

# FEM REPORT

## 2008>2010



european materials handling federation

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## Foreword by FEM President



**Philippe Frantz**  
President

I took the Presidency of FEM in September 2008 in Cannes during a period of steady growth for our sector. Only a few weeks later, the financial crisis hit and was followed with a historical economic downturn with unprecedented effects on our industry. This exceptional situation led FEM to shift its priorities: whereas some of our branches were facing drops in order intakes of more than 50%, FEM felt the need to ensure that its companies' difficulties were addressed to European decision-makers.

The designation of a new European Commissioner for Enterprise provided an excellent opportunity. In a few months time, FEM managed to put together a comprehensive Policy Paper setting out the midterm vision and challenges of the European materials handling community, insisting on crucial issues such as market surveillance or standardisation. The document came together with an illustrated brochure on our industry and a simple presentation of FEM with the aim of increasing our association's visibility. I hereby would like to thank all the FEM members, product groups and task forces, who actively participated in developing such a complete paper in a record time. FEM is now in contact with the European Commission for the follow-up. An event on market surveillance is thus planned next year.

On the regulatory side, the Machinery Directive came into force at the end of 2009. Six months later, the entire set of accompanying guidelines on the Directive's application was published. FEM has spent considerable time and efforts in the drafting process of these guidelines and I am proud to say that thanks to a positive cooperation with the European Commission and our fellow sectors most of our requests were successfully addressed, resulting in millions of Euros of savings on compliance costs for our companies. This is a tangible demonstration of FEM value to its companies. FEM is now fighting to make sure that everybody plays the game. Meanwhile, work of our task forces continues on exhaust emissions from non-road mobile machinery and outdoor noise.

FEM has also wished to develop the features offered by the window of our association: its website. The latter has thus been enriched with a RSS feed to facilitate access to information, a news dashboard to serve as a one-stop-shop for materials handling news and the possibility for active companies to post their logo on relevant product group pages. We are also generating revenue through advertisement and I encourage every interested company to seize this opportunity.

After successful past experiences, FEM and CeMAT have wished to reinforce their cooperation with the signature of a global agreement covering all CeMAT exhibitions worldwide. With this agreement, FEM will deepen its involvement in CeMAT Hannover, whilst increasing its presence at international level through CeMAT events in Asia, India, South America and Russia. This should also enable FEM to develop its collaboration with its regional counterparts.

Finally, despite a turbulent period for our companies and their national associations, FEM welcomed two new members: Dexion, a Romanian company active in the racking & shelving branch and ECMA, the European association of castors and wheels manufacturers. This demonstrates the growing interest that our federation generates.

I started as the President of economic growth. I then went through a historical downturn and will now finish my mandate in a period of recovery. This eventful Presidency has confirmed my idea that a strong FEM is more than ever necessary to set the technical standards and defend the interests of the European materials handling industry. I am convinced my successor will continue on this path and work towards the development of FEM, with the active support of its members and product groups.

## Message from the Secretary General



**Olivier Janin**  
Secretary General

I started as FEM Secretary General in January 2009 with the task of implementing the strategy defined in 2008 in Cannes. My work programme revolved around 3 main priorities.

### **Coordination FEM Central – National Committees / Product Groups**

new to the materials handling world, I spent the first few months talking to FEM structures in order to better understand the characteristics inherent to each FEM branch. A visit to VDMA in Frankfurt last year proved very useful in this respect. In addition, FEM adopted guidelines on access to documents in order to provide Product Groups with a uniform tool to make a choice on the availability of their technical recommendations. Finally, a “Product group news” section was created on FEM website in order to use the latter as an interface for the diffusion of Product group information.

### **FEM Policy Paper**

the development of a FEM Policy Paper was the highlight of the past year. The Secretariat played a pivotal role in coordinating input from the entire FEM family (National Committees, Product Groups and Task Forces), whilst working on the external visibility of our association through an illustrated brochure. With this Policy Paper, FEM has equipped itself with a basis for its regulatory activities in the next 5 years. In July 2010, the paper was officially presented to the European Commission’s Vice-President in charge of Enterprise and Industry, Mr. Tajani.

### **Website features and use**

after reshuffling FEM website in 2007, efforts were made to increase the latter’s attractiveness to members and external users. The setting-up of a RSS feed and a news dashboard, the possibility for active companies to post their logo on relevant Product Group’s page and more frequent updates have thus increased the website’s value as the main vector of information on FEM activities.

My colleague Stéphanie Uny continues to ensure the professional coordination of the work of the Task Forces. Whether on Machinery or Outdoor Noise, Task Force leaders Cosette Dussaugey and Gil Male have made tremendous efforts in defending our sector’s interests. This work has proven successful, in particular on the Machinery Directive’s guidelines, which have largely taken into account FEM requests. Work on Outdoor Noise will become more prominent in the coming months after the European Commission has published its proposal for a revision.

The Secretariat has already started working on the next CeMAT Hannover exhibition in 2011. On top of the traditional participation, promotion and CEO breakfast, FEM is working on a legislative workshop and an “international associations’ happy hour cocktail” under the joint auspices of FEM and MHIA. Our Product Groups will also be fully part of FEM participation by holding internal meetings at the exhibition. FEM and CeMAT are also deepening their collaboration and enlarging it to other CeMAT events worldwide.

Now more familiar with the industry, FEM structure and people, I intend to pursue my work at the same pace, focussing on the follow-up of the Policy Paper, the development of FEM on the European and international scenes and its growth by attracting new members. The European materials handling industry represents one of the largest sectors within mechanical engineering. It therefore deserves a strong, well-established and influential voice.

## 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

The Task forces deal with various directives:

- Safety of machines (active)
- Outdoor noise (active)
- Non road engine exhaust emissions (follow-up)
- WEEE and RoHS (follow-up)



**Gil Male**  
Chairman TF Machinery

### 3- Main actions during the 2 last years and key points for the future

#### 3.1- Machinery directive

FEM is represented in the Orgalime Machinery Core Group. This group provides FEM with an industry platform that allows all concerned national association and sector experts to prepare and lobby comments on issues of importance under the Directive. Through this group FEM has contributed substantially to the European Commission draft guidelines on Directive 2006/42/EC.

In the past 2 years, the FEM Machinery task force and its members have been very active in commenting on the draft guidelines and raising issues that are of concern to their industries. In conjunction with others, FEM has worked on the following issues that are particularly important to its members:

- Fixed guards and their attachment methods
- Overload testing of lifting machinery
- Lifting chains and their marking requirements
- Placing on the market and modification of machinery
- Status of harmonised and other standards
- With support from others in the Orgalime Machinery Core Group, FEM succeeded in influencing Member States' opinions and the decisions of the European Commission over the advice that needed to be given in the guidelines on these and other important issues.

Today, the Guide to the application of Directive 2006/42/EC (2nd Edition - June 2010) is completed, and the FEM Machinery TF will continue its work by focusing on the implementation of the new Directive and the problems which its companies face in practice. FEM is monitoring the situation and is likely to be involved in further European Commission guidance on partly completed machines and safety components.

FEM is represented in the European Commission Machinery Working Group. FEM needs to continuously monitor developments in this working group and provide input on issues that the Member States may bring to the table and which directly affect FEM members. Experience shows that FEM input regularly contributes to a better understanding of issues raised, the implications of the Directive for FEM members and, in turn, decisions on how the Directive should be interpreted and implemented in practice.

#### KEY points for the future

- Closely follow implementation of the directive and communicate and exchange opinions on issues raised, experiences and problems
- Maintain a permanent representation and influence towards the Commission, the Member States and Orgalime
- Identify outstanding issues for FEM members that have not been fully addressed in the 2<sup>nd</sup> edition of the European Commission guidelines and lobby for changes to the 3<sup>rd</sup> edition when it is published

### 3.2- Outdoor noise directive

FEM has answered questionnaires and commented on the 2 studies commissioned by the European Commission to prepare the Revision of Directive 2000/14/EC as modified by Directive 2005/88/EC:

The “Nomeval report” which analyses the feasibility of introducing new equipment in the Directive, and fixing or revising limits applicable to equipment already covered  
The Arcadis study, an impact assessment of the upcoming revision

FEM has also invited the SMEs in its membership to take part in the study dedicated to the particular difficulties which SMEs could face with a revised directive.

At the end of 2009 a first draft of the revised directive was circulated and many comments were made, notably by FEM, particularly on its adaptation to the New Legislative Framework.

FEM is a member of the technical advisory group (ex WG7) which gives guidance to the European Commission for the preparation of the revised directive. Some FEM proposals were taken into account by the technical advisory group, some were rejected. FEM also regularly met the European Commission in 2009 and 2010 to detail its position.

#### KEY points for the future

- Limit values for lift trucks above 10t, variable reach trucks and mobile elevating work platforms
- Introduction of limit values for lift trucks below 10t (request from The Netherlands)
- Introduction of portal cranes (request from The Netherlands)
- Continue its actions on the Commission Proposal (2nd draft revised text expected in the autumn of 2010) and prepare for lobbying the European Parliament and Council in 2011

### 3.3- Non road engine exhaust emissions

FEM is a member of 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 is not active in the industry task force formed by Euromot (engines), CEMA (agricultural machinery) and CECE (construction equipment), and which prepares common positions and lobbies the European Commission.

The most important issue for FEM members is the extension of so-called flexibility. A Commission proposal “to drive the non road mobile machinery sector out of the crisis” (COM (2010) 362), whose purpose is to extend flexibility and compensate for the effect of the economic crisis on the sector, was published in July 2010 and could be adopted within 6 to 12 months. European Parliament and Council discussions will need to be followed carefully.

#### KEY points for the future

- A complete revision of the directive is under discussion. The key points for FEM are the introduction of engines lower than 19 kW and the introduction of requirements to ensure correct operation of NOx control measures with restriction of machine operation (inducement).
- In-Service Conformity Preliminary study

### 3.4- WEEE and RoHS

The European Commission has published 2 proposals for the recast of Directive 2002/95/EC restricting the use of hazardous substances in electrical and electronic equipment (RoHS) and Directive 2002/96/EC promoting the collection and recycling of such equipment (WEEE).

Ongoing discussions in the European Parliament and Council are substantially modifying the original proposals, and in particular are widely extending the scope of both directives. FEM lobbied the European Parliament in first reading to obtain the exclusion of its products, but no guarantee can be given until the discussions are closed.

#### KEY points for the future

- Monitor the discussions on scope, focus and lobby on the exclusion of FEM products
- Analyse and warn on other issues potentially affecting directly or indirectly the sector (e.g. monitoring and control equipment will now be covered by RoHS).

## 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 product 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 not been active for the last two years, the standards of CEN Committee 148 had to be adapted to the New Machinery Directive 2006/42/EC.

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.

## Cranes and Lifting Equipment



**Otmar Buhmann**  
President



**Klaus Pokorny**  
Secretary

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, IX were among the first members of FEM since 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.

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 bridgehead between industry and authorities, formulating and communicating the industry's position on European and worldwide legislation.

The FEM Congress 2008, Cannes, changed the focus of this Product Group to the following mission:

- Promoting FEM as an open technical platform to exchange on safety and design standards worldwide.
- Promoting the FEM label as a proof for high safety and quality.
- Putting the environmental movement into the focus of the Product Group.

The Group was a constructive partner in the drafting of the FEM Policy Paper 2009-2014 of FEM and has been working closely with FEM and also assisting the European Commission in creating guidelines according to the Machinery Directive.

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 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.
- Maintenance of FEM 9.758:08.2004, hand-operated and power-driven hoists for special purposes to be adopted to the current state of the art.
- Under development is a new FEM Document for Jib Cranes - European Light Cranes, which will be published shortly.
- Under focus is ESTA (Entertainment Service & Technology Association), North America, who are developing a new standard not taking under consideration the “European way” of risk analysis. Consequently, this is an example of protectionism, which now needs to be addressed.
- Monitoring the work of CEN, IEC and ISO in the field of its products.

### 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 regards to the scope of products, and maintains a close liaison with the Committee for European Construction Equipment (CECE) to exchange ideas and pursue common technical and economic goals. The second section is a specialist calculation group working on EN 14439 "Cranes – Tower cranes". The goal of this section is to prepare a proposal for the revision of EN 14439:2010 on the basis of EN 13001 standards which was published in September 2009.

### The Sub-Group Mobile Cranes

(members: Germany, France, Spain, Italy and Turkey) has two sections and nine 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 gave expertise to the work on the temporary "Work at Height" Directive 2001/45/EC, Vibration Directive 2002/44/EC and Engine Exhaust Emission 97/68/EC, Road Safety, as well as Emission from non-road mobile machinery and Outdoor Noise Directive (2004/14/EC).

The main topics for the group are as follows:

- The annual International Cranes Technical Liaison Meeting, which FEM attends, allows an exchange of mutual points of technical interest, e.g. legislative developments in Europe, Japan and the U.S..
- Since September 2008 the Sub-Group has been inviting for the World Cranes Safety Congress, with the following associations joining: European Association of Heavy Haulage Transport (ESTA), Crane Safe Council of Australia (CICA), Specialized Carriers & Rigging Association, U.S. (SC&RA).

It is a permanent exchange platform regarding safety regulations representing the latest development in each country.

- FEM's strong support of the process finding a mutual agreement with European authorities on the standardisation process of EN 13000 Cranes – Mobile Cranes, leading to publication of EN 13000 in 2010.
- FEM is joining a dialogue with the Chinese Certification Centre to address the difficulty of import procedures to China and to develop a liberalisation of the market access.
- Furthermore, the Sub-Group established a Task Force group regarding the subject "Work at Height"; Legislation Directive 2001/45, and
- addressed the subject of re-import of mobile cranes into the European market to the Commission.

The second section of this Group deals with economic matters (e.g. worldwide mobile crane statistics compiled with counterpart associations in the U.S. and Japan).

At the moment 27 FEM documents (recommendations) are available and some are partly incorporated in EN Standards or quoted in EN Standards, which means they are quasi harmonized documents. Three documents are still under 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 cities such as Brussels, London, Berlin, Birmingham, Paris, Tampere and Cannes. Where possible, meetings are aligned with other FEM meetings, including the bi-annual 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 2008-2010, the Product Group work has included:

- 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.
- Updating the separate FEM guidance documents on the Periodic Inspection of lift tables and dock levellers.
- Evaluation, discussion and input to FEM General on guidance to the new Machinery Directive that became law in the 27 EU member states from 29 December 2009.
- 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.
- Preparation of an FEM guidance document: Safety on and around a Vehicle Loading Area.
- Input to the FEM Policy document.
- 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+A2:2009 | 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



**Ambrogio Bollini**  
President



**Sascha Schmel**  
Secretary

On the technical level the Product Group Industrial Trucks:

- followed closely to the development of the guideline for the new machinery directive, 2006/42/EC, placing a lot of comments as input for the Orgalime Core Group and reviewing the result of their contributions
- followed the developments of 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
- moved forward with the work on FEM documents concerning foot protection on pedestrian trucks and the floor requirements for VNA trucks
- introduced monthly telephone conference calls of the experts to keep themselves up to date about all topics
- had several meetings of the Sub-Committee Rough Terrain Trucks, covering specific challenges, legislation and standardisation of Rough Terrain Trucks

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. The delay of ISO 3691 and uncertainty arising from it, led to the request of the Management Committee towards the Committee "Technique" to develop a position paper on the issue which was released in time for the application of new machinery directive.

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 sector of pedestrian-controlled warehouse equipment are going to be enhanced in order to better follow recent developments in product evolution.

Regarding the world-wide activities in Industrial Truck statistics, the Product Group provided the Chairman of the World Industrial Truck Statistics (WITS) in 2009. Under this responsibility, certain investigations to ensure data quality were performed on FEM and WITS level. As the result, a mistake in the figures of a European market could be corrected after very good cooperation among all international associations involved.

The efforts to ensure the accuracy of the data is an ongoing task.

The 2009 ALLIANCE meeting was hosted by the new member of CITA, representing Chinese Industrial Truck Association, in Shanghai in parallel to CeMAT Asia 2009. The 2009 Presidents' Forum was held during the show.

As a major topic in the ALLIANCE Meeting, besides the technical matters with focus on ISO 3691, an approach to eliminate the existing tariffs for Industrial Trucks in the major markets was started.

The Product Group welcomed Dr. Ambrogio Bollini/Cesab/IT as new President for the period 2010/2011. Mr. David Rowell/Nacco/UK entered the office of 1st Vice President and Dr. Rosenbach/Jungheinrich/D was elected as 2nd Vice President.

## 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.



**Karl Rottnick**  
Technical Secretary

### Technical work in progress

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

- 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 October 2010)
- Creation of FEM 9.841 "Rail dependent storage systems - Interfaces" (publication planned for September 2010)
- 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" (publication planned for September 2010)

In total the Product group has 13 documents available.



**Olivier Janin**  
General Secretary

### Statistics of the PG

The development and implementation of statistics, based on figures which come from Members of the Product Group is the main part of the Product Group's activities. Members can take part in 2 FEM statistics.

- FEM Statistics OIIS "Order Intake Intralogistic Systems"

16 companies take part in 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.

- FEM Statistics S/R Machines

8 companies take part in these quarterly statistics, which started in 1997. As with OIIS, the place of installation is taken into account.

The statistics started on 1 January 1997 and are carried out quarterly. 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 2009, the total number of projects thus reached more than 257, ranging from €0.5 million to €20 million.

## Mobile Elevating Work Platforms



**Alan McIntyre**  
President



**Giles Councill**  
Secretary

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

**During the period of 2008-2010 the Product Group work has included:**

- Market Statistics exchange the Product Group has invited Manufacturers to become part of 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.
- Active Participation in CEN/TC98/ WG1 that is concerned in 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.
- The Product Group is also monitoring activities with regards to possible changes to the Outdoor Noise Directive 2000/14/EC and the NRMM Directive 97/68/EC. It is also working towards providing input to and comments on recently received drafts of Annexes III to XI of the Machinery Directive 3rd Amendment 2006/42/EC.
- Studying accidents occurring with MEWPs to determine their causal factors and make recommendations. The Group also saw a need to formulate statistics regarding not only accidents occurring with MEWPs but accidents involving work from height broken down into different categories.

**Other activities of the product group include:**

- Preventative Maintenance programme \ guidelines
- Use of Harnesses in MEWP's
- Scrapping of old machines
- Development of a formal position on operator training

**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



**Gresham Jones**  
President

The Product Group met in plenary session in Cannes in 2008, Birmingham (UK) in 2009 and will meet in Istanbul in 2010. Product Group Officers met in Birmingham in 2009 and Vicenza in 2010 and the Technical Committee and various Working Groups have met in various locations in 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 has been 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 have culminated in the following Steel Static Storage Systems Standards being published in 2009:

- 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



**Brian Huxley**  
Secretary

The Product Groups work on design considerations for racking under seismic conditions has continued in liaison with EU funded university research into the subject and also the Rack Manufacturers Institute of the USA. The results of this work will enable the Product Group to publish an amended version of its Seismic Design Guideline by the end of 2010.

A new CENTC344 Working Group will be established in 2011 to develop a CEN Standard for Design of Racking in Seismic Conditions.

Liaison with other Product Groups of FEM has been maintained particularly in regard to racking structure interfaces with industrial trucks, and intralogistics systems.

Product Group Work Items on FEM guidance documents for Drive-in Racking continues and the subject of quality in relation to storage equipment will be considered at the plenary group meeting in 2010.

Workshops have been held in Trento and Barcelona 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 the intention of the Product Group to develop in 2010 appropriate PR material to promote its on-going work at both a CEN and FEM level and to particularly utilise the FEM website for this purpose. Already in 2010 the Product Group has published an information document explaining in simple terms the responsibilities of Users and Suppliers of Racking.

Product Group membership increased with the Turkish Association joining in 2009 and individual members from Romania and Russia joining in 2010.

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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## FEM NATIONAL COMMITTEES

### Belgium

#### AGORIA

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BE - 1030 BRUSSELS  
[www.agoria.be](http://www.agoria.be)

### Finland

#### The Federation of Finnish Technology Industries

PO Box 10  
FI - 00131 HELSINKI  
[www.teknologiateollisuus.fi](http://www.teknologiateollisuus.fi)

### France

#### CISMA

45 rue Louis Blanc  
FR - 92400 COURBEVOIE  
[www.cisma.fr](http://www.cisma.fr)

### Germany

#### VDMA

Fachverband Fördertechnik und Logistiksysteme  
Lyoner Strasse 18  
DE - 60528 FRANKFURT/MAIN  
[www.vdma.org/ilog](http://www.vdma.org/ilog)

### Italy

#### AISEM

Via Scarsellini 13  
IT - 20161 MILAN  
[www.aisem.it](http://www.aisem.it)

### Luxembourg

#### Industrie Luxembourgeoise de la Technologie du Métal

p.a. FEDIL  
7 rue Alcide de Gasperi  
BP 1304  
LU - 1013 LUXEMBOURG  
[www.fedil.lu](http://www.fedil.lu)

### The Netherlands

#### FME-CWM/GKT

Postbus 190  
NL - 2700 AD ZOETERMEER  
[www.fme.nl](http://www.fme.nl)

### Portugal

#### ANEMM

Estrada do Paço do Lumiar  
Pólo Tecnológico Lisboa Lote 13  
PT - 1600-485 LISBON  
[www.anemm.pt](http://www.anemm.pt)

### Spain

#### FEM-AEM

E.T.S.E.I.B  
Av. Diagonal 647 Planta Baja  
ES - 08028 BARCELONA  
[www.fem-aem.org](http://www.fem-aem.org)

### Sweden

#### TEKNIKFÖRETAGEN

Storgatan 5, PO Box 5510  
SE - 114 85 STOCKHOLM  
[www.teknikforetagen.se](http://www.teknikforetagen.se)

### Switzerland

#### SWISSMEM

Kirchenweg 4  
CH - 8008 ZÜRICH  
[www.swissmem.ch](http://www.swissmem.ch)

### Turkey

#### ISDER

Ataturk Cad. Esin Sok. No: 9/4  
PK.34742 Kozyatagi - Kadikoy  
TR - ISTANBUL  
[www.isder.org.tr](http://www.isder.org.tr)

### United Kingdom

#### BMHF

Airport House, Purley Way  
GB - CROYDON CR0 0XZ  
[www.bmhf.org.uk](http://www.bmhf.org.uk)

### Associate Members

#### PEMA

Port Equipment Manufacturers Association  
[www.pema.org](http://www.pema.org)

#### ECMA

European Castor and Wheel Manufacturers Association  
[www.e-cma.eu](http://www.e-cma.eu)

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EUROPEAN MATERIALS HANDLING FEDERATION  
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FEDERAZIONE EUROPEA DELLA MOVIMENTAZIONE  
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