

# Engineered Sustainability®:

## the Fives eco-design approach

### 1. Purpose of the approach

Fives has set itself the goal of offering solutions that deliver the best-possible sector-specific performance in terms of energy and environmental efficiency.

It is to achieve this goal that the Group has introduced the Engineered Sustainability® program, which is simultaneously:

- An internal company innovation process ;
- A brand for premium products in terms of environmental performance.

The Engineered Sustainability® program:

- Defines a method designed to assess and optimize the environmental impact of Fives products ;
- Guarantees the substantial nature and transparency of the benefits delivered by the Engineered Sustainability® brand ;
- Integrates these processes into a company-wide continuous improvement program.

### 2. Key points

- The Engineered Sustainability® brand ensures that:
  - The environmental footprint of the product is quantified and has been minimized ;
  - The product benefits are clearly stated, and have been compared with those of alternative technologies, where these exist ;
  - The customer has the ability to achieve the best environmental performance levels under operational conditions as a result of the solutions (operations support resources, advanced control systems, etc.) and support offered by Fives ;
  - An internal committee has approved this design as delivering the best-possible balance between economic and environmental considerations.
- The eligibility of an Engineered Sustainability® branded product is reviewed every 3 years.
- Fives Group companies joining this voluntary approach have a long-term commitment to it: application of the program to all strategic products, staff training.
- The approach and its governance comply with the ISO 14062 eco-design standard and are covered by a certificate of insurance issued by Ernst & Young in October 2013.

### 3. Fives Commitments

The Engineered Sustainability® process is described in an internal charter whose key points are summarized below:

#### Product brand award criteria

Engineered Sustainability® is a structural innovation process that can be applied to all Fives Group products, whether as part of upgrading an existing product or designing a new product.

The process comprises the following stages:

- A quantitative assessment of product environmental impacts is conducted by comparing the Fives solution with alternative technologies.
- This multi-criteria assessment (climate change, human health, the environment, water resources, etc.) covers the entire product life cycle, and is complemented by a qualitative assessment of impacts such as noise, size and operator comfort.
- Brainstorming sessions are used to identify solutions for enhancing product performance. The design team then evaluates these solutions and selects those that are both technically realistic and economically viable. The transfer of impacts (where improving one impact compromises another) must be avoided. The adoption of solutions and any compromises involved in doing so must be explained and justified. A Research and Development program is prepared to implement the solutions adopted.
- Appropriate resources (control systems, training programs, audits.) are implemented to provide customers with the assurance that optimum performance is achievable under operating circumstances, and to enable them to monitor their environmental performance.
- Product risk is assessed over its full life cycle. The target safety level is not related to the country in which the machine will be used.

### **Company long-term commitment**

Fives Group companies adopting the Engineered Sustainability® approach implement a rigorous continuous improvement process, as part of which they give a commitment to:

- Review the environmental impacts of all their key products
- Apply the Engineered Sustainability® approach in full for all new key products
- Provide eco-design training for their technical and sales staff

### **Governance of the approach**

The Fives Group Innovation Department provides Fives Group companies with assistance and support in applying the Engineered Sustainability® approach to their products. The company appoints a multidisciplinary team of technicians and sales staff to take responsibility for applying the approach to each product covered.

The work of this team is submitted to an internal committee (whose members are the Company CEO and the Fives Group Innovation and Marketing Directors) who decide on whether or not to award the Engineered Sustainability® brand.

This is an iterative process: the work done must be updated every 3 years in light of technological evolution and changes in regulations.

### **Communication transparency commitment**

The Engineered Sustainability® brand is based on a 'self-declared environmental claim', and any use made of it for communication purposes must comply with the guidelines set out in the ISO 14020 and 14021 standards (Type II environmental labeling).

In accordance with the requirements set out in the standards, the gains and benefits claimed are calculated or measured in accordance with recognized and documented methods, whose source data and results may be obtained on request.