

# SPARKheavy

Road to **STANDARD** flexibility

**OLCI**  
**ENGINEERING**

A MEMBER OF EFORT GROUP

**GENERAL INDUSTRY**

# ▶ SHAPE YOUR IDEAS

## Compose your robotic cell

Thanks to the precious experience acquired and the innate attention to the needs of the Customers, O.L.C.I. Engineering S.r.l. can now further facilitate each production process.

The mission that has guided O.L.C.I. Engineering S.r.l. since its inception, and which still represents it, is to find continuous innovative solutions that perfectly match customer expectations, giving life to a new process of flexible standardization.

“The **FUTURE** is closer than you **THINK**”

### Main characteristics

## SPARK<sup>▶</sup>heavy

### ▶ Road to standard flexibility

- Realization of different processes on the castings (cutting, deburring, etc.) with a high degree of accuracy;
- Process of cast iron, steel, aluminum, bronze, etc;
- Maximum dimensions of the processable castings: within a parallelepiped 1200 x 1200 x 1000 (H) mm;
- High load capacity of the rotating tables, up to 10,000 kg (casting + equipment);
- Significant reduction in set-up times;
- Monitoring of the wear of the used tools;
- Possibility of building, in complete autonomy by the Customer, of piece housing and locking equipment, based on the technical solution identified by the O.L.C.I. Engineering S.r.l. technical specialists;
- Turnkey solution, complete with soundproof protection and soundproofing cabin, designed for connection to the customer's centralized suction system;
- Adequacy to the latest and highest safety standards dictated by the Machinery Directive;



## Main characteristics

### High performance in terms of productivity, with an estimated ratio of 1:4 compared to the operations performed manually by the operator.

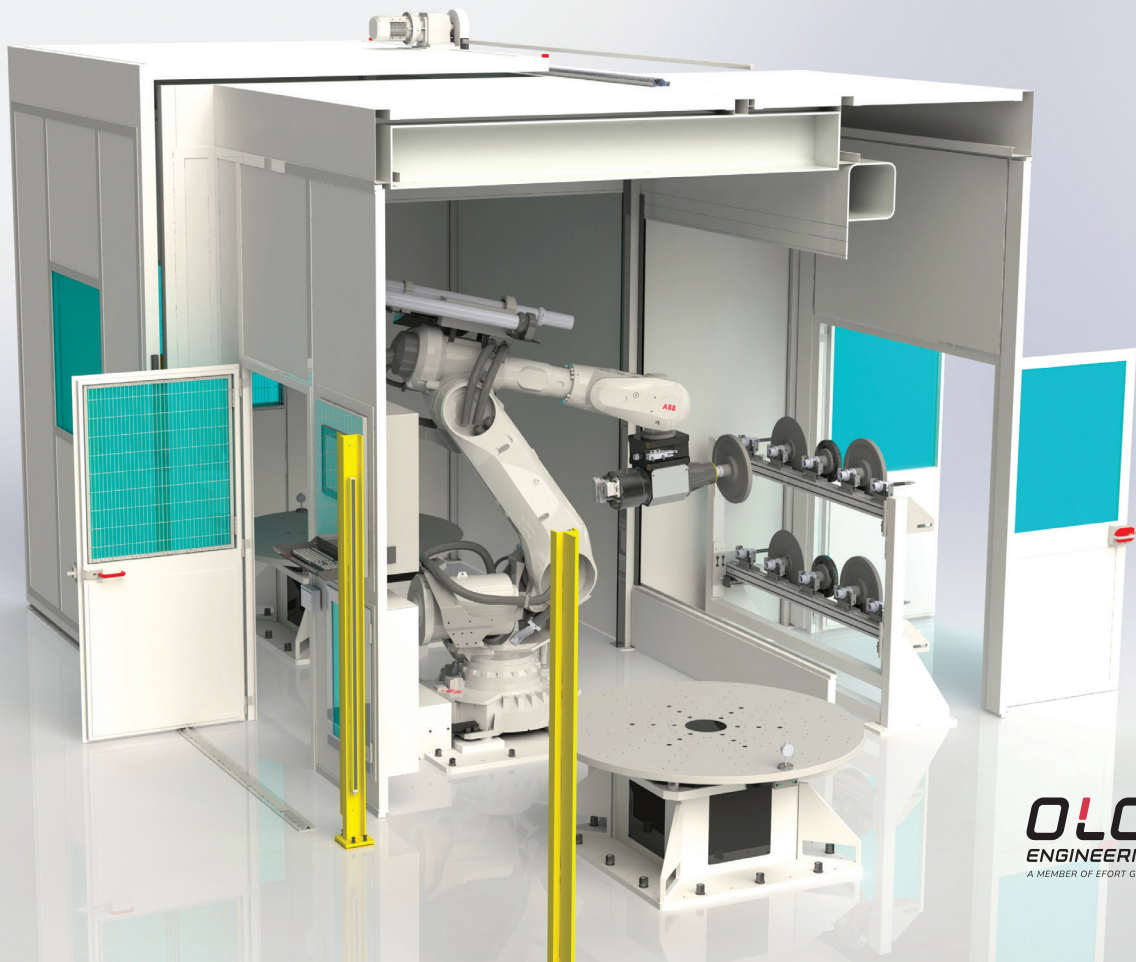
- Drastic reduction of plant downtime, high flexibility and efficiency mainly determined by:
  - Robot workstation segregation systems and consequent possibility of casting change during the normal process cycle of the Robot;
  - Tool magazine segregation system e consequent possibility of replacing worn tools during the normal process cycle of the Robot;
  - Robot wrist electrospindle equipped with automatic tool change system with HSK A63 cone and relative modular multi-station tool magazine;
  - Integration with the most modern and performing off-line programming software for the preventive evaluation of process cycle times and reachability, with consequent reduction of robot programming times;
- Synoptic for supervision and monitoring of the robotic cell, complete with “user friendly” user interface;
- Predisposition for remote connection and “Graphic Remote Control O.L.C.I. Engineering S.r.l.” remote assistance service;
- Full compatibility with the requirements dictated by the “National Industry 4.0 Plan”;
- Personalized training plan, held by highly specialized O.L.C.I. Engineering S.r.l. personnel;
- Possibility of combining with the range of services and programming packages provided by O.L.C.I. Engineering S.r.l.
- Possibility to take advantage of all the advantages deriving from O.L.C.I. Engineering S.r.l. Cares services.

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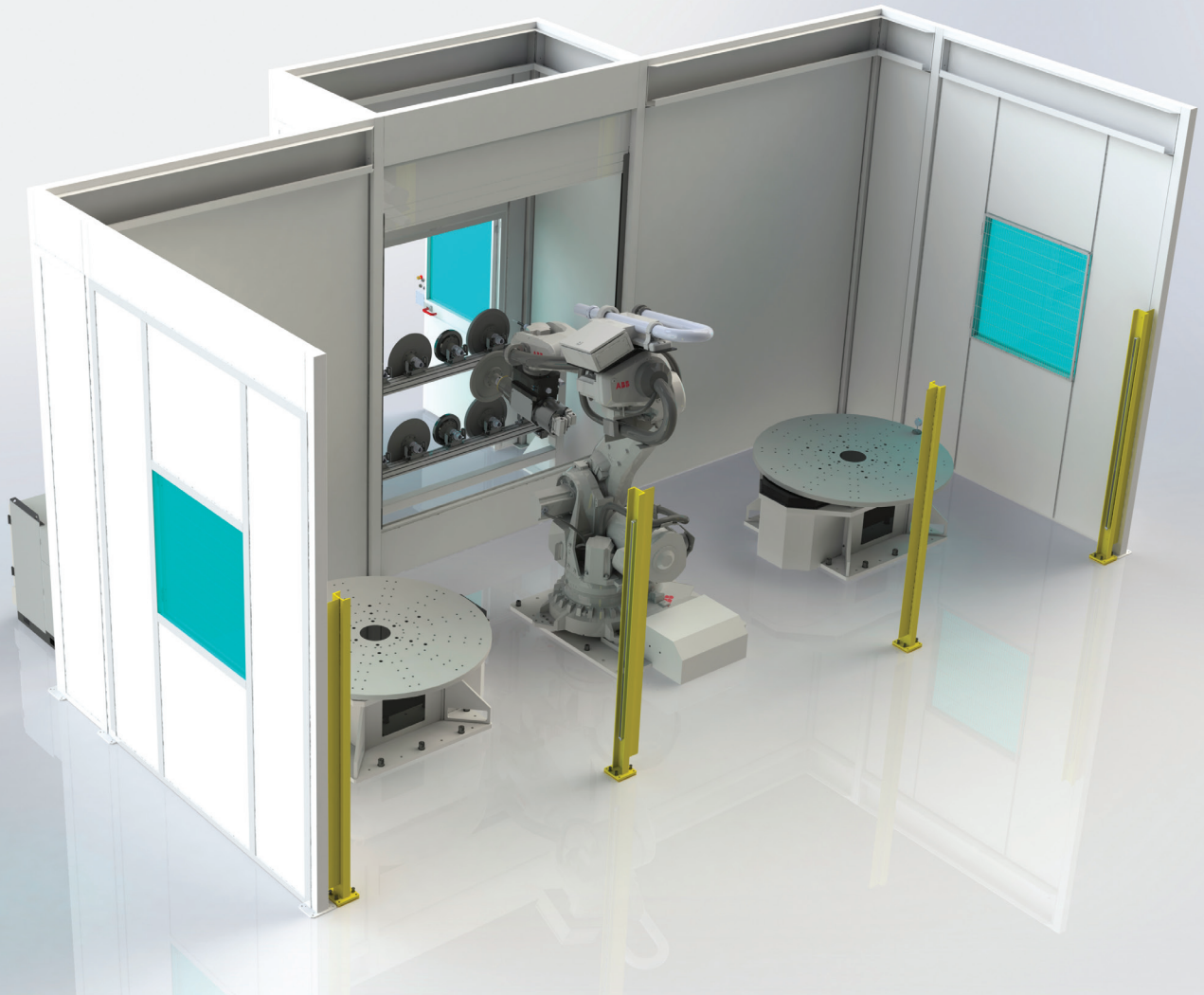
## Basic

- 6-axis anthropomorphic robot with a carrying capacity of 235 kg at the wrist, and having characteristics suitable for the process in foundry environments;
- Base for fixing and supporting the robot;
- Laser sensor mounted on the robot;
- Robot-mounted deburring electrospindle, equipped with liquid cooling system and automatic tool change system with HSK A63 cone;
- Multi-station tool storage magazine;
- N ° 2 positioners with rotating housing table castings in process;
- Soundproof protection and soundproofing cabin, complete with workstation segregation systems and tool magazine and predisposition for connection to the Customer's centralized suction system;
- Electric equipment;
- Robotic cell supervision and monitoring synoptic;
- Study, design, assembly, wiring, programming and pre-testing at the O.L.C.I. Engineering S.r.l. factory;
- Installation, commissioning and testing at the Customer's plant;
- CE Certification Annex IIA.

### BASIC package







Optional BUILT BY YOU

# SPARK<sup>1</sup>heavy

**Built**  
by you

- Robot protection system, made of technical fabric;
- Additional modules on tool magazine;
- Off-line programming software;
- Adaptation of the robotic cell to comply with the minimum requirements relating to the enabling technologies provided for by the “National Industry 4.0 Plan”;
- “O.L.C.I. Engineering S.r.l. cares” services (remote assistance, etc.);
- Training plans tailored to customer needs;
- Any specific options evaluated in collaboration with our specialists.

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