



b&t **SIR**
Robotics & Logistics



**ORDER AND PRECISION
AT COMPANIES' SERVICE**

SITI - B&T GROUP S.p.A.

Head office in Formigine



- **1961** The year Gruppo **Barbieri & Tarozzi** was founded
- **1989** Takeover of **SIR, Soluzioni Industriali Robotizzate**, business expanded in the industrial robotics sector
- **1999** Takeover of **Gruppo Nassetti** and its relative technological know-how
- **2007** Takeover of **Gruppo SITI** and merger into a single international group, **SITI B&T GROUP S.p.A.**
- **2010** Creation of the **Robotics & Logistics** division



SIR S.p.A. – Soluzioni Industriali Robotizzate

Office in Modena

- **1984** The year **SIR - Sistemi Industriali Robotizzati** was founded
- **1989** SIR was taken over by **Gruppo Barbieri & Tarozzi**
- **2004** Relocation into the modern plant in **Modena**
- **2005** Launch of the partnership with the **University of Modena and Reggio Emilia** which involved the creation of **2 university labs focused on advanced robotic design**
- **2010** Creation of the **Robotics & Logistics** division



SITI - B&T GROUP S.p.A.

Locations and Direct Agents



In **JELLOW**: Locations
In **RED**: Direct agents

USA – LPM America

Mr. Borgogna

BRAZIL – AFFARI SERVICE

Mr. Henrique Garcia

GERMANY – SIR GmbH

Mr Tallowitz

FRANCE – MAFF

Mr. Mougel

ITALY Formigine - Modena – Marano Ticino – Milan | **SPAIN** Castellon |
PORTUGAL Coimbra | **RUSSIA** Moscow | **TURKEY** Izmir | **EGYPT** Cairo |
IRAN Tehran | **INDIA** Bangalore | **CHINA** Foshan | **VIETNAM** Ho Chi Minh City |
INDONESIA Jakarta | **MEXICO** Monterrey | **BRAZIL** San Paolo – Campinas |

ROBOTICS & LOGISTICS



Thanks to the 50 years of experience of **Barbieri & Tarozzi** in automated logistics and internal handling with over 1800 LGV vehicles and the first-class applications of **SIR**, which in the past 20 years installed over 2500 systems in iconic sectors in terms of technological innovation such as aviation, the military and automotive industry, along with the advanced manufacturing industry, **SITI - B&T** long imposed itself in the end-of-line and warehouse handling world, confident it can offer innovative and high-tech solutions. The new **Robotics & Logistics** Division can offer the skills of a leading group with a number of years of experience in advanced sectors by developing reliable and efficient systems over time for top clients in the following industries:

- Food
- Beverage
- Mechanical industry
- Pharmaceuticals
- Chemicals
- Plastic
- Paper
- Ceramics - Bathroom fixtures.



ROBOTICS & LOGISTICS



SIR

Robotics & Logistics

Robotics & Logistics can offer:

- Custom solutions for problems related to industrial logistics on the end of production lines.
- Use of latest-generation anthropomorphic robots at 4 and 6 degrees of freedom, specially designed for high-speed palletization.
- Creation of gripping systems specifically designed for the various types of products.
- Integration of conveyors and highly independent unloading systems connected to the production cycle.
- LGV laser-guided automatic vehicles to manage storage logistics.



ROBOTICS & LOGISTICS

Clients



SIR

Robotics & Logistics

Ferrari

ABB

BONFIGLIOLI

Power & Control Solutions

ANGELO PO

**ASSO
WERKE** PISTONI
PISTONS
KOLBEN
PISTONES

BBS

BERCO

DUCATI

A AUTOMOTIVE
LIGHTING

FRANKE

CAMOZZI

CARRARO

DAF

COMAIS srl

Avio
propulsione aerospaziale

AIR CONDITIONING
AERMEC

FIAMM

fondital

brevini riduttori
PLANETARY PARTNER



COMAU

Jouzzi

ROBOTICS & LOGISTICS

Clients



SIR

Robotics & Logistics



Carma



speedline



ROBOTICS & LOGISTICS

Food & Beverage



SIR

Robotics & Logistics



ROBOTICS & LOGISTICS

Food & Beverage



SIR

Robotics & Logistics



ROBOTICS & LOGISTICS

Paper



SIR

Robotics & Logistics



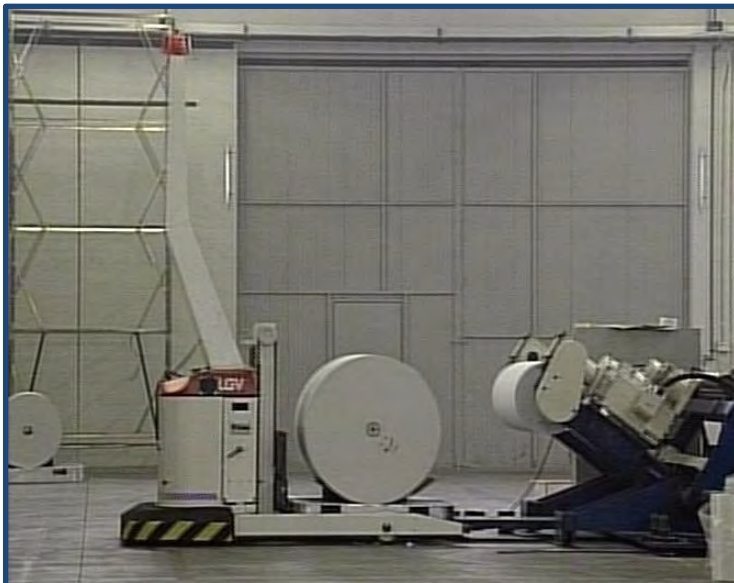
ROBOTICS & LOGISTICS

Paper



SIR

Robotics & Logistics



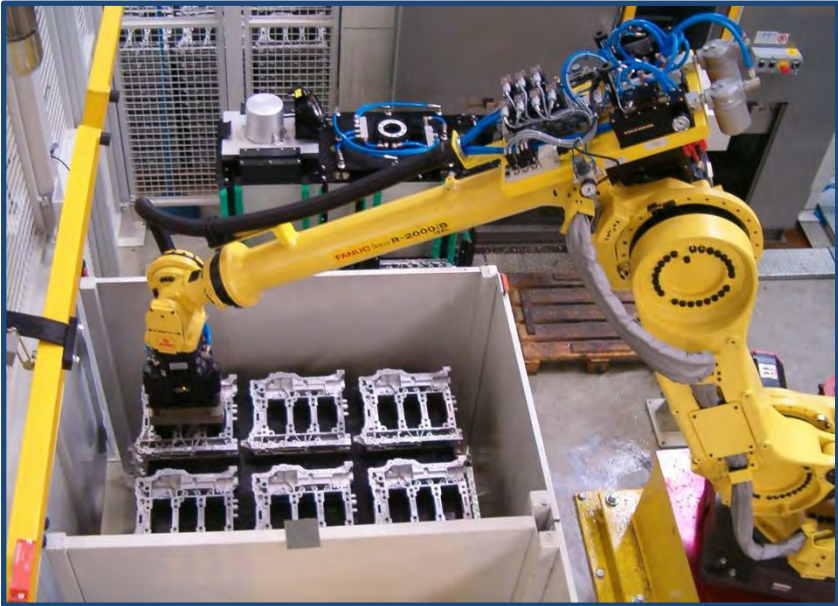
ROBOTICS & LOGISTICS

Mechanical industry



SIR

Robotics & Logistics



ROBOTICS & LOGISTICS

Handling & Packaging



SIR

Robotics & Logistics



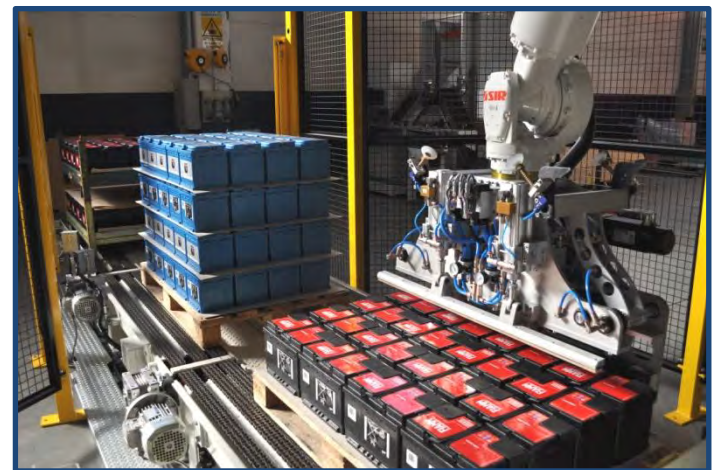
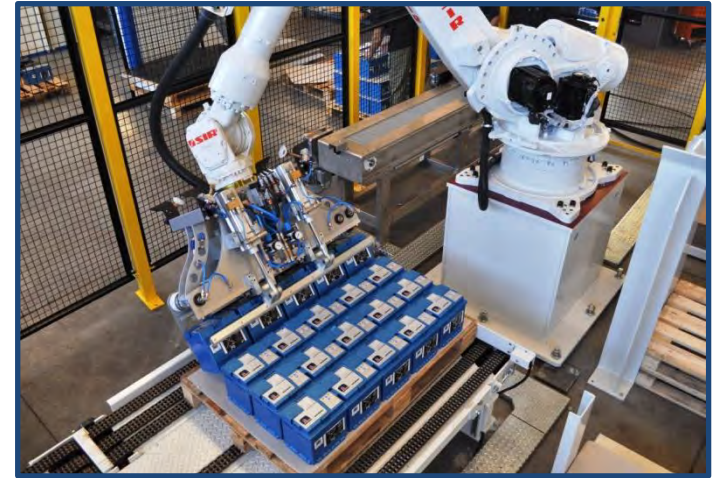
ROBOTICS & LOGISTICS

Handling & Packaging



SIR

Robotics & Logistics



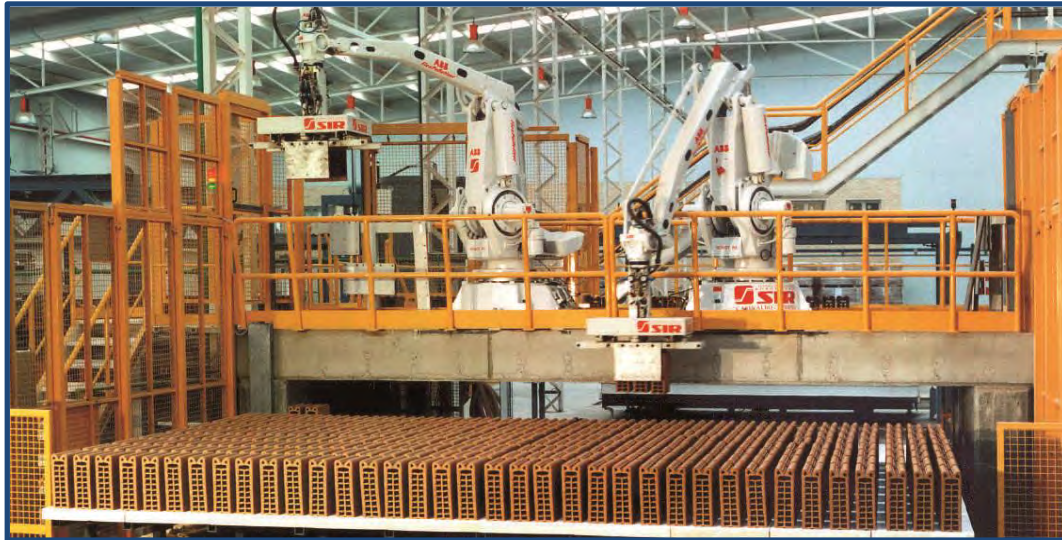
ROBOTICS & LOGISTICS

Ceramics – Brickwork - Refractory material



SIR

Robotics & Logistics



ROBOTICS & LOGISTICS

Bathroom fixtures



SIR

Robotics & Logistics



ROBOTICS & LOGISTICS

Handling and Flexibility



SIR

Robotics & Logistics



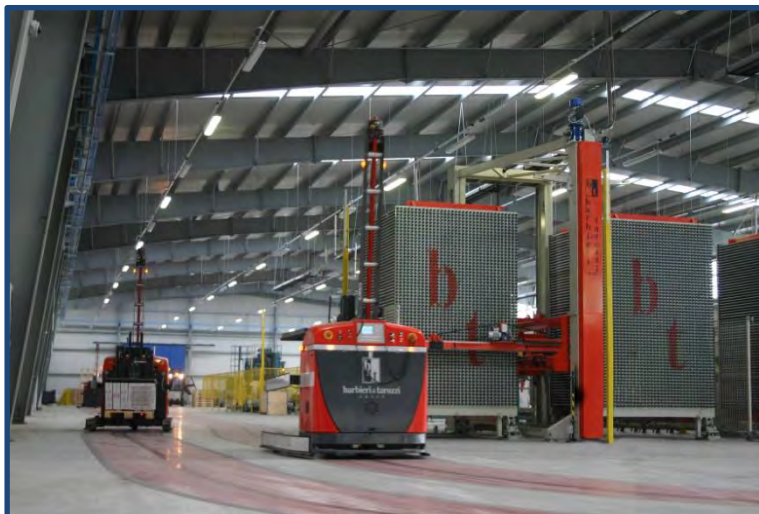
ROBOTICS & LOGISTICS

Handling and Flexibility



SIR

Robotics & Logistics



ROBOTICS & LOGISTICS

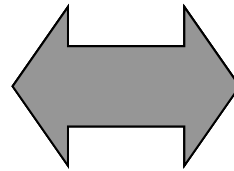
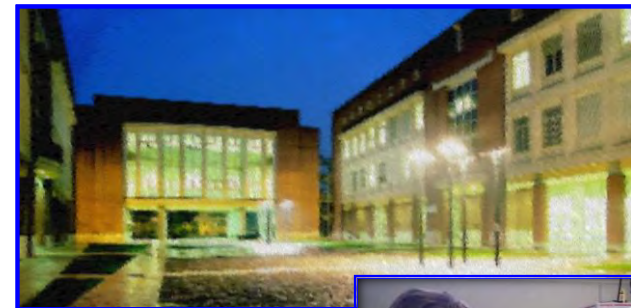
SIR – Research and Development - University



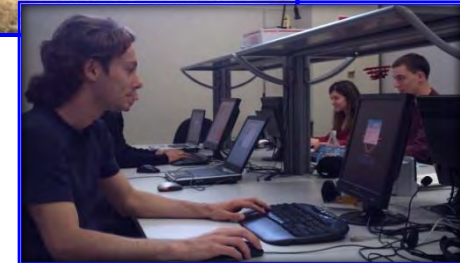
SIR
Soluzioni Industriali Robotizzate S.p.A.



Engineering Department - Modena
University of Modena and Reggio Emilia



The collaboration took shape with the creation of the 2 university labs focusing on advanced robotic design: one inside SIR's plant and the second one inside the Department of Mechanical Engineering of Modena and Reggio Emilia.



SIR – Experimental lab of virtual prototyping of robotic systems

The lab located in SIR's plant allows to physically check the research work conducted earlier: after creating the prototypes, the solutions are industrialised and subsequently turned into products based on SIR's standards.

La.P.I.S. – Laboratory of integrated design and simulation of robotic systems

Analysis, research and experiments are conducted inside the university lab using specific modelling and simulation techniques for every scientific/industrial aspect.

These activities are carried out in partnership with SIR's researchers.

ROBOTICS & LOGISTICS

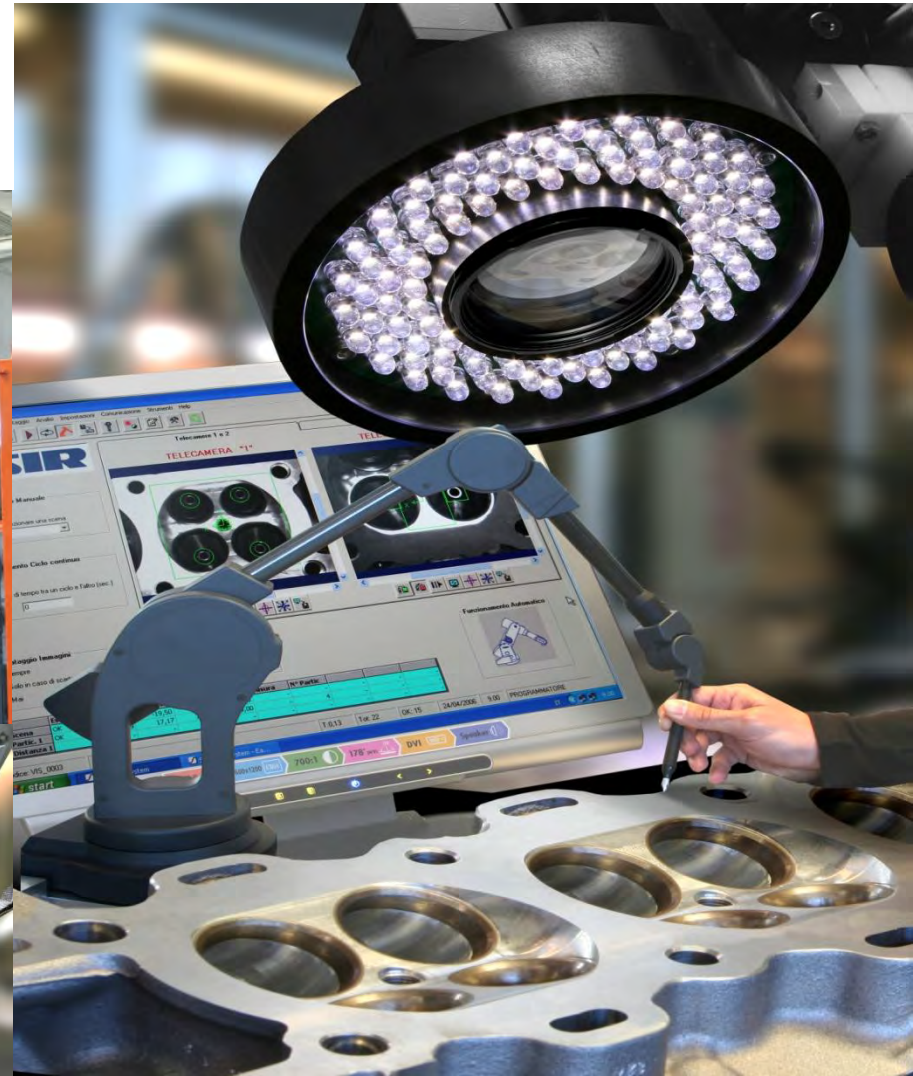
SIR – 2D and 3D artificial vision

- Artificial vision: the sensory instrument that provides interaction between robots and the environment
- It guides robots in 2D and 3D environments
- Control of the surface quality, dimensional control and correct assembly
- Follows profiles in real time and generates EasyPath robot routes (patented)



SIR

Robotics & Logistics





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