines, lines surface treatment and paint and 75 experienced employees. It is primarily, a rigorous industrial process and great knowledge of professionals for a quality, for your productivity service.

AN INDUSTRIAL GROUP

The industrial saga of the group Rene TOY, started since 1950 when Mr. René TOY created the company. With a spirit always innovative, the company knows a continuous development based on its machines' qualities: adapted to the customer's needs, simple, strong.

Today the group TOY is complementary companies always serving the same trade «equipment's for the animal feed »:

- ✓ René Us TOY, TOY mains focus of the group is dedicated to machinery and big factory.
- ✓ The company RMTC is dedicated to materials for industrial food and cattle.
- ✓ Symatec the Company specializes in automation of industrial processes and management of the facilities.
- ✓ The company AR-TEKH specializes in the creation of prototypes and in new techniques development.
- ✓ International representations in Europe, Africa, Asia and Latin America.

The TOY group, 12000 m2 of industrial sites dedicated to the design and manufacture. It is a very important park with modern machines and 75 experienced employees, whose 30% in engineering, design, and management. It is first and foremost a rigorous industrial process and a big human experience to a consistent quality at the service of your productivity and profitability. The company exports its machinery, equipment and know how in 5 continents and makes 50% of turnover abroad.



A MODERN MACHINE PARK

Cutting laser, numerical Bender, robot welding, tubes cutting, rolling machines, shears cutting, drilling machine, MIG welding, TIG, liquid paint booth, Paint Epoxy chain.



EXPERIENCED TEAMS

Engineers, designers, Illustrator draftsman, electrical, electronic, mechanical technicians, welders, Benders adjusters, numerical laser operators control, Specialists in logistics, Forklift driver Boilermakers; painters, measurement technician, fitters, wiring specialists, programmers...



DESIGN INSTALLATION : SPECIFICATION

By your side, relying on the specifications, we study the ways to implement in terms of line processes design, machines, human resources and technology. This phase of analysis / advice, will allow a complete definition of your project.



SPECIFICATIONS SHEET

SAS René TOY has a good experience in problematic of all types of food factories. We put this experience at the service of our customers in order to ensure the viability of their project according to the:

- ✓ Type of opportunities (factory for marketed production, factory attached to one or more farms, mixed factory) ;
- ✓ Type of production (food single-race - poultry, goats, sheeps, pigs, cattle - or multi-race) ;
- ✓ Type of raw materials (choice of technologies according to cereals, food supplements, etc.) ;
- ✓ installation (in new buildings, in existing buildings, renovations) ;
- ✓ Logistic analysis (circulations, flows) ;
- ✓ Piloting (human means, expertise, and desired automation level)...

Taking into account of all these rigorous criteria, ensures the establishment of a relevant and optimized global project.



Poultry Food Factory - France



NUTRITION AND PRODUCTIVITY

We own a recognized technic in animal nutrition. This brings a great value to our Food factory conceptions.

Our partnerships with nutritionists specialized (Cattle, pigs, poultry ...) reinforce our ability to required needs. Whatever your needs are, the solution of the most efficient production will be identified and implemented.

THE COMMITMENT OF A QUALITY RESULT

DEFINITION
OF NEEDS

CONCEPTION
(INSTALLATION, PROCESS)

MANUFACTURING
OF MACHINES

LOGISTICS
SHIPPING



COMMITMENT OF
A RELIABLE RESULT!

FACTORY
INSTALLATION

MECHANICAL AND
ELECTRICAL INSTALLATION

TESTS AND
CONTROLS, START-UP

TRAINING, GETTING STARTED,
SUPPORT, AFTER-SALES SERVICES

STUDY & CONCEPCION OF THE PLANT AND MACHINERY

For over 60 years, René TOY has developed technological capacities in all industrial manufacturing processes needed to feed mills. We develop our own range of standard machines known by a simple and effective concepts as well as the quality of its manufacture ensure a reliable and profitable particularly. Over the past 3 decades, René TOY is also illustrated in the engineering of multi processes of all dimensions in industrial food factory installations around the 5 continents.

RENE TOY: SPECIALIST IN MULTI-PROCESS

Our design office develops all our machines and equipment for simple process and for the following components:

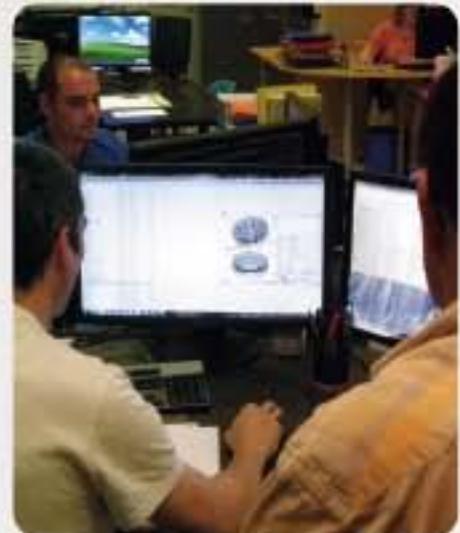
- ✓ Storage, cleaning
- ✓ Handling
- ✓ Crushing, Flattening, Rolling
- ✓ Mixing
- ✓ Dosage
- ✓ Pelletizing, crumbling
- ✓ Mechanical distribution/pneumatic
- ✓ Put in to bags
- ✓ Automatism

By his experience, René TOY holds several and exclusive patents and is in a process of improvement and continuous adaptation about the changing of needs in industry and technical advances



ENGINEERING DEPARTMENT

René TOY research department is rich of all kinds of specialties necessary to ambitious conceptions, (engineering, design, electricity, electronics, manufacturing and assembly equipment factory), efficient after-sales service, spare parts management and technical support. This Department is involved in advance to your project. This method allows understanding and relieves most scrupulously the specifications.



ADAPTATION OF THE MACHINES

According to the needs of installation to be realized, we chose, within our range, standard machines by sizing them to your measurement, and /or we develop special machines for all or part of the process. As each element of the chain will be selected and perfectly sized for your actual needs allowing at the same time a technical performance and a scale economy.



BUILDING INTEGRATION

Our experience allows us to treat installations:

- ✓ In new buildings
- ✓ In existing buildings
(Renewals, extensions)...



MANUFACTURING OF MACHINES A CHAIN OF THE INTEGRATED SKILLS

With its manufacturing sites (Central Region Department Loir & Cher 41) and its 75 employees, for 2/3 of the manufacturing, the René TOY group has significant production capacity while maintaining a high adaptability and reactivity.

Our production process, rigorous and contemporary is at the service of an engineer Boilermaker knowledge, preserving tradition, requirement, and quality manufacturing throughout the production line.



LOGISTICS, ENGINEERING DESIGN, WORKSHOPS

The need in machinery having been defined in the study phase, the drawings with needs resized by the Department of Engineering and Design. Flow production of company TOY implies an important quantity of materials, components and parts stored, helping us always to be reactive in our needs. Each piece and special components are released in manufacturing and resupply.

Combining an important Automation (machines partially numerical and robotized), the know-how of our workforce very experienced (boiler technicians, welders, mechanics, electricians) allowing us to quickly achieve important productions.



THE GROUP TOY, A POWERFUL INDUSTRIAL TOOL

With its two industrial boiler sites, over 12000 m² factories Group proposes important means (laser cutting, pressed brake, welding robot, tubes cutters, Benders, rolling device, shears, punching machine, mig tig welding, liquid paint cabin, paint epoxy chain) for the manufacture of the equipment intended for the realization of feed factories or industrial food by trained workers, allows us to offer rapidity and quality.



THE TEAMS R. TOY

The manufacture team of the René TOY Group is composed of professionals and skilled workers (designers, engineers, designers, electricians, electronics, mechanics, welders, Packers, adjusters, operators control digital laser, logisticians, drivers, Boilermakers, painters, surveyors, fitters, cabling, programmers, structural engineer) forming a chain of integrated and associated skills working in synergy.

The companies of the group specialized in automation and prototyping cover specific needs.

MACHINES MANUFACTURING: SOME SPECIAL PRODUCTIONS

René TOY fabrications are distinguished by their quality of the choice of their materials and components of premium quality. Our achievements are systematically over dimensioned for resistance to ensure a margin of laborer upper to the expectation and to prevent breakdowns and premature wears. René toy designs and manufactures machines and equipment for industrial production lines. These machines adapt to any production need and are designed and built around three major criteria: efficiency, strength, durability. All our machines are manufactured in our factories on advanced equipment by men with a big experience.



INDUSTRIAL MILL

IN PARTNERSHIP OF TOY/STOLZ

- ✓ Double sense of rotation
- ✓ Variable speed 1000/3000 rpm
- ✓ Flow of 5 to 50 tons/hour
- ✓ Mesh: 0.5 to 2.4 m² surface
- ✓ Grading < to 400 µm
- ✓ Bearings Temperature control and grinding rooms



INDUSTRIAL MILL T60NG

- ✓ 30 to 75 kW power
- ✓ Rotor 60 to 200 hammers
- ✓ Flow from 1 to 15 tons / hour
- ✓ Double mesh to 350 ° large surface
- ✓ Mesh custom for grading
- ✓ Ramp magnets
- ✓ Mill type gravity with or without depression



MILL ON HOPPER DEPRESSURIZED

- ✓ Increased flow of 30 to 50%
- ✓ better control of grading
- ✓ unclogging box



INDUSTRIAL MILL ETS +

- ✓ Power from 20 to 60 kW
- ✓ Rotor 96 hammers
- ✓ Flow from 1 to 15 tons/hour
- ✓ Mesh diameter from 2 to 30 mm
- ✓ Mesh superficies : 0.9 m²
- ✓ Rotor diameter : 890 mm

RENE TOY MANUFACTURING QUALITIES

SIMPLICITY, RELIABILITY,
ROBUSTNESS

OUR REGULAR MODELS
WITH A HIGHER SECURITY
THAN STANDARDS

OUR REGULAR MACHINE'S
RANGE AND/OR OUR
SPECIFIC MACHINES

THE ENGAGEMENT
OF FUNCIONAL AND
PROFITABLE MACHINES

FACTORY TESTS
IN REAL CONDITIONS
OF USE

A SECOND TEST
OF SECURITY
BEFORE DELIVERY

A GUARANTEE
OF PRODUCTIVITY
FROM START UP



PNEUMATIC COMPACT MILL/MIXER SETS

- ✓ Mill with direct aspiration
- ✓ Flow from 6 to 8 tons / hour
- ✓ Tubular Mixer with depression
- ✓ Tubular Mixer (hidden time)



INDUSTRIAL ROLLING MILL

- ✓ Power from 2x3 to 2x18 kW
- ✓ Large diameter Cylinders of 500 x 200 to 800 x 1000
- ✓ Flow from 1 to 10 tons/hour
- ✓ technology the type of "Transcobloc"
- ✓ Driving by two groups
- ✓ Pressure between cylinders from 3 to 15 tons
- ✓ Screw Feeding with inverted turn
- ✓ Magnets ramp



PELLETING PRESS

- ✓ Power until 160 KW
- ✓ Flow to 10 tons / hour
- ✓ Full installations of pelleting (steam, cooling, crumbled, sieving)

WEIGHING

- ✓ Weighing system
- ✓ Control boxes



AUTOMATION

PESAGE MULTISITE

- ✓ 10 grams, 100 grams (precision according to the quantities used)



PILOTING

- ✓ Interfaces men / machines
- ✓ PC production line management



INDUSTRIAL MIXER

- ✓ Power to 90 kW
- ✓ With double opposite ribbon or blade system
- ✓ All volumes to 12m³
- ✓ Quick mixing
- ✓ Greater of homogeneity
- ✓ Inspection doors and emptying
- ✓ Several models of inlets / outlets

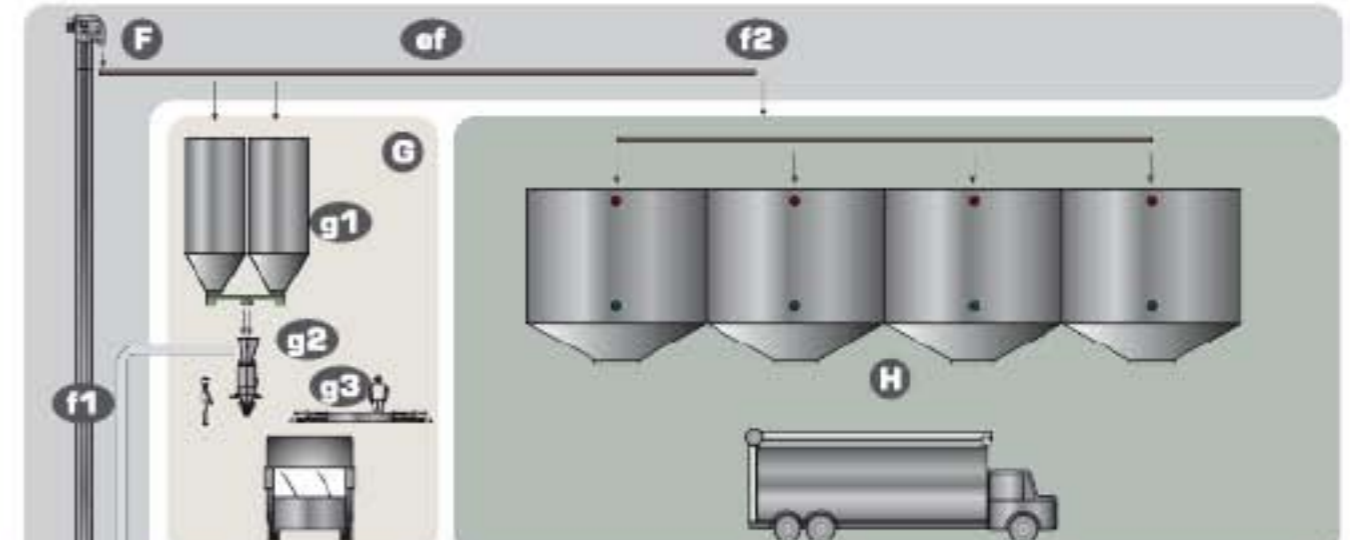
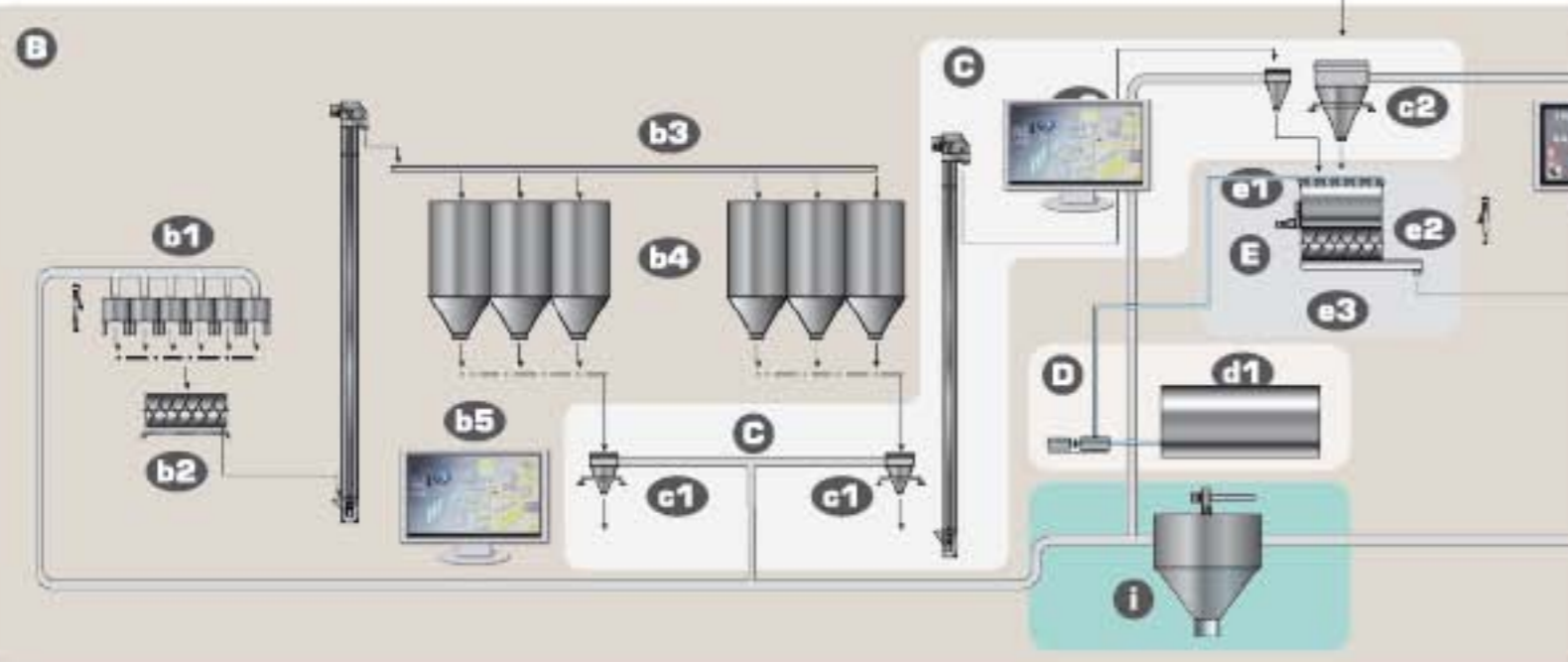


HANDLING

- ✓ Screws elevator
- ✓ Horizontal screws
- ✓ Screw conveyor
- ✓ Pallet elevator
- ✓ Bucket elevators
- ✓ Chain conveyor, flows 20,30,50 and 100 tons / hour



INDUSTRIAL FOOD PROCESSING FACTORY: EXAMPLES OF INSTALLATIONS (PHOTOS, 3D, DIAGRAM TYPE)



COMPONENT MODELS AND OPTIONS

A MILLING OF RAW MATERIALS :

- a1 Storage of raw materials
- a2 Depressurized mill
- a3 Handling
- a4 Milled raw material storage
- a5 Automation

B PREPARATION OF PREMIX AND ADD-INS :

- b1 Site of bag emptying
- b2 Dosing mixer
- b3 Handling of premix
- b4 Storage of different premix
- b5 Automation

C AREA OF DOSAGE (SITES RUNNING SIMULTANEOUSLY) :

- c1 Dosage of "premix" and add-ins
- c2 Dosing of flour
- c3 Automation

D INCORPORATION OF LIQUIDS :

- d1 Storage
- d2 Pump and flow meter

E MIXING :

- e1 Incorporation of liquids
- e2 Mixer
- e3 Hopper lung

EF AUTOMATION :

- F FOOD HANDLING :
- f1 Bucket elevator
- f2 Chain conveyor or screw

G BAGGING :

- g1 Storage of food
- g2 Weighed sacker
- g3 Sewing line

H BULK FOOD STORAGE

I DUSTING

RENE TOY, EXPORT LOGISTICS TEAM

Since its first years of existence, the TOY company began exporting its machines and knows how, the export activity represents today 50% of turnover and it is constantly progressing. The company now exports to 45 countries and also has subsidiaries or commercial representations in Asia, Latin America, Eastern Europe, and Africa. The company has experience in export issues and offers an efficient logistic service.



DEDICATED EXPORT TEAMS

The export teams are dedicated by large areas (Europe, East Europe, Africa, Latin America, Asia...) to ensure fluid and fast service in phase of pre installation, installation, follow up ... (habit of the Customs specifics for each destination).



LOGISTIC/TRANSPORT

Shipping department ensures a quality and insured packaging, according to the standard of transport and protection of material during the several stages of loading, discharge, and transport to the site of implantation.

The loads are very rigorously organized in order to optimize both : the good shipping (weight / volume ratio, stability, containers dimensions) and to guarantee the logic of unloading.



EXPORT PROJECTS PROGRAMMATION

HUMAN RESOURCES:

DEFINITION OF MEANS BETWEEN RENE TOY AND HIS CLIENT, SUPERVISION AND OPERATOR OF INSTALLATION

LABOUR:

NUMBER AND SKILLS (MECHANICAL, ELECTRICAL, WELDERS, MASONS ...)

TOOLING CHECK LIST

TOOL BOX, ELECTRICAL PORTABLE EQUIPMENT (WELDING POST, ETC).



COMMITMENT OF A RELIABLE RESULT!

LIFTING / HANDLING

FORKLIFTS, CRANE BASKETS ETC

ENERGY RESOURCES

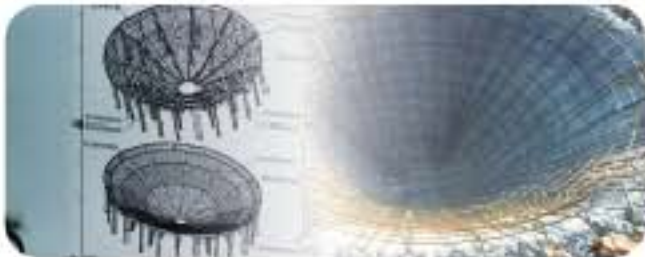
ELECTRICITY POWER SUPPLY, DISTRIBUTION AND LIGHTING, WATER

PLANNING AND RISKS

PERIOD OF INSTALLATION, CLIMATIC RISKS, SHIPPING, DUTIES CUSTOMS PAYMENT.

ON-SITE INSTALLATION: CONSTRUCTION MANAGEMENT

Performed entirely by our teams, from conception to realization, we know perfectly our material and most of the problems of installation, much before the beginnings of construction. Furthermore, we have the habit of full installations in several countries, in collaboration with multicultural teams. Finally, the reliability and quality of construction programming upstream will guarantee a fluid construction in accordance with schedules.



ALGERIA



UKRAINE



METHODOLOGY

INITIAL PHASE:

- > BRIEFING OF SITE WORK MANAGERS...
- > ...AND ASSEMBLING TEAMS.
- > UNLOADS AND DISTRIBUTION OF MATERIAL ON SITE (DRAWING AND ASSEMBLY MANUALS DISTRIBUTION).

ASSEMBLY PHASE:

- > MASONRY,
- > MECHANICAL ASSEMBLIES,
- > ELECTRICAL ASSEMBLIES AND POWER UP TESTS
- > INSTALLATION AND AUTOMATION PROGRAMMING
- > CYCLICAL CONFORMITY CHECKS

COMMISSIONING DELIVERY:

- > CONTROL OF QUALITY / CONFORMITY
- > COMMISSIONING TEST AND LOADING TEST
- > CONTROL PROGRAMMING

THE RENE TOY AUTOMATION SYSTEM: AN EASY TOOL, CUSTOM ADAPTED FOR A PRODUCTION MANAGEMENT ASSISTED BY COMPUTER.

Developed in the Group René TOY by SYMATEC, our automation system owns advantages unrivalled in terms of adaptation of flexibility and simplicity of use. The interface man / machine is evolutionary, allowing to easily integrate the piloting of new materials without expensive modifications. By the programming's flexibility and the qualities of components the TOY/Symatec system will accompany your automated production durably and profitably in all reliability.

INITIAL AND EVOLUTIONARY PROGRAMMING OF SYSTEM

The initial programming is done on the implementation of the factory. The flexibility and user-friendliness of our system allows all types of changes in the parameters to follow the evolution of your productions. Here below are some productions setting examples of menus and follow up.

- **Components menu:** Identification of raw materials used in your production (names, nutritional, economic)...
- **Silo menu :** allocation of storage places
- **State of the stock menu:** inventory management of raw materials based on deliveries and consumption.
- **Recipes menu:** recipe creation (selection of raw materials, proportions, destinations).
- **Planning menu:** production planning (daily, weekly): recipe/quantity
- **Configuration menu:** set-up of data machines and process to every production sequence
- **Control menu:** proactive inventory management
- **History menu:** tracing of productions made (sorted by date, components, recipes...)
- **Remote control menu:** Launch et supervision of productions (release, stop, pause / recovery in process).

CONTROL PC INTERFACE MAN / MACHINE

PROGRAMMING & PRODUCTION FOLLOW UP:
A-A... Examples of programming and followed production screens.

Storage management (SYMASTORE, SYMAGUARD).
C Plant / manufacturing (SYMAFAB)
D Distribution management

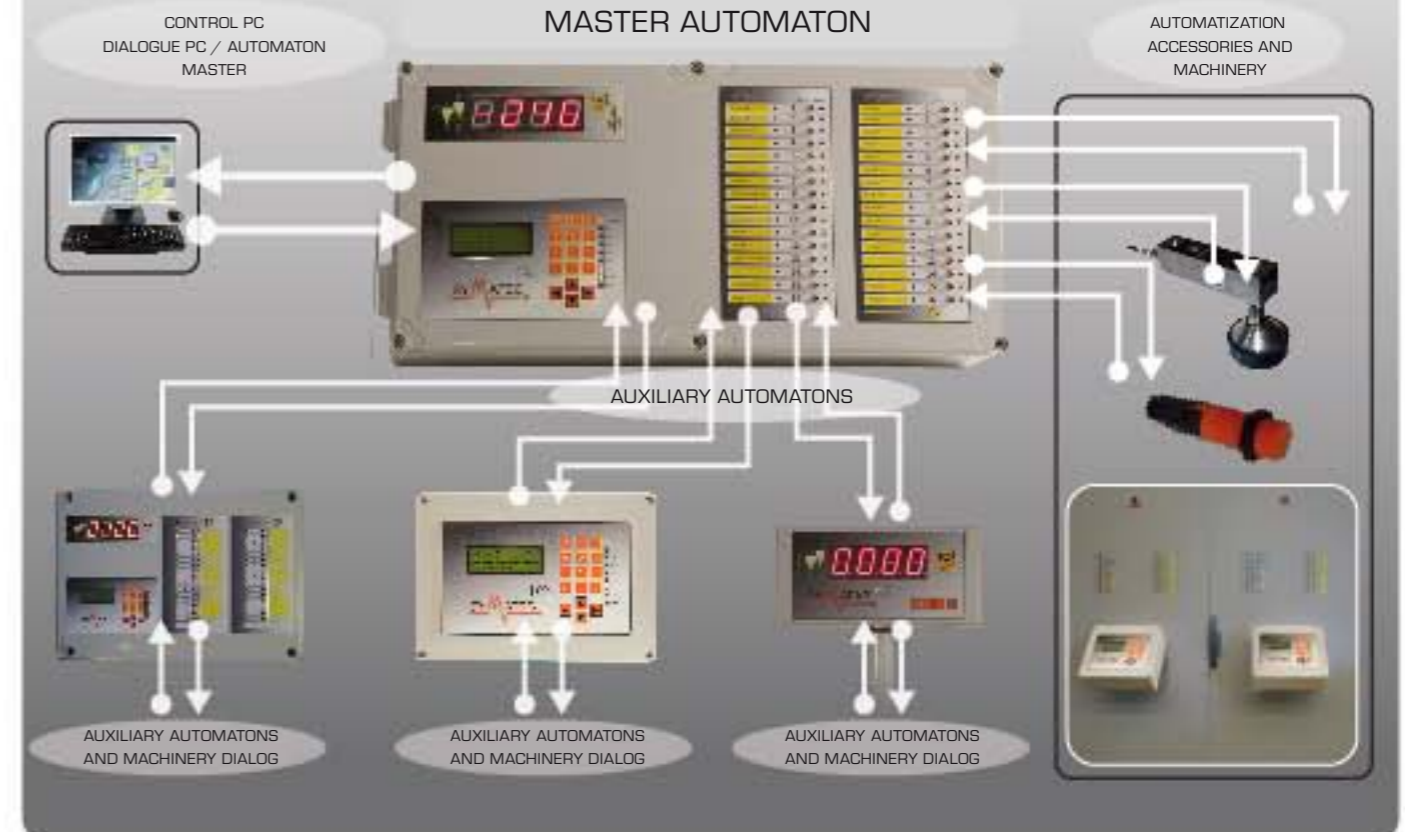


PRODUCTION PILOTING (DYNAMICS SYNOPTICS)

Specifically developed by Symatec for René TOY a set of high-performance software allows the control of any type of production units.

- **SYMAFAB :** Automatic management and control of a food production unit, single weighing site. Possibility of pc connection (conviviality).
- **SYMALINK :** Management Software of several automatons: synchronizations of multi-sites/multi-tasks
 - Automaton SYMAFAB MASTER (quantity 1);
 - Associated to automatons "Symafab auxiliary" (quantity 1 to X);
 - Pilot multiple weighing sites (unit kg, 100 grams, 10 grams);
 - One automaton = one weighing site
 - Operates simultaneously= production speed from 5 to 25 tons/hours, or more.
- **SYMALINK, Result of a long experience of users expectations in terms of simplicity, the software supports:**
 - The data input and user consultation,
 - Data entry and user consultations, the configuration data and system parameter.
 - The follow up graphic on synoptic generic or specific to customer (several HD screens possible)
 - The long-term traceability on all the realized operations (shareable XML files).
 - All in a very meticulous environment, pleasant and ergonomic.
- **SYMASTORE :** Automaton for managing a unit of raw materials handling with dynamics synoptic, taking into account the progress defined by the user: 1 starting point, 1 arriving point and the automaton manages the set of necessary machines to this progress (Auger, Elevator, conveyor, cleaner, dryer, directional box, intermediary trap-doors etc.).
- **SYMAGUARD :** automatic management of raw materials conservation with dynamic synoptic (Control of temperature of stored matters, activation of alarms, ventilation activation and control of moisture in the air etc.).

SET OF AUTOMATONS (DIAGRAM)



WEIGHING CARD - PROGRAMMING CARD AND KEYBOARD



COMMISSIONING TRAINING

Training begins in the assembly phase by the permanent involvement of responsible and future operators of its production unit. Then in pre operational phase training is completed - technically, practically and theoretically - for : preventive maintenance, management of spare parts and fixing.

MACHINERY TRAINING

A Training in the use of adjustment, maintenance, troubleshooting is provided for each machine: theoretically and technically (furniture and explanation of instruction manuals) and by the practical way: explanation, adjustments, demonstration on each machine. Training also approaches the wear parts management (grates, hammers, belts, filters etc.) and the creation of a strategic stock of parts (on criterion of production and localization).

THE TRAINING PROCES

Refers to overall functioning of line process (interaction between machines, commissioning coherence settings).

Several piloting ways are approached : manual, automatic, production changes, cleaning - started, and daily line stop, exceptional stop, (maintenance, breakdown) - Sleep (seasonality)...

TRAINING IN THE PILOTING BY PC

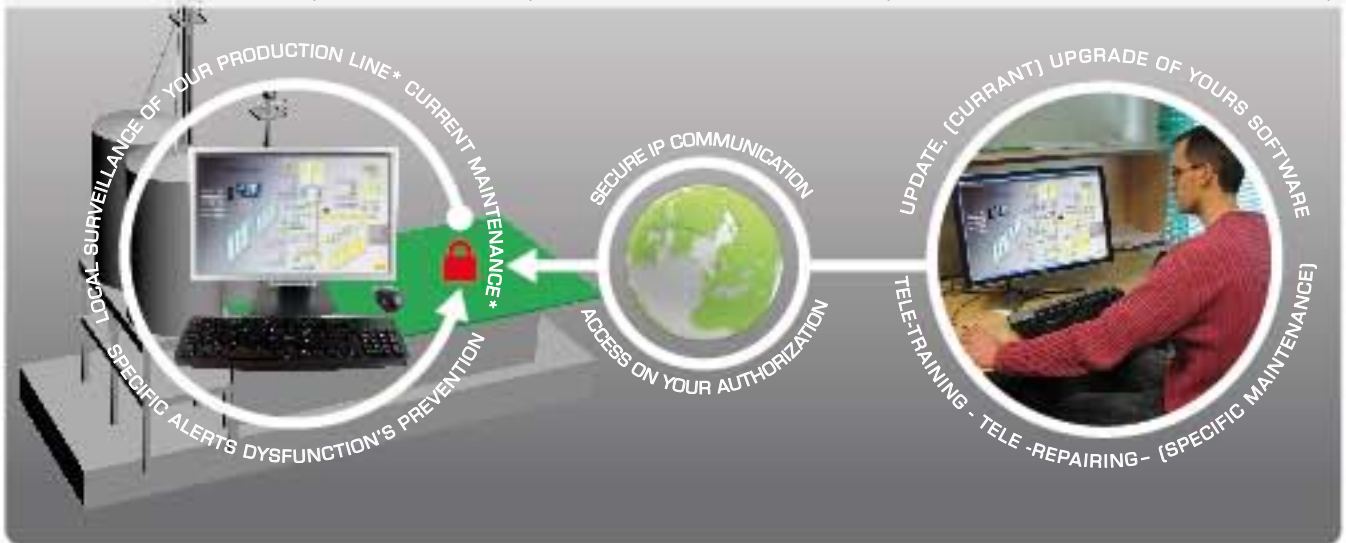
The PC is a real interface man / machine (see page operator) allowing you to programming all of your plant. During the initial setup of system, training will be proposed to the operators responsible of production. This training includes:

- ✓ **PROGRAMMING TRAINING:** Follow-up to the initial programming (activation of preset options and variants)
- ✓ **EVOLUTIONARY PROGRAMMING TRAINING:** Modification of the initial parameters and rescheduling according to the evolution of your production. *
- ✓ **PILOTING TRAINING:** Factory food piloting and optional piloting of annexed systems.
- ✓ **PC MAINTENANCE TRAINING:** Follow up of current and outstanding alerts.

MAINTENANCE INTERFACE

PLACE OF PRODUCTION (LOCAL SITE, FOOD FACTORY)

RENÉ TOY (REMOTE SITE - REMOTE MAINTENANCE - TELE - TRAINING)



AFTER-SALES & MAINTENANCE SERVICE

The after sales service it is the life accompaniment of installation. A team of experts (mechanics, electricians ...) at your service to diagnose a possible dysfunction and provide solutions to either distance or intervening directly in your plant, according to their location. The Risk prevention of René TOY (PC-assisted maintenance machines reliability) and our extensive experience allows us to minimize the risks of repairs and the production breakdown.

USING FOLLOW UP

For a pilot assistance of your production line, a team is at your disposal to support you in distance for the good use and adjustment of your installation.

SPARE PARTS

A stock of spare parts is continuously available for shipping. The company's network also has the maintenance equipment and quick troubleshooting.

SUPPORTS

Exceptionally a René TOY maintenance team can intervene directly in your production site of production for a complex intervention.



ALGERIA



NEW CALEDONIA





EXPERIENCE, KNOW-HOW, EQUIPMENT
BENEFITS OF A GREAT FRENCH MANUFACTURER

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