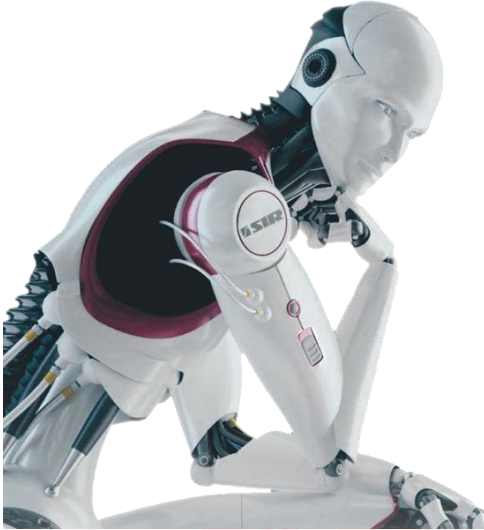




SOLUZIONI INDUSTRIALI ROBOTIZZATE



# The Gear Day Modena – 05/05/2017

SIR SpA – Andrea Genovesi



SOLUZIONI INDUSTRIALI ROBOTIZZATE



## CORPORATE STRUCTURE – KEY ASPECTS

- **SIR S.p.A.** is part of Wolong Electric Group Co., Ltd., a world leader manufacturer of electric motors.
- The Company was founded in Modena (Italy) in 1984.
- It develops state-of-art solutions for industrial automation in several different industries worldwide.
- It operates in a **4.500 sqm** facility in Modena (Italy).
- Innovation is a Company key pillar.
- **Turnover SIR 2016: 32.000.000,00€.**
- Employees in 2016 = **100.**
- **Export account 70% of turnover.**
- More than **3.500 solutions** installed worldwide.



### SIR S.p.A.

Soluzioni Industriali Robotizzate  
Strada Nazionale del Canaletto Centro, 450  
41122 Modena | Italy



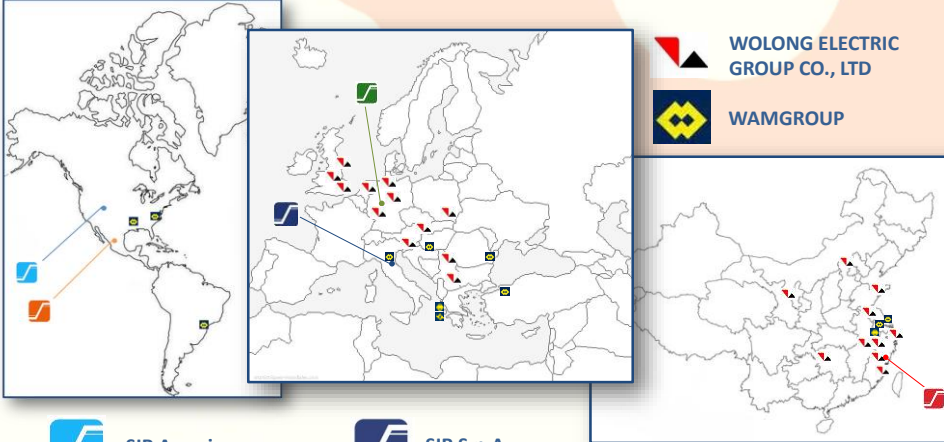
[www.sir-mo.it](http://www.sir-mo.it)

PHONE: +39 059 31 64 811

FAX: +39 059 45 48 75

EMAIL: [sir@sir-mo.it](mailto:sir@sir-mo.it)

## GROUP FACILITIES



**WOLONG ELECTRIC GROUP CO., LTD**

**WAMGROUP**

**SIR America**

**SIR de Mexico**

**SIR S.p.A.**

**SIR GmbH**

**SIR China**

**MetAGEAR**

**SIR**  
SOLUZIONI INDUSTRIALI ROBOTIZZATE

## CORPORATE PHILOSOPHY



**KNOW-HOW:** we are constantly improving and developing innovative ideas and strategies in order to cope with our clients needs. Needles to say we own several patent.



**FLEXIBILITY:** several different products development, quick change retooling system, fast programming, friendly user interface, latest robot generation use.



**RELIABILITY:** accurate system setup, high-end products use; high productivity, prompt after-sales service.



## A SINGLE SOLUTION TO SEVERAL DEMANDS



ASSEMBLY



PALLETIZING



FOUNDRY



DEBURRING



WELDING



LGV



## A SINGLE SOLUTION TO SEVERAL DEMANDS



AERONAUTICS



AUTOMOTIVE



FOUNDRY



PLASTIC



SANITARY



FOOD & BEVERAGE



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## METAGEAR PROJECT

### OR4 – High accuracy and reconfigurability robotic system

#### EXPECTATIONS

- Gain **many new knowledge** and important performance increase
- **New tools and technologies** to improve new robotic plants and to re-adapt existing plants
- Possibility to **enlarge the market** proposal with **more flexible robotic solutions**



## METAGEAR PROJECT

### OR4 – High accuracy and reconfigurability robotic system

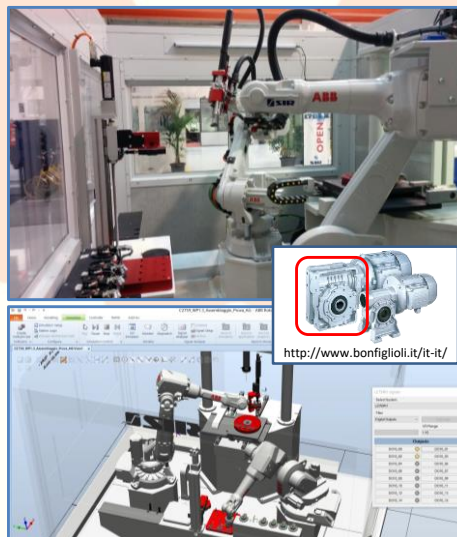
#### ACTIVITIES

New architecture of reconfigurable robotic assembly cells (M1-M12):

- **Different control architecture** needed to improve and re-adapt existing plants, and to develop high reconfigurable robotic cells: **PC based and Structured Text** instead of PLC & AVL

Operating modules and their behavioral models, product configuration, tests (M7-M24):

- **Identified the case study** and variances for robotized assembly
- **re-adapting robotic assembly democell**
- analysing case study for preliminary assembly **simulation tests**



<http://www.bonfiglioli.it/it-it/>



**THANK YOU VERY MUCH FOR  
YOUR ATTENTION**

**SIR S.p.A.**

**S.da Nazionale del Canaletto Centro, 450**

**41122 MODENA – ITALY**

**sir@sir-mo.it**

**www.sir-mo.it**



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