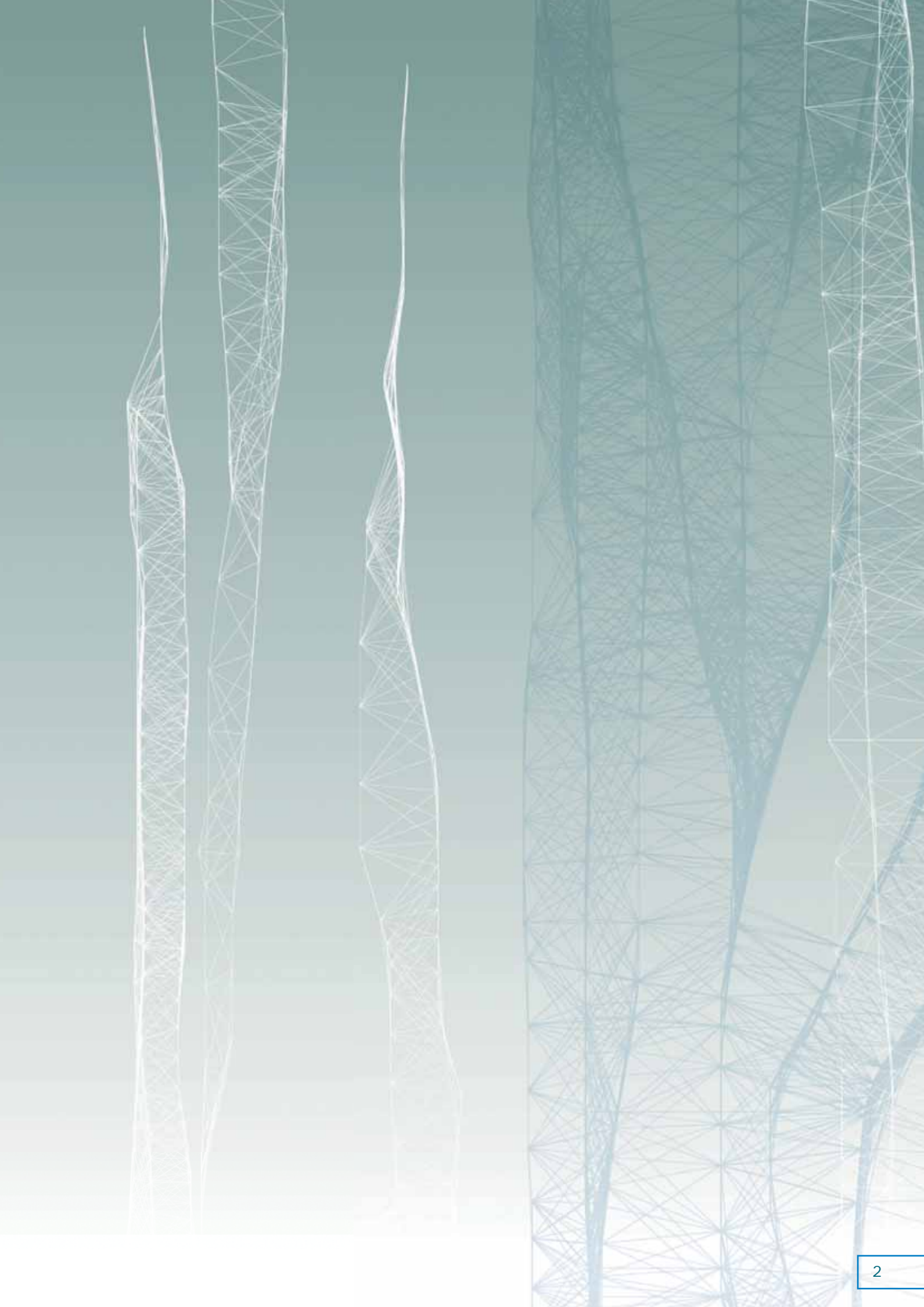


# FEM REPORT 2010 > 2012



European materials handling federation

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# President's message



**John Meale**  
President

**W**hen I took over from Philippe Frantz, I set myself 3 goals for my Presidency: enhancing FEM visibility both internally and externally, addressing the inefficiency of market surveillance and laying down the foundations of a stronger FEM.

Having been involved in FEM for many years, it has always struck me how little knowledge our manufacturers sometimes have about all the good work done by FEM and the benefit it generates. With the publication of our bi-monthly bulletin, our members now receive regular and concise updates on FEM activities and other issues of interest to their businesses.

As the voice of the European materials handling, lifting and storage industry, it is also legitimate that we are seen as the main source of information on the state of our business. The publication of yearly statistics on production value and external trade of materials handling equipment also fulfils this aim. Based on Eurostat data, the figures could be refined for one or other products but the trends they reveal are indisputable. These statistics have certainly increased the appreciation of the FEM voice, particularly towards our colleagues and the specialised press.

## *"FEM has engaged in a battle against ineffective market surveillance"*

As you all know, market surveillance is an issue close to my heart. As an active entrepreneur I know only too well the technical and financial efforts required to meet regulatory requirements. The least I can expect in return is sufficient trust that our market surveillance authorities protect our company, our employees and users against non-compliant equipment. Unfortunately, our business experience provides too many examples to the contrary.

This is the reason why FEM has engaged in a battle against ineffective market surveillance. We have shown our willingness to help (e.g. industry support platform, FEM compliance brochures), we have raised awareness (via the conference on market surveillance and machinery, communication campaign) and we have started intensive lobby actions. It is going to be a long journey but we cannot remain inactive. I invite you to seize every opportunity to raise the issue with your local, national and European politicians.

## *"laying down the foundations of a stronger FEM"*

These various initiatives contributed to increasing the membership value and were carried out without additional contribution from our members. Mindful of the fact that the further development of such a value was not achievable within the current budget, the FEM Board submitted a Development Strategy aimed at providing FEM with the necessary means to efficiently continue to defend and promote our industry.

I am extremely proud of the unanimous support we received, which gives evidence of the value of our work to our manufacturers. I feel confident that FEM is now equipped for the challenges our industry faces.

# Secretary

## General's Message



**Olivier Janin**  
Secretary General

Since we met the European Commission's Vice-President in the summer of 2010, market surveillance has no doubt dominated our agenda. Together with fellow machinery sectors, FEM worked on a conference on market surveillance and machinery, which took place in November 2011 and where our industry featured prominently. At the same time FEM co-organised a communication campaign to raise awareness of the challenges of an efficient market surveillance system for machinery. Finally, FEM co-launched an industry support platform acting as a resource database to assist authorities and market operators in checking compliance. The database has been populated with several compliance brochures compiled by various Product Groups and translated into different languages. This initiative was important to show that our industry is ready to help. Now that the European Commission is preparing a new market surveillance package, FEM has engaged in a thorough lobbying exercise undertaken jointly with other machinery sectors. Such an active involvement is necessary to ensure that our industry remains in focus on such a general issue.

### *Competitiveness*

The study on competitiveness of the EU mechanical industry provided an excellent opportunity to further communicate on our challenges. As one of the sectors in focus, the materials handling industry has been able to demonstrate its substantial contribution to employment and economic growth. Whereas EU legislation tends to convey wrong impressions (i.e. legislator intervenes because the industry is not good enough), there is an identified need to show and showcase how our industry, thanks to its technological innovation and excellence, plays a crucial role in ensuring the efficiency of manufacturing and distribution processes, and more generally European welfare.

### *Energy efficiency*

In this energy efficiency is a critical aspect of our future. Technical work is ongoing within several Product Groups, notably thanks to the excellent input and cooperation provided by our German federation VDMA. Ecodesign Lot 30 on electric motors started in early 2012 and FEM pulled together at both central and Product Group levels. Although our equipment will not be directly targeted by Ecodesign in the short term, our industry must be prepared but also show the positive contribution it provides on energy gains in manufacturing and distribution.

### *FEM image*

Finally, we continued to develop the FEM image. In this respect, CeMAT 2011 proved very successful and we are proud to promote such an event, both in Europe and worldwide. Since most of our manufacturers are indeed active internationally, we investigated the possibility of enhancing cooperation with our counterparts throughout the globe. FEM has thus been working on a World Alliance together with Japan, the U.S. and China. The initiative will allow for exchange of statistical and regulatory information, fostering exchange among the main players on the world market.

The adoption of the Development Strategy will also make it possible for FEM to efficiently address the upcoming regulatory challenges (market surveillance, revision of the NRMM Directive, possible merger of the Machinery and Outdoor Noise Directives) whilst continuing to promote FEM at European and international levels.



# Legislative Task Forces



**Cosette Dussaugey**  
Chairperson TFs Noise  
& EU Directives

## 1- Organisation

The FEM Task Forces on regulations are horizontal to all PGs. They define FEM positions and prepare lobbying actions towards the European institutions. Participation is open to all individual PG members. Information is distributed to the PG Secretariats who circulate it to all PG members.

## 2- Scope

6 topics are being addressed :

- > Safety of machines
- > Outdoor noise
- > Exhaust emissions of non-road mobile machinery
- > WEEE and RoHS
- > Ecodesign Lot 30 on electric motors
- > Market Surveillance (technical support)

## 3- Main actions during the last two years and key points for the future

### 3.1- Machinery Directive

After the publication of the European Commission's guidelines on the Machinery Directive, the Task Force has mainly done some follow-up on specific issues with the Orgalime Machinery Core Group and the European Commission's Machinery Working Group. This work has mainly consisted of responding to questions and requests for clarification, and gathering input for a future revision of the Commission's guidelines.

As the Machinery Working Group has launched discussions on a possible merger of the Machinery Directive and the Outdoor Noise Directive, the Task Force is analysing the pros and cons of such a possibility and preparing a position for the whole of FEM.

#### KEY points for the future

- > Address outstanding issues for FEM members in the upcoming 3rd edition of the European Commission guidelines
- > Defend an industry position on a merger of the Machinery and Outdoor Noise Directives

### 3.2- Outdoor Noise Directive

The European Commission envisaged the possibility of making the Outdoor Noise Directive a New Approach Directive instead of a Global Approach Directive. To this end, the Commission convened a stakeholder meeting to discuss a mandate to be given to the European Committee for Standardisation, CEN. However, this possibility did not materialise.

Meanwhile, the revision of the Directive recorded no progress and no official proposal has yet been made. In early 2012, the Commission announced it was considering a merger with the Machinery Directive.

#### KEY points for the future

- > Defend an industry position on a merger of the Machinery and Outdoor Noise Directives

### 3.3- Non-Road Engine Exhaust Emissions

The Task Force was busy with two important issues: the modification of the flexibility scheme and the preparation of a revision of the NRMM Directive.

In July 2010, the European Commission issued a proposal amending the provisions for engines placed on the market under the flexibility scheme. The proposal was meant to increase flexibility provisions from 20% to 50%, thus attempting to help industry cope better with the economic effects of the crisis. FEM was very active during the legislative process, both on its own and in collaboration with CECE. We met key Members of the European Parliament and issued positions, voting recommendations and proposals for amendments. However, early opposition from the rapporteur, the Socialists and the Greens, coupled with indecision from the Liberals and a lack of consensus within the European People's Party, made the final result uncertain. Despite support from the Council and the European Commission, a compromise was adopted in the autumn of 2011, increasing flexibility from 20% to 37.5% and the fixed quantity by a factor of 2.5. Directive 2011/88 entered into force on 13th December 2011 and will have to be transposed in national laws by 24th November 2012.

Meanwhile, the preparation of a revision of the Directive continued. An upcoming proposal, expected in the spring of 2013, should present the following features:

- > Introduction of small engines under 19kW
- > Introduction of a new stage for engines under 37kW
- > Modification of the flexibility scheme, in particular to avoid stockpiling
- > Introduction of a stage V
- > Introduction of in-service conformity

On the issue of flexibility, FEM issued a joint position with CECE, CEMA and EGMF asking that the flexibility scheme be maintained and suggesting initiatives that could simplify the Directive. As regards a stage V, FEM issued a joint position with CECE and CEMA requesting solid evidence on the real benefit of a new stage and asking for sufficient time between stages IV and V.

FEM undertakes its work within the European Commission GEME group, composed of Member States and industry representatives and in charge of preparing the revision of Directive 97/68/EC (amended by Directive 2002/88/EC, Directive 2004/26/EC and Directive 2006/105/EC). FEM has also resumed its activity in the industry task force formed by Euromot (engines), CEMA (agricultural machinery) and CECE (construction equipment).

#### KEY points for the future

- > Safeguard flexibility whilst agreeing on a deadline for placing on the market machines equipped with flexibility engines
- > Evaluate the various Commission proposals for the revision (listed above), to define an FEM proposal to be delivered to the Commission during the public hearing in the autumn.

### 3.4- WEEE and RoHS

Directive 2011/65 restricting the use of hazardous substances in electrical and electronic equipment (RoHS II) was adopted in 2011 with an open scope as its main feature. In addition, because of a new definition of electrical and electronic equipment ("EEE") "dependent" on electric current/electromagnetic fields, combustion engine driven machines fall within the Directive's scope if they include electrical/electric functions.

An impact assessment is being undertaken and, in parallel, the European Commission is drafting "Frequently Asked Questions". FEM is coordinating Product Group work on an argumentation to determine whether the various categories of materials handling equipment could fall within the exclusions foreseen by the Directive.

Directive 2002/96/EC promoting the collection and recycling of such equipment (WEEE) has also been amended. However, it has kept a closed scope until 2018 and it does not include a definition of "dependent" on electric current or electromagnetic fields.



#### KEY points for the future

- > Assess and argue on the presence of materials handling products in the exclusion list of the RoHS Directive
- > Prepare for an open scope of the WEEE Directive

#### 3.5- Ecodesign of Energy-related products

The European Commission adopted a second work plan under the Ecodesign of Energy-related Products Directive. The aim was to establish a list of priority products that would then be the object of specific studies (Lots) to set regulations to improve their energy efficiency level. FEM followed the process and explained how the materials handling market is structured. We also pointed out the environmental legislation that already applies to our products and highlighted that a system approach would be more appropriate for certain types of equipment, such as intralogistic systems. The final work plan did not include materials handling equipment, mainly because the Commission found it challenging to sub-divide it for Lot studies. Energy-related measures will however affect our products in the near future.

In early 2011 an Ecodesign Lot 30 study started on products in motor systems such as special purpose inverter duty motors (asynchronous servo motors). This Lot is likely to affect machinery in several materials handling product categories (industrial trucks, intralogistic systems, cranes & lifting equipment). The FEM Product Groups concerned nominated technical experts delegated by companies to follow the study. FEM has set up a Task Force in charge of bringing together these various experts and coordinating their contributions. The study will last two years, until the end of 2013.

#### KEY points for the future

- > Safeguard manufacturers' choice on motors
- > Prepare manufacturers for energy-related measures

#### 3.6- Market surveillance

Market surveillance has become the number one horizontal priority for FEM. Following a meeting with the European Commission Vice-President in charge of Enterprise and Industry, Mr. Tajani, FEM featured prominently at a conference on market surveillance and machinery in November 2011. Together with other machinery sectors, FEM also set up an industry support platform and conducted a communications campaign to raise awareness on the need for market surveillance for capital goods in general and machinery in particular. In parallel, two Product Groups issued guidelines aimed at helping identify non-compliant machines.

Since a revision of Directive 765/2008 and a communication on multi-annual market surveillance plans are due in the autumn of 2012, FEM has joined forces with CECE, CECIMO and CEMA to lobby in favour of the machinery sector. A joint position paper was issued together with an advocacy plan, and meetings with key decision-makers in the European Commission, European Parliament and Member States' Permanent Representations are ongoing. At FEM level, a dedicated Task Force was set up to coordinate the activities of the various Product Groups concerned.

#### KEY points for the future

- > Ensure controls at borders – first check point
- > Provide market surveillance authorities with sufficient capacity
- > Focus controls on priority areas to be selected with the industry
- > Give DG ENTR lead and financial capacity to coordinate market surveillance of industrial goods

# Conveyors

## for Bulk Handling



**Armin Weih**  
Secretary

### Scope

- > Wide range of different kinds of bulk handling conveyors, e.g. belt conveyors (curved, fixed, mobile), apron conveyors, screw conveyors, bucket elevators, vibrating conveyors, scraper and "en masse" conveyors
- > Storage equipment for bulk materials, e.g. stackers and reclaimers, silos, hoppers, bunkers, feeders
- > Ship loading and unloading systems
- > Loose bulk sorting equipment
- > Pneumatic handling equipment for bulk materials

### Members

The Product Group has been dormant during the report period. Thus the Group has no members for the time being.

### Work in progress

The Product Group has been dormant and only routine work has been performed, e.g. printing and distribution of existing FEM documents, or maintenance of the Product Group website.

The Product Group Conveyors for Bulk Handling used to monitor standards work for continuous conveyors undertaken in CEN Committee TC 148 and ISO Committee TC 101.

While ISO Committee 101 has only been active with regard to systematic reviews of standards for the last two years, CEN Committee 148 has initiated revisions to some standards e.g. EN 620:2001 – Safety and EMC requirements for fixed belt conveyors for bulk materials.

The Product Group would be ready to start activities very quickly if European manufacturers in the field of bulk handling conveyors showed interest in specific issues which should be dealt with on a European level. Maybe the additional requirements that are being discussed for the above mentioned revision to EN 620 could become such an issue.



# Cranes

## and Lifting Equipment



**Juha Erikilä**  
President

The Cranes and Lifting Equipment Product Group was founded at the FEM General Assembly in 2004, with Germany, Finland, France, Italy, Spain and Switzerland as founding members. The Group was an amalgamation of the former Section I (Heavy Lifting and Handling Equipment), Section V (Mobile Cranes) and Section IX (Series Lifting Equipment). FEM Sections I, V and IX were among the first members of FEM when it was founded in 1953. The main intention was firstly to bring together those sectors of the industry with the same, strong interest in cranes and lifting equipment and secondly, to follow the restructuring process of European manufacturers over recent years. In 2010 this group welcomed Turkey as a new member.

The Group is the voice of the industry of tower and harbour cranes, lifting equipment (EOT), hoisting equipment and mobile cranes, including winches and hoists.



**Klaus Pokorny**  
Secretary

The key role of the Group is to draft and communicate industry positions. It represents the technical, economic and political interests of the industry. It strives for technical progress and improved safety at work (e.g. via CEN, ISO through the establishment of guidelines and FEM documents) and is a bridge-head between industry and authorities, formulating and communicating the industry's position on European and worldwide legislation.

Since the 2008 FEM Congress in Cannes, FEM PG CLE has changed the focus of this Product Group to the following mission:

- > Promoting FEM as an open technical platform to exchange information on safety and design standards worldwide
  - > Promoting the FEM label as a proof of high safety and quality
  - > Putting the environmental movement into the focus of the Product Group.
- The past two years show a good performance record.

The Group consists of three Sub-Groups: Lifting Equipment (EOT) & Hoisting Equipment, Tower & Harbour Cranes and Mobile Cranes.

**For the Lifting Equipment (EOT) & Hoisting Equipment sub-group,** with members from Germany, Finland, France, Italy, Spain, Switzerland and Turkey, the following main items are on the agenda.

- > Maintenance of the FEM document series following particular progress in CEN/TC 147 – Cranes – Safety and ISO/TC 96 – Cranes and EU legislation.
- > Following the work of CEN Workshop 25 – Lifting and load-bearing equipment for stages and other production areas within the entertainment industry in CEN and representing its point of view to this working group.
- > FEM 9.771 Light Cranes Systems; publication in March 2012 by FEM PG CLE EOT. This FEM document gives added value to the European Standards referring to cranes, runways and manipulators with focus on the special requirements and hazards of light crane systems.
- > Monitoring the work of CEN, IEC and ISO in the field of its products.
- > FEM PG CLE requests their own frequency to be used as wireless control of Cranes and Lifting Equipment. This will be a long-term task for FEM. The band/frequency should enable high data rate operation - besides control functions - also wireless sensor networks.
- > A Position Paper is being drafted regarding the WEEE Directive (Recast) and the RoHS Directive (Recast) with reference to particular chain hoists and winches.

### **The Tower & Harbour Cranes Sub-Group**

(members: Germany, France, Spain and Italy) has two sections.

The first section deals mainly with support for the development of CEN & ISO standards, especially EN 14430 Cranes - Tower Cranes. It also monitors the work of CEN/TC 147 WG 12 and ISO/TC 96 SC 7 with regard to the scope of products, and maintains a close liaison with the Committee for European Construction Equipment (CECE) to exchange ideas and pursue issues of common technical interest.

Since 2010, FEM and CECE have continued to work together on questions of mutual interest. The following publications were produced jointly:

- > 27 March 2012 : a guide providing recommendations and key information on safety for users of tower cranes. It provides information on how to easily distinguish between a safe and an unsafe tower crane with reference to its design, manufacturing and maintenance.
- > 1 September 2011 : a guide for identification of non-compliant tower cranes.

The second section is a specialist calculation group working on EN 14439 "Cranes – Tower cranes". At the end of 2011, the section achieved its goal of preparing and submitting a proposal to CEN/TC 147 WG 12 for the revision of EN 14439:2010 on the basis of the EN 13001 standard.

### **The Sub-Group Mobile Cranes**

(members: Germany, France, Spain, Italy and Turkey) has two sections and four Task Force Groups. The first section deals with technical aspects, for example FEM work on the Machinery Directive 2006/42/EC. The group monitored and provided expertise for work on the Temporary "Work at Height" Directive 2001/45/EC, the Vibrations Directive 2002/44/EC, the Engine Exhaust Emissions Directive 97/68/EC, and the Outdoor Noise Directive (2004/14/EC).

The main topics for the group are as follows:

- > **Work at height:** FEM and ESTA established a working group to develop a guideline for provisions when working at height on mobile cranes (e.g. assembly / disassembly on site). This group includes representatives from all industry stakeholders (manufacturers, users, end users and HSE) and has worked for 2 years with several meetings. The result will be published as a FEM guideline and is expected in the autumn of 2012.
- > **Road Regulations:** FEM established a working Group to comment on the most recent developments in the field of the framework directive for road homologation including the introduction of several ECE directives substituting EC directives. This task force was successful and was able to establish/reinforce the status of the mobile crane as a special purpose vehicle. As such, the mobile crane will be exempted from requirements on lane assist systems and emergency braking systems; both systems are technically and commercially unfeasible for mobile cranes.
- > **European Regulations:** FEM and ESTA have established a working group "European Regulations" covering all aspects of cranes on roads and when working as a crane. This working group meets 2 – 3 times a year (often in parallel with ESTA congresses) and is seen as an effective platform for information exchange.
- > **Support for CEN/TC 147 WG 11:** the former FEM groups working on electronics and static calculation have been moved under the umbrella of CEN TC 147 WG as the so-called "Electronics" and "Static Calculation" groups to support CEN/TC 147 WG 11 directly.

### **Position Papers published:**

- > **N0284 Lifting of Persons with Mobile Cranes** – the position paper explains that mobile cranes are not intended to lift persons for entertainment purposes and gives guidance for the use of man baskets under specific conditions.
- > **N0308 Overload Testing** – the position paper explains that overload tests are necessary only before delivery and after major repair of load bearing components.



### **Activities Worldwide**

> **China:** FEM subgroup Mobile Cranes visited the Chinese association of crane manufacturers (MACB) and the Chinese Ministry for Environmental Protection. Discussions on the introduction of the Chinese GB4 diesel emission limits (similar to Euromot) were successful and the introduction was postponed for 18 months.

> **Switzerland:** FEM MC visited the Swiss BAFU (Environmental Protection Agency) to discuss issues with the current Swiss diesel emission regulation, in particular the additional limits on particle matter which are above the requirements of Euromot 3b. With these requirements additional diesel particulate filters would be necessary which is technically impossible (loss of Euromot certificate). The discussion led to a review of the Swiss law – the outcome is expected in 2012.

> **Lifting of persons:** FEM MC has worked with EITS (Events In The Sky - the owners of the brand "Dinner in the Sky") and ESTA to develop an explanatory note with regard to FEM position paper N 0284. The draft of the explanatory note will be published soon.

### **A broader platform for exchanging information:**

Members of FEM MC join the yearly worldwide liaison meeting with other organisations which has recently been re-named ICSCA (International Crane Stakeholder Assembly) together with AEM (US) and CEMA (Japan) to further promote information exchange between manufacturers, users and their organisations.

### **Outlook**

Among other things, the mutual interest of the three groups is to work on the following subjects:

> Preparing a Position Paper regarding the WEEE Directive (Recast) and the RoHS Directive (Recast).

> During the FEM Congress in Italy, the ECO Design Directive 2009/125/EC will be on the agenda. The material handling industry, and in particular Cranes and lifting Equipment, is committed to sustainable development and innovates by taking a lifecycle approach from conception to recycling/end of life of its products. Experts will discuss and explore ways to improve products, while maintaining their safety and performance, which plays an important role in the design.

At the moment 28 FEM documents (recommendations) are available and some are partly incorporated into or quoted in EN Standards, which means they are quasi harmonised documents. Three documents are still in preparation.

# Elevating Equipment



**John Meale**  
President



**Tim Faithfull**  
Secretary

The Elevating Equipment Product Group was formed at the 2004 Congress and has since met 2 or 3 times a year in various European cities, but most recently has used venues in London, UK. Some meetings are aligned with other FEM meetings, including the biennial Congress, for the convenience of members.

#### The Product Group has the following objectives:

- > Promoting and encouraging free communication, discussion and exchange of views between members and users of the products on all matters relating to the design, manufacture, supply and service of the products covered.
- > Promoting policy amongst the members and between FEM EE PG and any
- > Governmental and other bodies and associations directly or indirectly affecting the design, manufacture, supply and service of products covered.
- > Safeguarding the interests of the industry, particularly on economic, technical and legislation matters.
- > Encouraging technical progress and safety in the field of the products.
- > Harmonisation of legislation, standardisation and testing procedures at International and European levels to facilitate free trade.
- > Assisting and advising relevant authorities, at national and European level, on all matters concerning the products covered.

#### During the period 2010-2012, the Product Group work has included:

- > Discussions on proposed FEM guidance, or industry standard, for vehicle restraints.
- > Completion of an FEM guidance document: Safety on and around a Vehicle Loading Area (FEM 11.003).
- > Updating the separate FEM guidance documents on the Thorough Examination of Lift Tables (FEM 11.001) and Dock Levellers (FEM 11.002).
- > Promoting the benefits, to manufacturers and purchasers of equipment, of using the appropriate harmonised CEN standard.
- > Promoting the discussion of CEN standards, draft standards and proposed amendments between those manufacturers, from different EU member states, that are not directly involved in the standardisation activities.
- > Evaluation, discussion and input to FEM central on various EC Directives and initiatives discussed at FEM Task Force meetings.
- > Evaluation and discussion of other EC Directives and the documents produced in CEN and ISO.
- > Monitoring proposals for new national regulations which would restrict the free movement of equipment.
- > Trying to attract more FEM national associations into membership of the Product Group for the benefit of their manufacturing members and those already working in the PG.

#### The applicable CEN standards are:

EN 1570-1:2011	Safety requirements for Lifting Tables
EN 1398: 2009	Safety requirements for Dock Levellers
EN 1756-1: 2001	Platform lifts for mounting on wheeled vehicles – Safety requirements – Part 1: Tail Lifts for goods
EN 1756-2: 2004	Platform lifts for mounting on wheeled vehicles – Safety requirements – Part 2: Tail Lifts for passengers



# Industrial Trucks



**Klaus-Dieter Rosenbach**  
President

On the technical level the Product Group Industrial Trucks

- > Followed closely the development of the guideline for the new Machinery Directive, 2006/42/EC, contributing many comments as input for the Orgalime Core Group and reviewing the result of their contributions
- > Followed the developments in the revision of the Outdoor Noise Directive, 2000/14/EC and 2005/88/EC
- > Followed the developments of the WEEE and RoHS recast
- > Followed the developments for improved flexibility in application of the Non-Road Mobile Machinery Directive and supported the 50% flexibility approach
- > Reviewed and amended, where necessary, the existing FEM documents of PG IT
- > Released a new FEM document "Hour meter readings – terms and definitions for industrial trucks"
- > Moved forward with the work on FEM documents concerning foot protection for pedestrians
- > Released a set of brochures for easy identification of non-compliant industrial trucks
- > Had several meetings of the Sub-Committee Rough Terrain Trucks, covering specific challenges, legislation and standardisation of Rough Terrain Trucks



**Sascha Schmel**  
Outgoing Secretary

The Product Group is very much involved in the European (CEN) and worldwide (ISO) standardisation of safety requirements for all kinds of industrial trucks. Several FEM IT member companies represent their national standardisation institutions at CEN and/or ISO level.



**Heiko Boekhoff**  
Incoming Secretary

Regarding statistics work, besides maintaining the high quality statistics already in place, investigations on how to develop the statistics further were started. As a result, the reporting categories in the pedestrian-controlled sector were enhanced in order to better follow recent developments in product evolution.

Regarding the worldwide activities in Industrial Truck statistics, a WITS fact sheet was developed and released. Certain investigations to ensure data quality were performed at FEM and WITS level.

The efforts to ensure the accuracy of the data is an on-going task.

The 2010 ALLIANCE meeting was hosted by FEM during the FEM Congress in Istanbul.

The 2011 ALLIANCE meeting was hosted by ITA during their fall meeting. Mr. Bollini, President of the Product Group at this time, reported on market surveillance activities in Europe and appealed to all ALLIANCE members to focus on product safety.

Mr. Bollini furthermore spoke about the lack of market surveillance and the growing number of non-compliant industrial trucks on the EU market during the market surveillance conference of the EU Commission.

The Product Group welcomed Mr. Rosenbach/Jungheinrich/D as its new President for the period 2012/2013.

# Intralogistic Systems



**Jan van der Velden**  
President

The Intralogistic Systems Product Group was founded in October 2006. Chaired by Mr. Jan van der Velden, it is a horizontal group which addresses single materials handling products and complete turnkey systems. It focuses on automation, control and IT, and integration of several types of materials handling equipment into one system. The Product Group is open to system integrators and suppliers of complete systems (companies signing turnkey contracts). The Group also works with FEM manufacturers of individual materials handling products on interfaces between their equipment and complete systems.

## Technical work

Our Product Group is currently collaborating with its colleagues from Product Group Racking & Shelving to create new FEM "interface" documents.

- a) Revision of FEM 9.831 "Calculation principles of storage and retrieval machines – Tolerances, deformations and clearances in the high-bay warehouse" Creation of Part 1: General, single and double deep pallet racking (publication planned for September 2012)
- b) Creation of FEM 9.841 "Rail dependent storage systems - Interfaces" (published March 2012)
- c) Creation of FEM 9.842/10.2.11 "Rail dependent storage and retrieval systems - Consideration of kinetic energy action due to a faulty operation in compliance with EN 528"



**Johannes Rehner**  
Technical Secretary

In February 2010 it was decided that a new FEM document will be developed. This new document will be named FEM 9.842/10.2.11. The following content and structure of the new FEM document has been proposed: Description of a system-compatible implementation of kinetic energies, from EN 528 to manageable quasi-static forces, to be considered in the rack design. The basis is generally accepted rules of technology and – if possible – the results of the research project "Dynamic Rack loads" by TU-München. At a meeting held on 11 November 2010, the working group decided to split the document into Part 1 and Part 2. (Publication of Part 1 is planned for September 2012.)



**Olivier Janin**  
General Secretary

In total the Product Group has 14 documents available.

## Statistics

The development and implementation of statistics, based on figures which come from members of the Product Group, is the main part of the Group's activities. Members can take part in two FEM statistical exercises.

- a) FEM Statistics OIIS "Order Intake Intralogistic Systems"

13 companies contribute to these yearly statistics, which started in 2006. It is not the place of production but the place of installation of the Intralogistic Systems that is taken into account.

- b) FEM Statistics S/R Machines

17 companies contribute to these quarterly statistics, which started in 1997. As with OIIS, the place of installation is taken into account.

In 2008 the product sector "Shuttle systems" was added to the statistics, with a division into number of aisles and number of shuttles. In 2009, the reporting table was split into "Shuttles for pallets" and "Shuttles for boxes".

In 2010 the Board decided to publish a new factsheet, available on the FEM website, in order to provide general information on the economic situation of the branch. The Factsheet will be illustrated with indexed figures from OIIS and S/R Machines statistics. In 2010, the total number of projects thus reached more than 320, ranging from €0.5 million to €20 million.

## Energy Efficiency

The Product Group is involved in a project aimed at finding a common methodology to measure the energy performance of intralogistic systems, as well as potential for savings. In addition, a specific Task Force of companies' technical experts was set up to follow the development of Ecodesign Lot 30 on electric motors. The Lot study will last until March 2014.



# Mobile

## Elevating Work Platforms



**Alan McIntyre**  
President



**Giles Councill**  
Secretary

The MEWPs Product Group covers all types of Mobile Elevating Work Platforms, including mobile and static vertical and boom type lifts.

**During the period 2010-2012 the Product Group work has included:**

- > The development of a guide for identification of non-compliant MEWPs. The Product Group has issued guidelines to assess compliance of MEWPs with requirements covering engine exhaust emissions, diesel engine compliance, noise emissions and warning & marking. The document will be reviewed as an ongoing exercise.
- > Active participation in CEN/TC98/ WG1 that is concerned with the revision of the EN280 standard. This standard covers the design examination and testing of MEWPs. Topics include deck extensions on scissor lifts, emergency lowering overload cut-out, chassis tilt, folding guard rails, work restraint anchorages, manual leveling of platforms, drop bars, and scissor mechanism guarding requirements. The overriding theme through these discussions is how the draft requirements could be implemented on all MEWP types and the safety improvements that result from them on different product ranges.
- > Monitoring activities with regard to possible changes to the Outdoor Noise Directive 2000/14/EC and the NRMM Directive 97/68/EC.
- > Market Statistics exchange. The Product Group has invited manufacturers to become part of a Market Statistics exchange and has received positive feedback. Communication has taken place with all of the major players within the industry who have shown initial interest in taking part. Work is ongoing to enable this to move forward.

**Other activities of the Product Group include:**

- > Preventative Maintenance programme \ guidelines
- > Use of Harnesses in MEWPs
- > Guidance on the use of older machines
- > Anti entrapment devices
- > Study into MEWP control functions

The applicable CEN and ISO standards are:

EN 280:2001 Mobile elevating work platforms. Design calculations. Stability criteria. Construction. Safety. Examinations and tests  
ISO 16368:2003 Mobile elevating work platforms. Design calculations, safety requirements and test methods  
ISO/DIS 18893. Mobile elevating work platforms. Safety requirements, inspection, maintenance and operation  
ISO 18878:2004 Mobile elevating work platforms. Operator (driver) training

# Racking & Shelving



**Tony Gresham Jones**  
President



**Brian Huxley**  
Secretary

The Product Group met in plenary session in Istanbul in 2010, Barcelona in 2011 and will meet in Stresa in 2012. Product Group Officers met in Vicenza and Brussels in 2010, the Netherlands in 2011 and Bournemouth in 2012. The Technical Committee and various Working Groups have met in many locations throughout Europe over the past two years. Additionally the Product Group President and Secretary General are Board members of FEM itself and have participated in FEM Board and Executive Committee meetings over the past two years.

A major part of Product Group activity over previous years was associated with the work of the CEN Committee for the industry, namely CEN TC344 "Steel Static Storage Systems". The Product Group provides the Chairmanship of both the TC and its various working groups. There have been many CEN meetings, which culminated in the following Steel Static Storage Systems Standards being published:

- > EN 15512 Adjustable pallet racking systems – principles for structural design
- > EN 15620 Tolerances, deformations and clearances
- > EN15629 The specification of storage equipment
- > EN16535 The application and maintenance of storage systems
- > EN 15878 Terms and Descriptions of storage systems

A new CENTC344 Working Group was established in 2011 to develop a CEN Standard for Design of Racking in Seismic Conditions. Further new CEN TC 344 Working Groups will be commenced in 2012/13.

Liaison and meetings with other Product Groups of FEM have been maintained particularly in regard to racking structure interfaces with industrial trucks, and intralogistics systems. Indeed joint FEM documents on Crane Racking Interfaces and also Safety Backstops were published in 2012.

Product Group working groups developing FEM guidance documents for Drive-in Racking, Cantilever Racking, Shelving, an EN 15512 Racking Design Code Worked Example, continued with many meetings taking place during the period.

Several Workshops were held to consider testing regimes in accordance with the EN 15512 Racking Design Standard with member companies, relevant test houses and universities in attendance. It is hoped a finalised Guidance document in regard to testing will be published in 2012.

A Product Group website [www.erfed.org](http://www.erfed.org) was designed and published in 2011 and Product Group documents can be purchased from the website, which also has free information bulletins and full details of our Members.

At the Plenary meeting in Barcelona in October 2011 it had been learnt that from January 2013 there would be a requirement for racking manufacturers supplying the German market to comply with relatively old German Construction law and to have their testing regimes externally audited/approved in accordance with relevant CEN and FEM racking standards. Accordingly it had been agreed German and non-German manufacturers/test houses supplying the German market should approach the German Building Authority (DIBt) to seek approval from DIBt of their testing regimes. The Product Group continues to monitor this developing situation and to assist its members as appropriate.

The Product Group now has fourteen Members and two Associate members and it is pleasing that a new Polish Association has been formed and that it will be seeking Product Group membership in 2012.

Finally any company not currently active in the work of the Product Group or indeed FEM itself is invited to make contact to ensure they are involved in the latest industry technological developments.



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