



I V E C O • G R O U P

**Manufacturing Engineering  
Electrical Machinery Architecture Systems & Innovation Dpt.**

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I V E C O • G R O U P

IVECO  
CAPITAL

HEULIEZ

IVECO  
BUS

IVECO

FPT

IDV

ASTRA

MAGIRUS

# Electrical Machinery Architecture Systems & Innovation

Activities description

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# Electrical Machinery Architecture Systems & Innovation

*Activities overview*

The department act as technical support of the Manufacturing Engineering, in doing the following activities:

- Digitalization studies
- Innovation studies
- Machinery interconnection with MES
- Definition of the control systems of the machinery equipment
- Approval of the electrical and fluid project and documentation
- Control systems safety related aspects safeguard
- Machinery electrical interconnection
- Functional testing and acceptance of the machinery
- Support to plant maintenance

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*Monetary budget*

- ❑ The department is responsible for managing a monetary budget for:
  - Innovation projects
  - Digitalisation projects
  - Battery test banches purchase
  - Travels for machinery acceptance to suppliers and plants
  - Travels for technical support to plants
  - Technical Specification Web Site management

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Standardization activities

<b>STUDIES</b>	Studies to standardize the machinery equipment of complex production lines, sited in all Iveco plants, in different countries, consisting of different types of machines, built by different suppliers.		
<b>GOALS</b>	OEE/OLE improvement	Plant manager protection	Working capital reduction
<b>JOB</b>	Continuous improvement and standardization of the machine control system and equipment, to reduce losses	Safeguard of the compliance with the Machinery Directive and Harmonized Norms and the CE Mark	Equipment components choice and standardization
<b>JOB OUTPUT</b>	<u>FPT Technical Specification, published on a web site</u>	<u>Machine and production line certification</u>	<u>Vendors List and Project Books, published on a web site</u>

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## Execution activities

### ❑ CONTINUOUS IMPROVEMENT (Specifications updated on the base of experience and case study)

- Digital implementation
- Technical innovation
- Plant experience feed back collection

### ❑ BID ANALISYS (FPI.MEM028, Statement of Requirements Annex, inquiry document filled by suppliers)

- Definition of the Specifications list to be applied
- Delivery project input data check
- Contract and delivery contents check

### ❑ ACCEPTANCE OF MACHINERY EQUIPMENT

- Documentation approval
- Machine functionality test (at supplier and at plant)
- Technical support to plant

### ❑ WEB SITE MANAGEMENT ([fptindustrial.com](http://fptindustrial.com))

- Specification continuous upgrade
- Specification versioning management
- Supplier and user access management

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## Results

- ❑ Total Cost of Ownership (TCO) reduction;
- ❑ Plant Key Values safeguards:
  - Working capital reduction (spare part)
  - DOT (WCM pillars reinforcement as *AM, PM, EEM, SAFETY*)
  - Quality, Process and I3oT Data Collection;
- ❑ Common Guideline definition (compared to international norms and major supplier standard) for low costs implementation
- ❑ International Norms (ISO, IEC, EN, etc.) and Regulations in Force alignment in the different countries in which FPT operate;

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## Technical Specification Structure

