

# 2008 ISTMA Statistical Year Book

On Tools, Dies and Moulds Industry  
International Trade and Manufacturing

ISTMA World  
International Special Tooling & Machining Association

2008 ISTMA Statistical Year Book

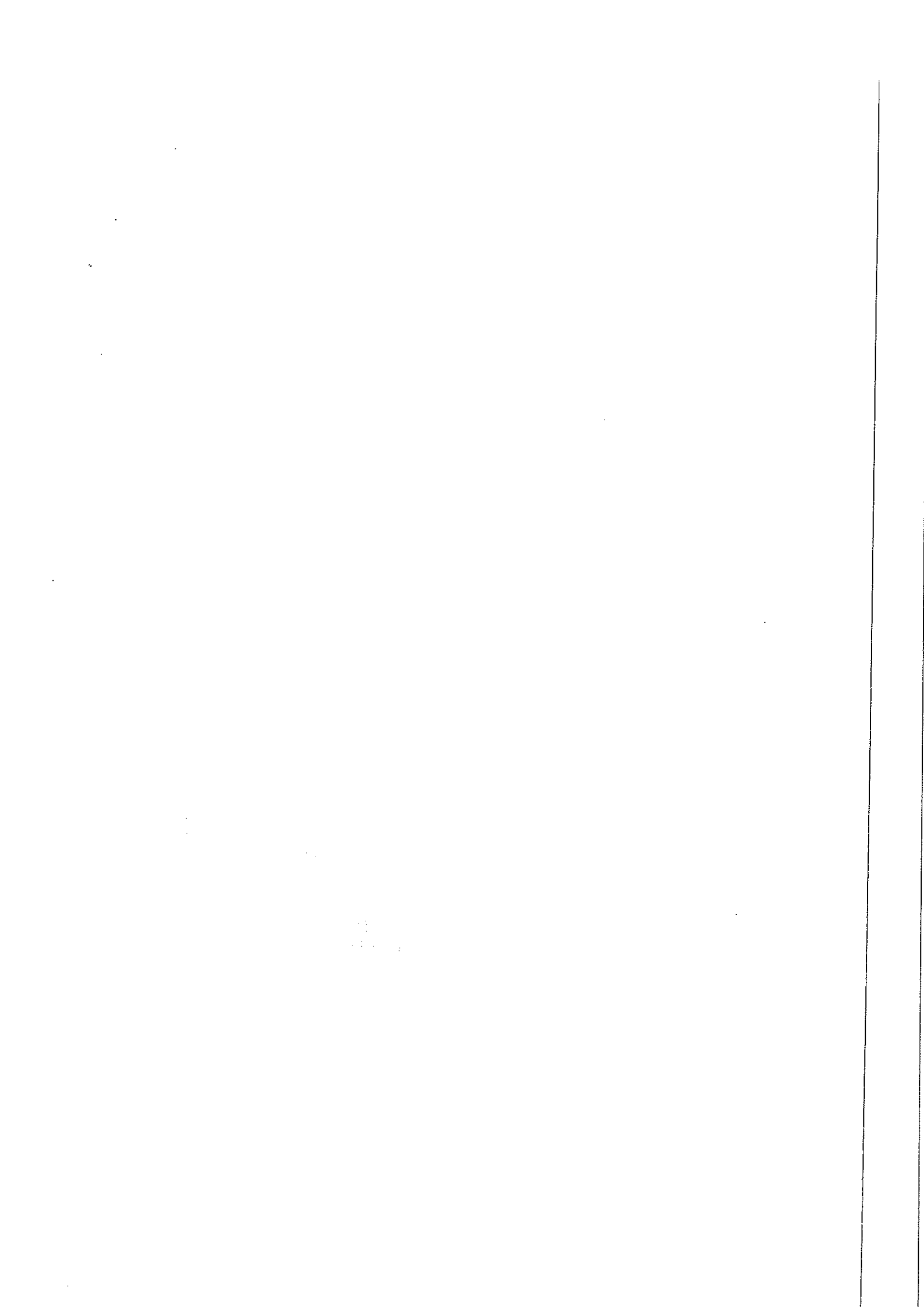
On Tools, Dies and Moulds Industry  
International Trade and Manufacturing

José Ferro Camacho, PhD  
BIID – Business Innovation & Industrial Dynamics  
Professor of Management at IADE, Lisbon  
with the collaboration of  
André Piedade, postgraduate student in Marketing

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## Preface

Considered as a key publication for our Industry and for everyone involved on it, the release of the STATISTICAL YEARBOOK new edition is already a major piece of business information to ISTMA and its members.

Based on official and certified data, gathered in statistical surveys and from administrative and industry sources, this publication has the main goal to provide an international trade overview on our Sector, showing major trends of evolution on international commerce and presenting individual country members information. According to that, all figures and tables have taken in consideration approved principles, standards and classifications that are in line with international guidelines.

Collecting data in our Sector, especially in a Global context, is really a quite challenge. Our sector, mainly constituted by SMEs, is not very much organized in most of the countries and in many cases we have to rely and cross check the data from quite different sources in order to give accurate figures. On preparing this publication, José Camacho and his team, has done a tremendous effort to structure and gather all possible reliable and relevant available information in a consistent and coherent manner. Unfortunately, at the moment, some 2008 country official data is still not available. This situation didn't allow us to publish all the information we would like to and has also conditioned an earlier release of the ISTMA STATISTICAL YEARBOOK.

In a World of continuous changes, and after an economical downturn, we believe this report as well as the **13th World Tooling Conference**, promoted by ISTMA-World this year, in **Windsor, Canada in 20-24th of June - 2010**, will provide strategic discussions, information and orientation for tooling companies working in the our sector's market and developing their business worldwide. We also believe that our ISTMA STATISTICAL YEARBOOK suits stakeholder's needs for better understanding the trends of our business and support their activities.

In conclusion, we would like to express our deepest appreciation to Jose Camacho, our members and all people involved in this job, for their work, contribution and pro-active cooperative assistance on keeping this work developing and giving an exact position of our business throughout the WORLD.

Joaquim Menezes

*President of ISTMA-World*

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for ensuring the integrity and reliability of financial data. This section also outlines the various methods used to collect and analyze data, highlighting the need for consistency and precision in all reporting.

The second part of the document focuses on the specific procedures and protocols that must be followed to ensure the accuracy of the data. It details the steps involved in data collection, from initial data entry to final verification. This section also discusses the importance of regular audits and the role of internal controls in maintaining the integrity of the financial records. The document stresses that adherence to these procedures is crucial for the overall success of the organization.

The third part of the document provides a detailed overview of the financial reporting process. It explains how the collected data is used to generate various financial statements, including the balance sheet, income statement, and cash flow statement. This section also discusses the importance of transparency and the need for clear communication of financial results to stakeholders. The document highlights the role of management in ensuring that all financial information is presented accurately and in a timely manner.

The fourth part of the document discusses the challenges and risks associated with financial reporting. It identifies common pitfalls, such as data entry errors and incomplete records, and provides strategies to mitigate these risks. This section also addresses the importance of staying up-to-date with changes in accounting standards and regulations. The document emphasizes that a proactive approach to risk management is essential for ensuring the accuracy and reliability of financial reports.

The final part of the document provides a summary of the key points discussed throughout the document. It reiterates the importance of accurate record-keeping, adherence to procedures, and transparency in financial reporting. The document concludes by emphasizing the role of management in ensuring the overall integrity and reliability of the financial data. It also provides a list of resources and references for further information on financial reporting and accounting practices.

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent and reliable data collection processes to support informed decision-making.

3. The third part of the document focuses on the role of technology in modern data management. It discusses how advanced software solutions can streamline data collection, storage, and analysis, leading to more efficient and accurate results.

4. The fourth part of the document addresses the challenges associated with data security and privacy. It provides guidance on implementing robust security measures to protect sensitive information from unauthorized access and breaches.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of ongoing monitoring and evaluation to ensure that data management practices remain effective and up-to-date.

## 1. Introduction

This second edition of the ISTMA Year Book represents a step forward a deeper understanding of the worldwide TDM's dynamics.

The present statistical work displays not only new indicators, like the market volumes for each country, but also a preliminary comparative study of trade flows inside, to and from major macro regions – NAFTA, Asia and EU25.

In total, when compared with the previous edition, the present one exhibits a set of an additional forty pages. Some goals remained the same. The publication presents and analyses data for the major countries-players, producers and international traders.

These two editions – 2007 and 2008 - confirm the increasing availability of data released in the field of international trade and production. However, some restrictions and difficulties still subsist.

Making data compatible and available for each edition is the most important challenge. Different uses of the same statistical concept, diverse data collection tools, different languages and dissimilar timeframes used to release information are among the most important barriers.

This edition was significantly delayed in order to display the USA's figures for the values of production in the categories of pressing tools and moulds. Although scheduled for the beginning of December and usually released in the middle of November, this data was still missing when the edition was closed.

The second edition of the ISTMA Year Book aims to provide useful information for a more comprehensive understanding of the global and present framework picture, delivering an additional tool not only to understand the consequences of the present crises but also recognise the dynamics of the structural changes.

Appendixes A, B, C and D detail the methodological information needed to support the approaches used in present edition.

## 2. How Much Globalised is TDM Industry? (2003 – 2008)

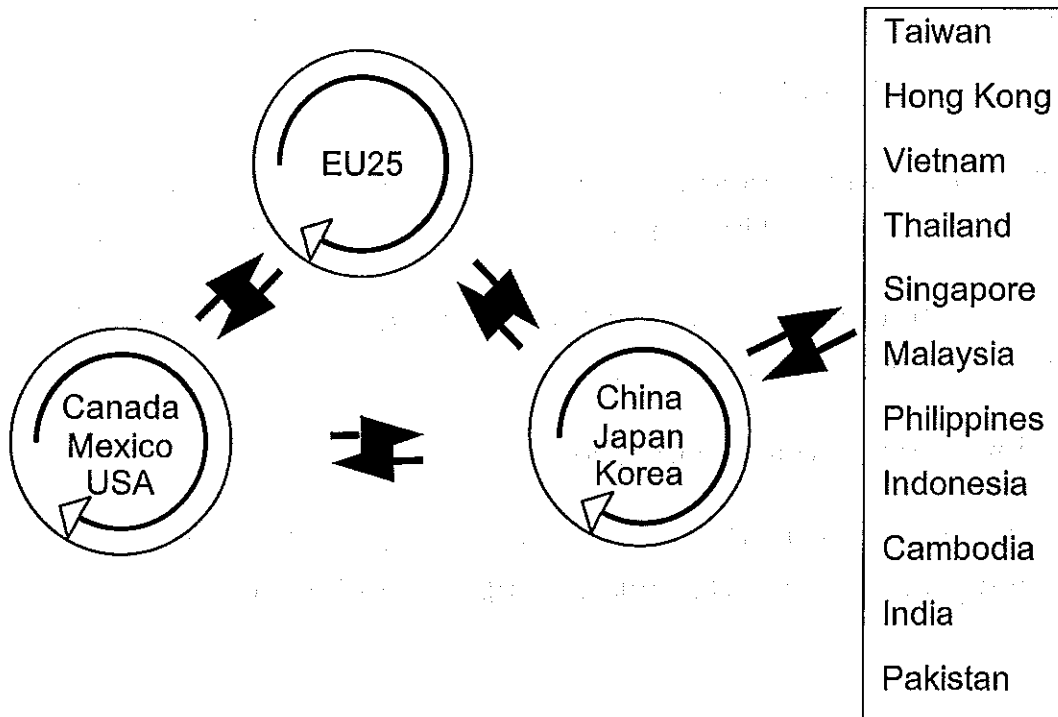
Internationalisation of industrial systems, together with the emergence and expansion of domestic markets, has been pushing the way towards the global development of TDM industry. Internationalisation of companies may take place in different ways, as research has been showing during last decades. Internationalisation may range in a scale from international trade – between companies in different countries – to foreign direct investment in other countries.

The present analysis takes only in consideration the trade flows and explore the raising dimensions of these streams inside the macro regions (European Union; NAFTA and ASIA- Pacific) and between these regions.

Unlike our best desires, data for all countries involved is unavailable, especially in what concerns Asia-Pacific region. To move further in this way, we followed an estimation approach that uses trade flows with China, Japan and Korea to and from the following countries or regions: Taiwan, Hong Kong, Vietnam, Thailand, Singapore, Malaysia, Philippines, Indonesia, Cambodia, India and Pakistan.

Figure 1 details the model applied. We conducted this analysis for the two important most categories - dies and moulds for plastics and rubber – and in value terms - EUR and USD – in current prices. Careful attention should be paid, since unit values have changed. However, in the absence of weight measures for some flows between countries, this component of the analysis cannot be displayed.

Figure 1 – International Trade – Model of Analysis



Chapters 2.2 and 2.3 present the aggregated trade flows inside and between regions. Chapters 5.1 and 5.2 detail the positions of different countries in the model in what concerns the trade flows studied.

## 2.1. Dies and Moulds for Plastic– Preliminary Conclusions

### A. Trade flow inside regions

As a first conclusion, trade inside regions represents the major international flows, although with important differences:

#### 1. Dies

Trade flows in EU25 and Asia are equivalent in terms of value but much larger (between the double and the triple) than the corresponding stream inside NAFTA. Values for the Asian countries surpassed those analogous to EU25 in 2005.

Trade flow among Asian countries is growing in a fast pace while in-

side EU25 and NAFTA remained nearly constant during the time period considered.

## 2. Moulds for plastic and rubber

Trade flows in the three regions are closer in terms of value, although those corresponding to EU25 and Asia show a superior performance.

As in the case of dies, flow among Asian countries display a growing tendency but presenting a slowest rate.

### B. Trade flow towards outside the regions

Trade flows towards outside the regions present a different picture, whereas comparing dies and moulds for plastic and rubber.

#### 1. Dies

Asian countries are much more represented outside their region than european or north-american counterparts, although with a decreasing tendency in the preceding years.

#### 2. Moulds for plastic and rubber

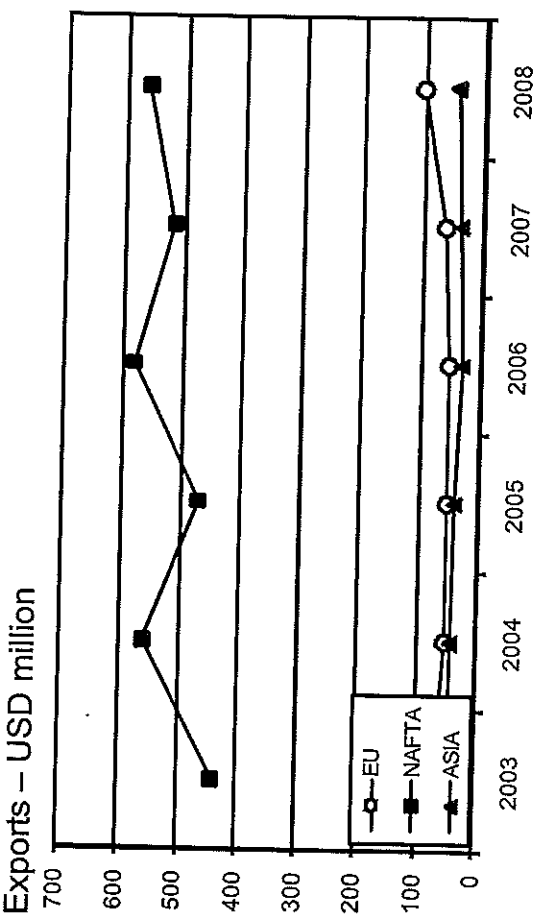
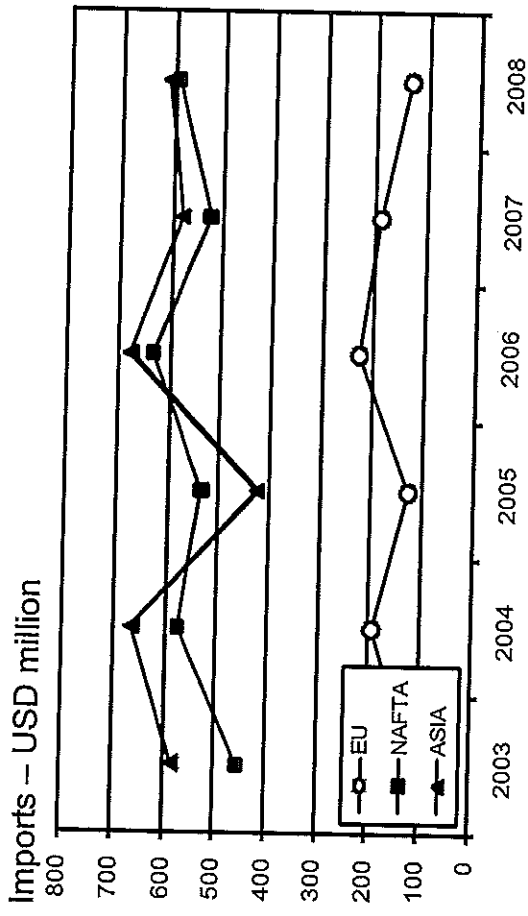
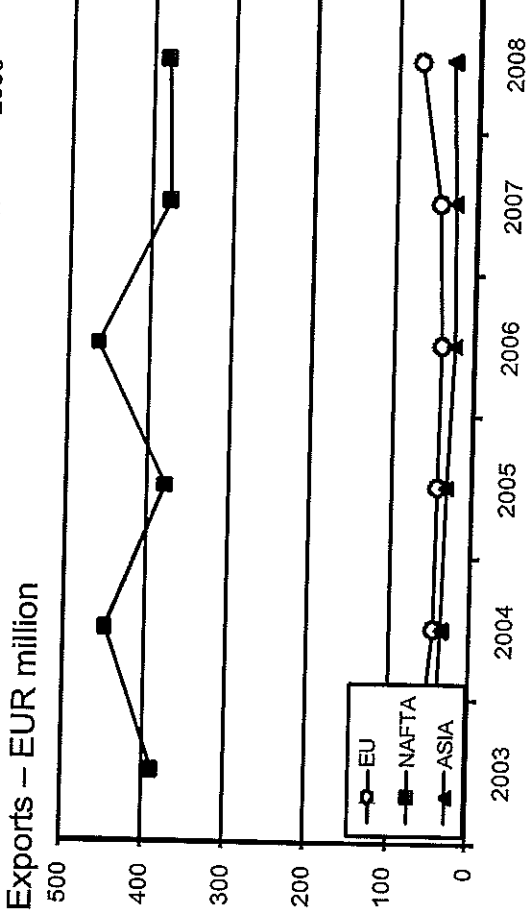
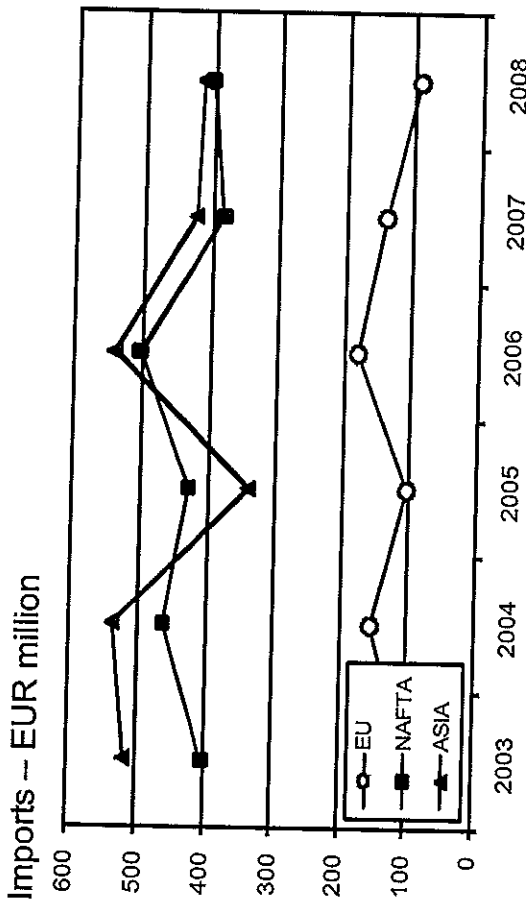
In this case, trade flows with origin in european or in asian countries are equivalent in terms of value and much larger than the corresponding flows with origin in north-american countries.

Showing an increasing tendency, trade flow departing from asian countries surpassed the equivalent from European counterparts in 2007.

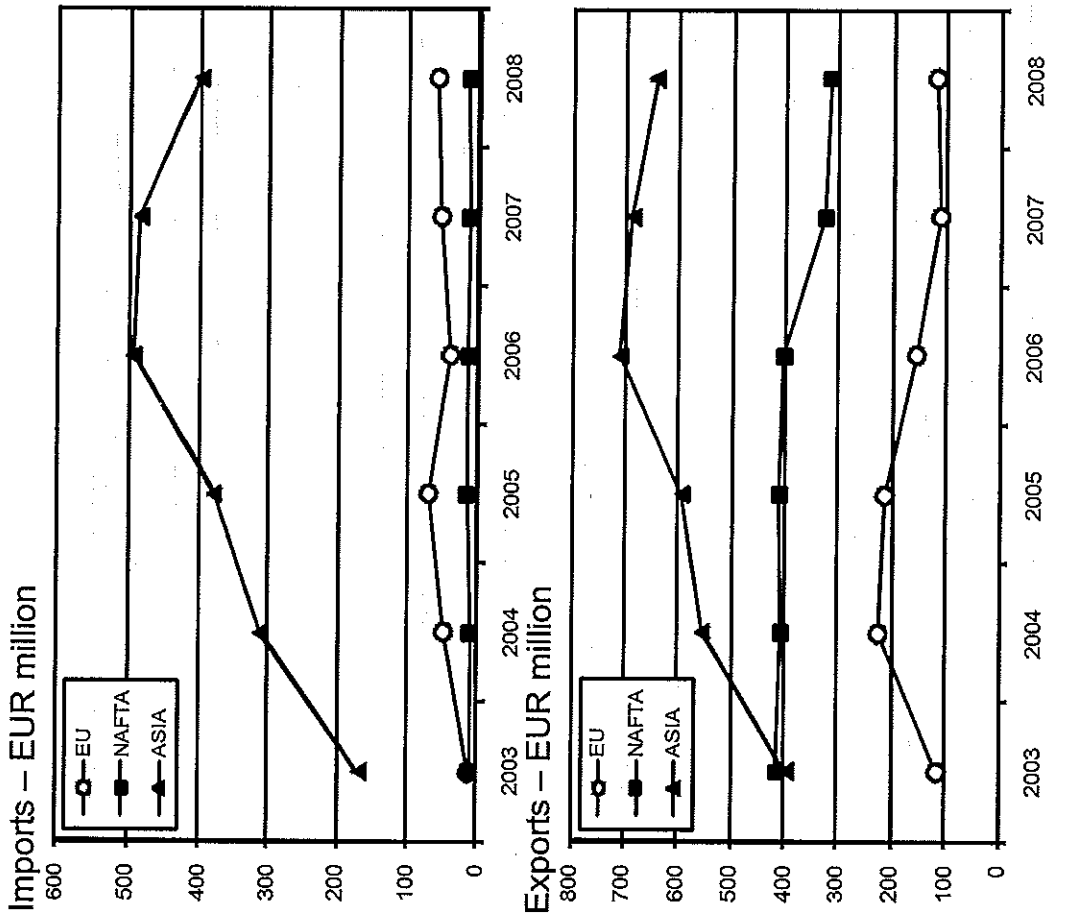
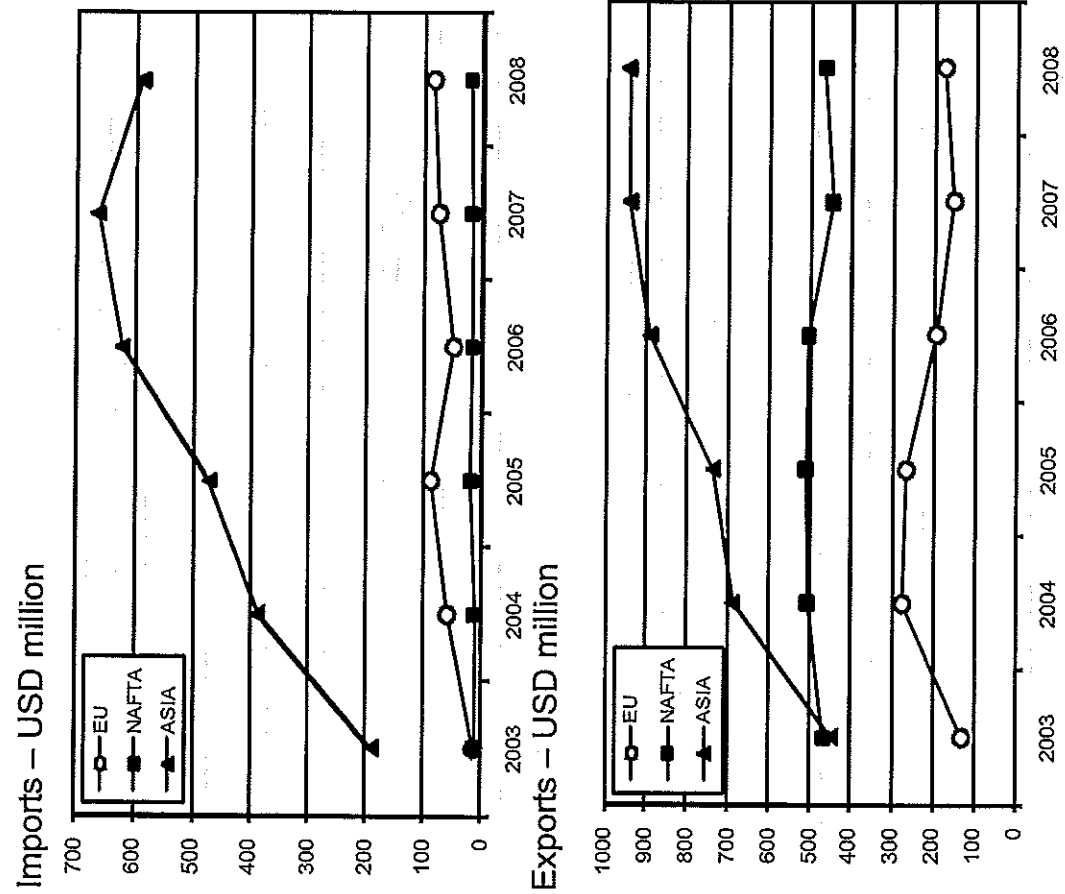
A more detailed analysis will be presented in a forthcoming work delivered to ISTMA partners.

## 2.2. Dies

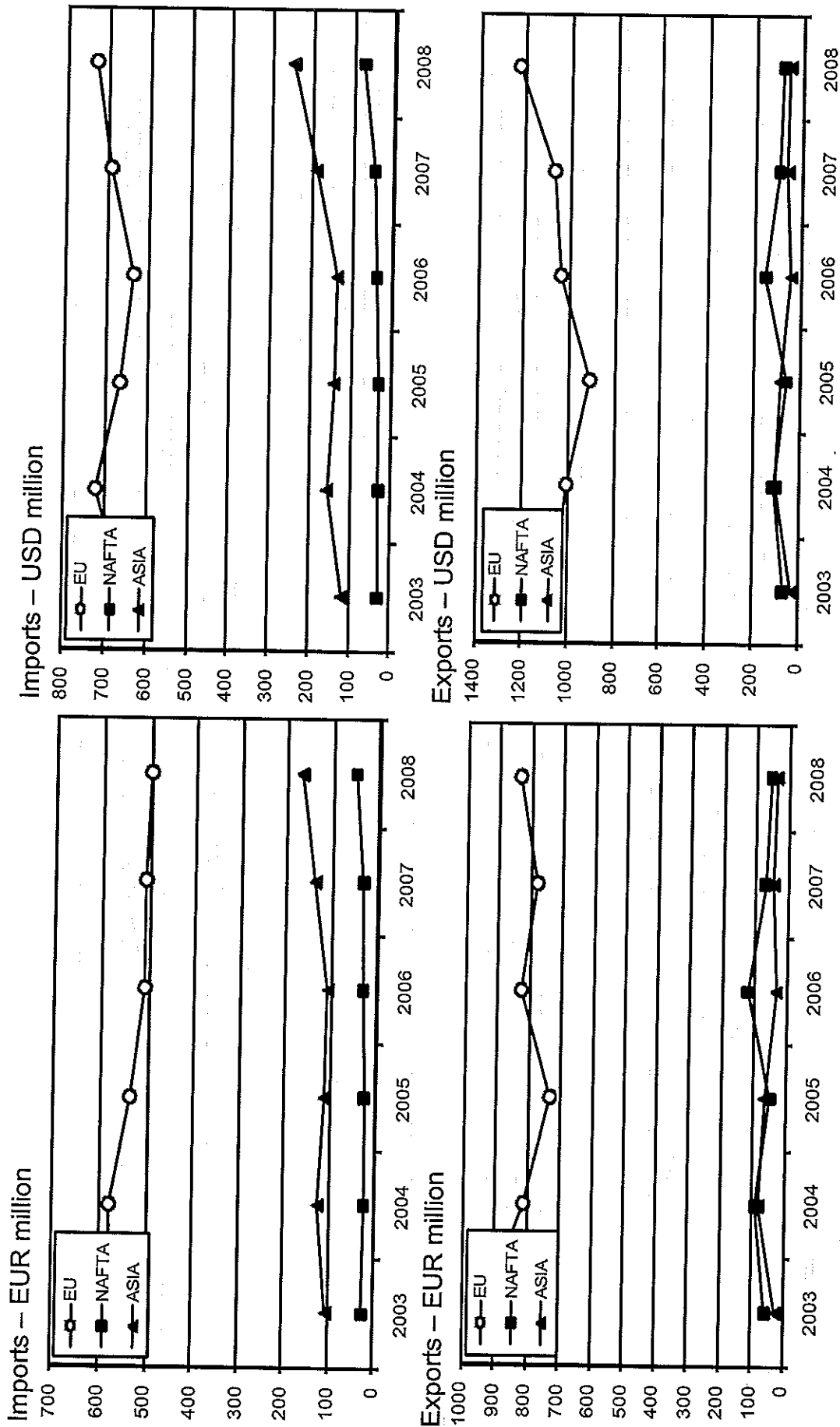
### 2.2.1. NAFTA, Dies, International Trade



### 2.2.2. ASIA, Dies, International Trade

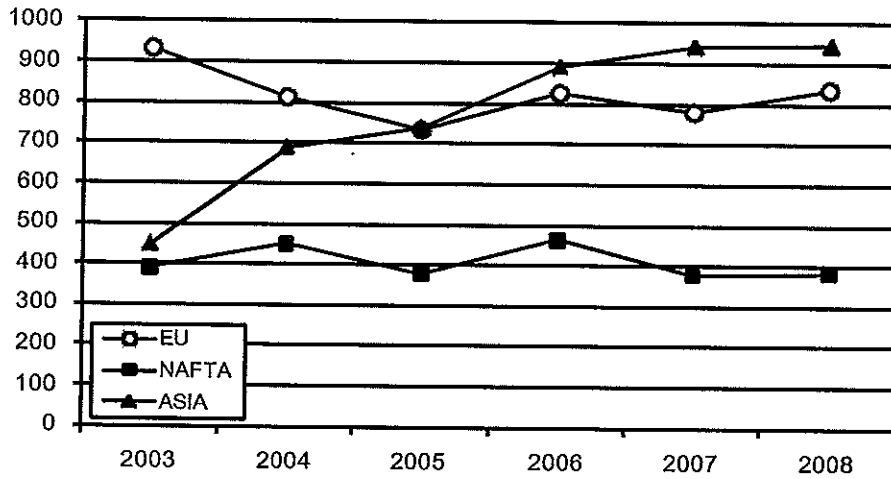


### 2.2.3. EU25, Dies, International Trade

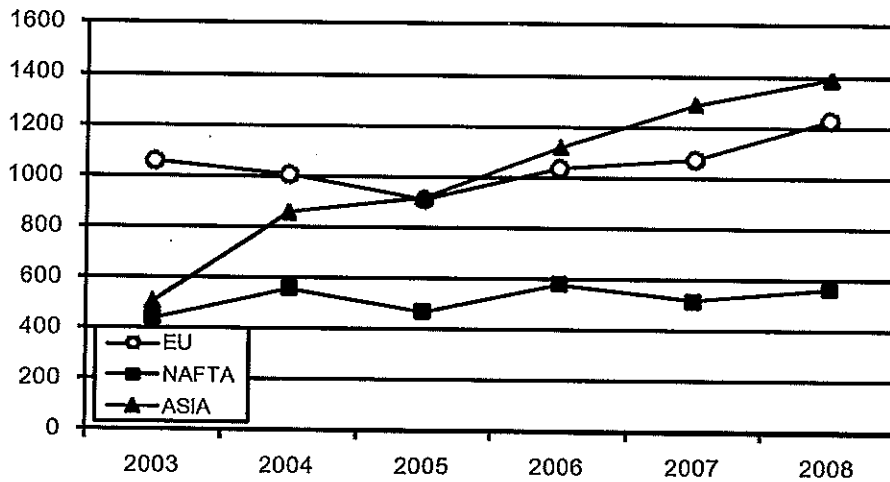


### 2.2.4. Dies, Exports Inside Regions

EUR million

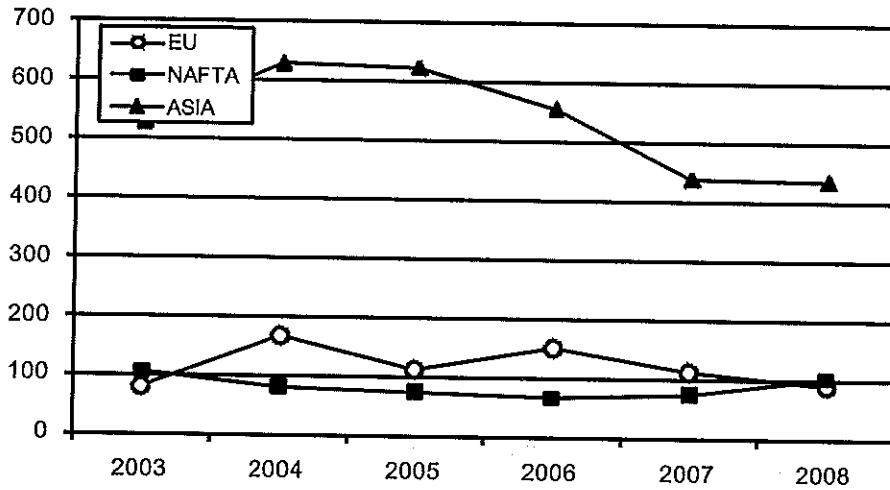


USD million

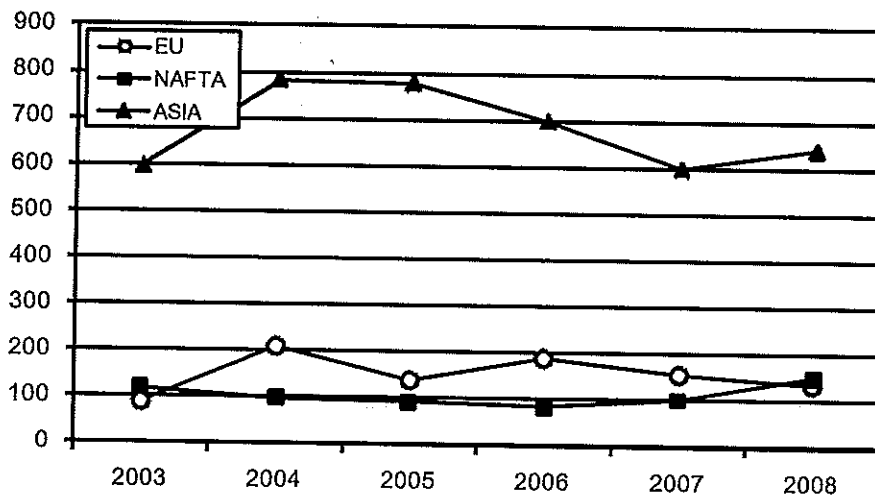


### 2.2.5. Dies, Exports Towards Outside the Regions

EUR million

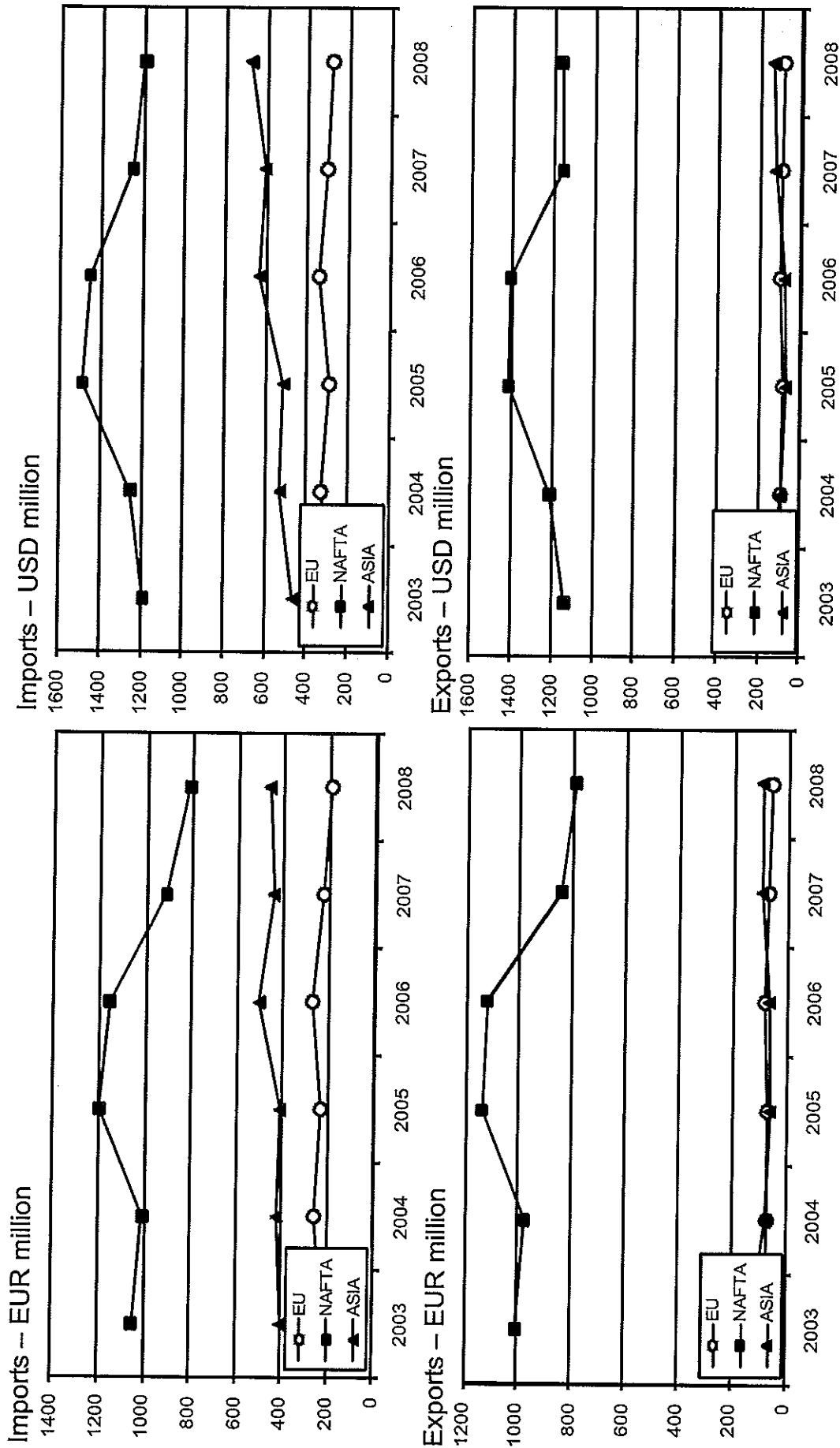


USD million

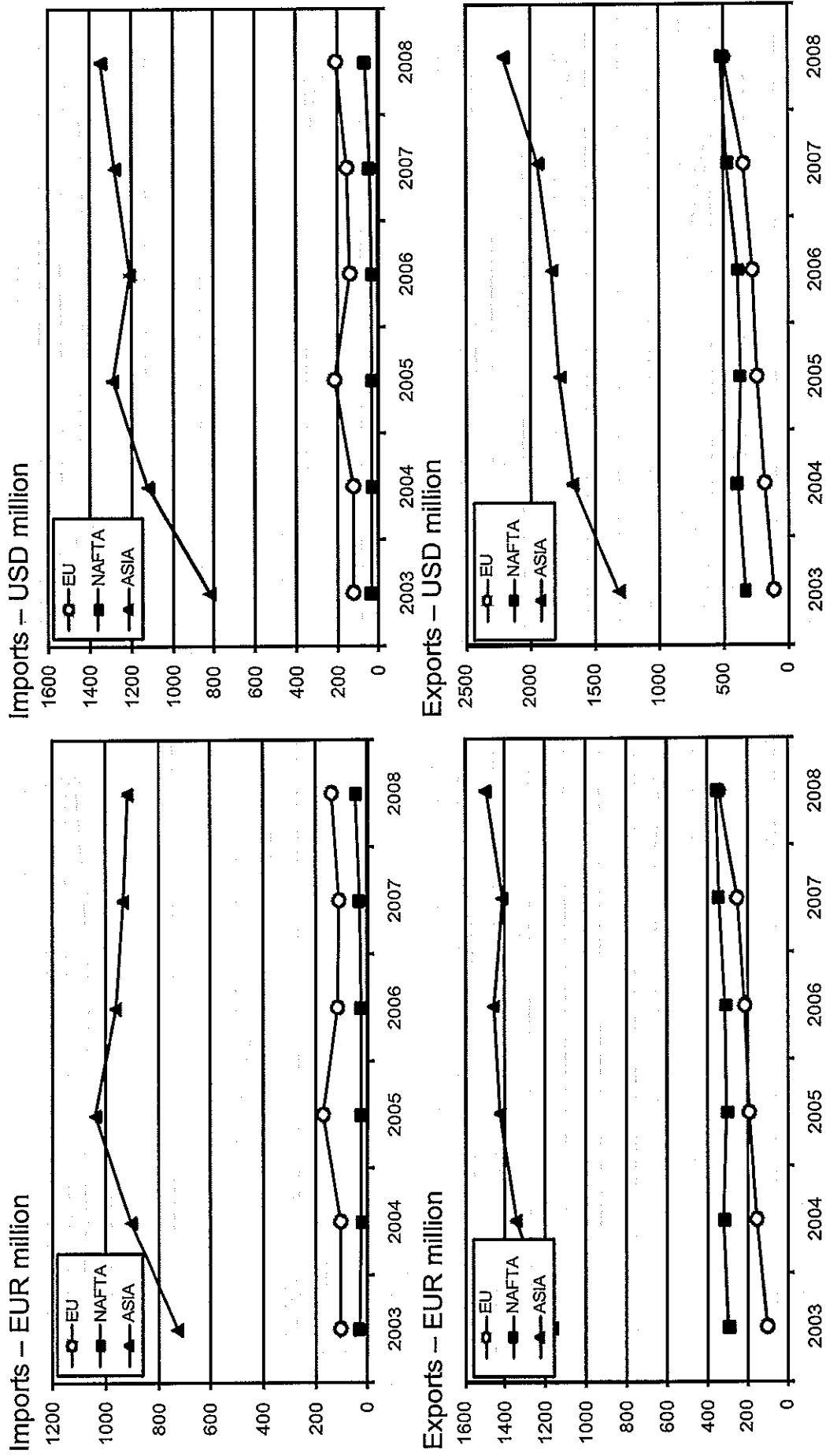


## 2.3. Moulds for Plastic and Rubber

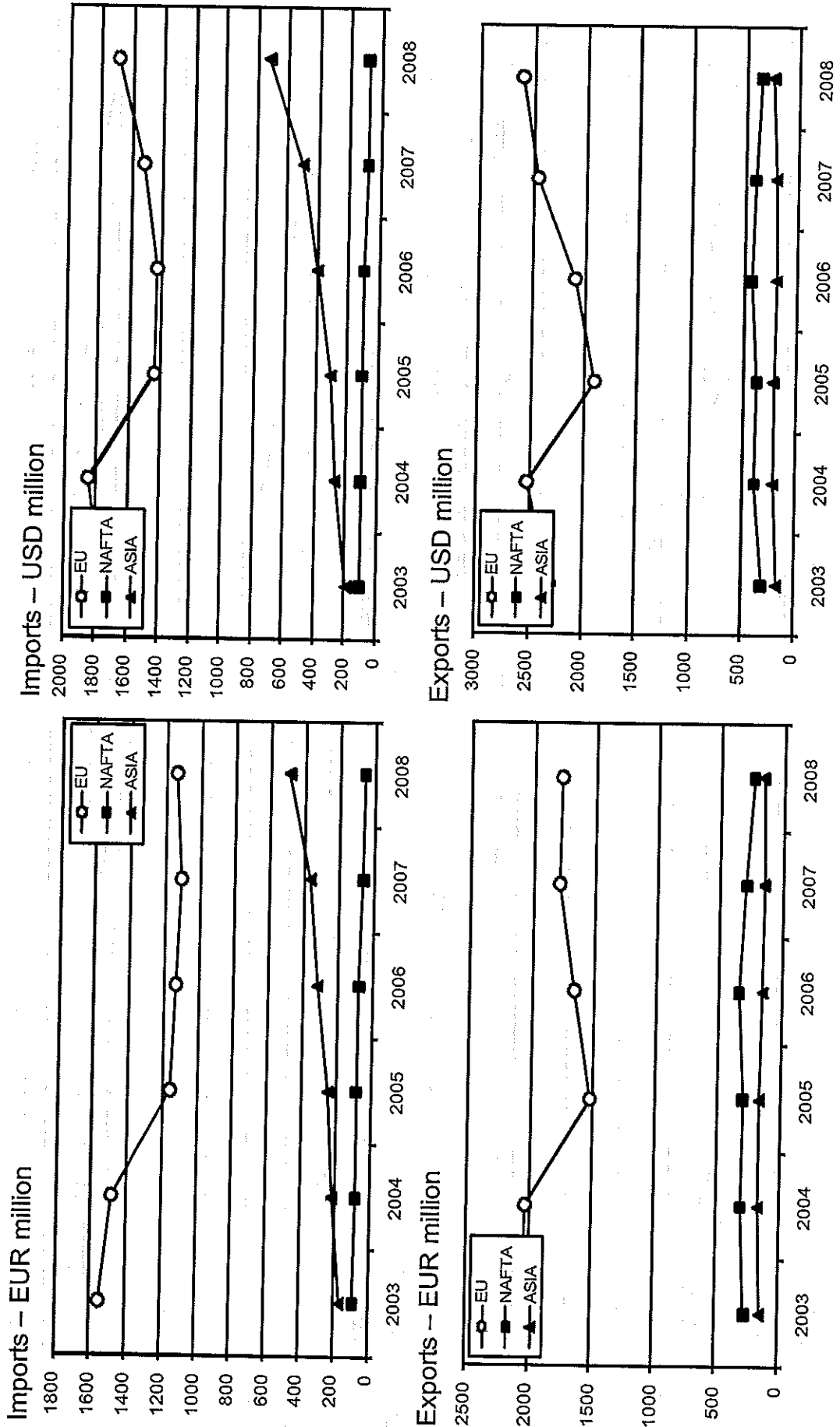
### 2.3.1. NAFTA, Moulds for Plastic and Rubber, International Trade



### 2.3.2. ASIA, Moulds for Plastic and Rubber, International Trade

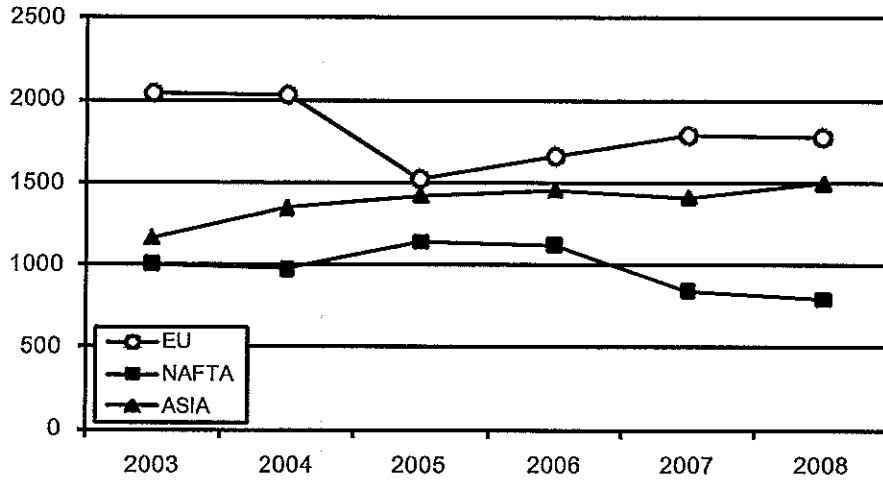


### 2.3.3. EU25, Moulds for Plastic and Rubber, International Trade

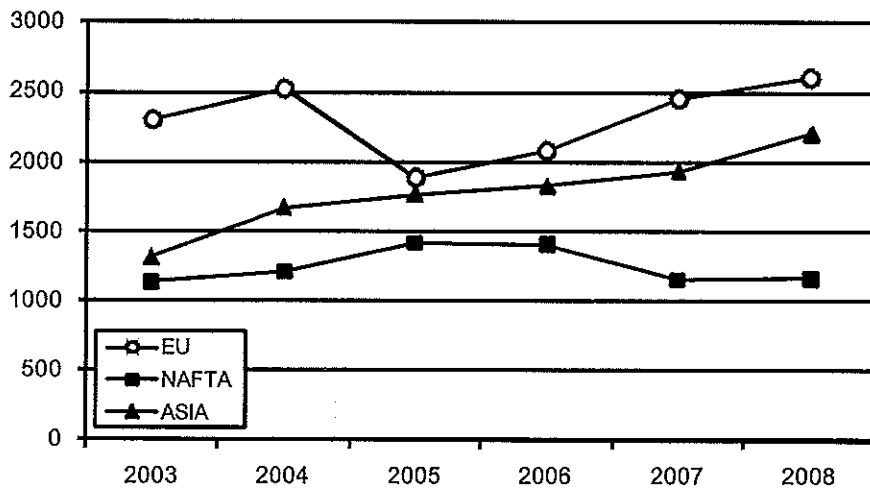


### 2.3.4. Moulds for Plastic and Rubber, Exports Inside Regions

EUR million

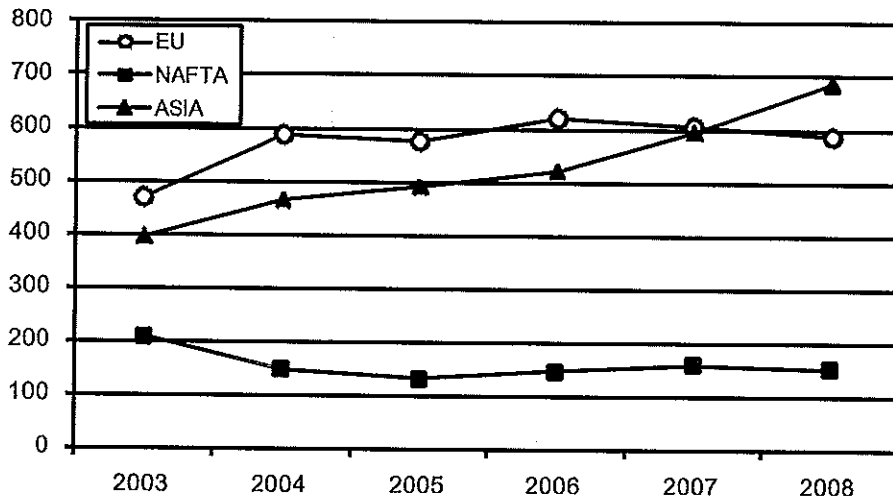


USD million

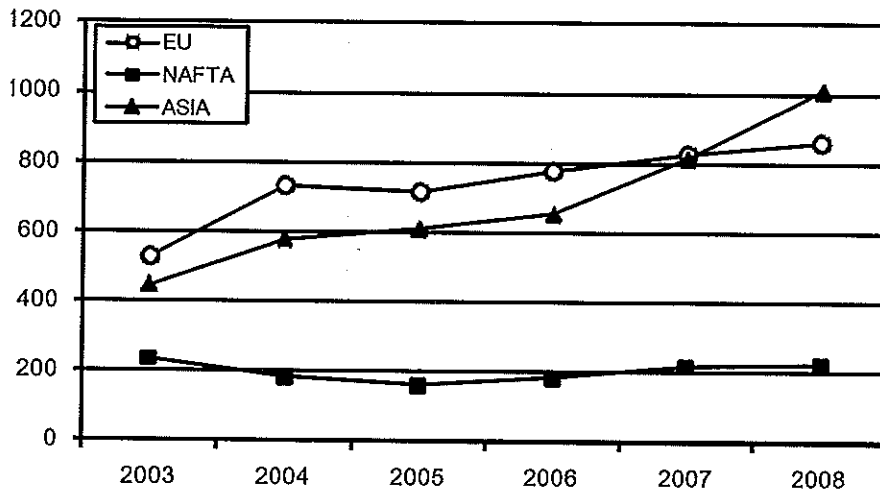


### 2.3.5. Moulds for Plastic and Rubber, Exports Towards Outside Regions

EUR million



USD million

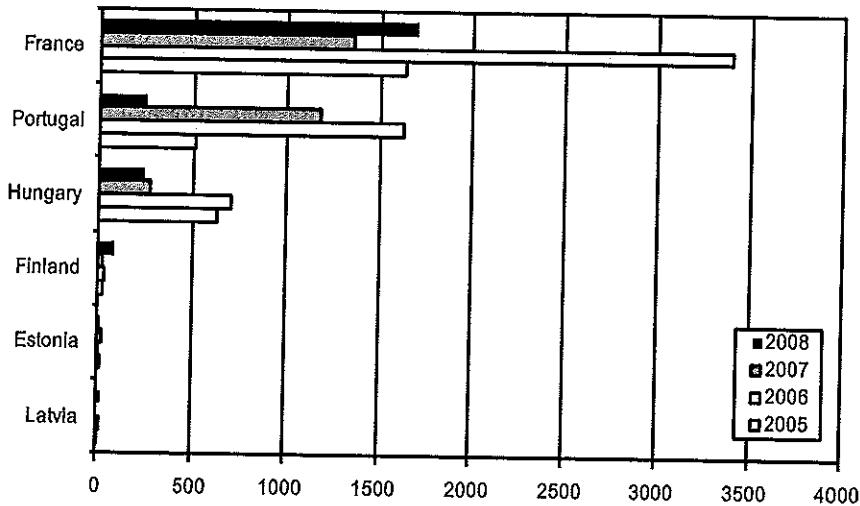
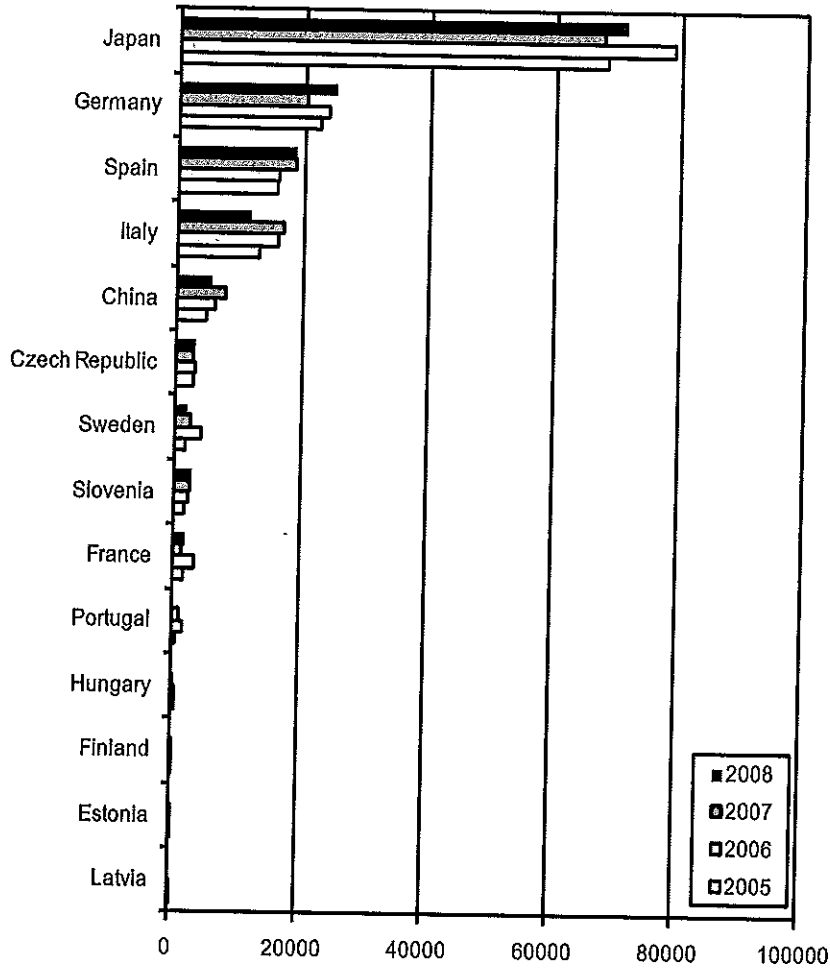


## **3. Comparative Product Data Analysis**

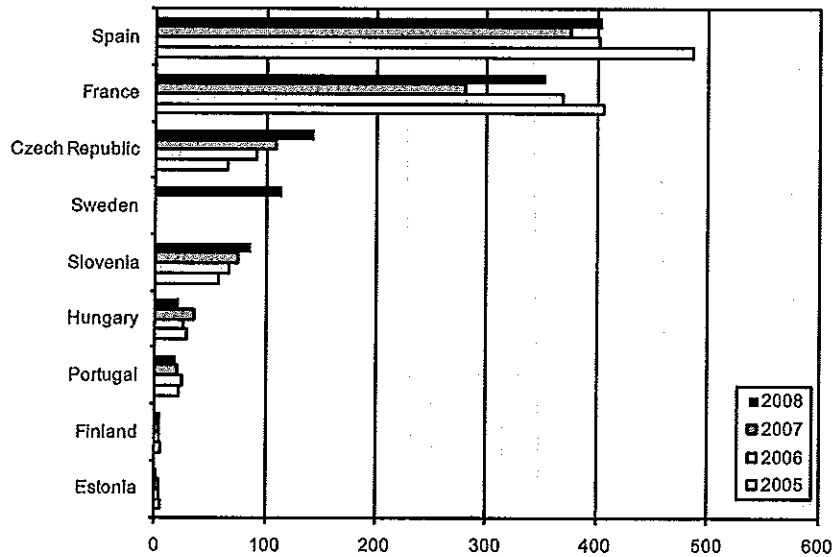
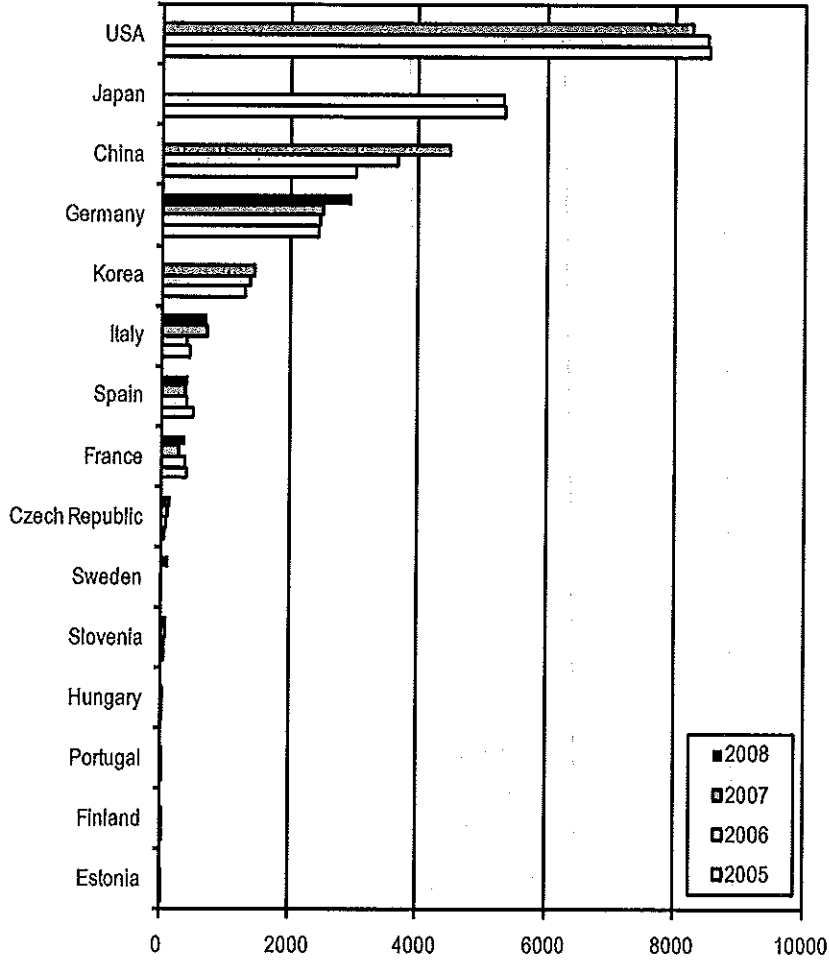
### **3.1. Commodity - Country Level**

#### **3.1.1. Dies**

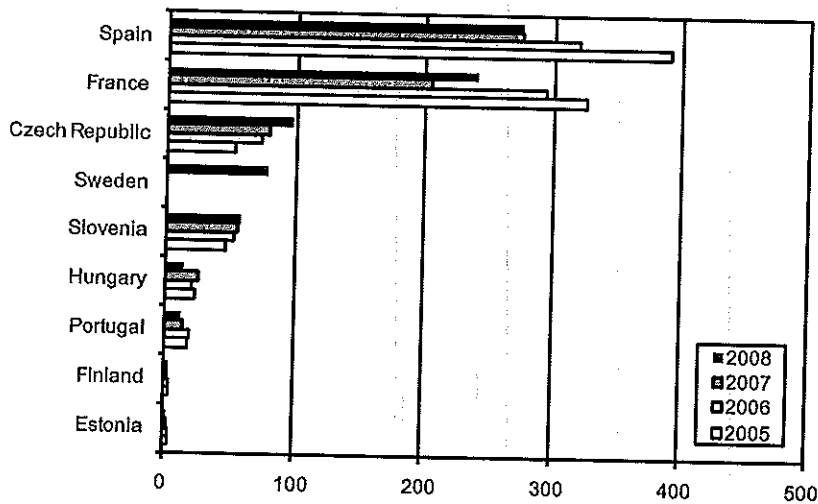
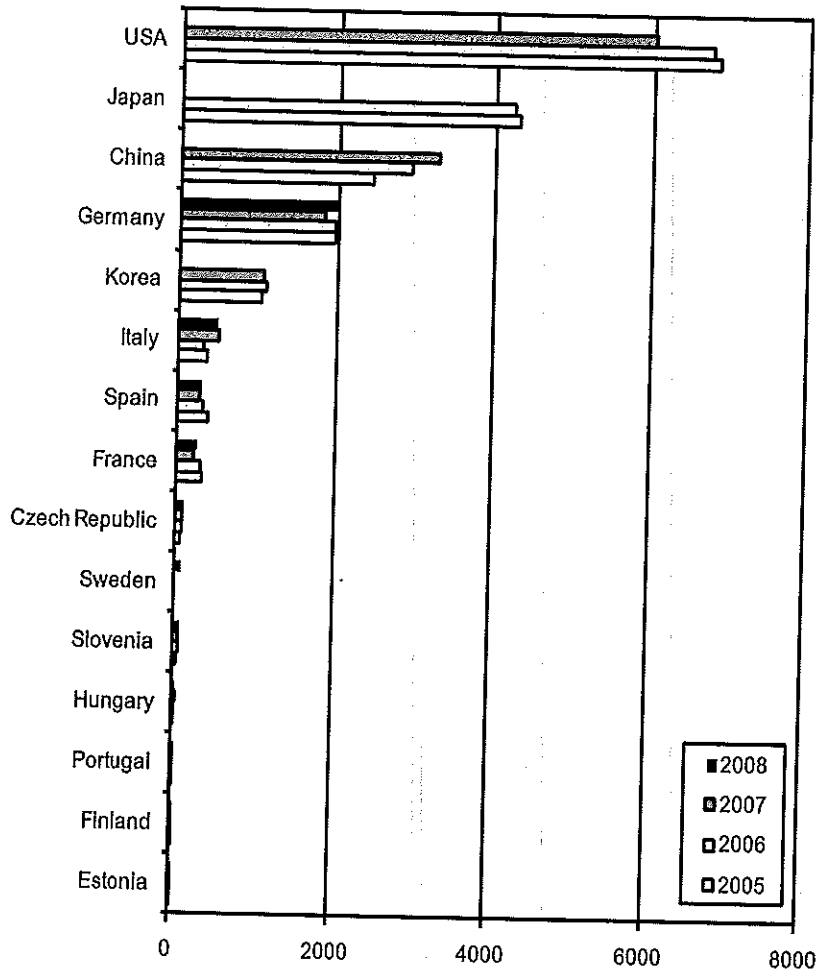
### 3.1.1.1. Dies Production – Weight, 1000 kg



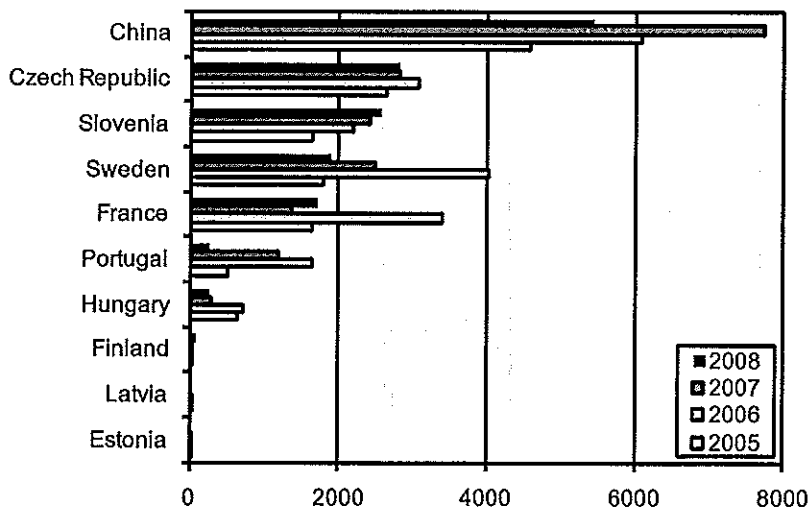
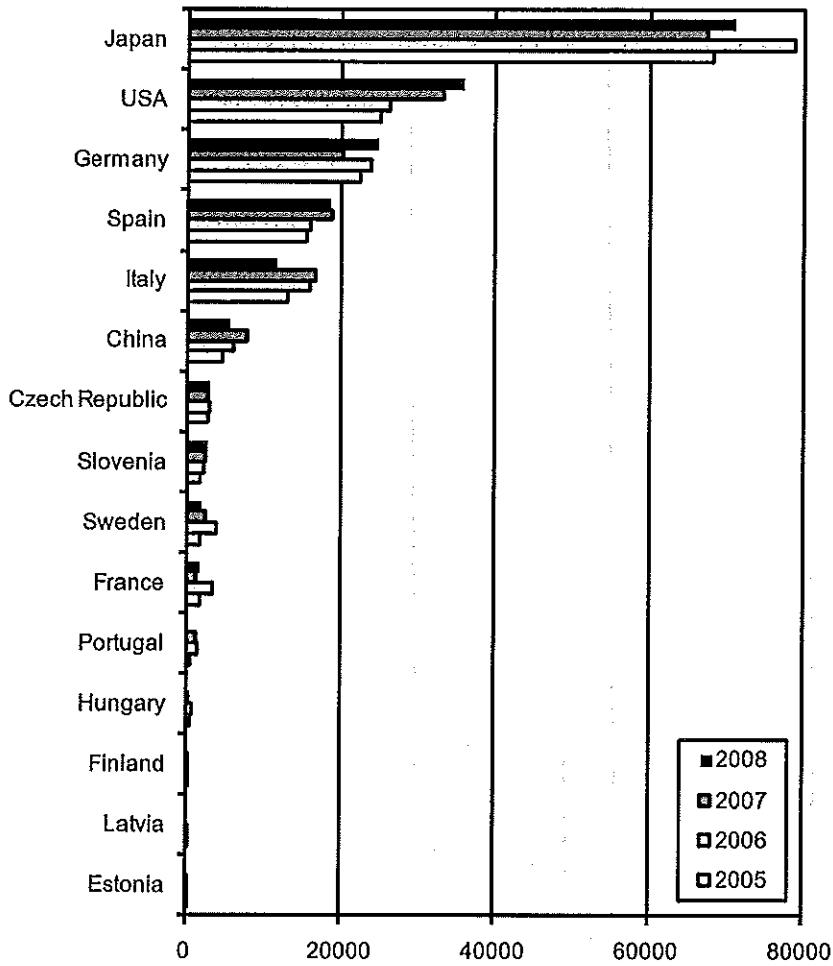
### 3.1.1.2. Dies Production – USD million



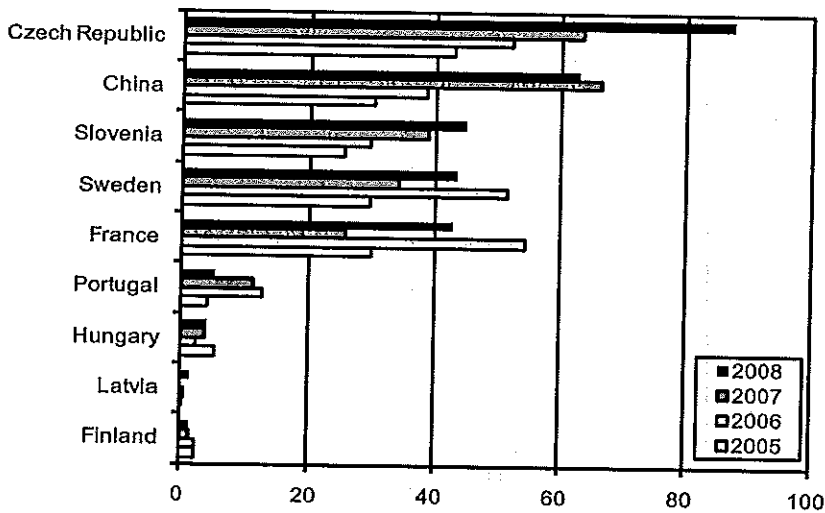
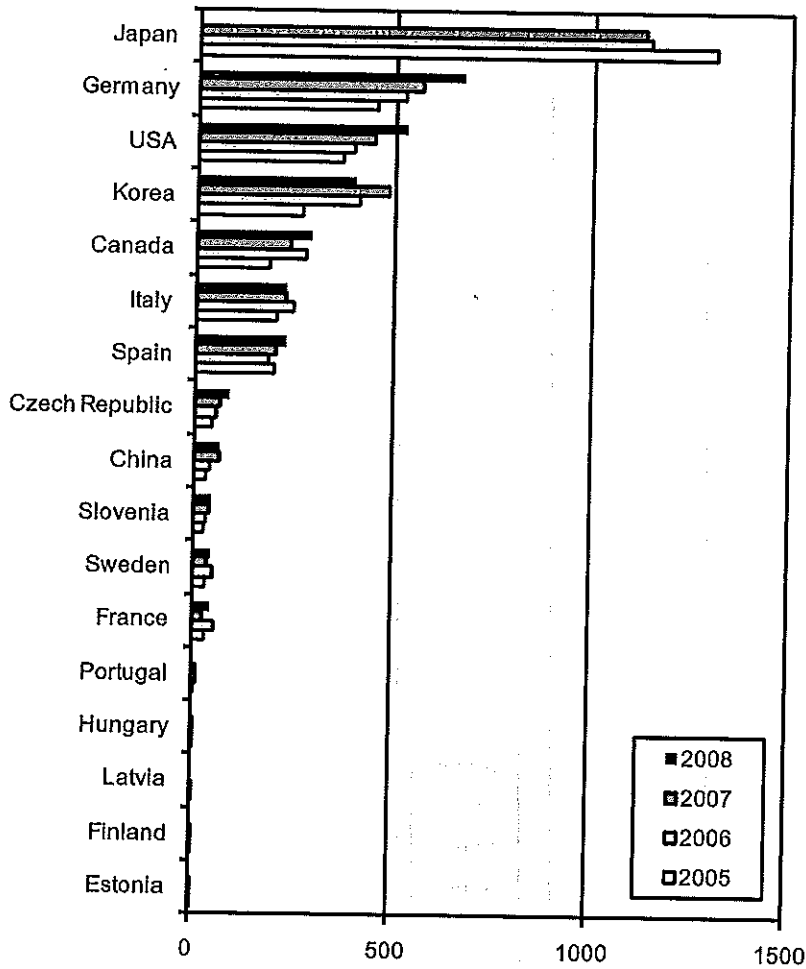
### 3.1.1.3. Dies Production – EUR million



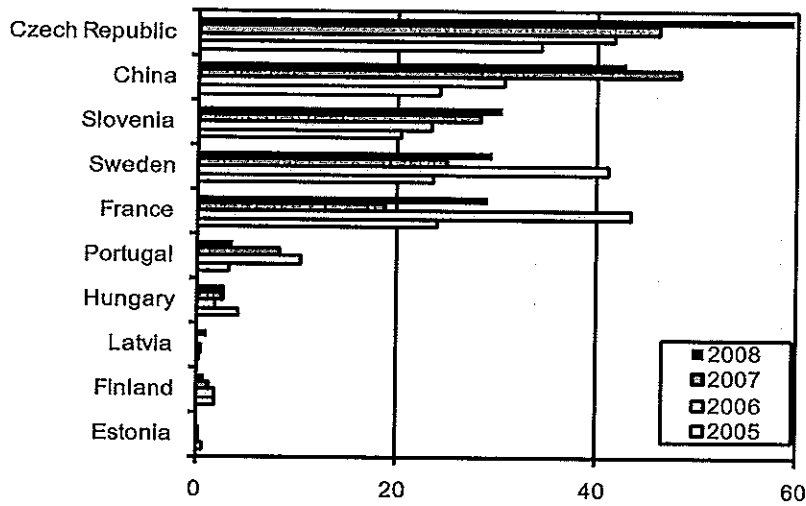
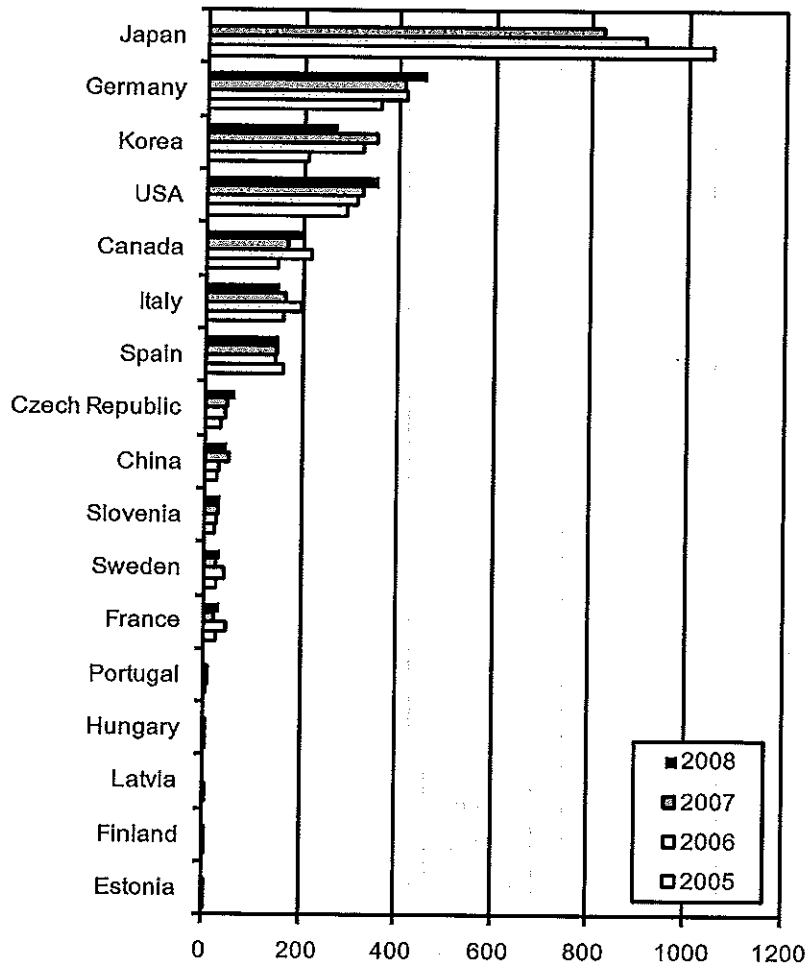
### 3.1.1.4. Dies Exports – Weight, 1000 kg



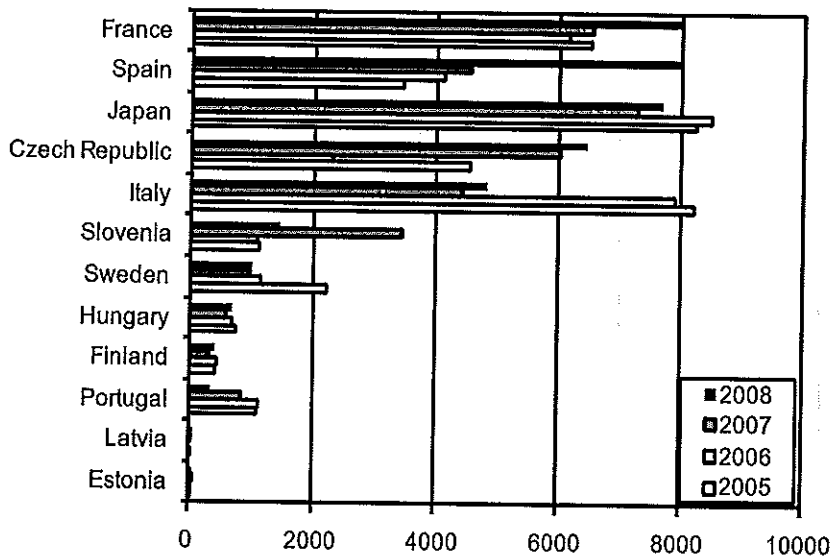
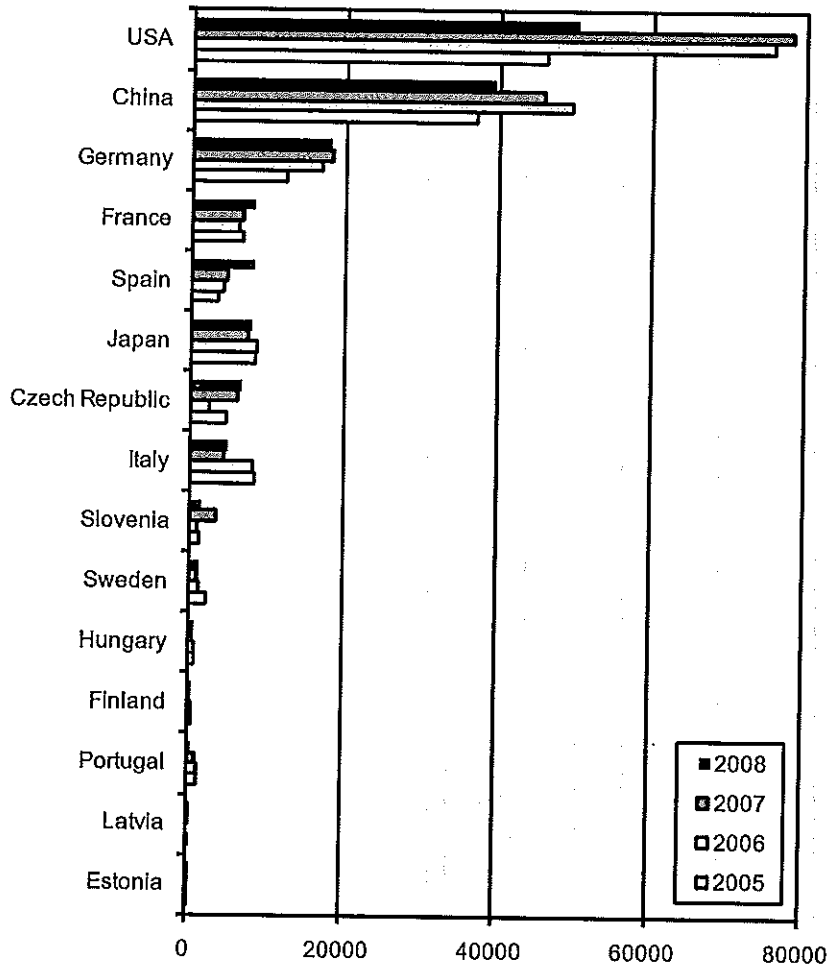
### 3.1.1.5. Dies Exports – USD million



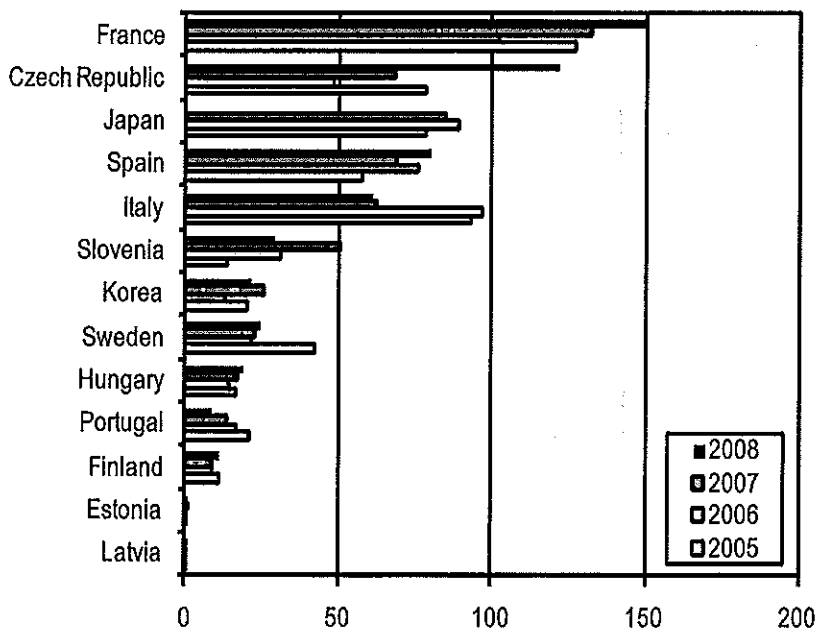
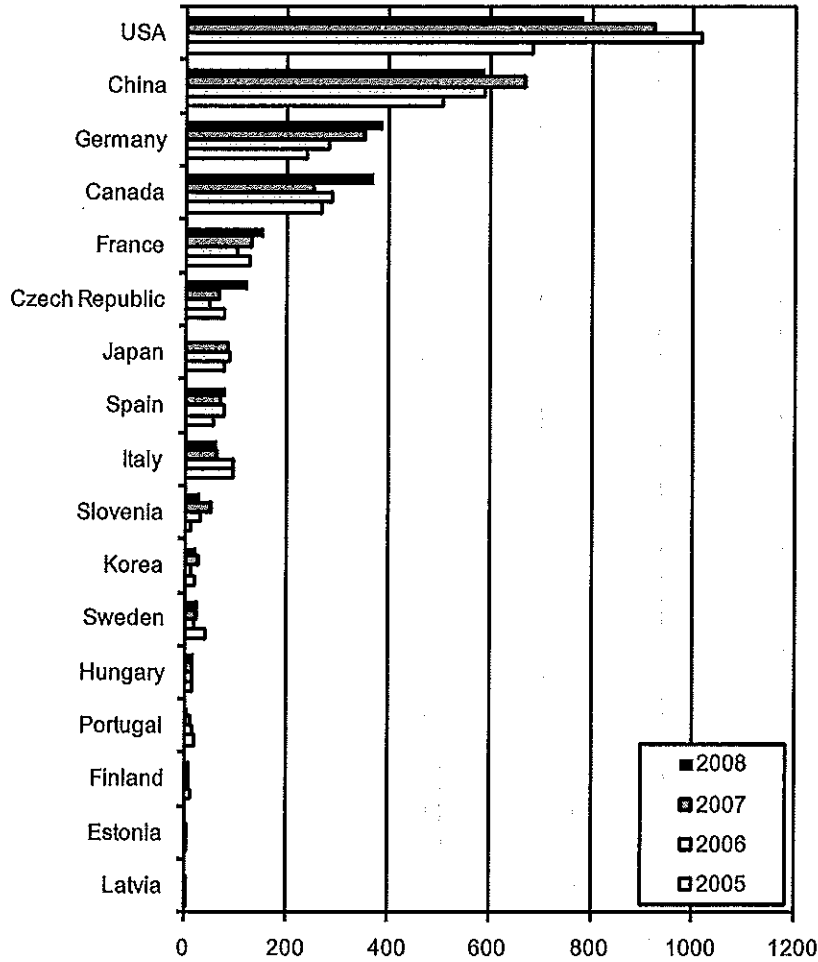
### 3.1.1.6. Dies Exports – EUR million



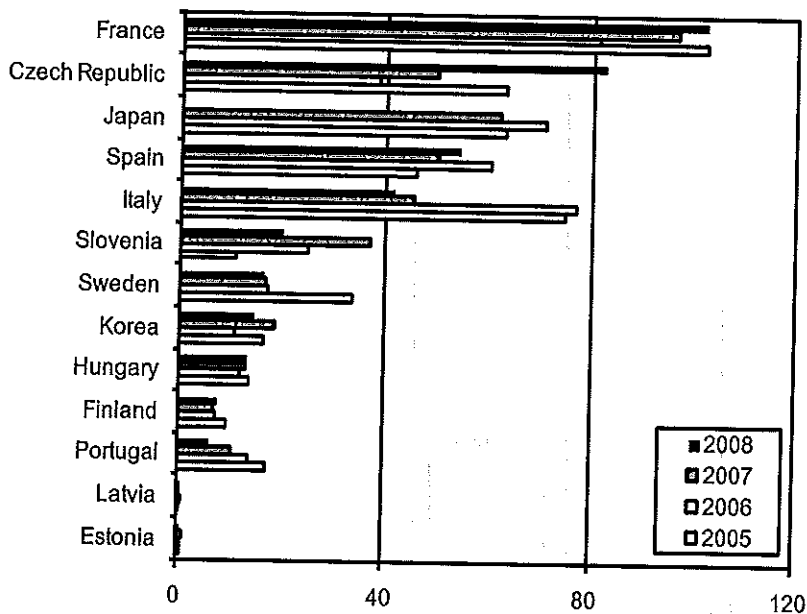
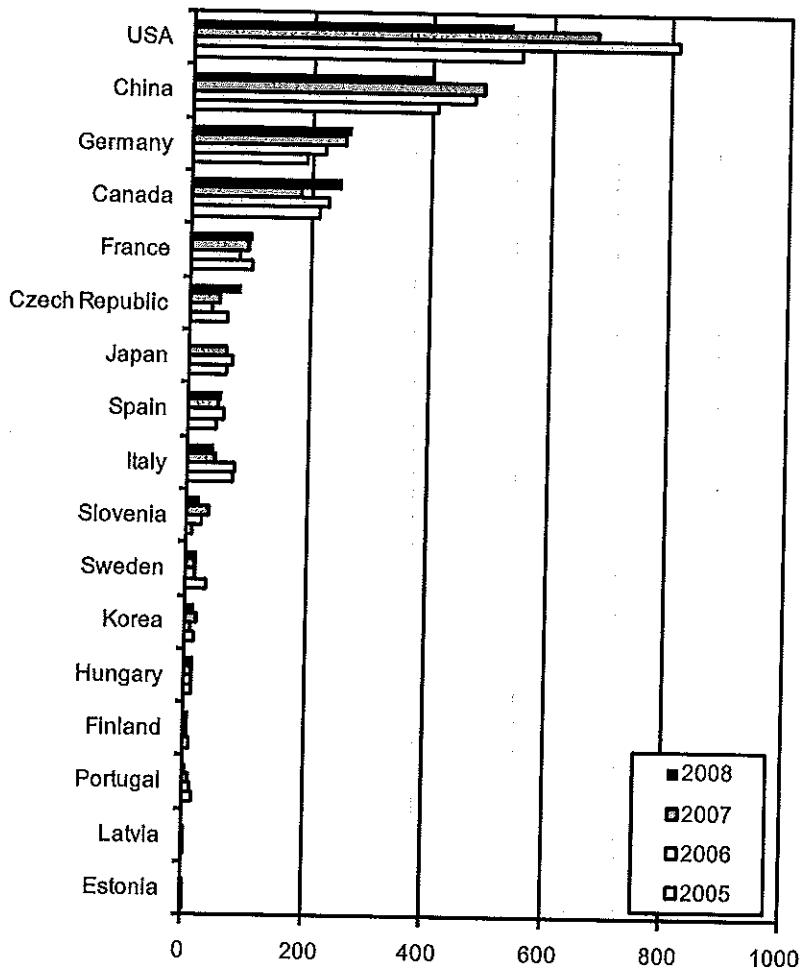
### 3.1.1.7. Dies Imports – Weight, 1000 kg



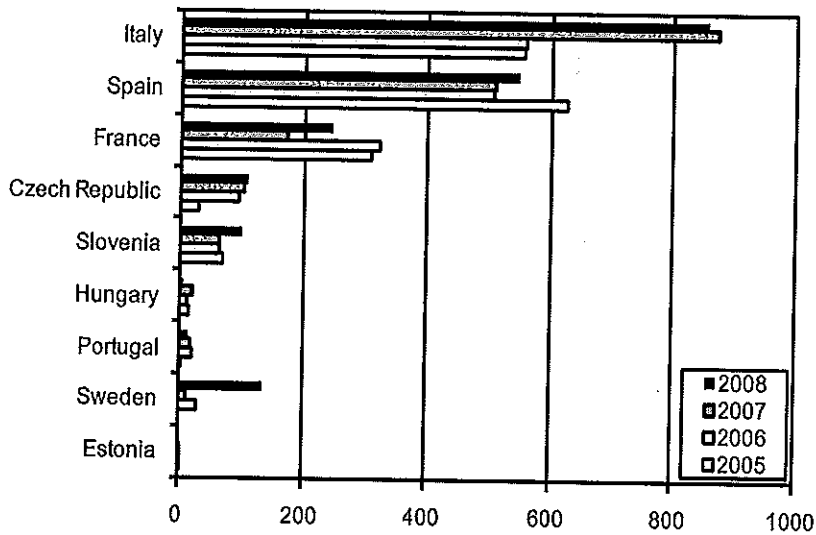
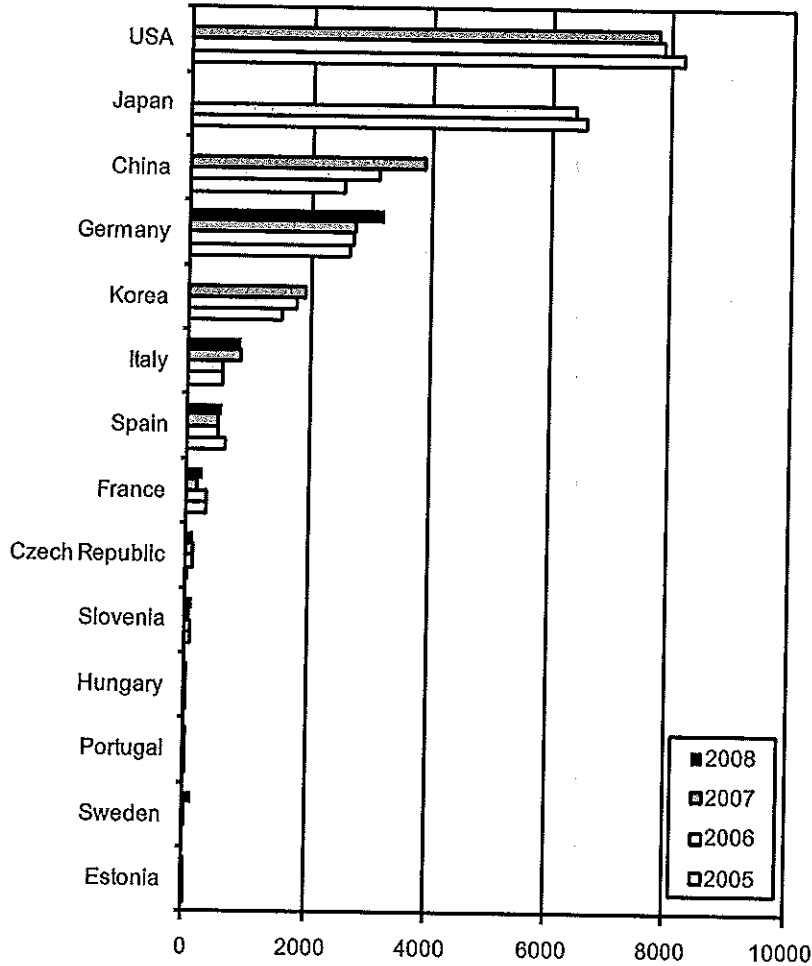
### 3.1.1.8. Dies Imports – USD million



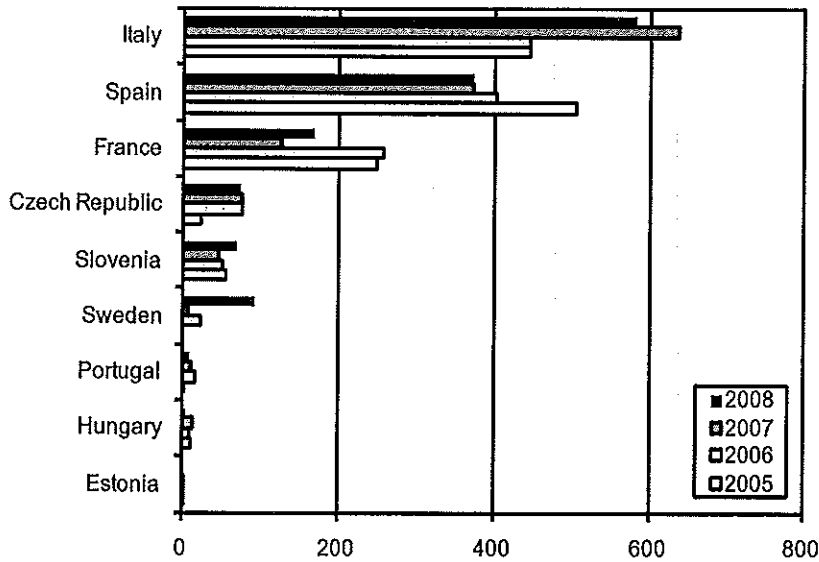
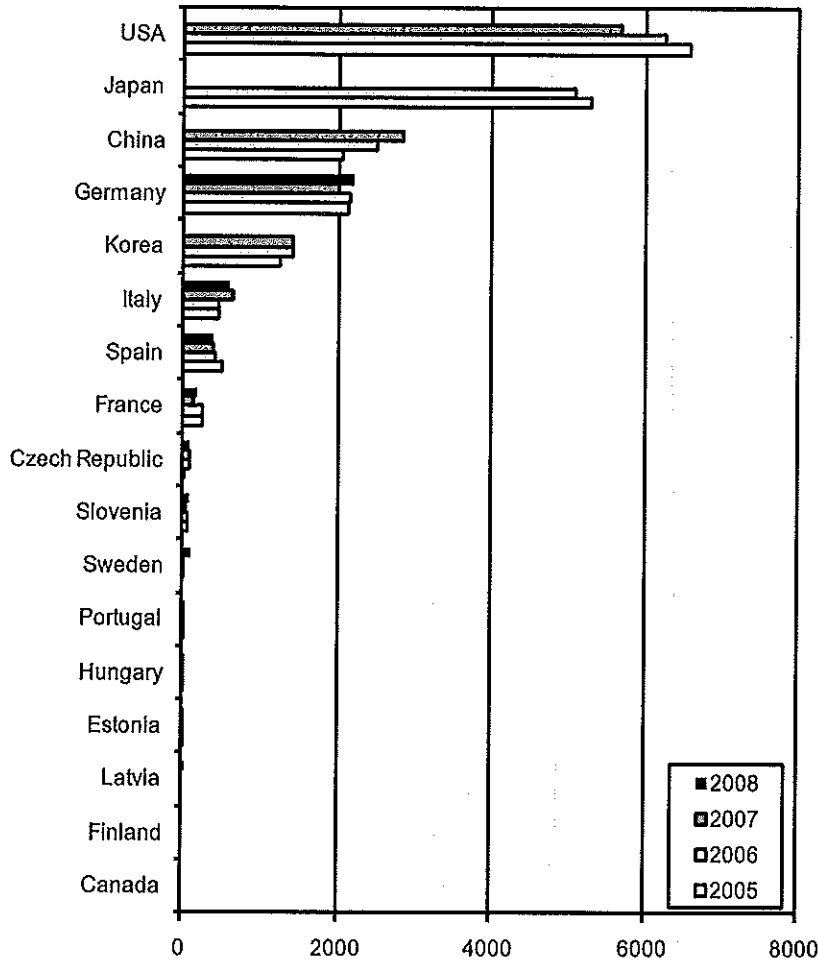
### 3.1.1.9. Dies Imports – EUR million



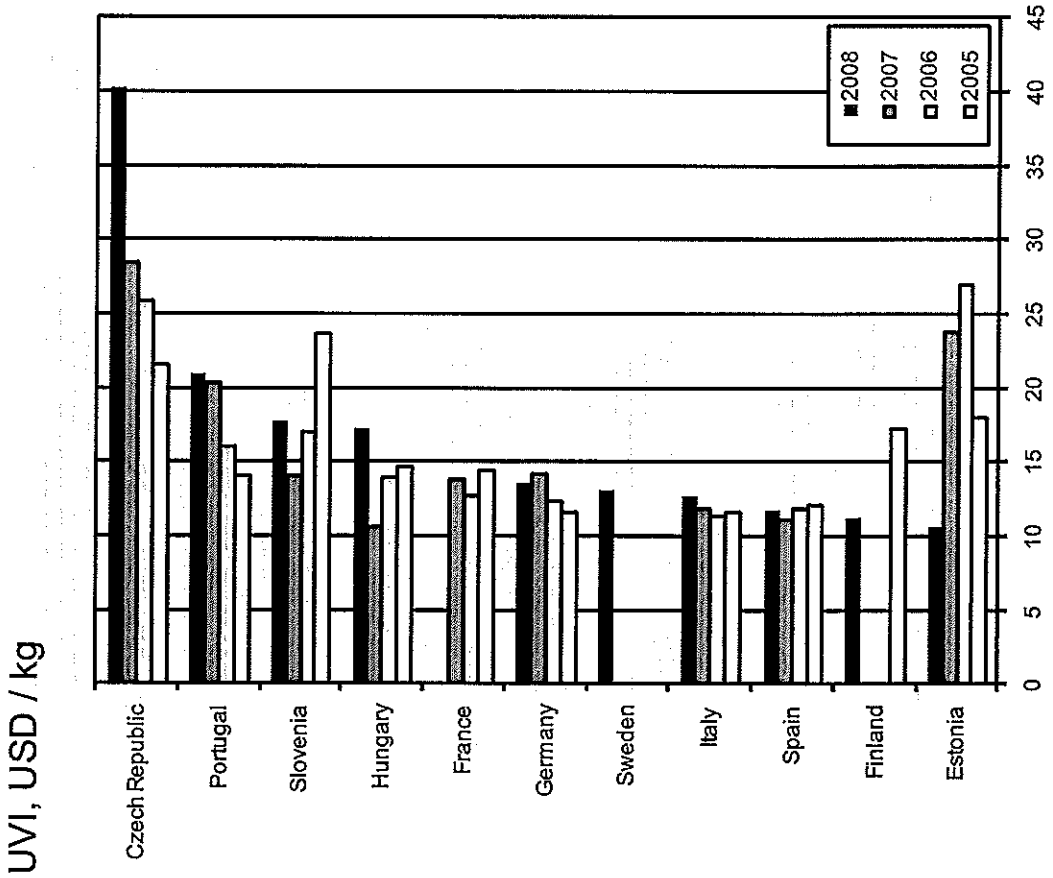
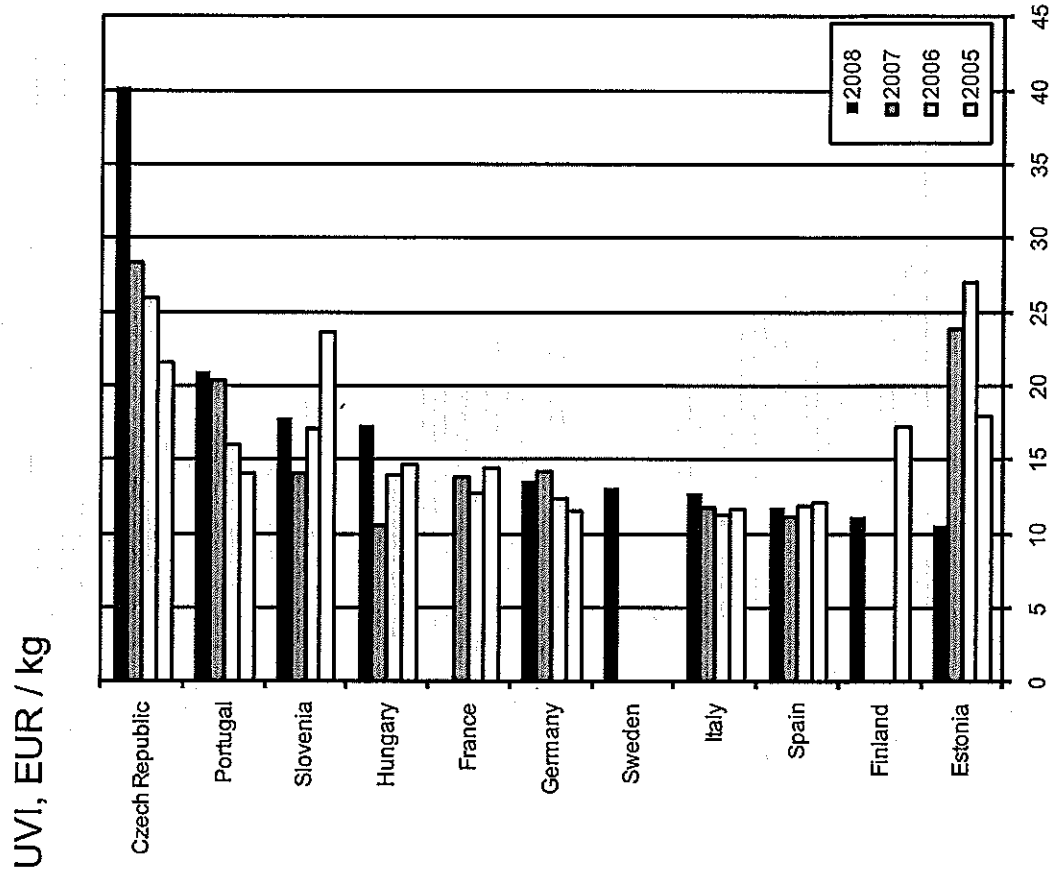
### 3.1.1.10. Dies Apparent Market – USD million



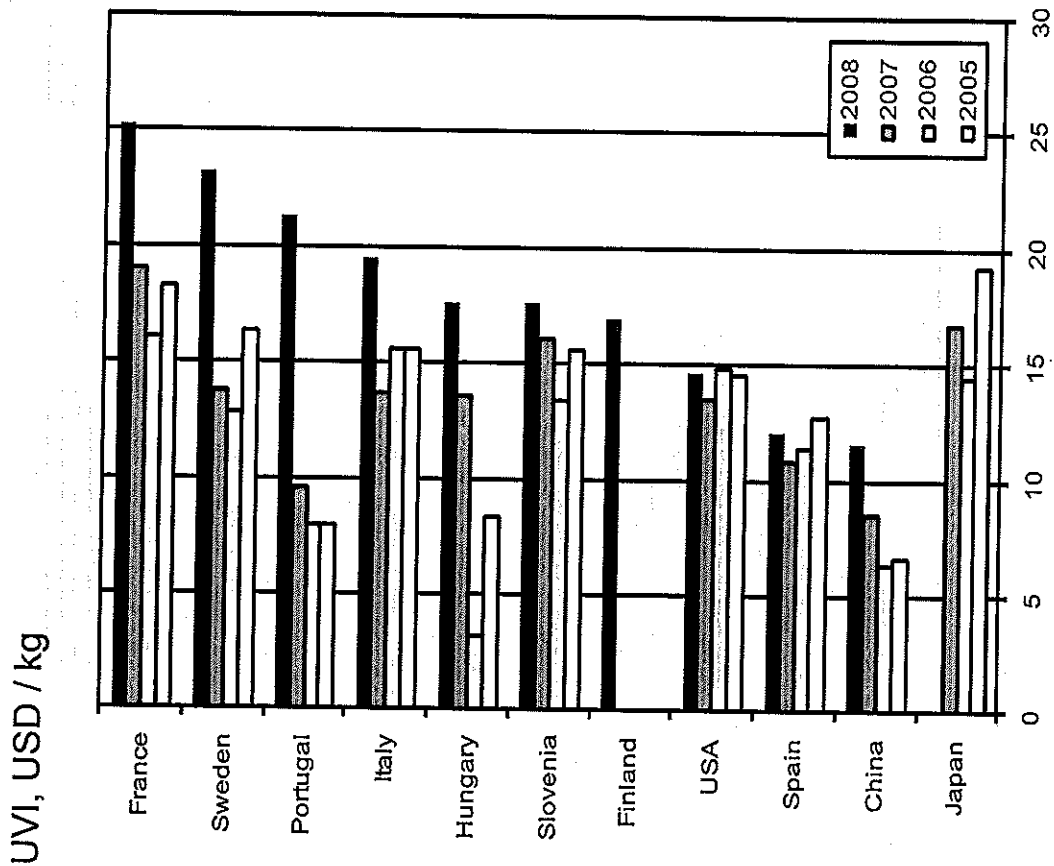
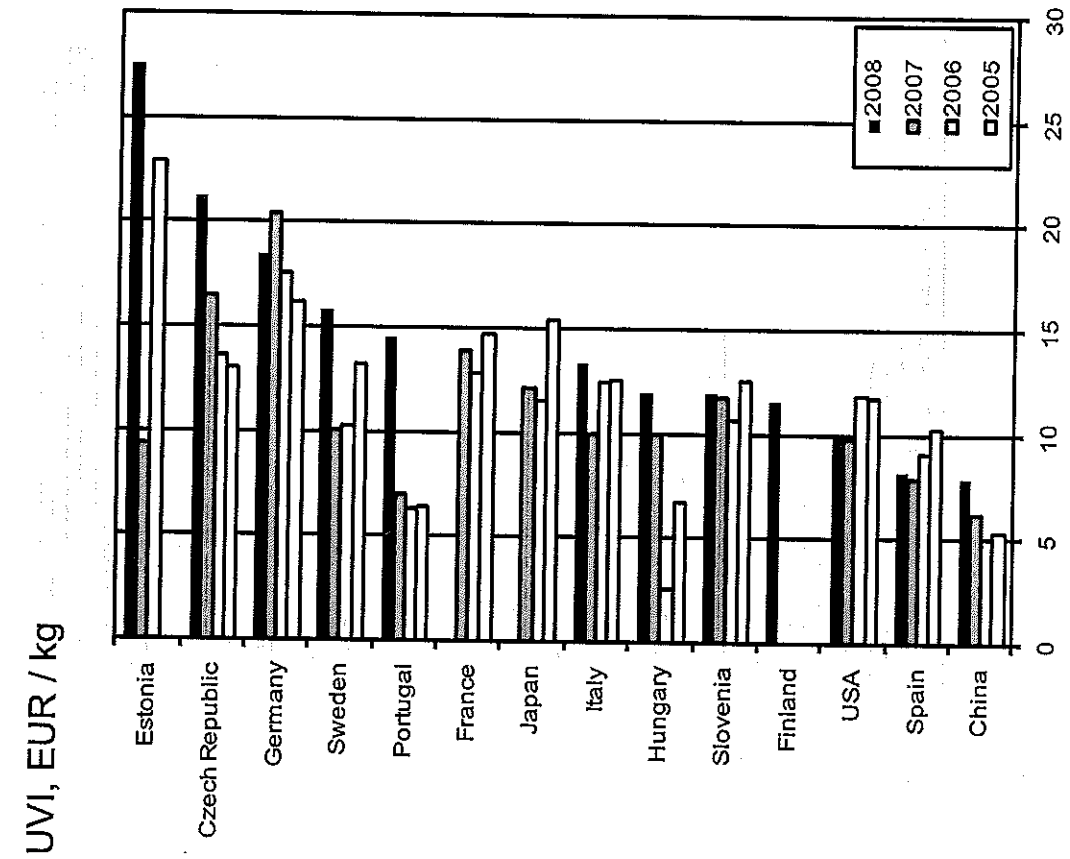
### 3.1.1.11. Dies Apparent Market – EUR million



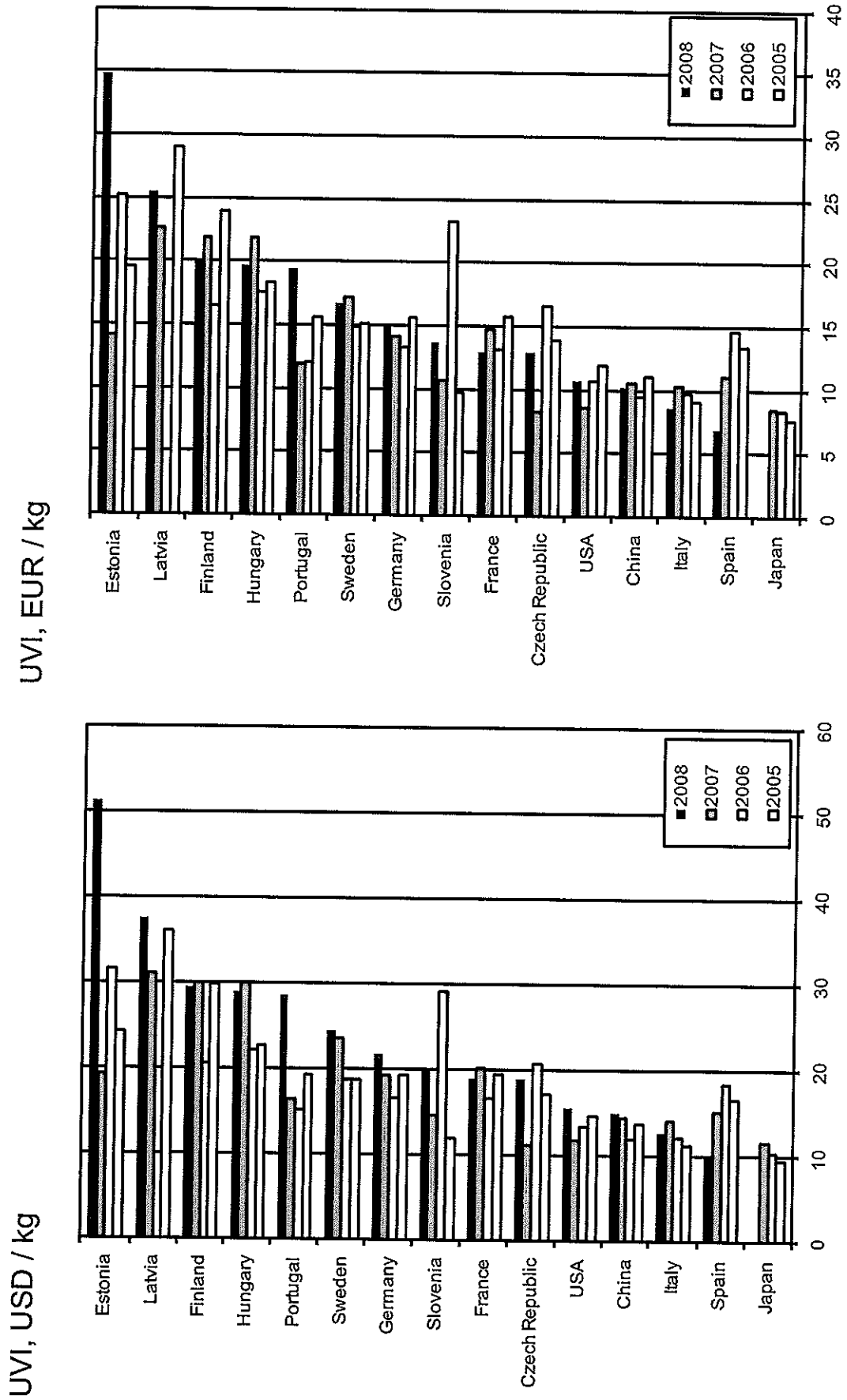
### 3.1.1.12. Dies Unit Value Indices – Production



### 3.1.1.13. Dies Unit Value Indices - Exports



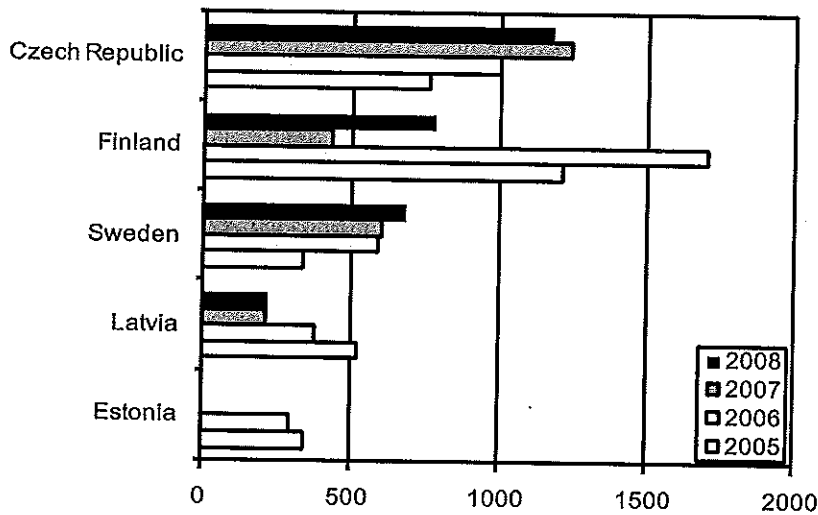
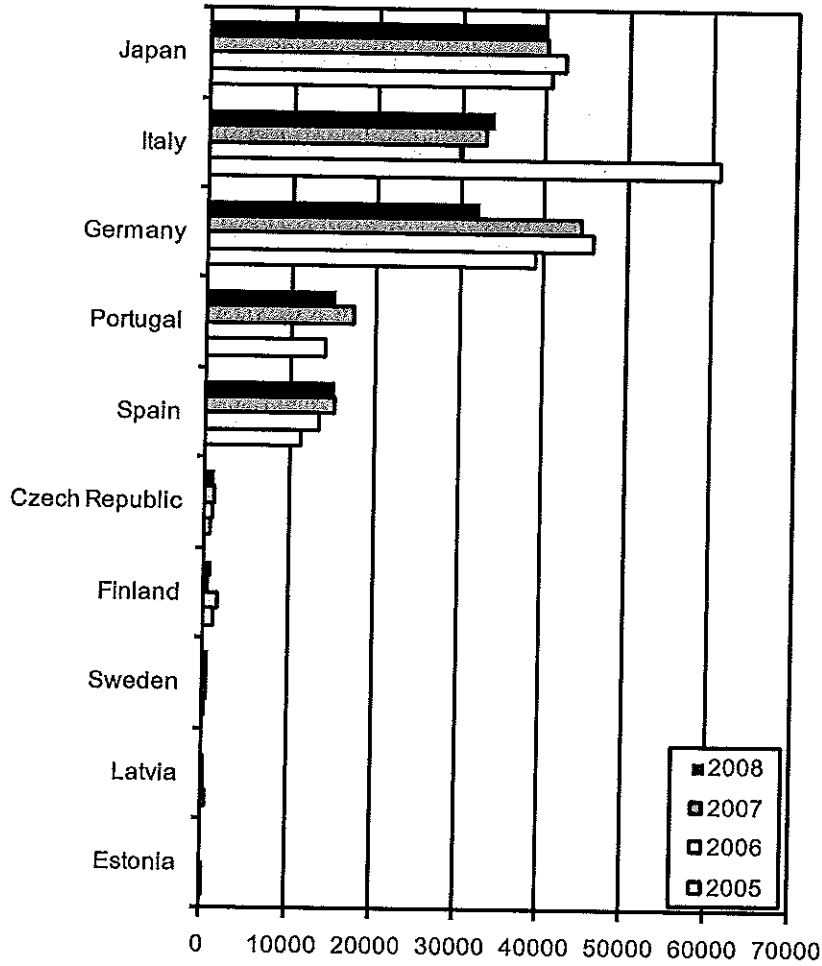
### 3.1.1.14. Dies Unit Value Indices - Imports

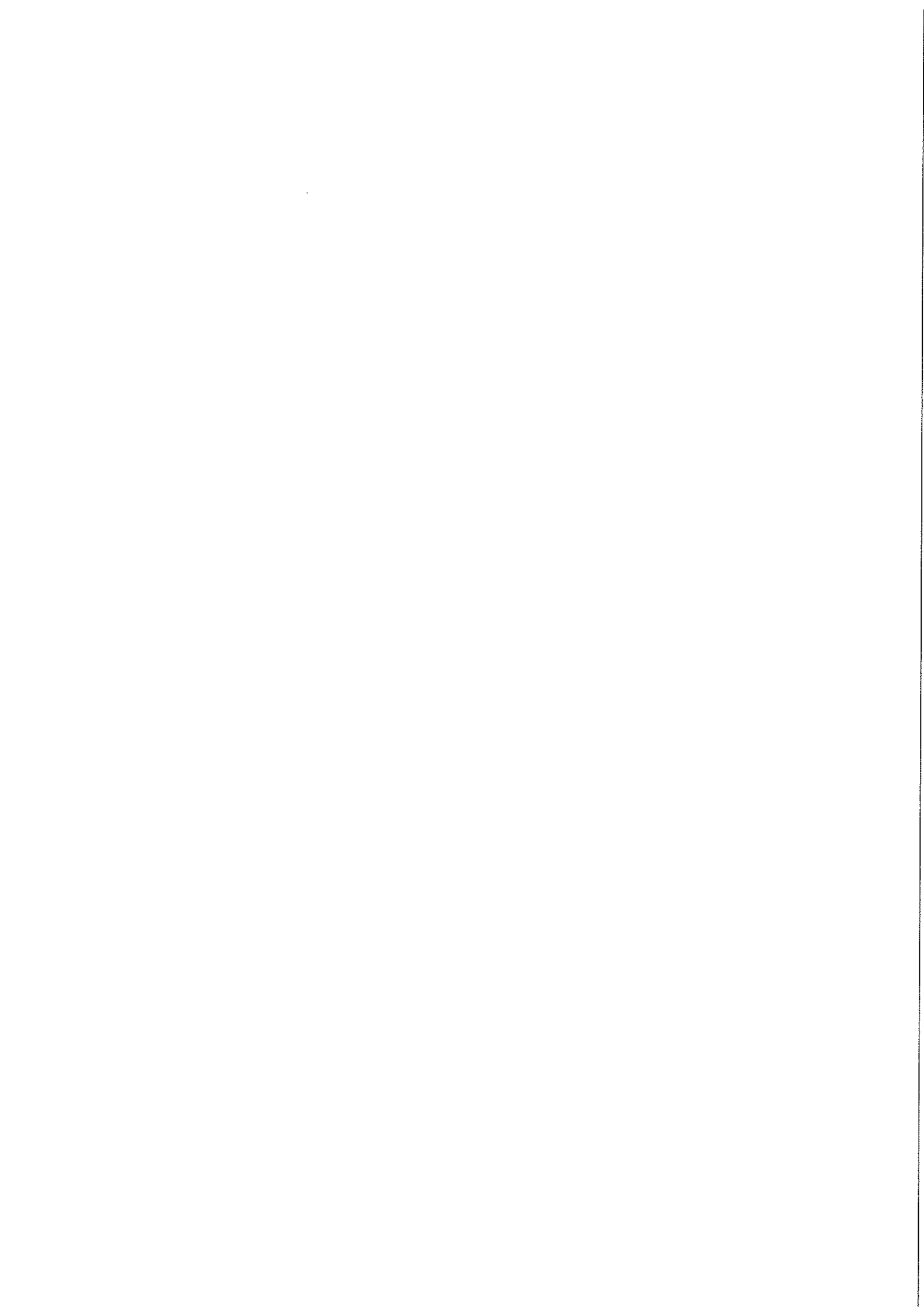


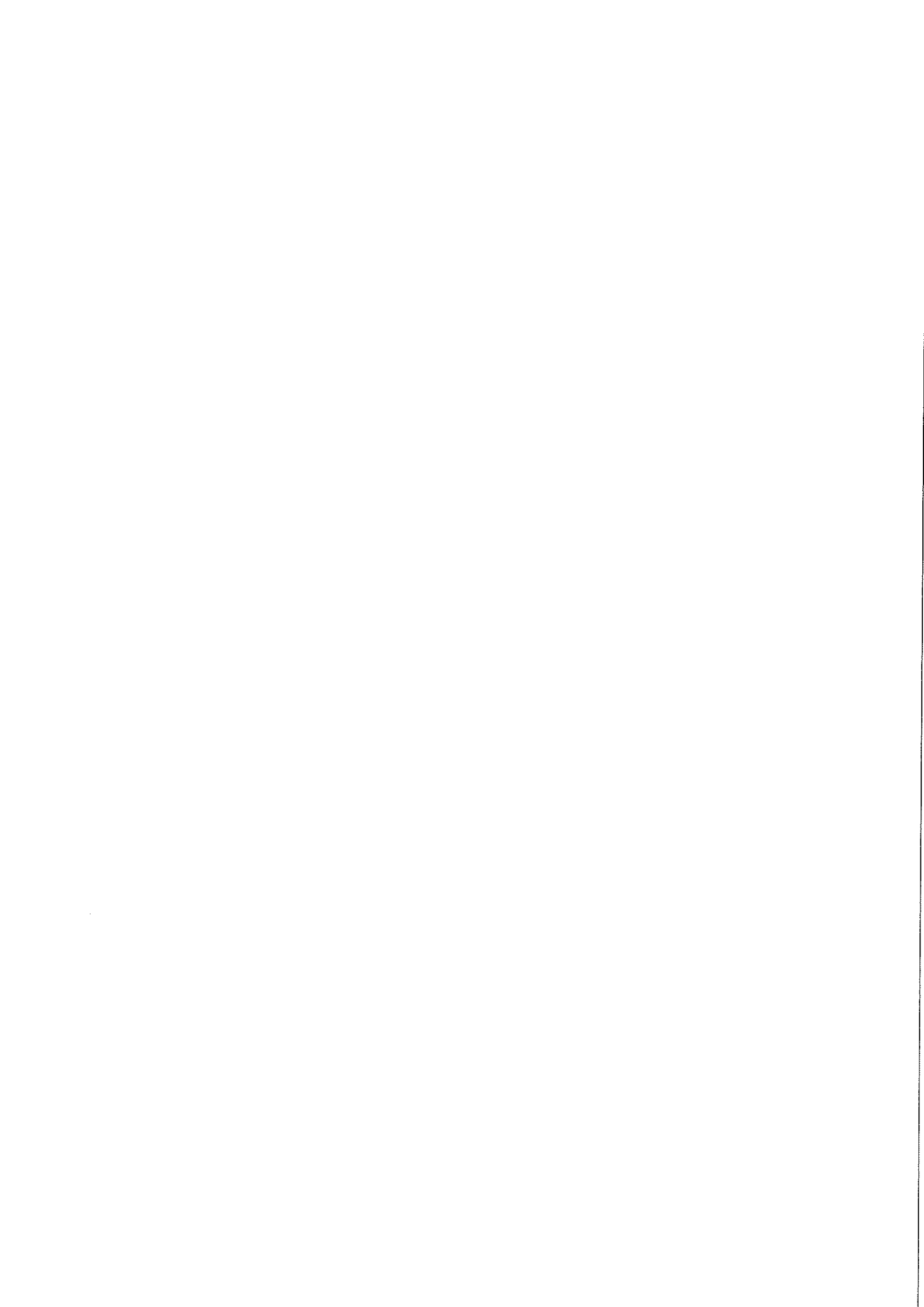


### 3.1.2. Moulds for Plastic and Rubber

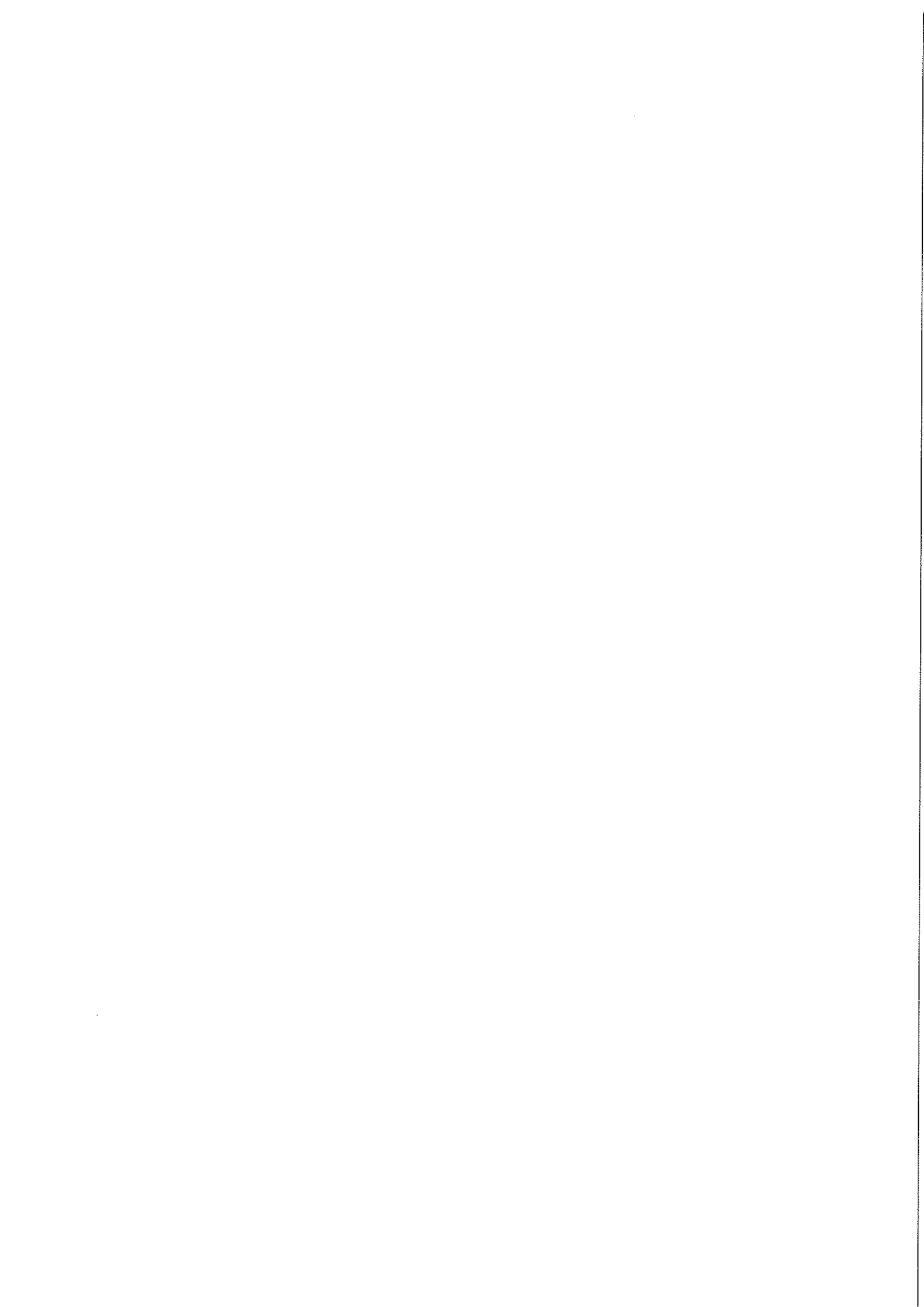
### 3.1.2.1. Moulds for Plastic and Rubber Production – Weight, 1000 kg





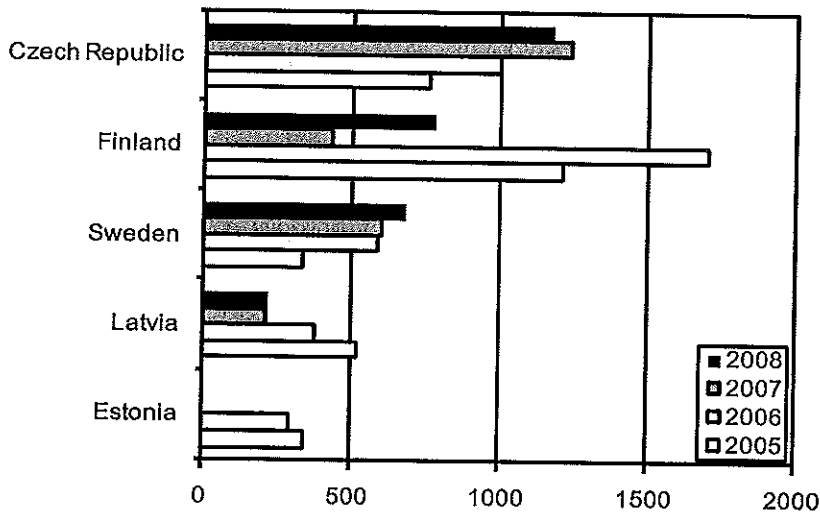
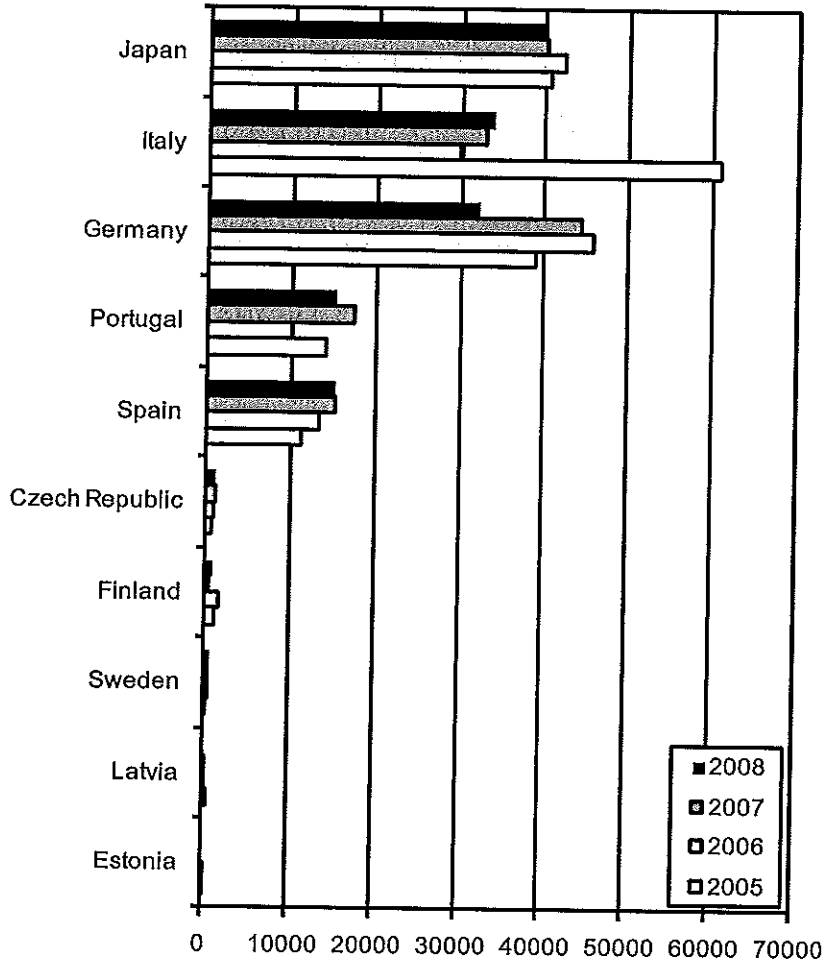


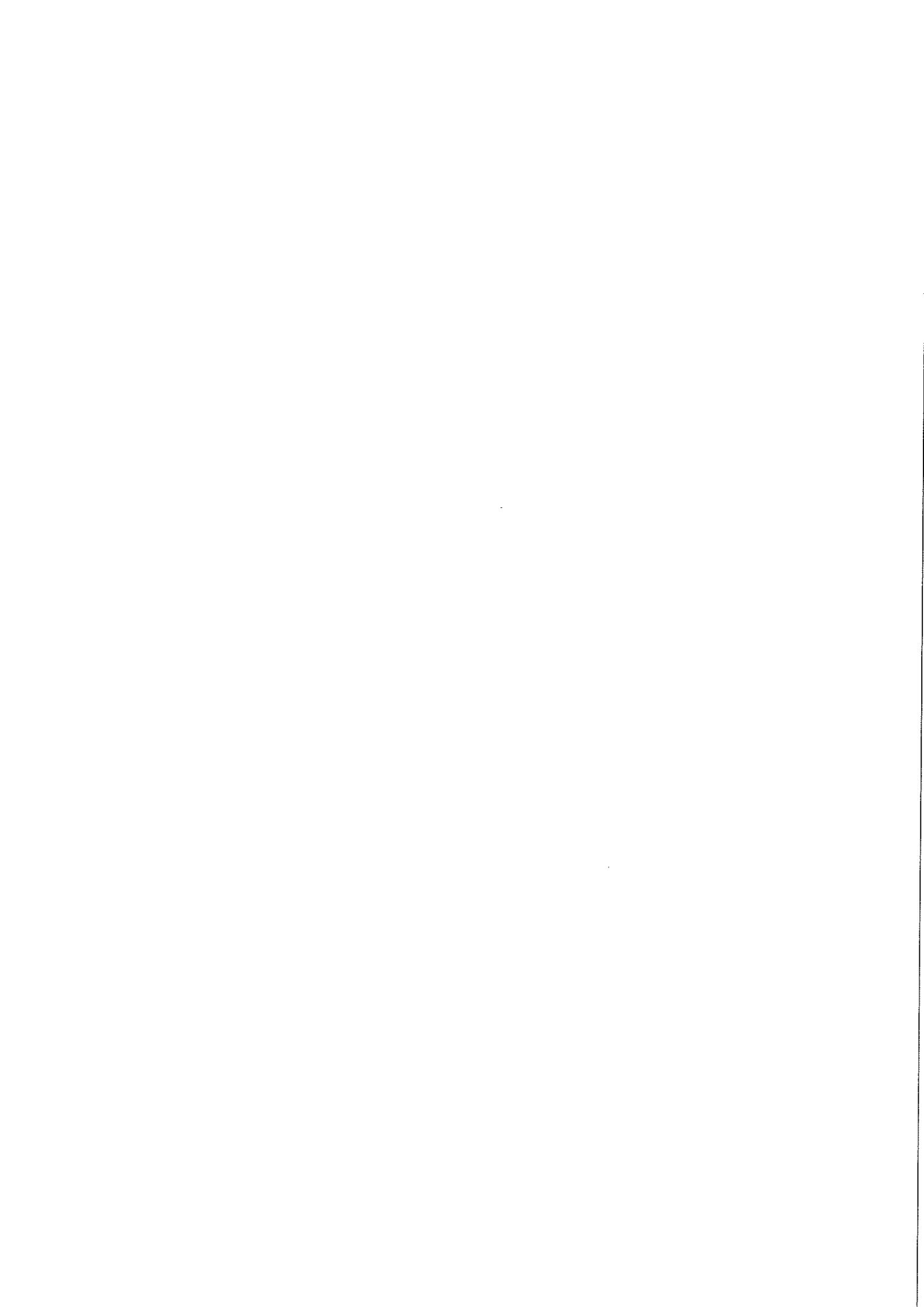


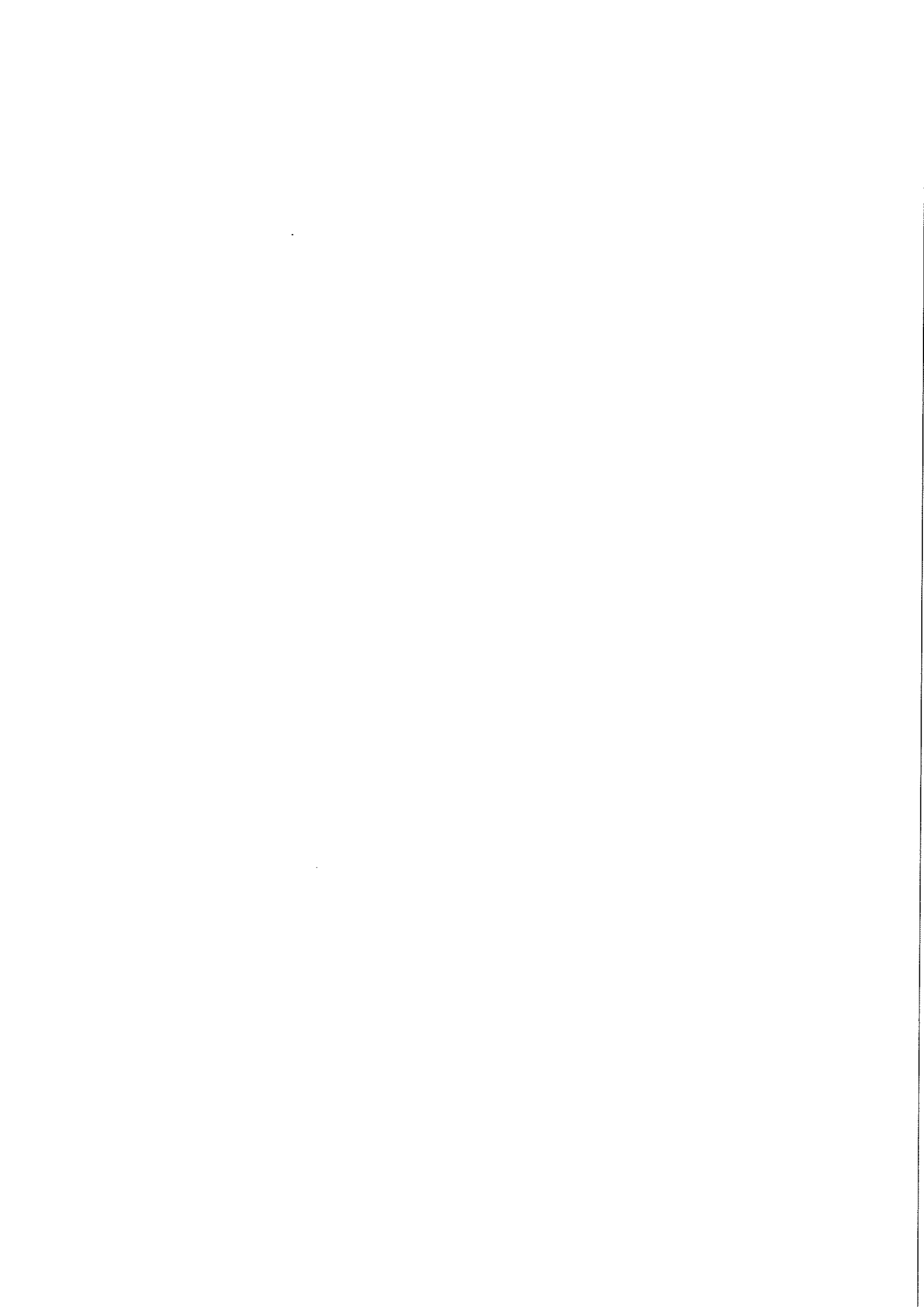


### 3.1.2. Moulds for Plastic and Rubber

### 3.1.2.1. Moulds for Plastic and Rubber Production – Weight, 1000 kg

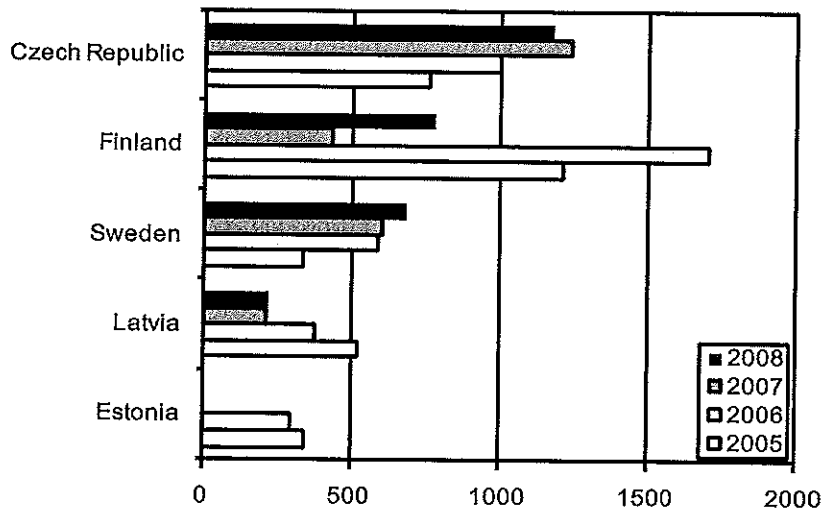
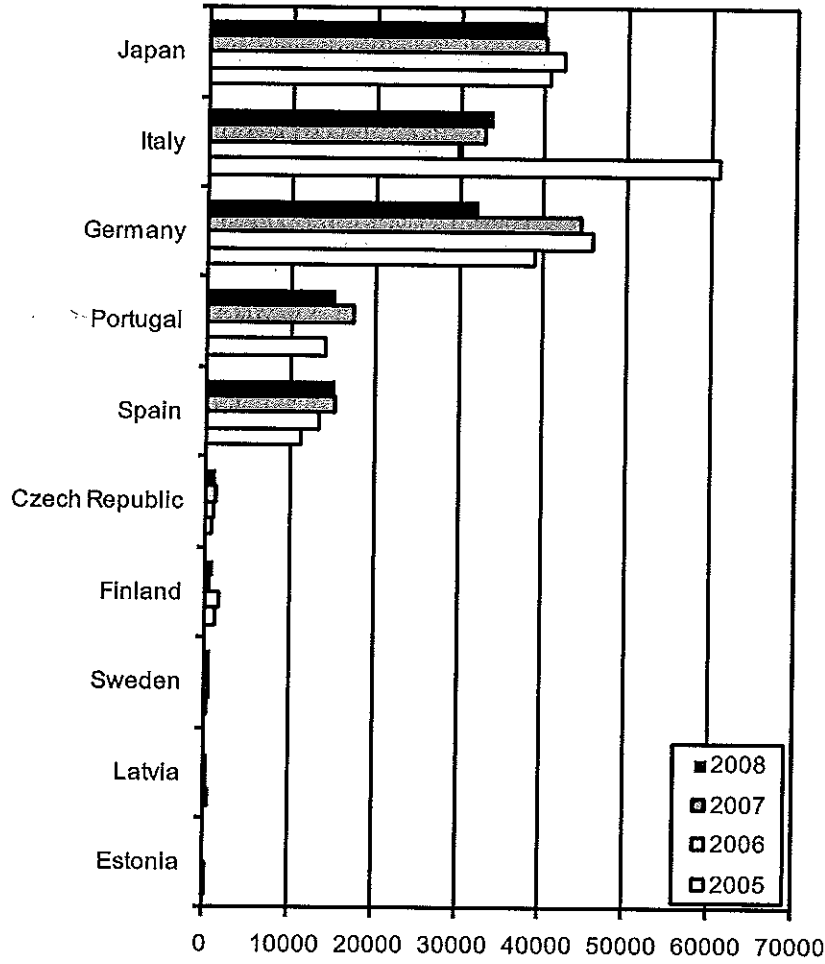




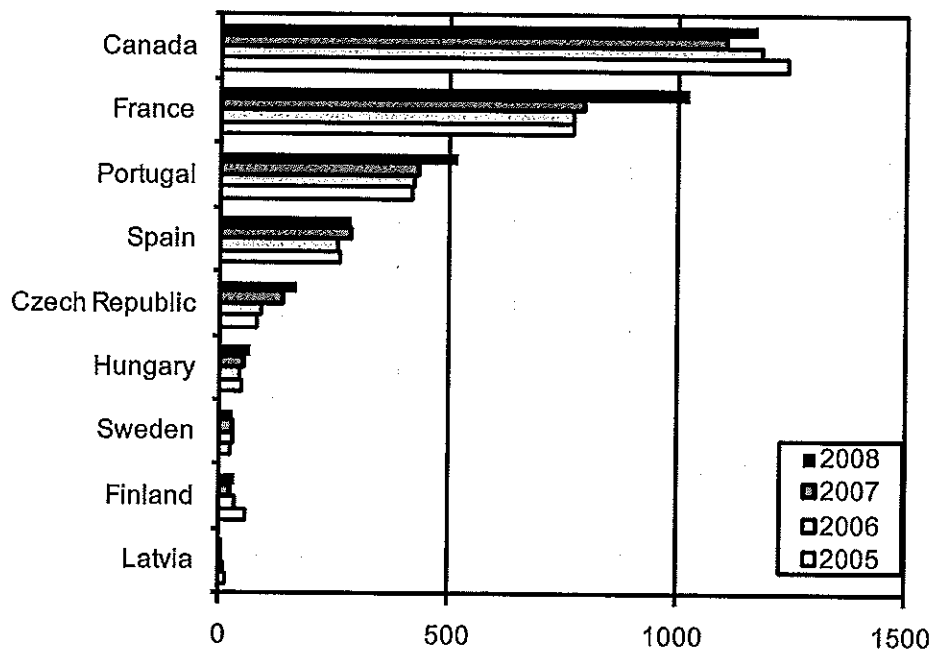
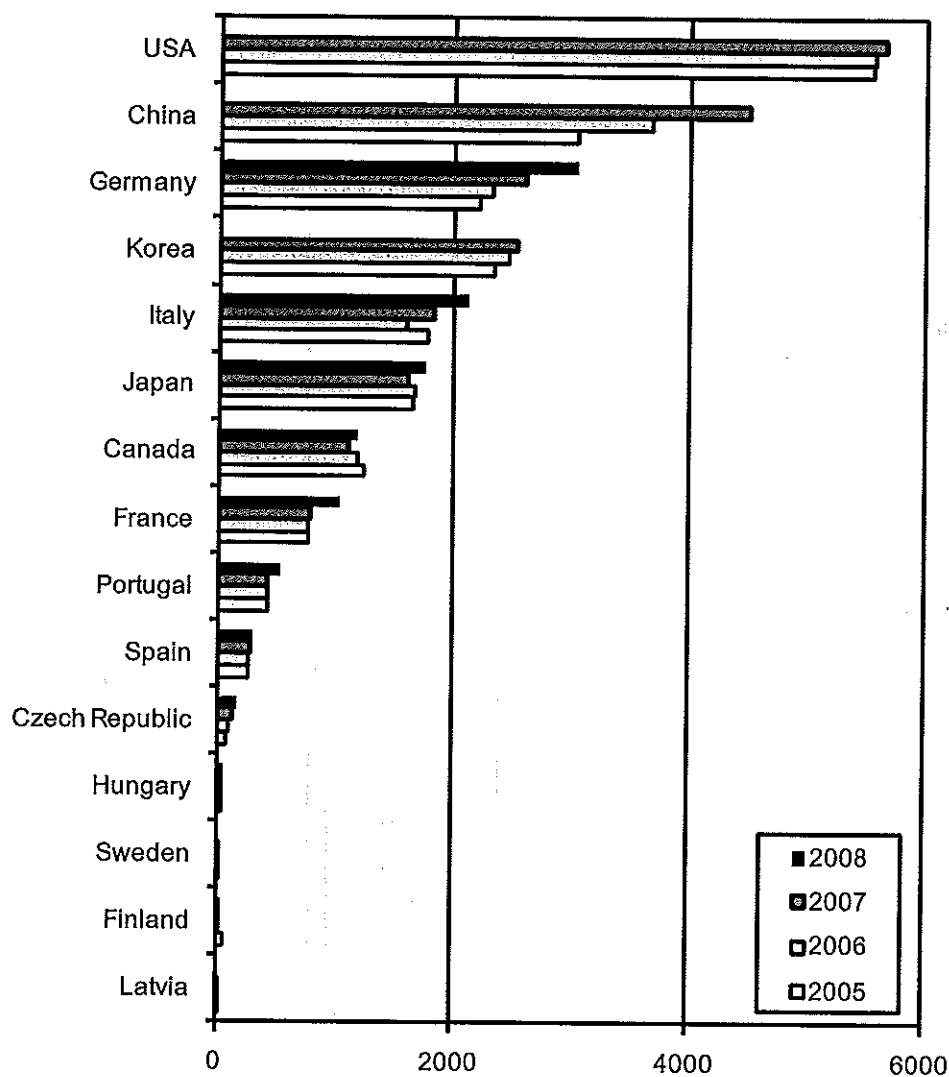


### **3.1.2. Moulds for Plastic and Rubber**

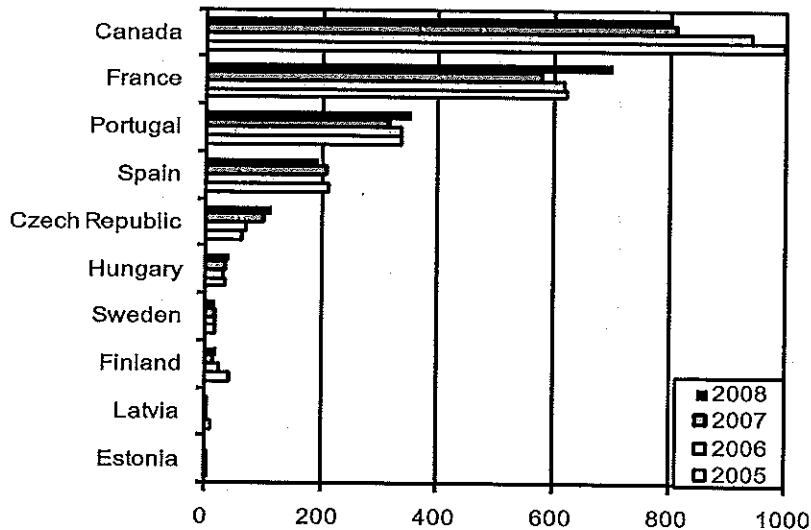
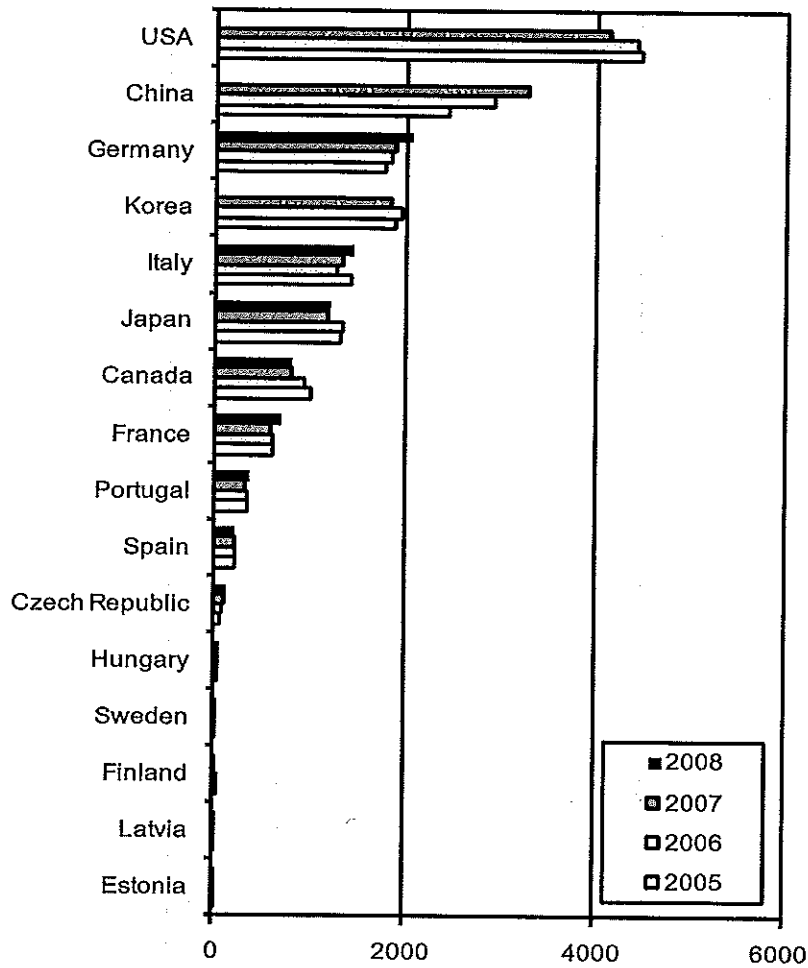
### 3.1.2.1. Moulds for Plastic and Rubber Production – Weight, 1000 kg



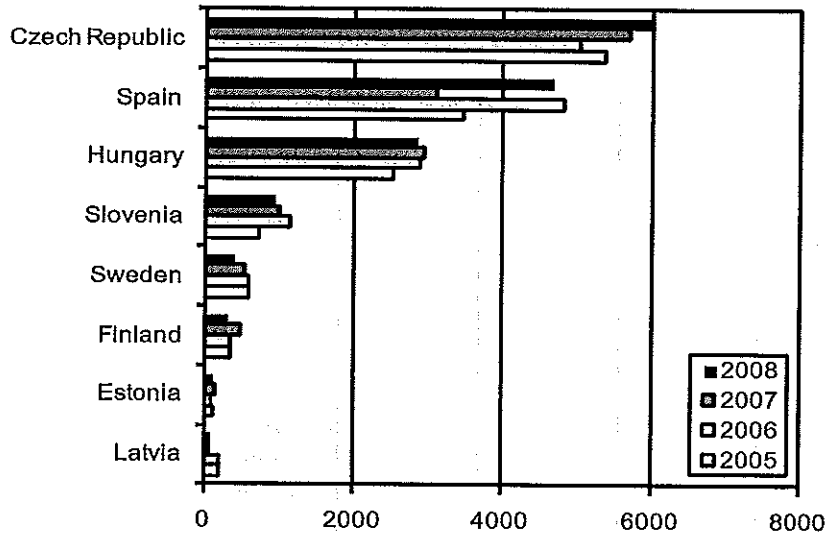
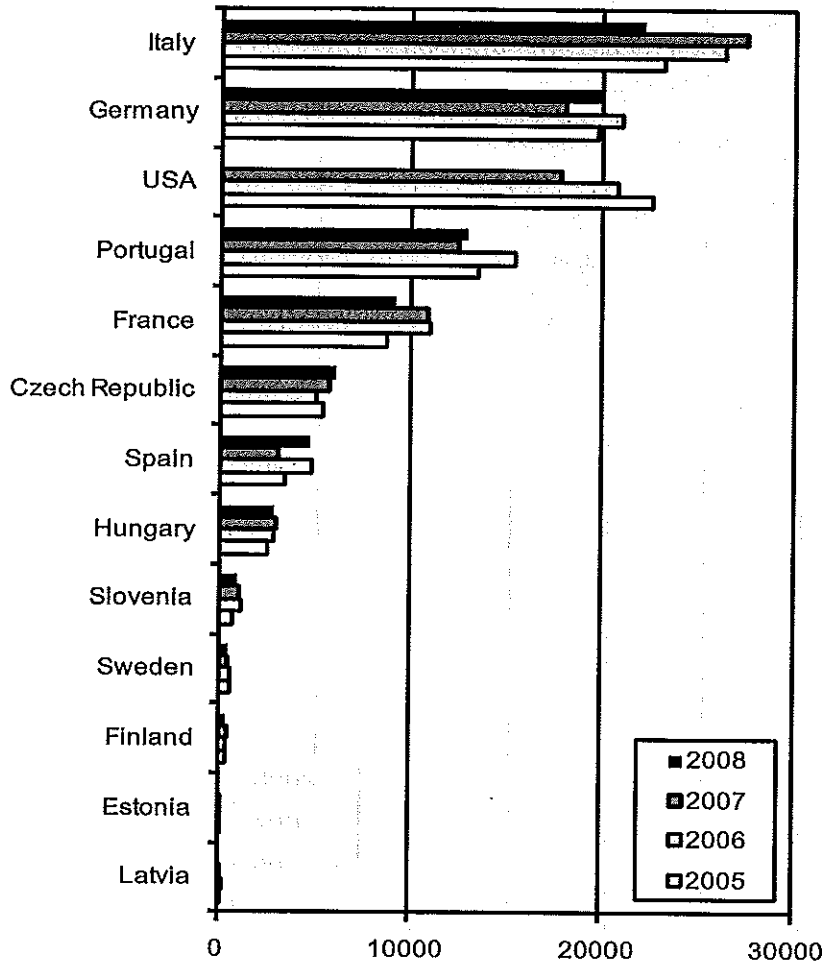
### 3.1.2.2 Moulds for Plastic and Rubber Production USD million



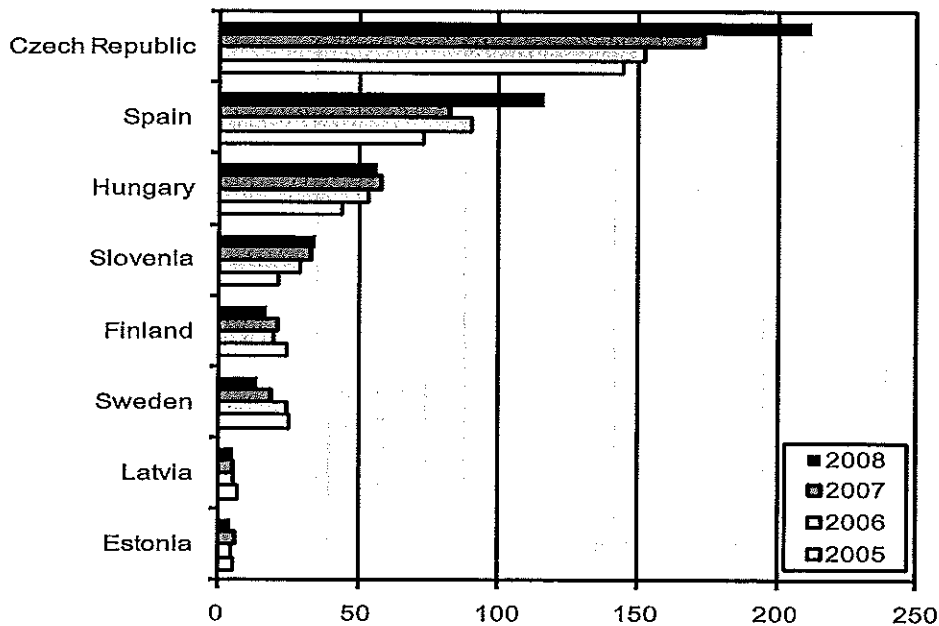
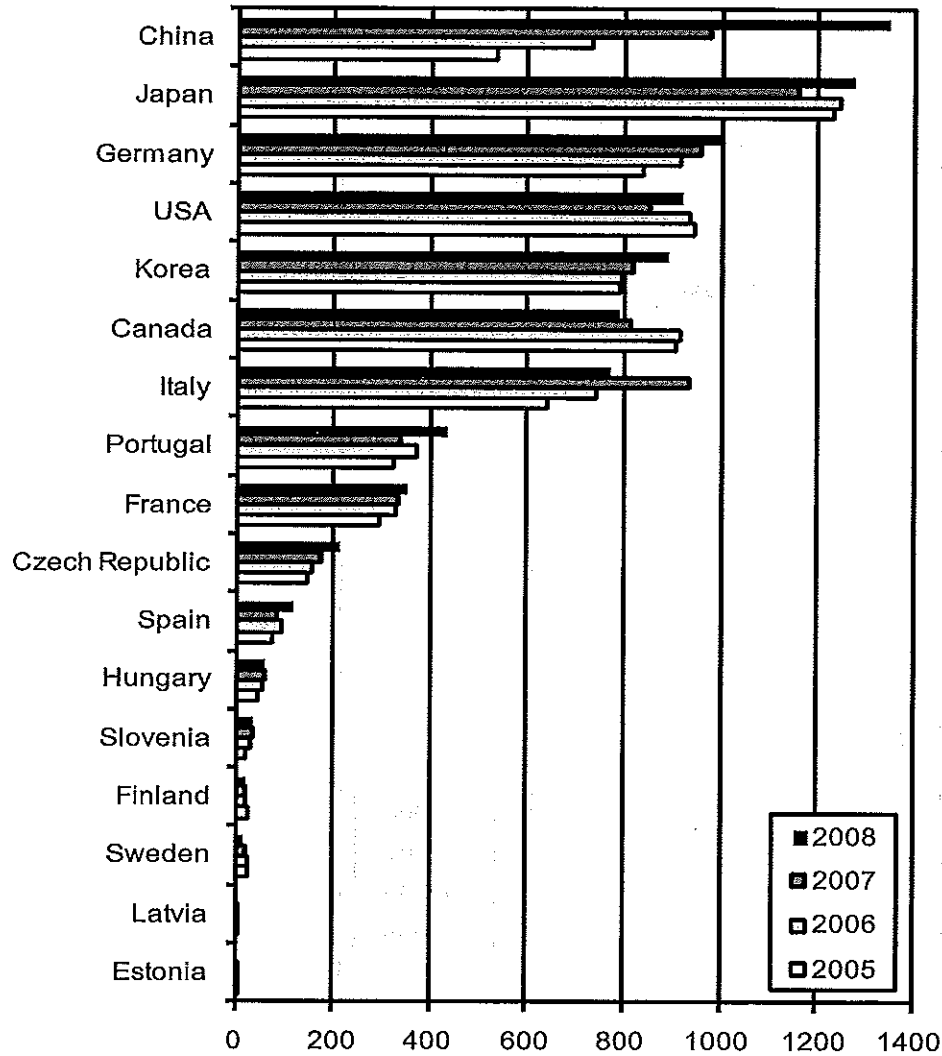
### 3.1.2.3. Moulds for Plastic and Rubber Production – EUR million



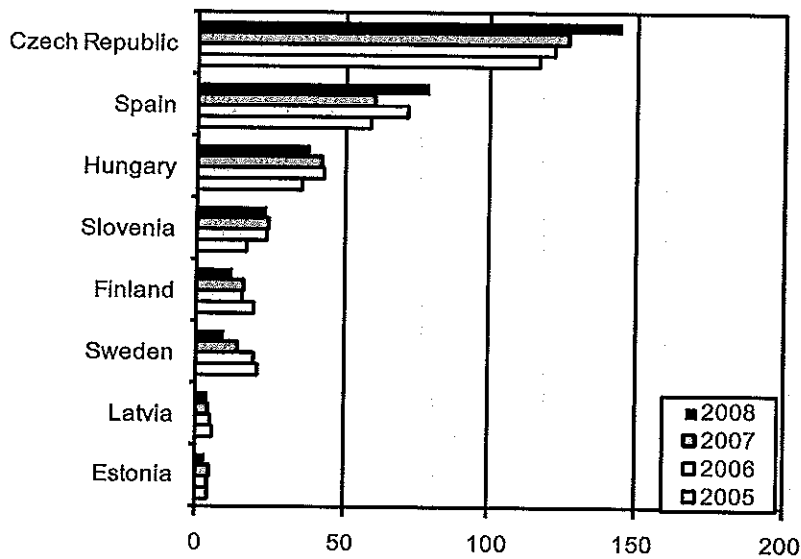
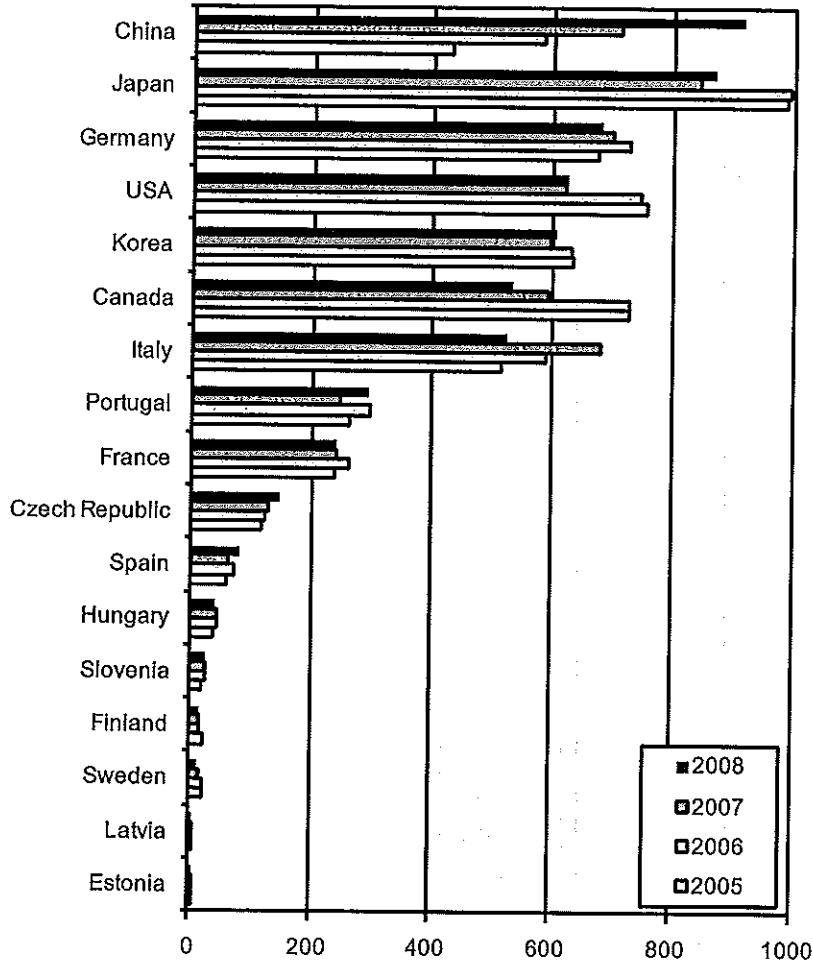
### 3.1.2.4. Moulds for Plastic and Rubber Exports – Weight, 1000 kg



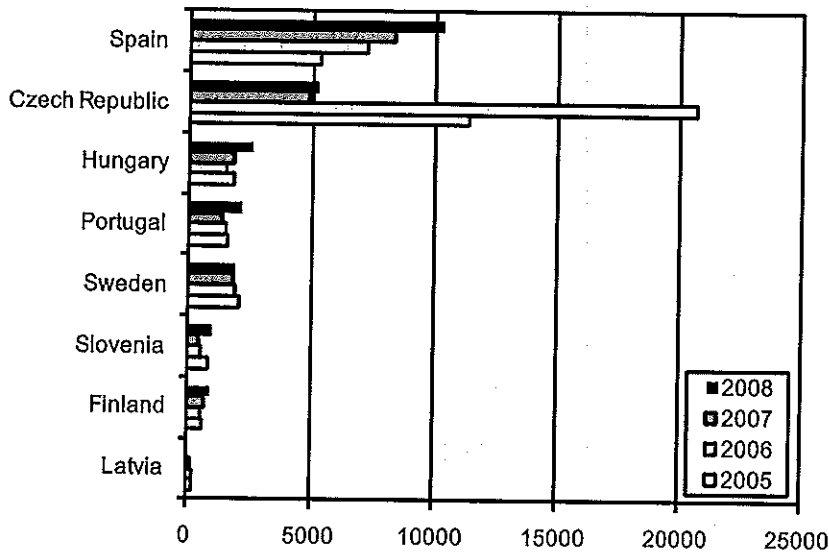
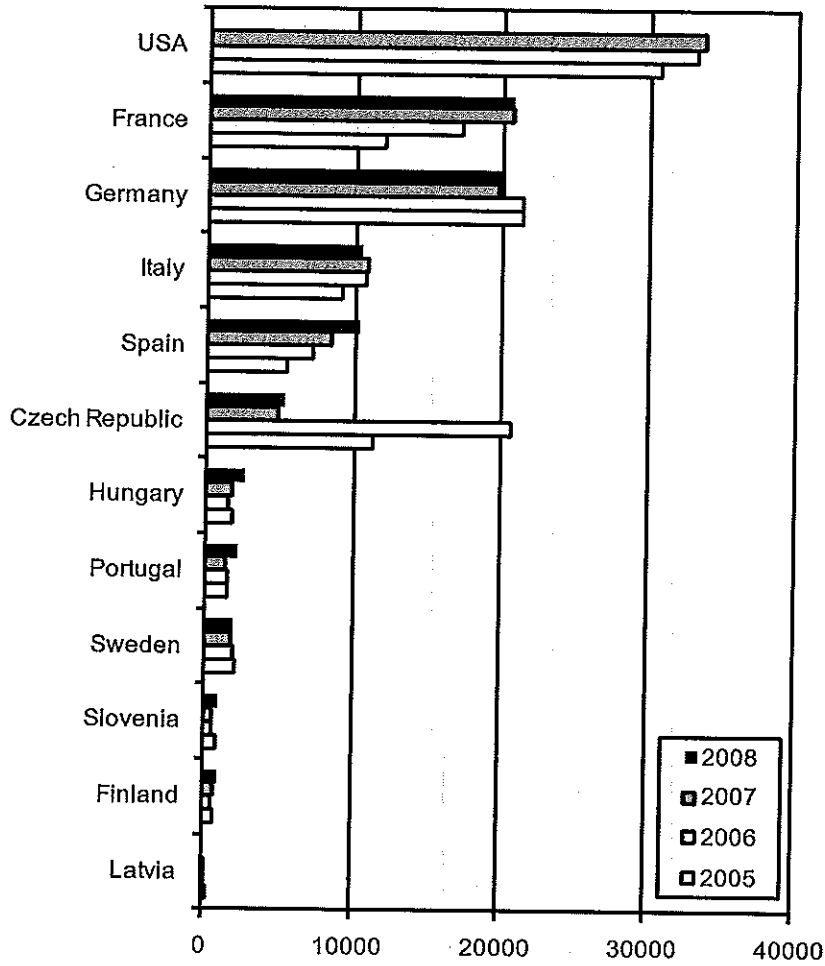
### 3.1.2.5 Moulds for Plastic and Rubber Export USD million



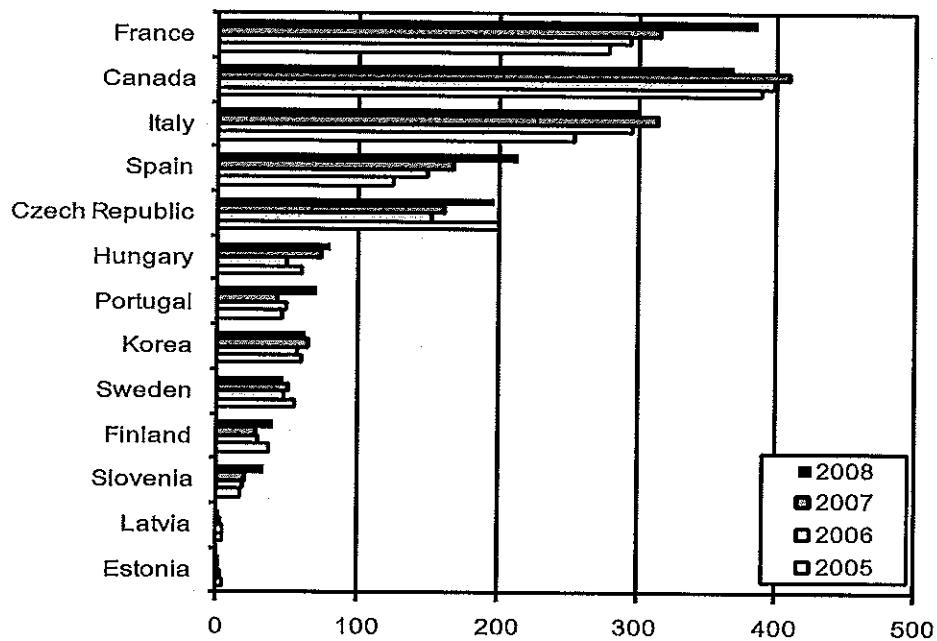
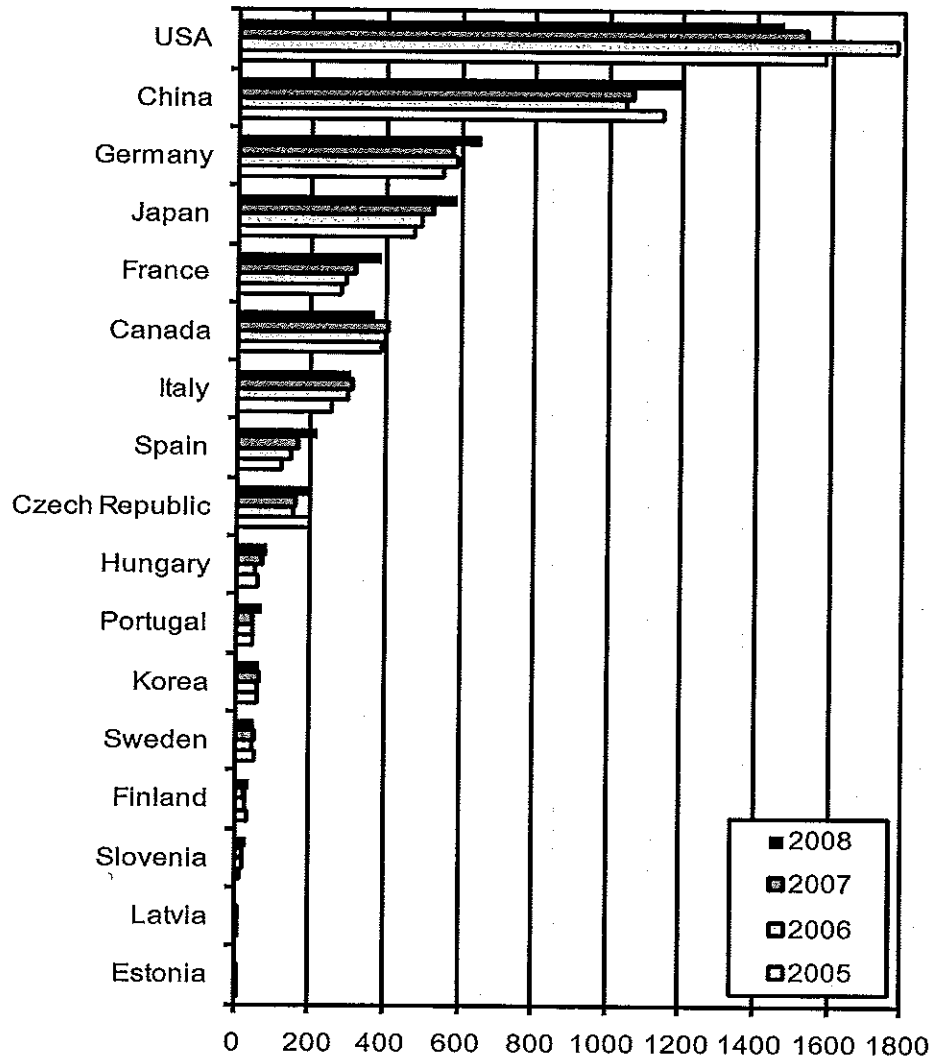
### 3.1.2.6. Moulds for Plastic and Rubber Exports – EUR million



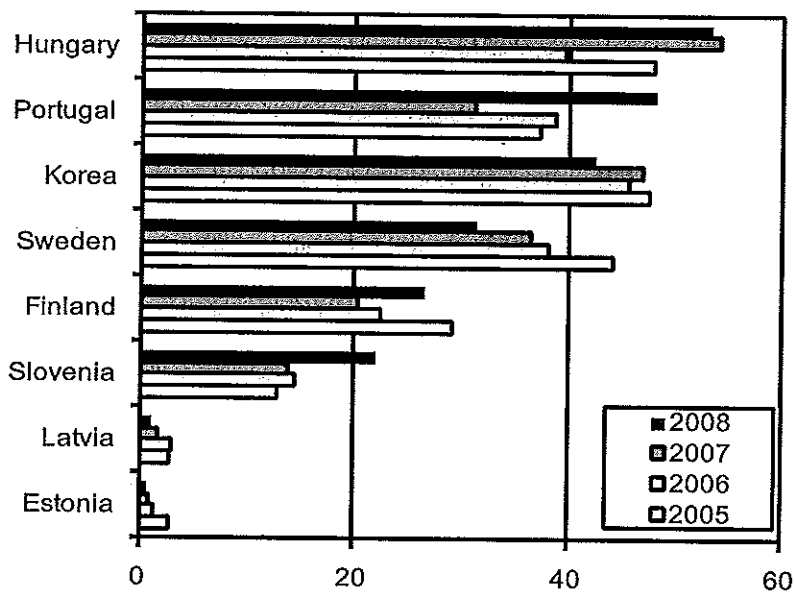
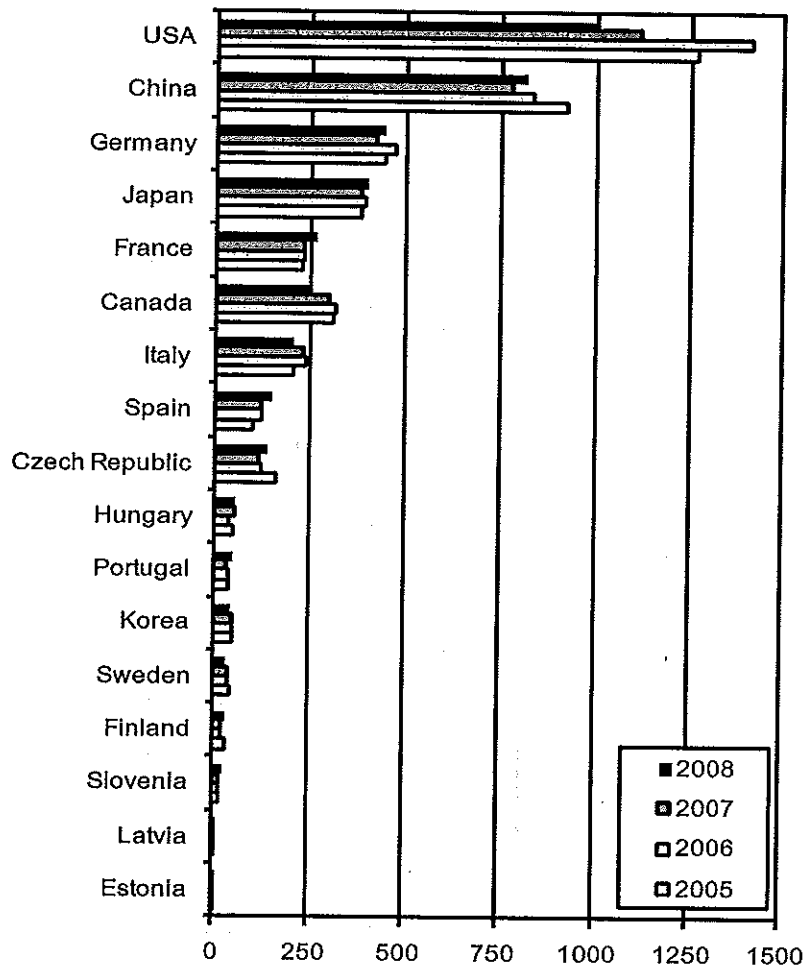
### 3.1.2.7. Moulds for Plastic and Rubber Imports – Weight, 1000 kg



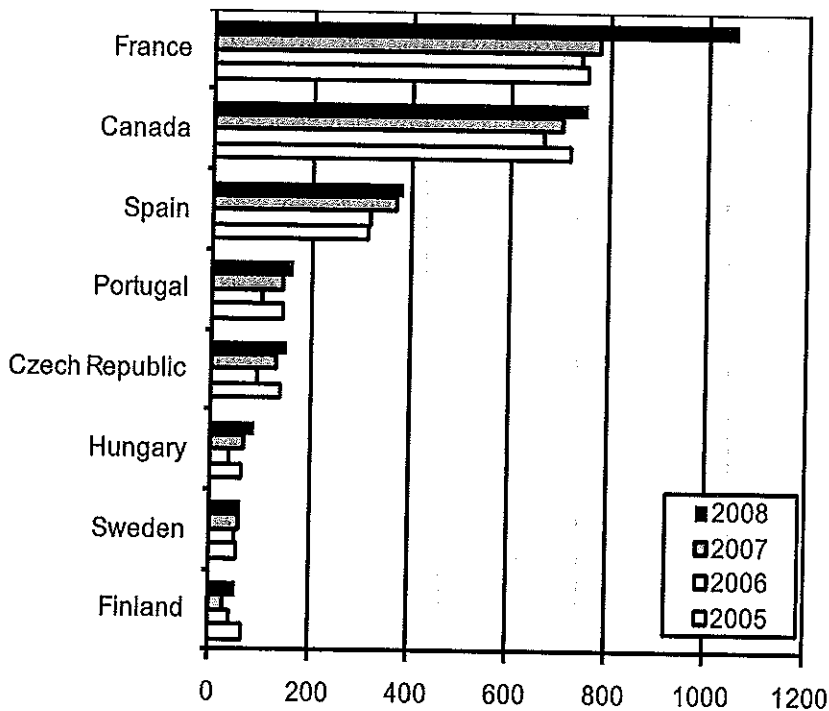
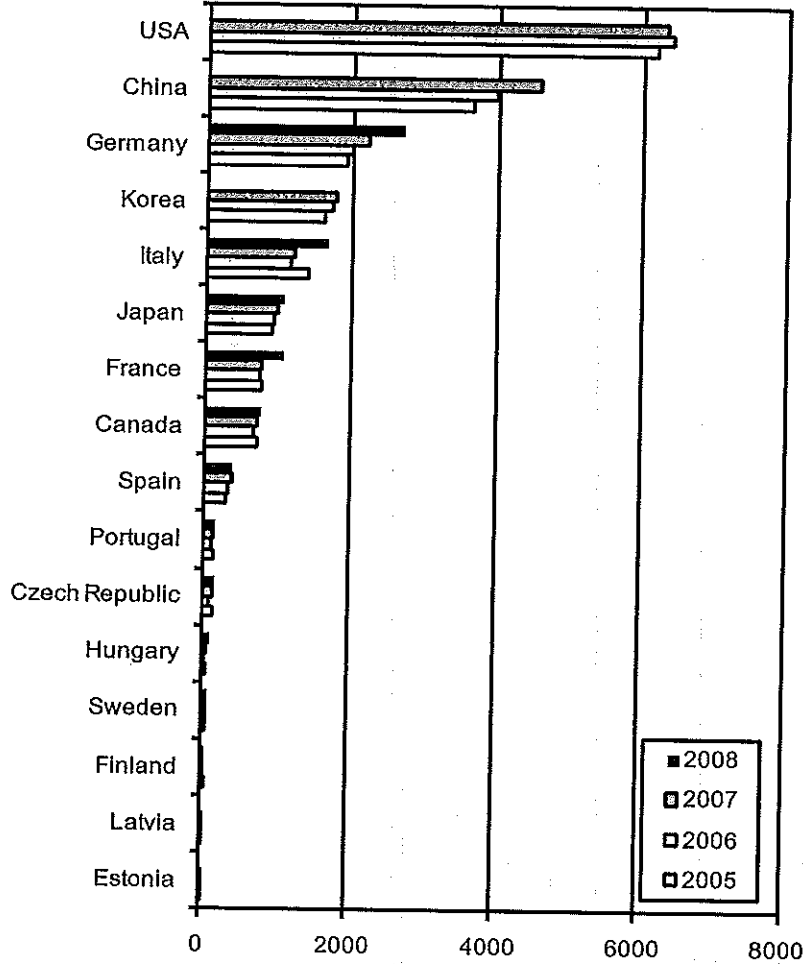
### 3.1.2.8 Moulds for Plastic and Rubber Imports – USD million



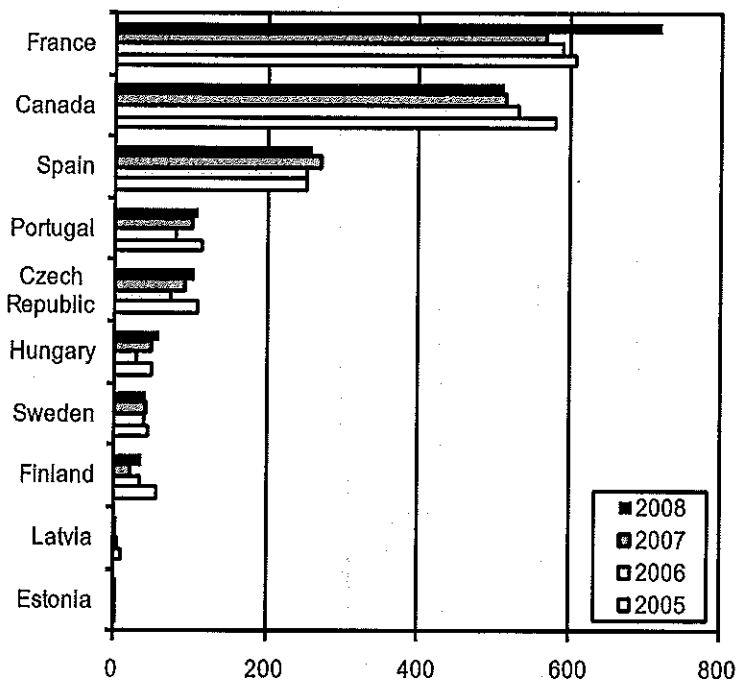
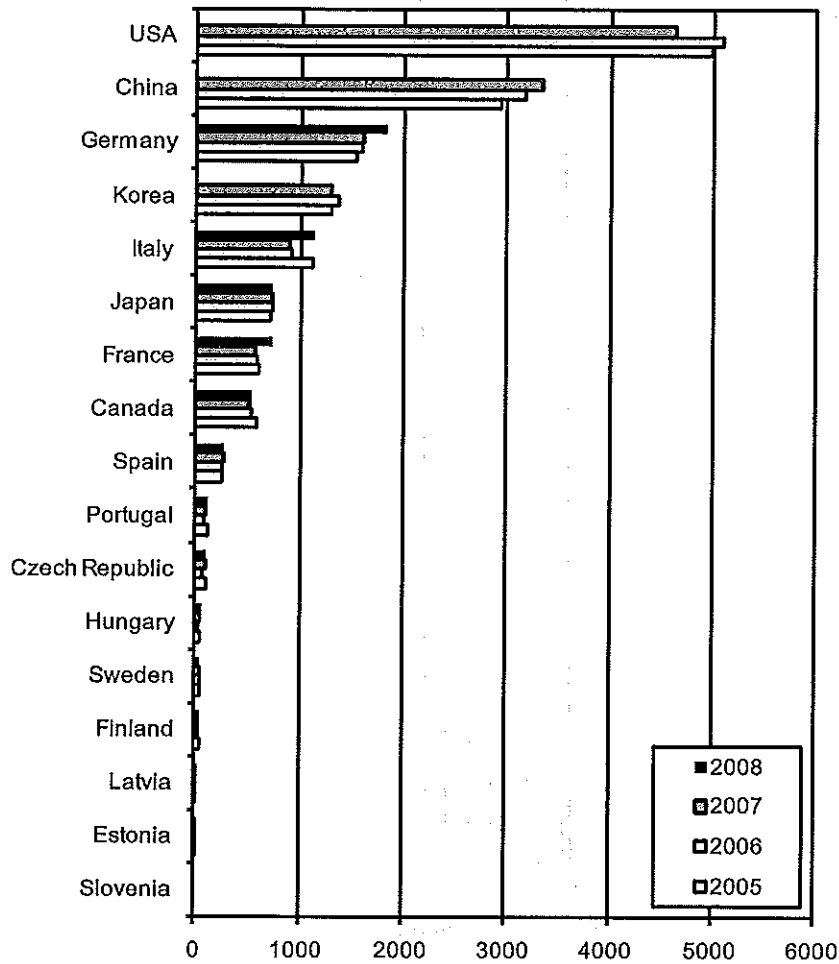
### 3.1.2.9. Moulds for Plastic and Rubber Imports – EUR million



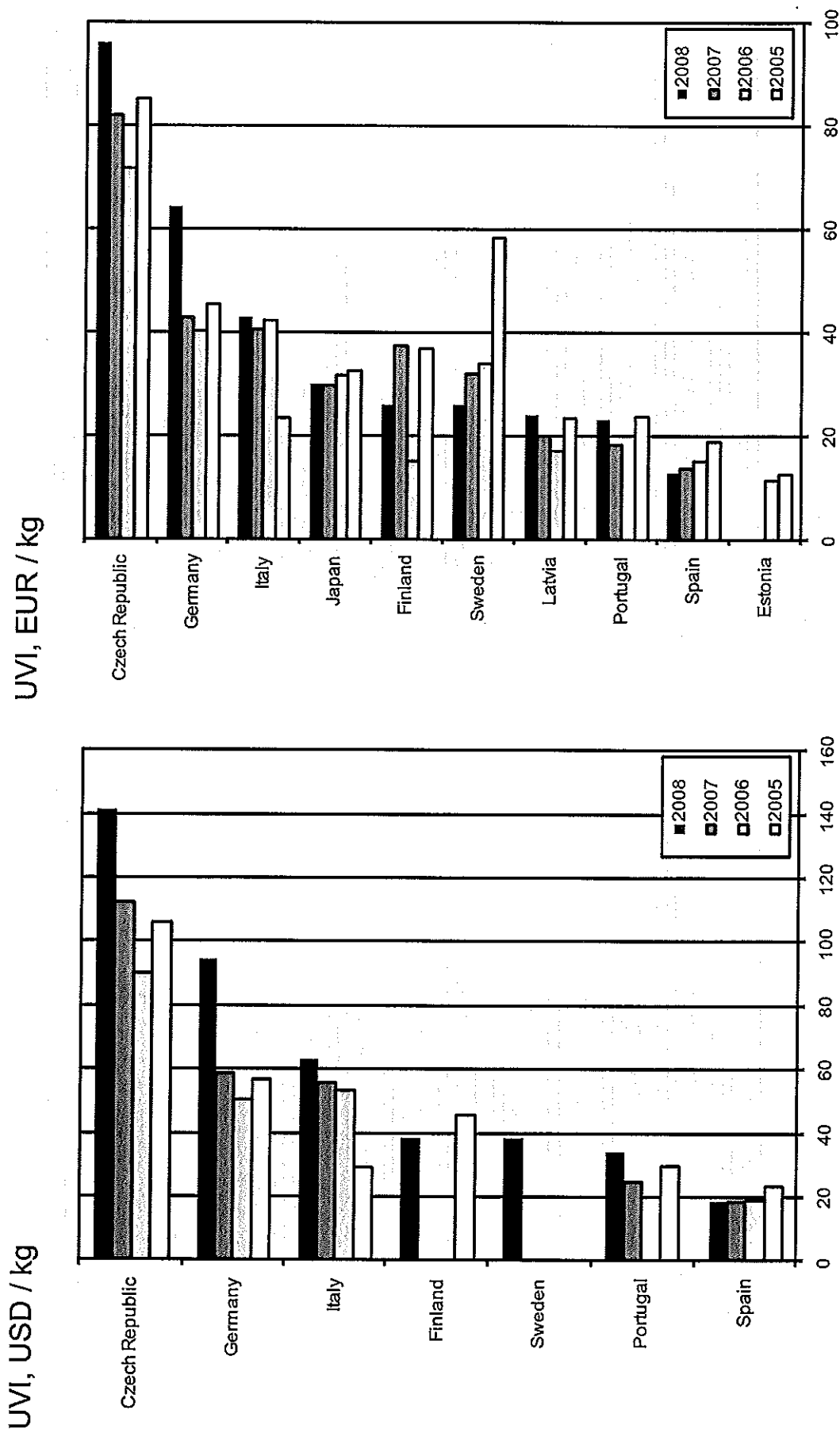
### 3.1.2.10. Moulds for Plastic and Rubber Apparent Market – USD million



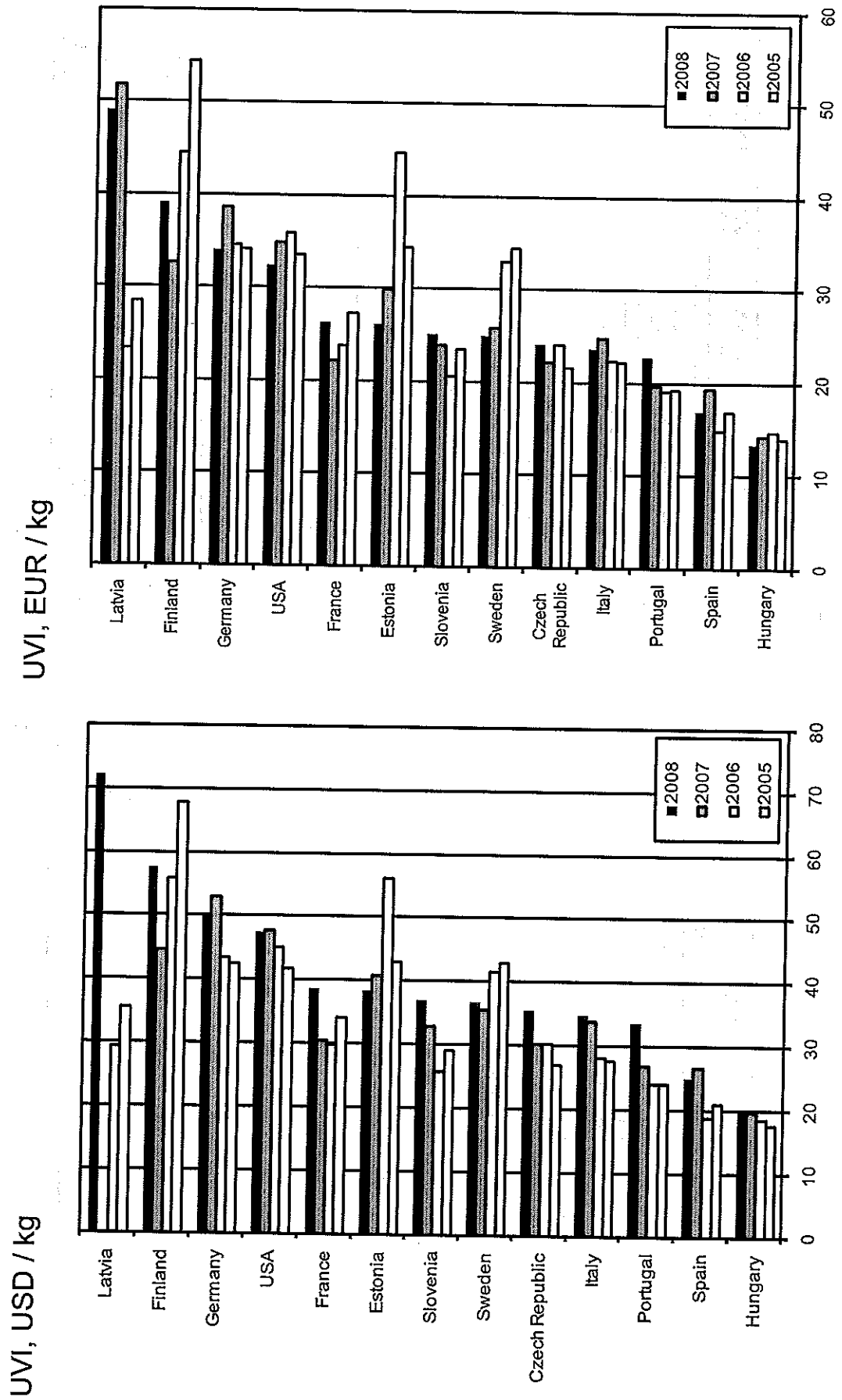
### 3.1.2.11. Moulds for Plastic and Rubber Apparent Market – EUR million



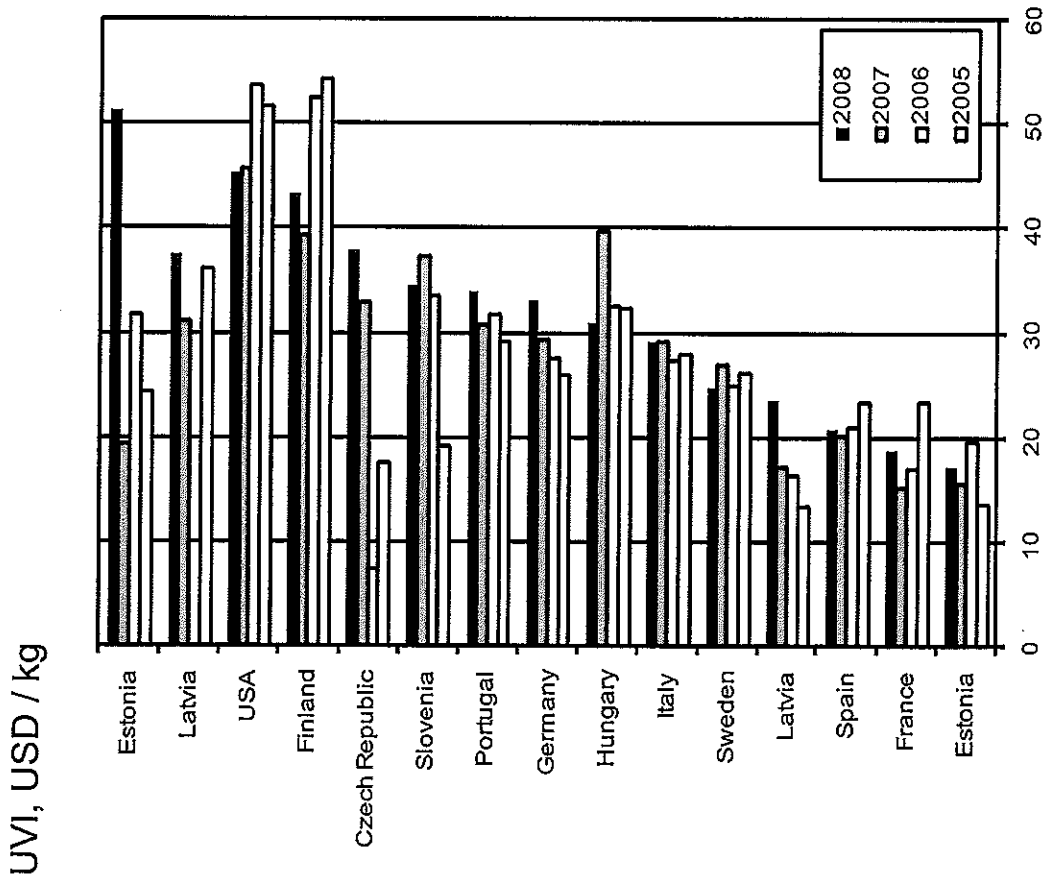
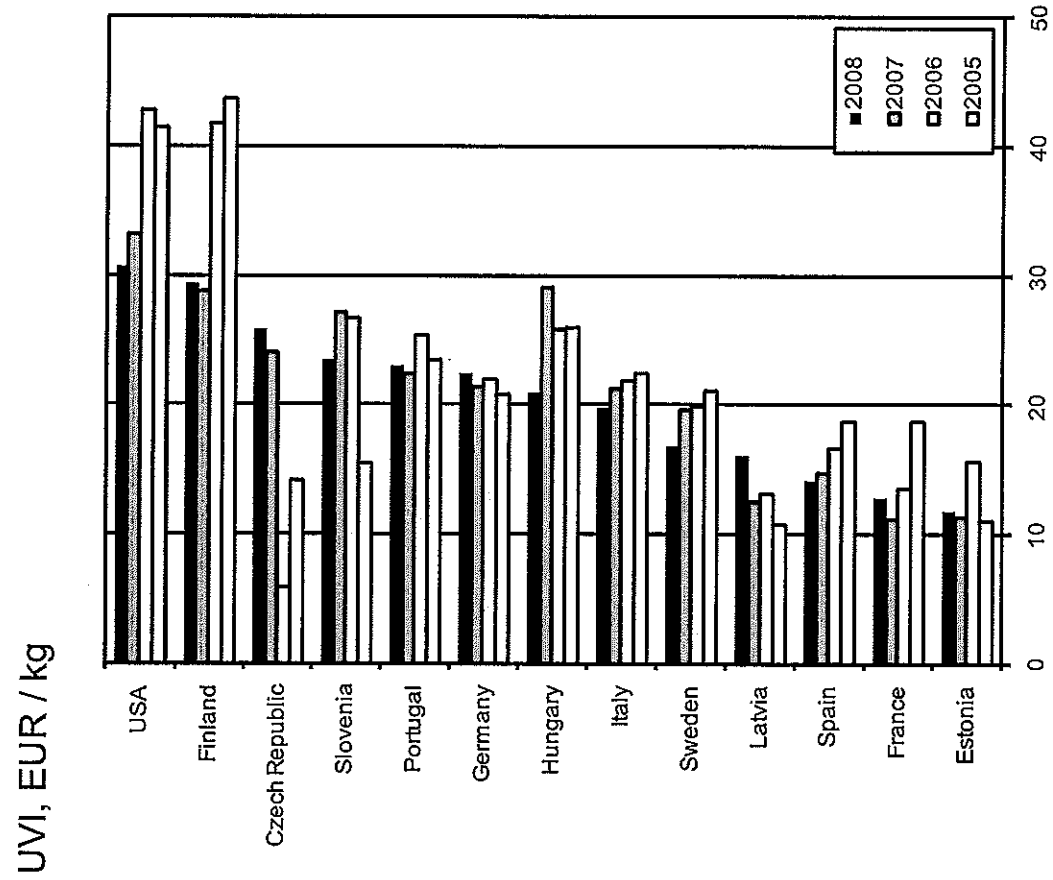
### 3.1.2.12. Moulds for Plastic and Rubber Unit Value Indices - Production



### 3.1.2.13. Moulds for Plastic and Rubber Unit Value Indices -Exports



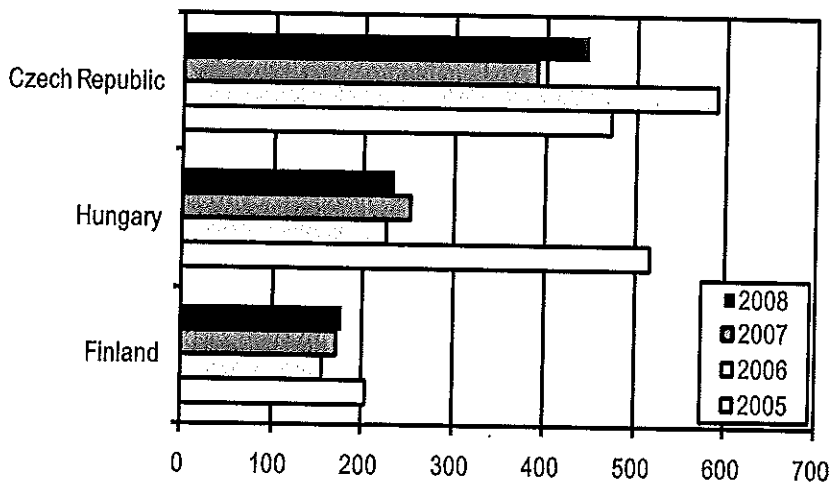
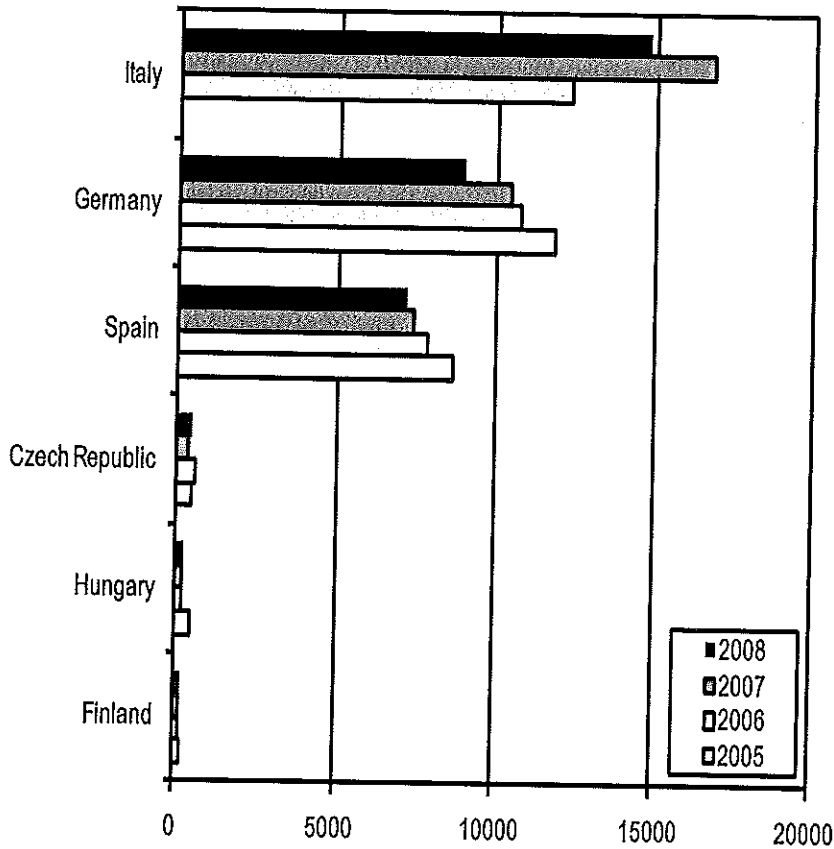
### 3.1.2.14. Moulds for Plastic and Rubber Unit Value Indices - Imports



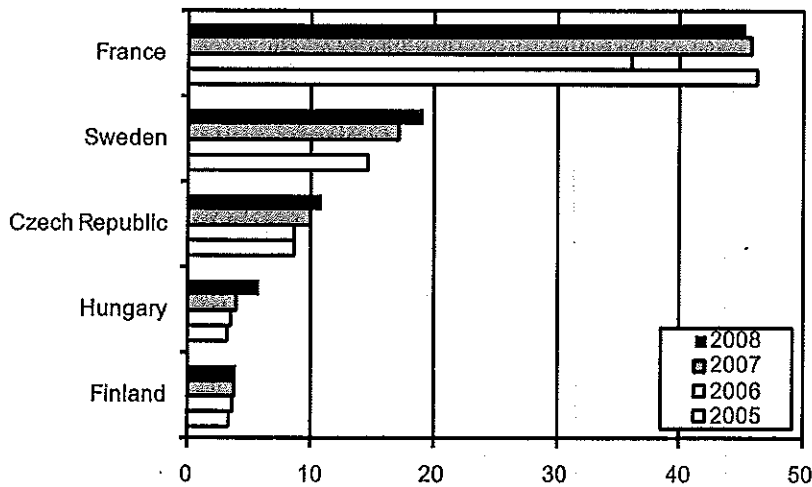
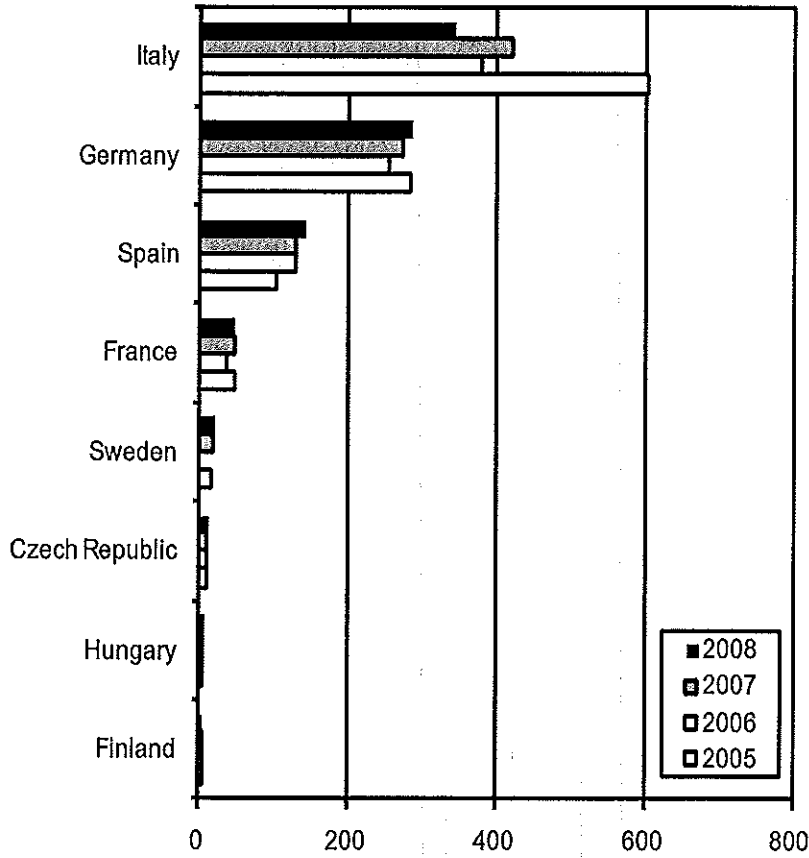


### **3.1.3. Moulds for Metal, Injection and Compression**

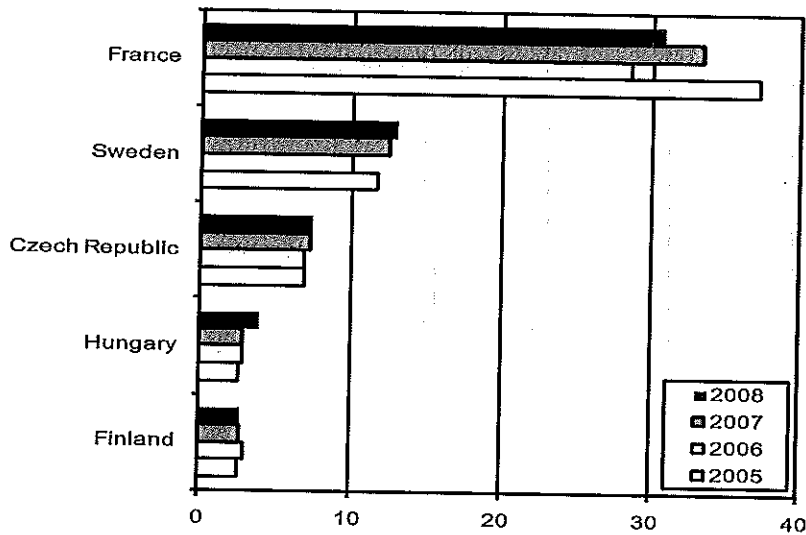
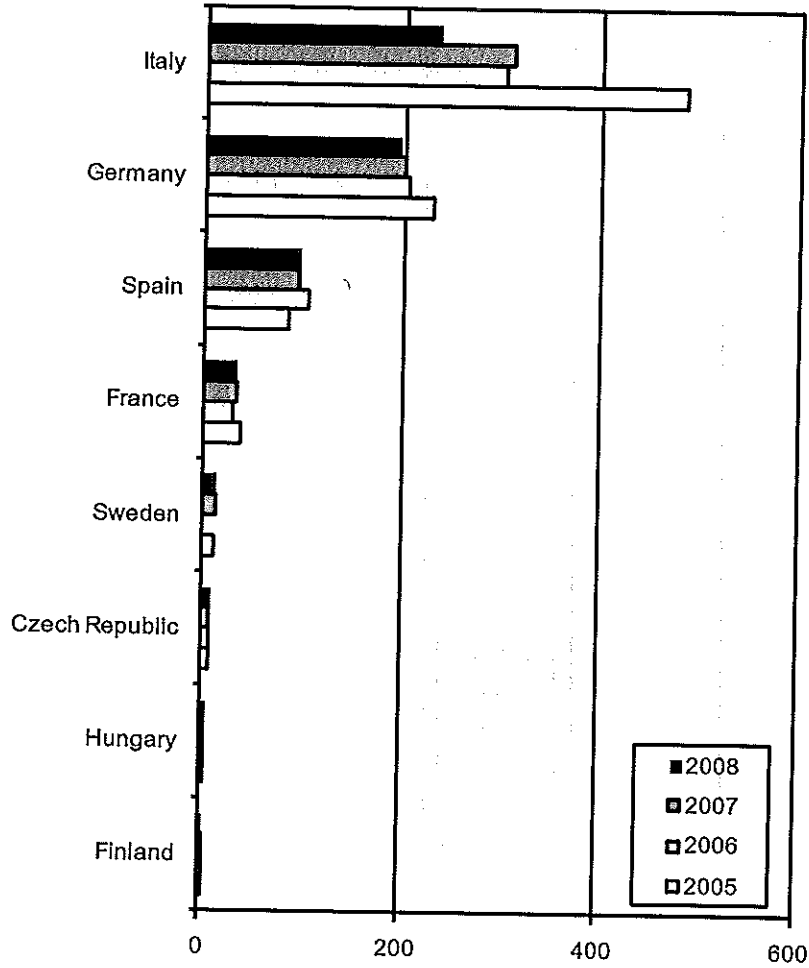
### 3.1.3.1. Moulds for Metal, Injection and Compression Production – Weight, 1000 kg



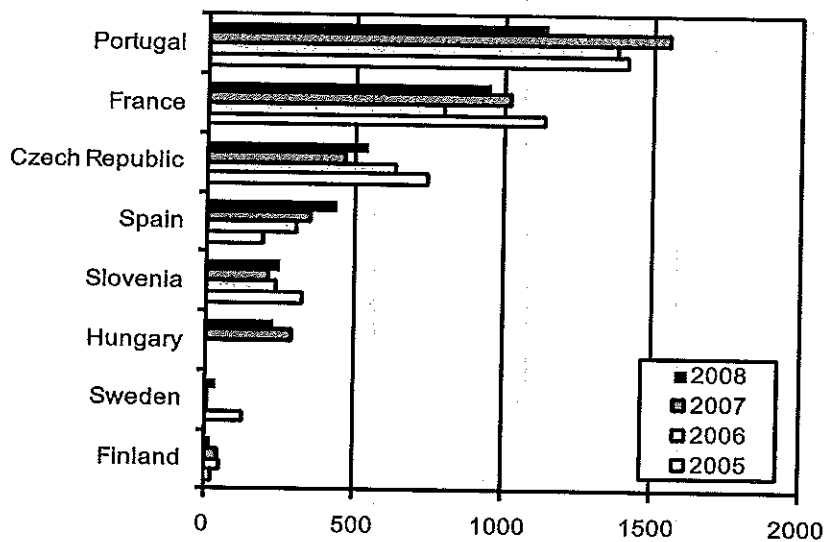
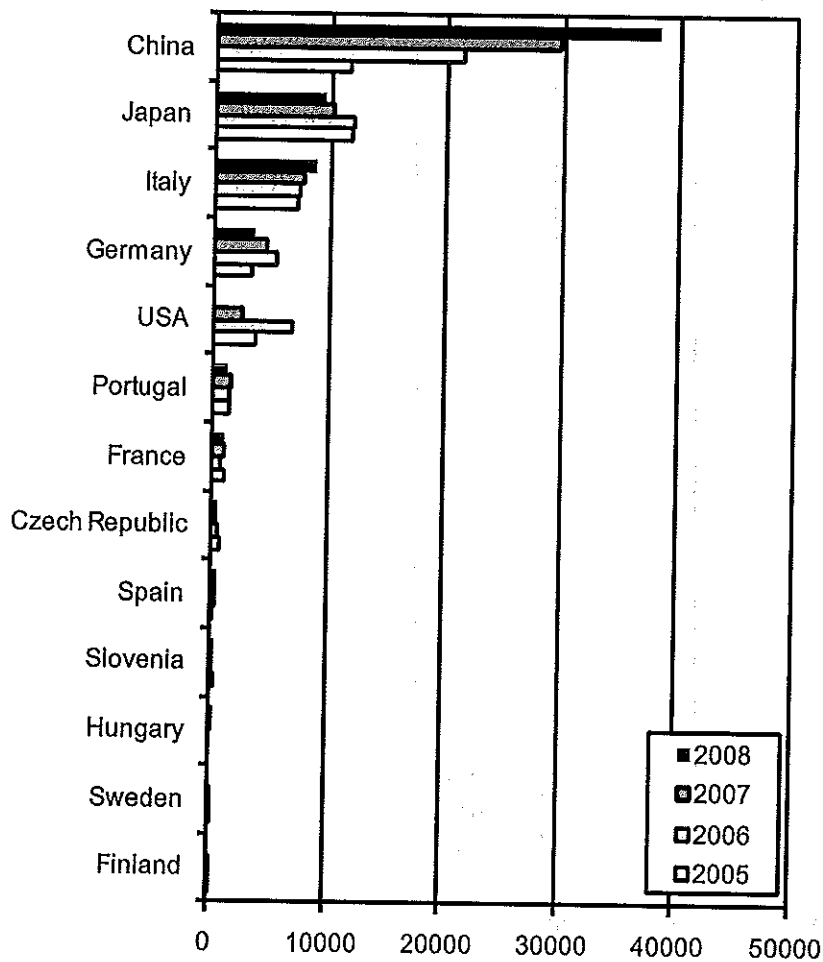
### 3.1.3.2. Moulds for Metal, Injection and Compression Production – USD million



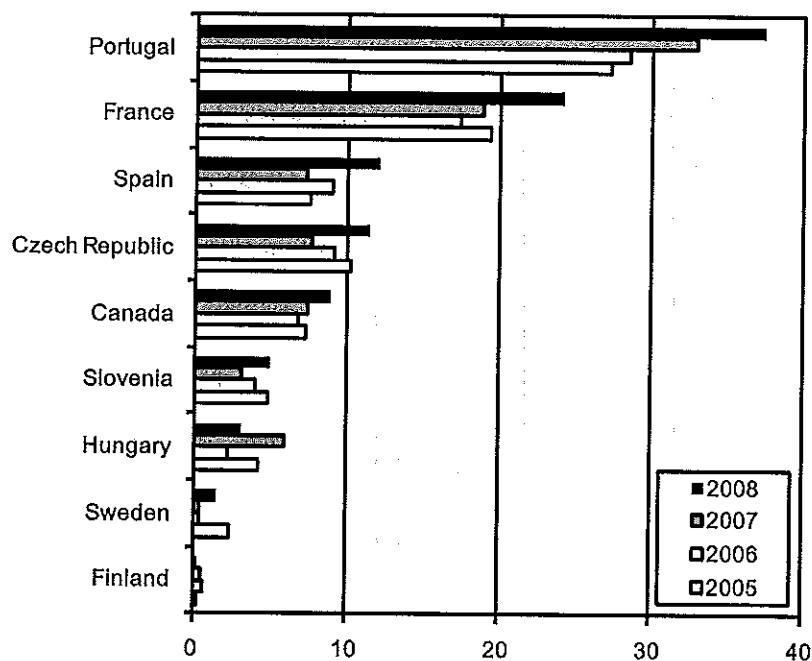
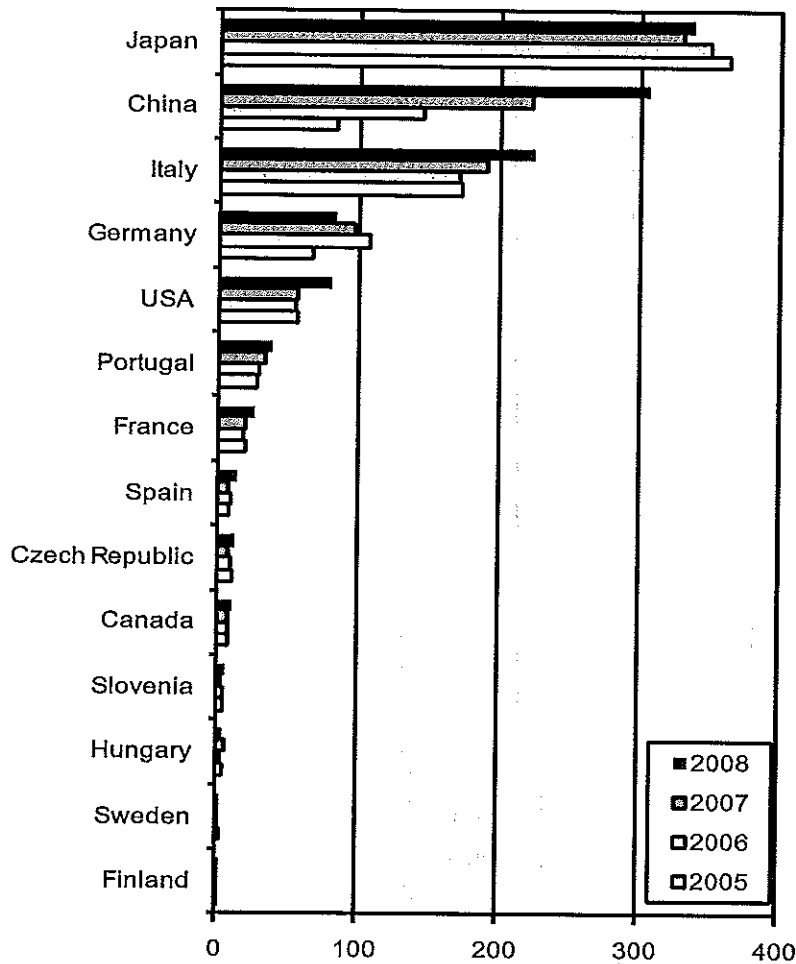
### 3.1.3.3. Moulds for Metal, Injection and Compression Production – EUR million



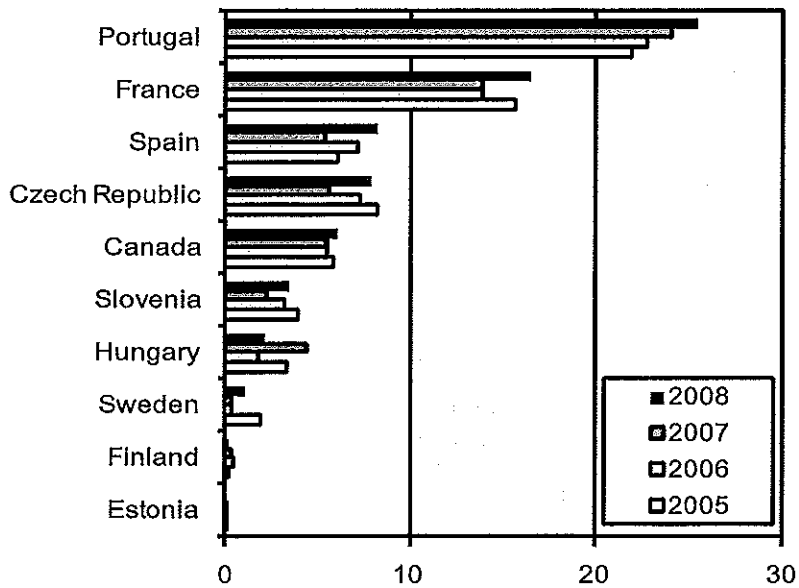
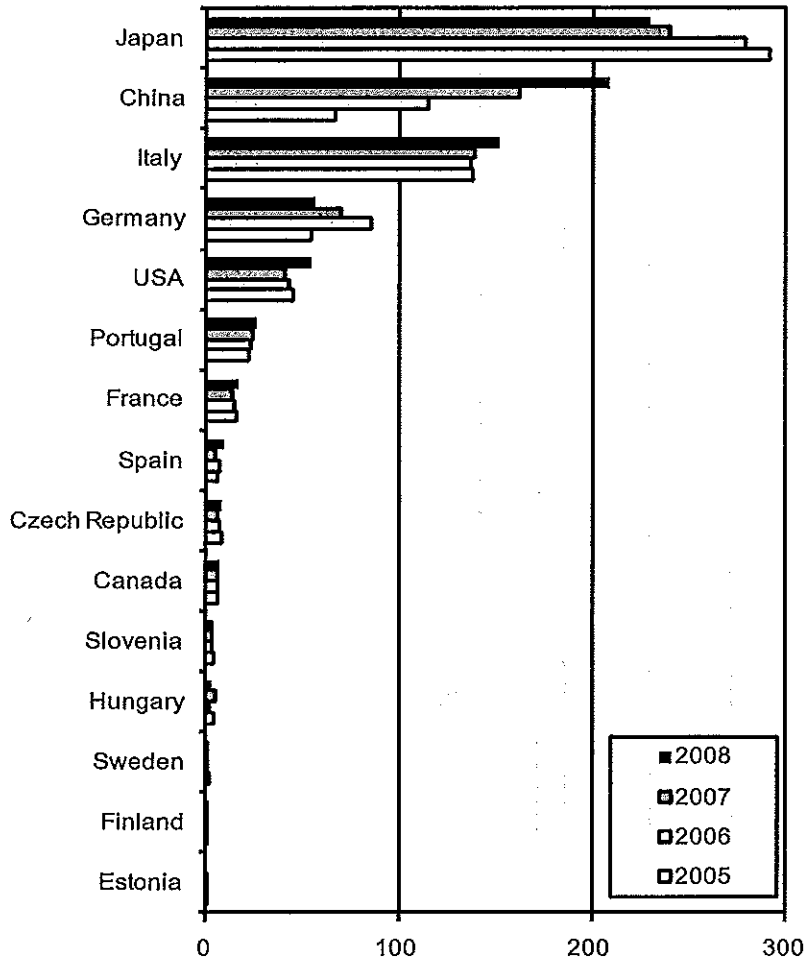
### 3.1.3.4. Moulds for Metal, Injection and Compression Exports – Weight, 1000 kg



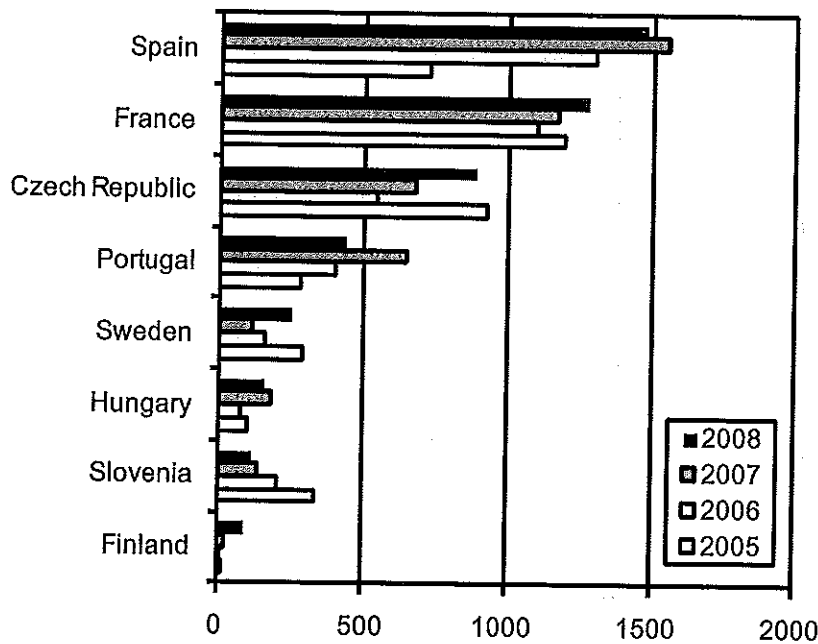
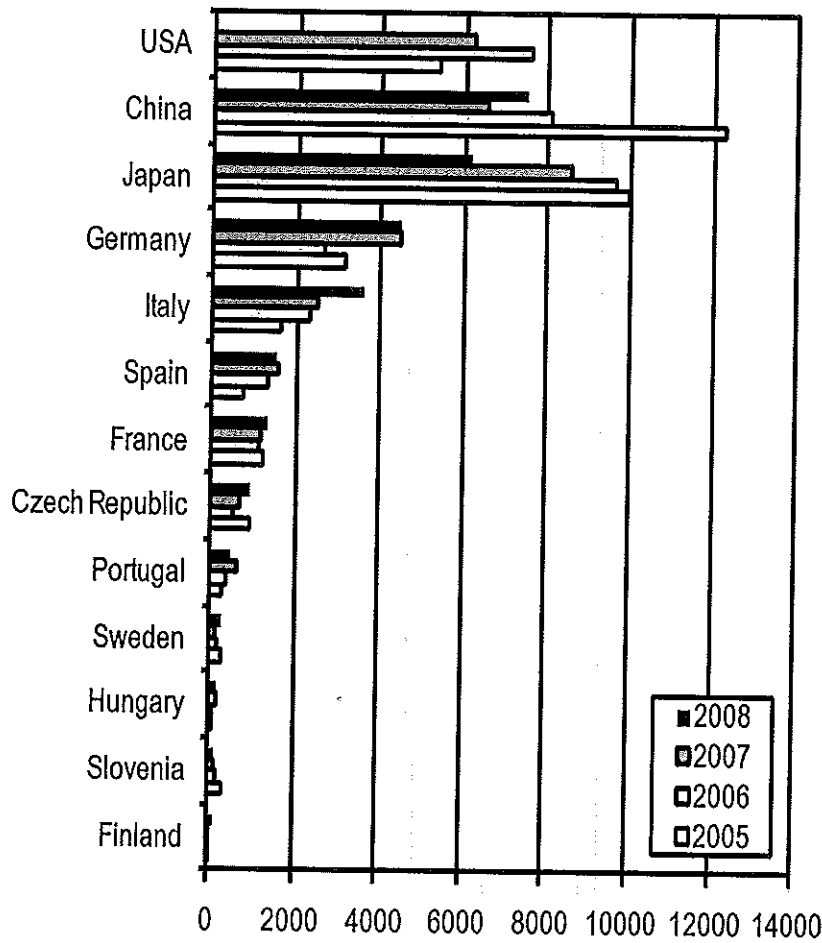
### 3.1.3.5. Moulds for Metal, Injection and Compression Exports – USD million



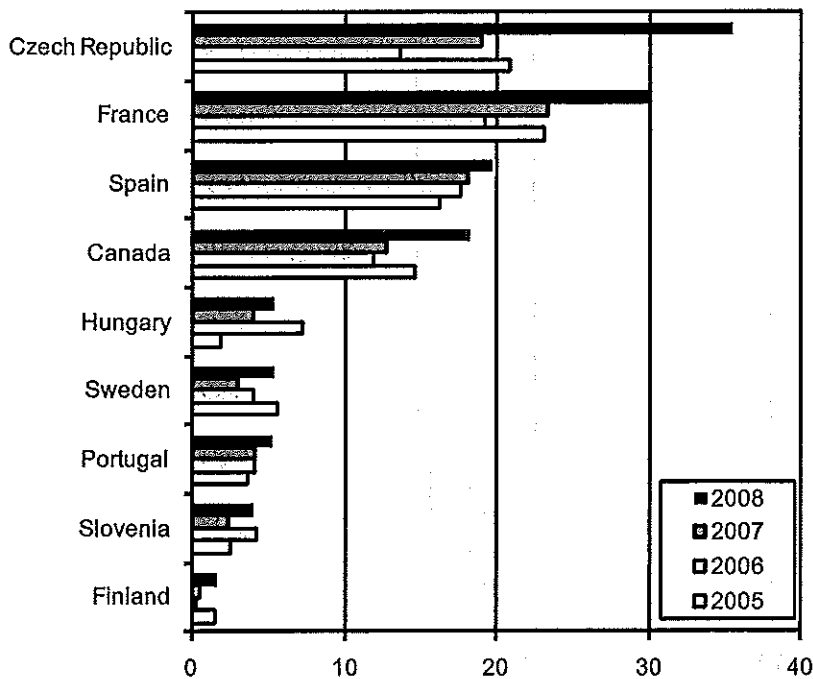
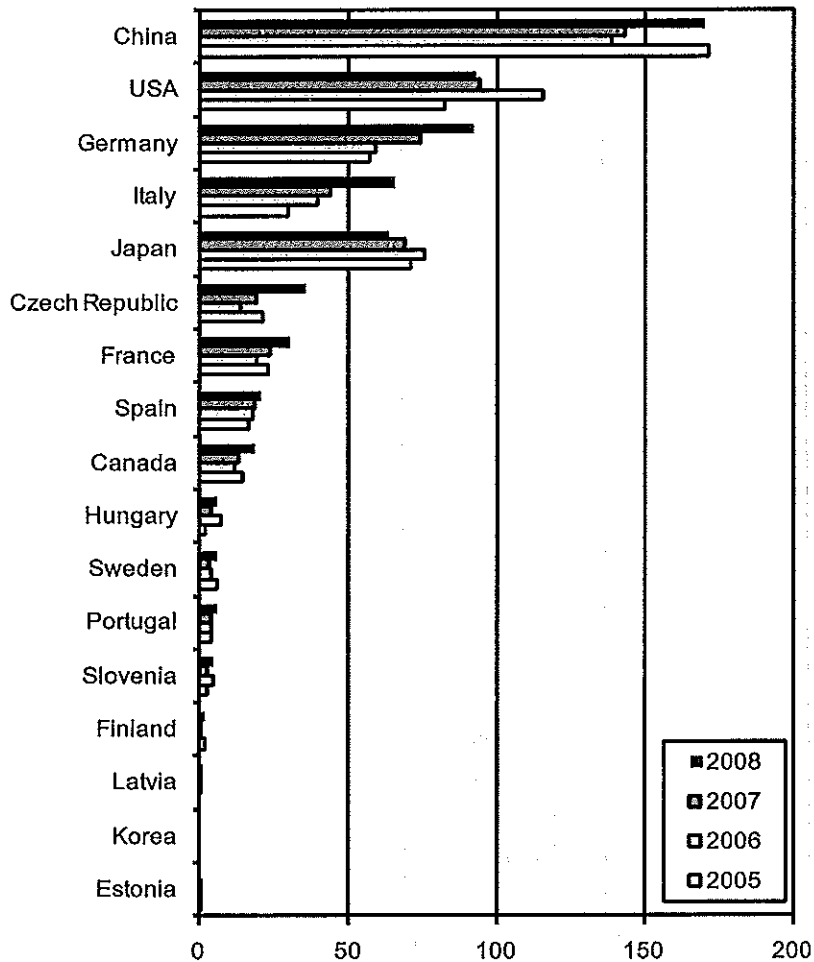
### 3.1.3.6. Moulds for Metal, Injection and Compression Exports – EUR million



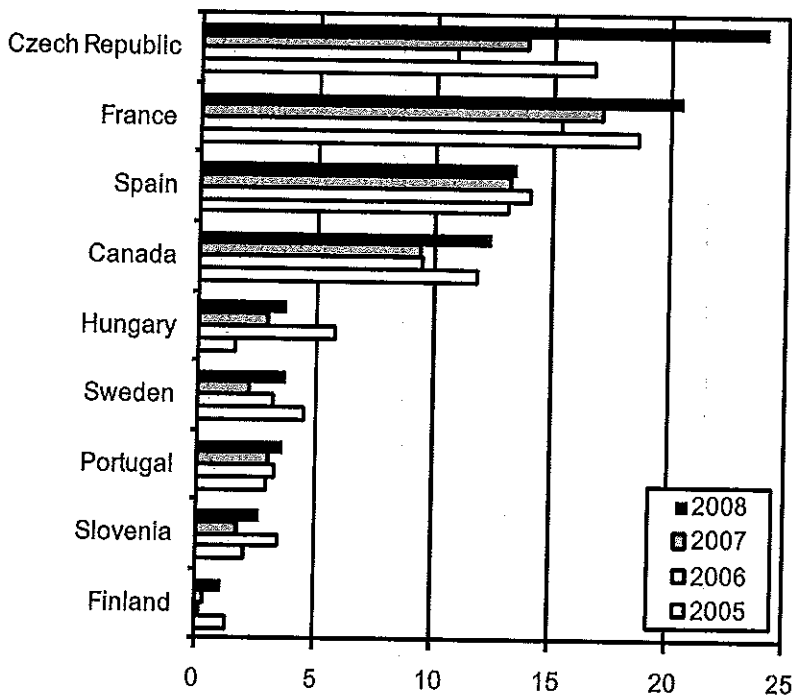
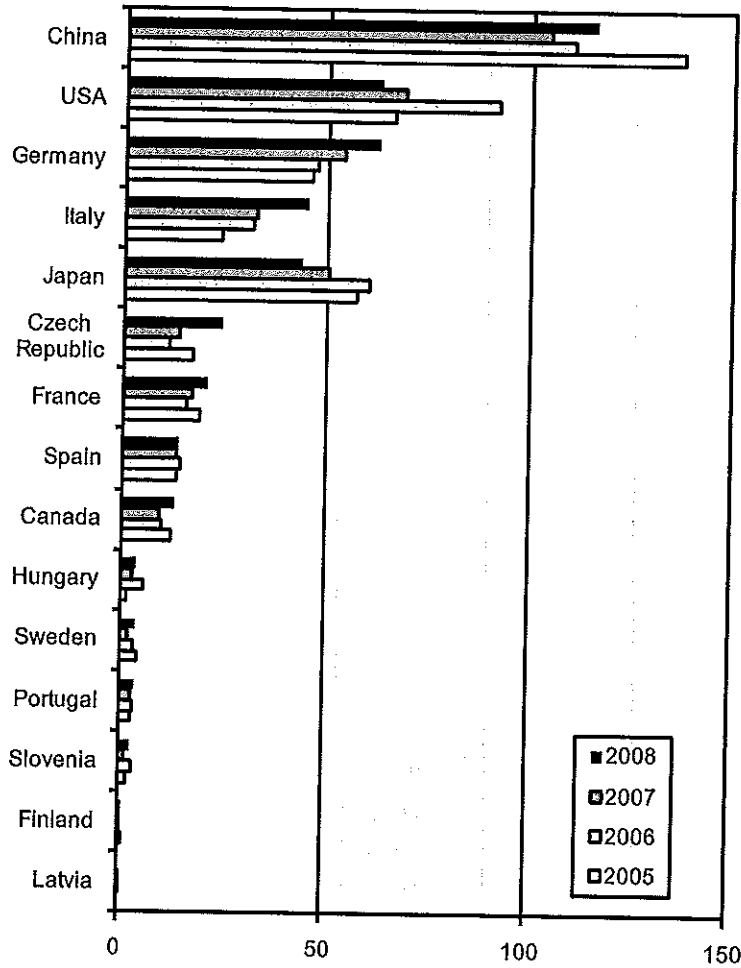
### 3.1.3.7. Moulds for Metal, Injection and Compression Imports – Weight, 1000 kg



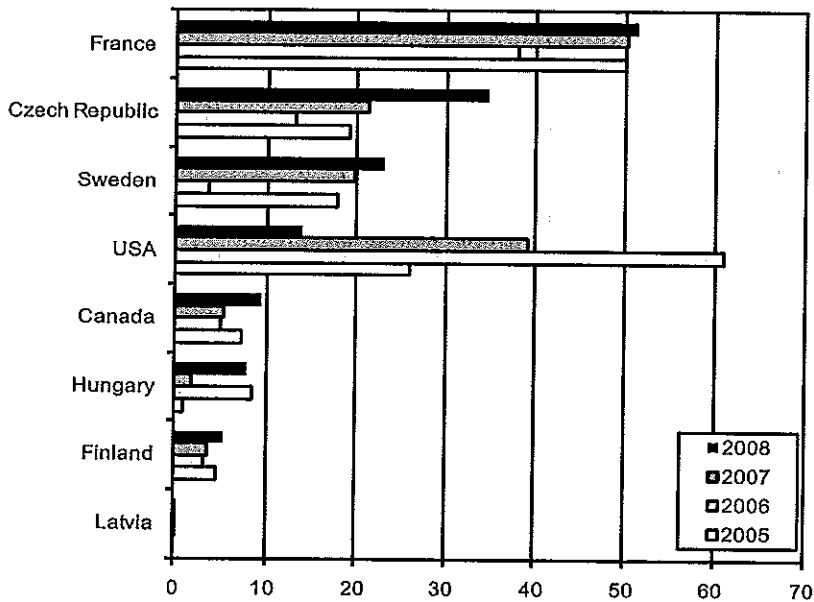
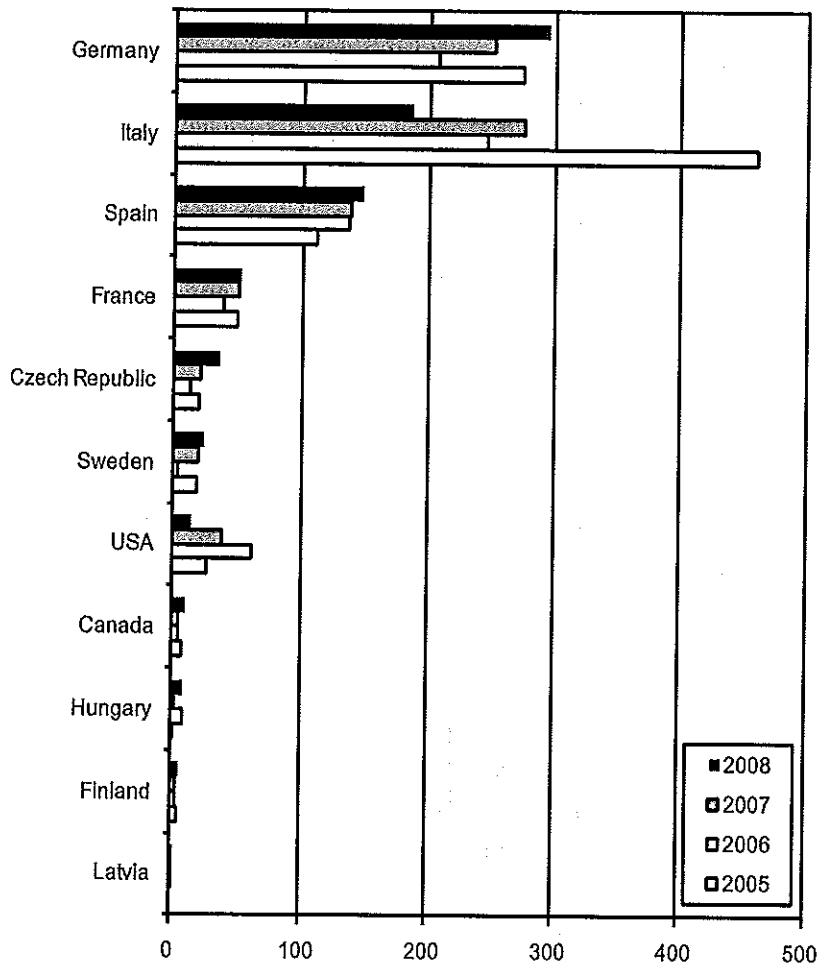
### 3.1.3.8. Moulds for Metal, Injection and Compression Imports – USD million



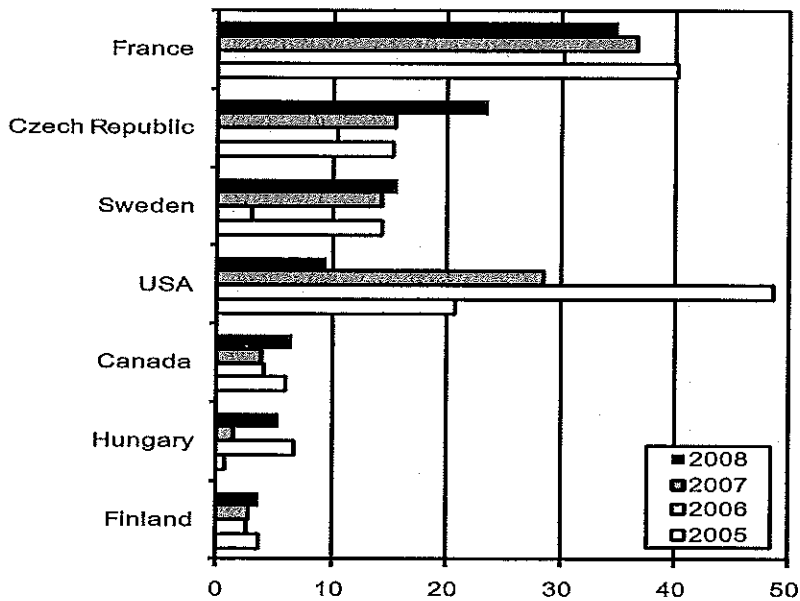
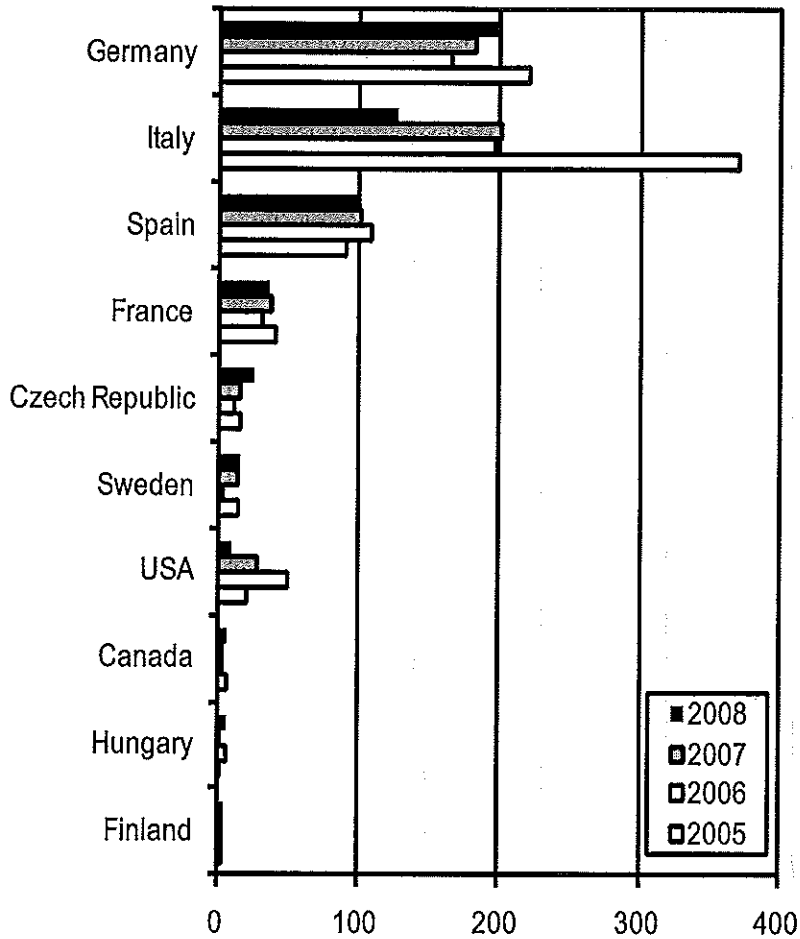
### 3.1.3.9. Moulds for Metal, Injection and Compression Imports – EUR million



### 3.1.3.10. Moulds for Metal, Injection and Compression Apparent Market – USD million

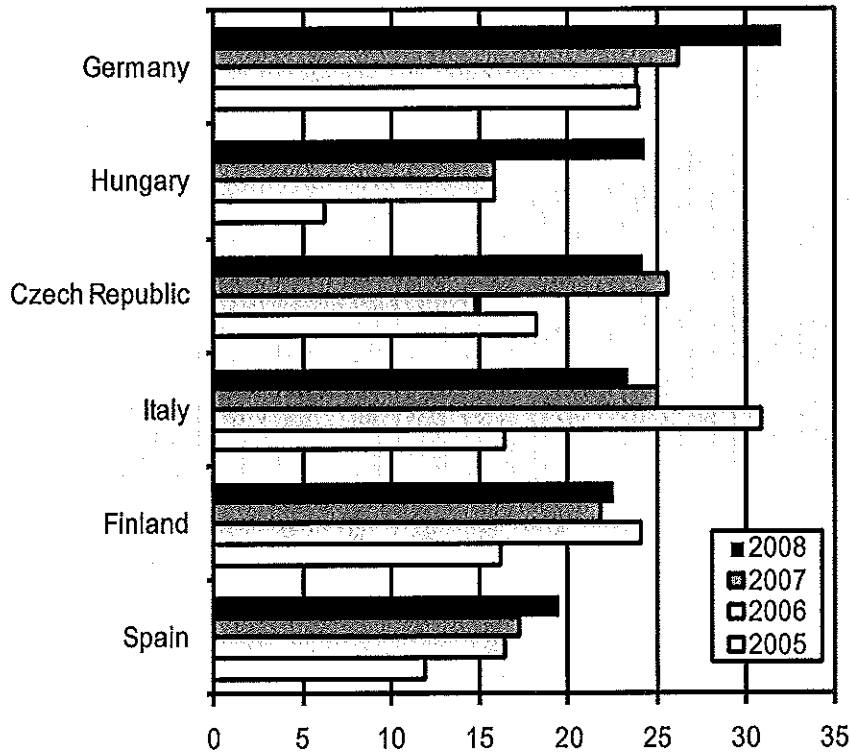


### 3.1.3.11. Moulds for Metal, Injection and Compression Apparent Market – EUR million

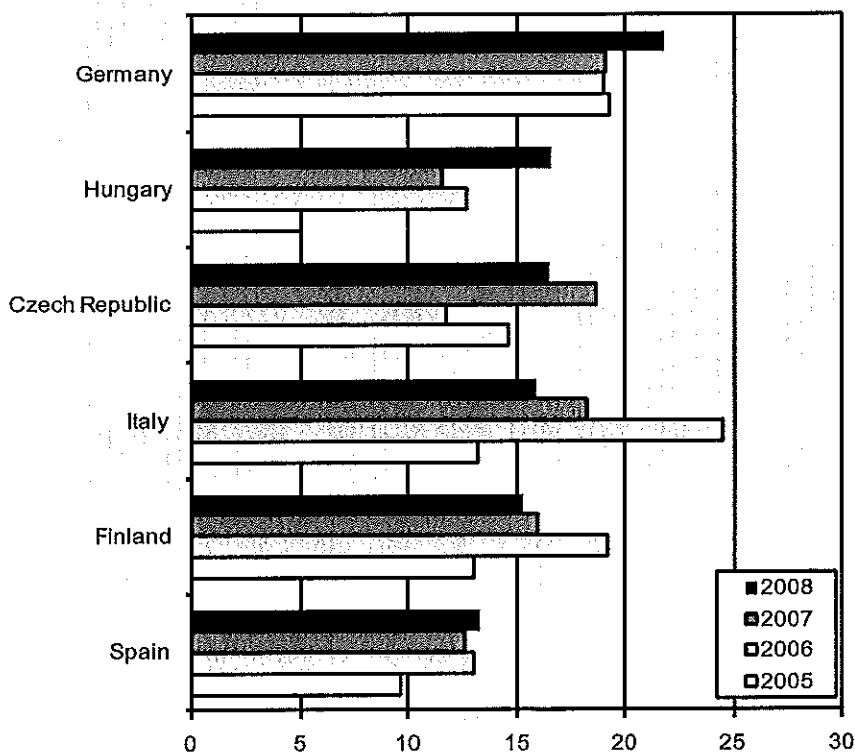


### 3.1.3.12. Moulds for Metal, Injection and Compression Unit Value Indices - Production

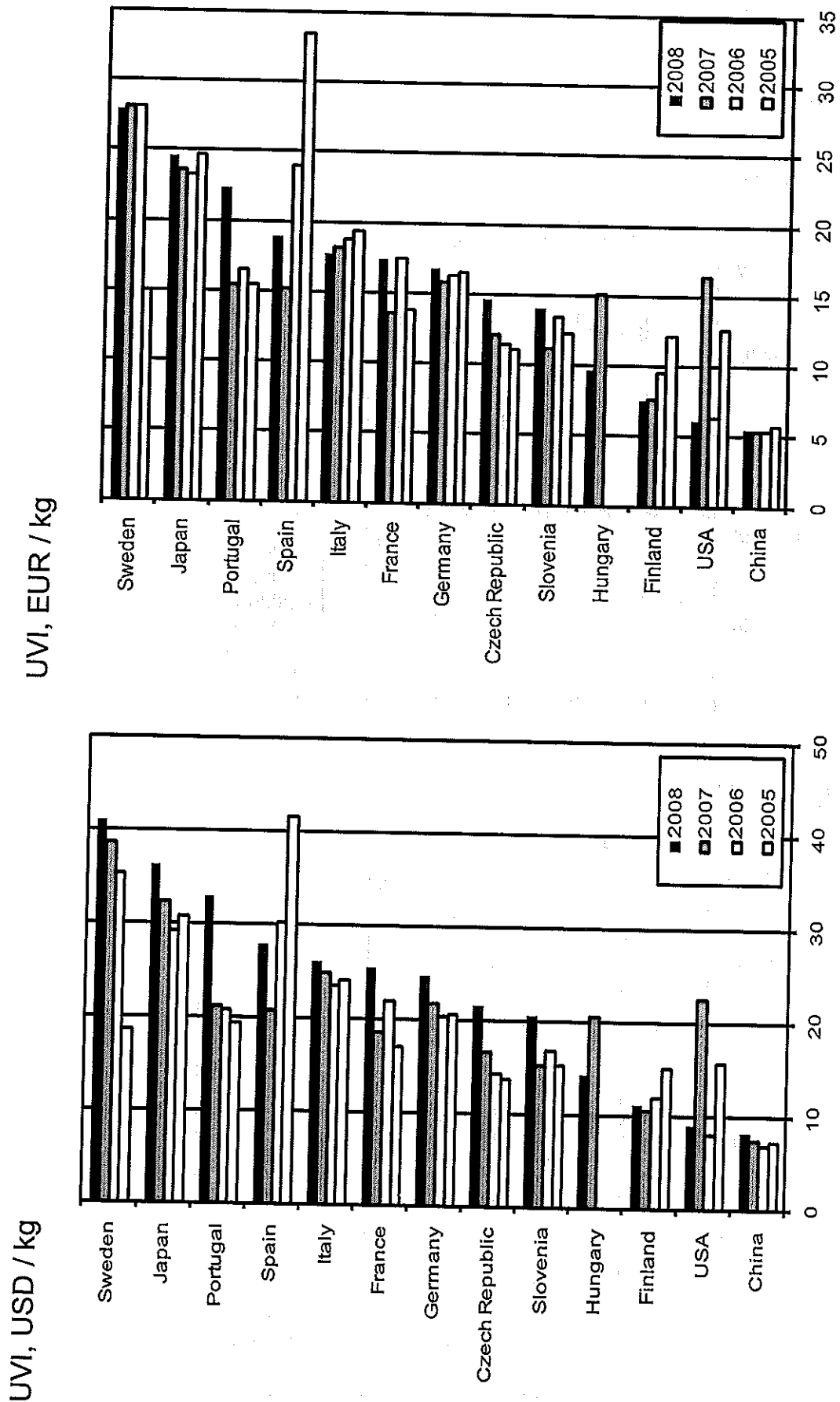
UVI, USD / kg



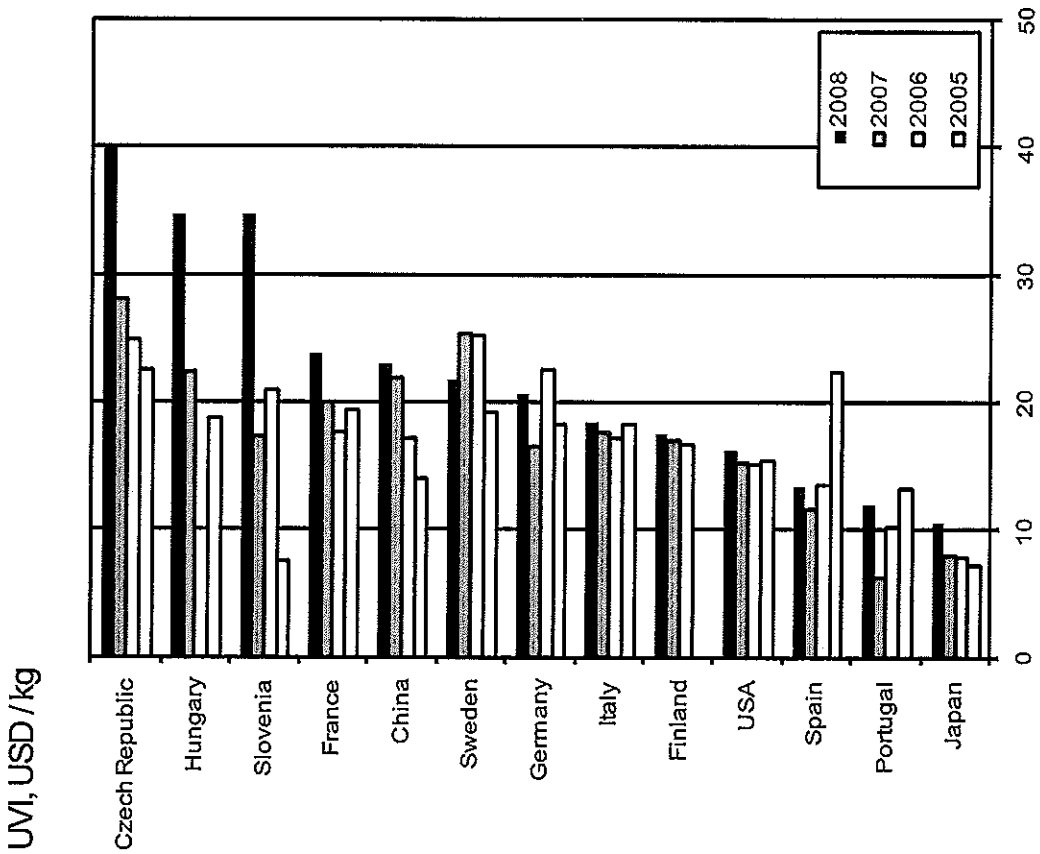
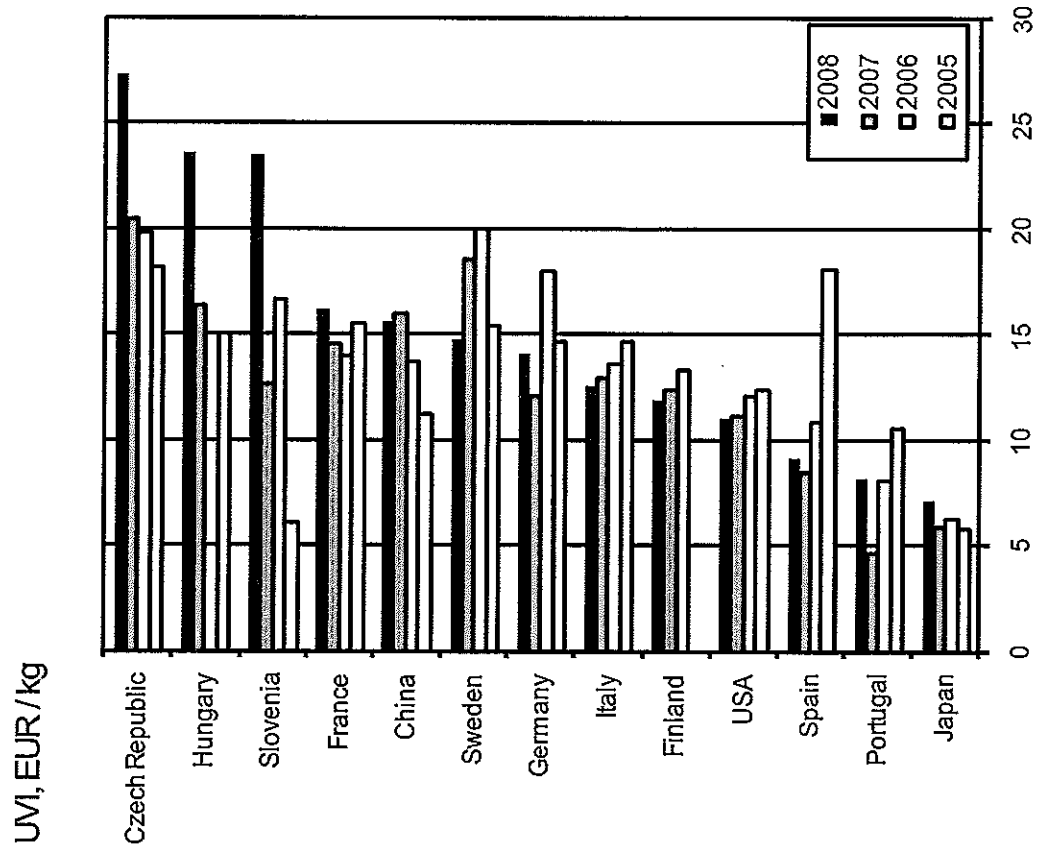
UVI, EUR / kg



### 3.1.3.13. Moulds for Metal, Injection and Compression Unit Value Indices - Exports



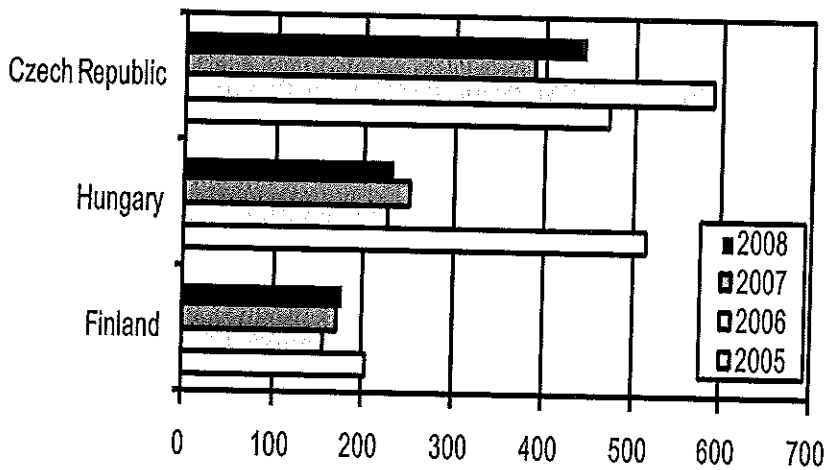
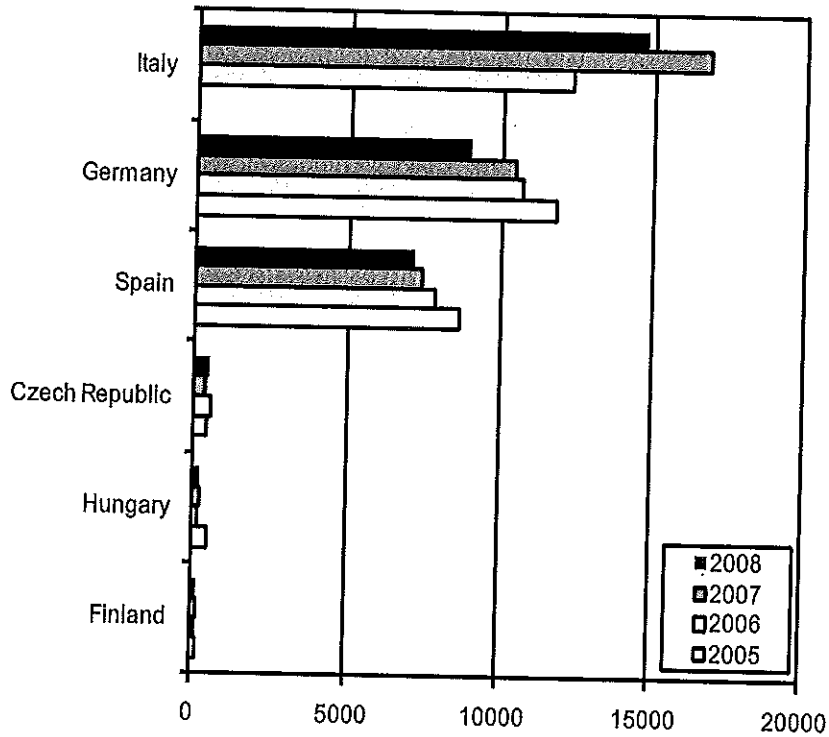
### 3.1.3.14. Moulds for Metal, Injection and Compression Unit Value Indices - Imports



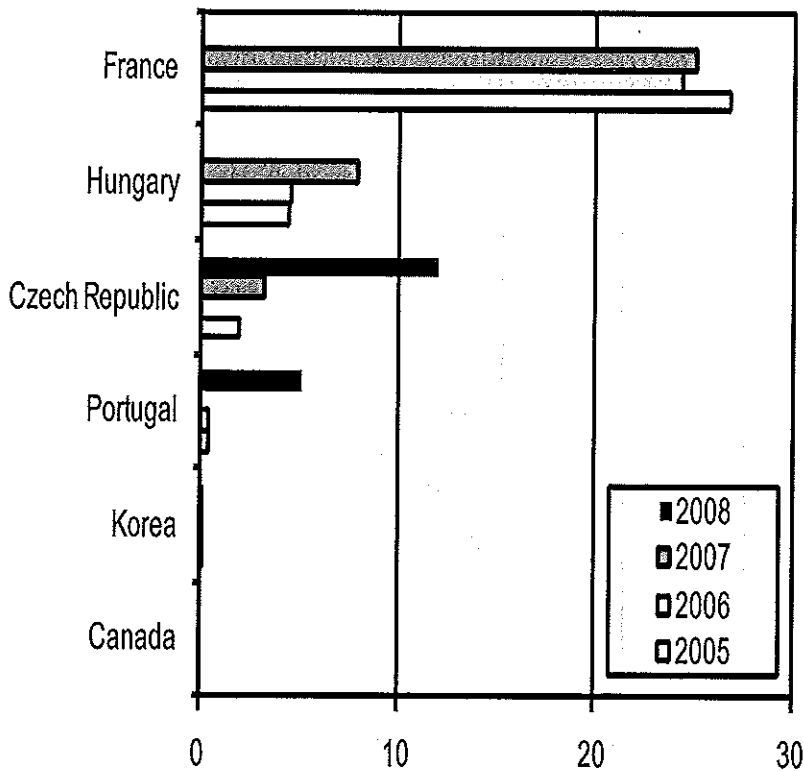
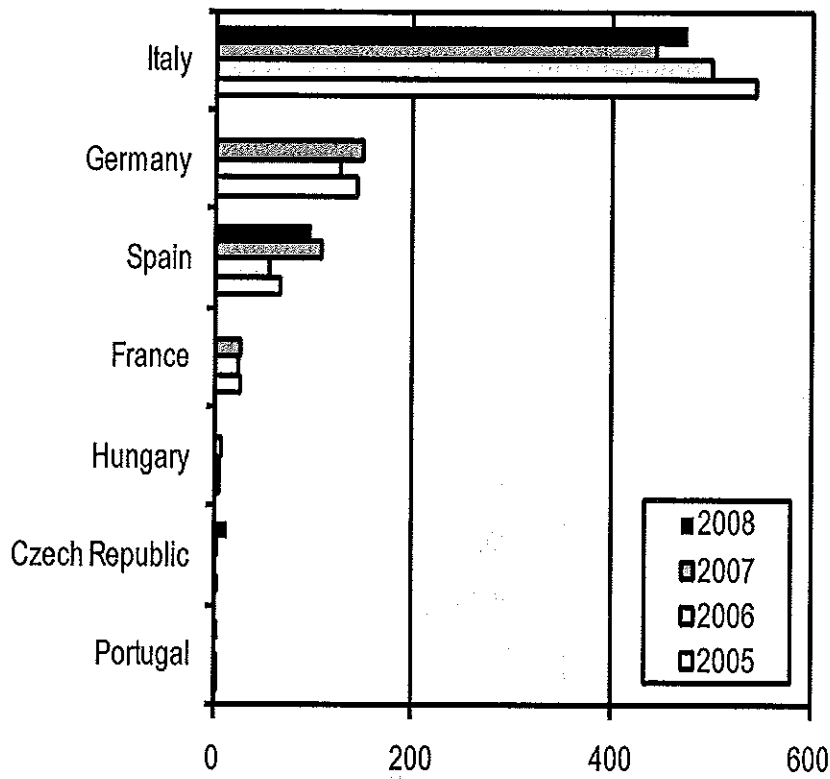


### **3.1.4. Moulds for Metal, Excluding Injection and Compression**

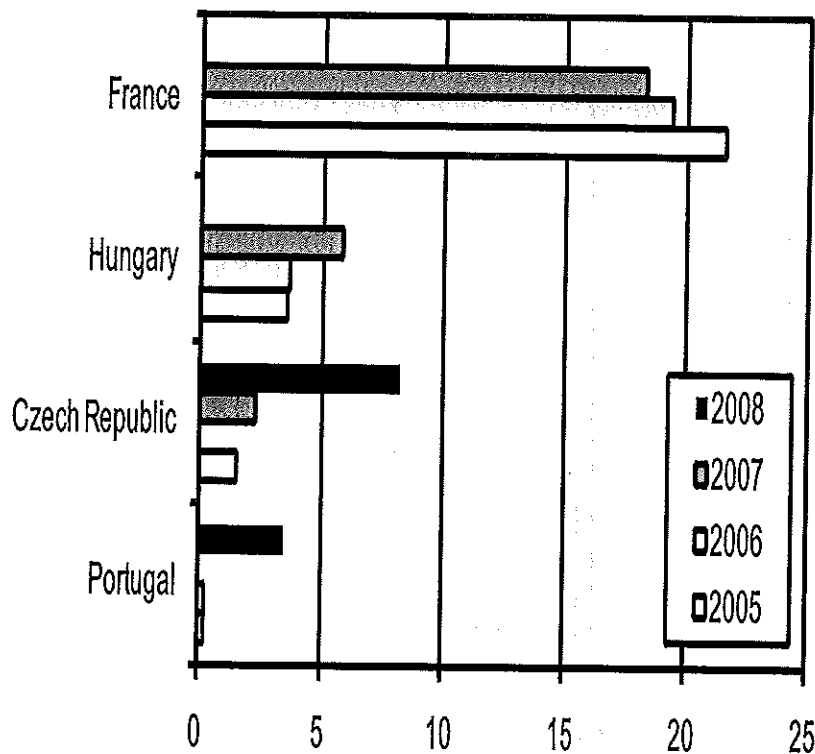
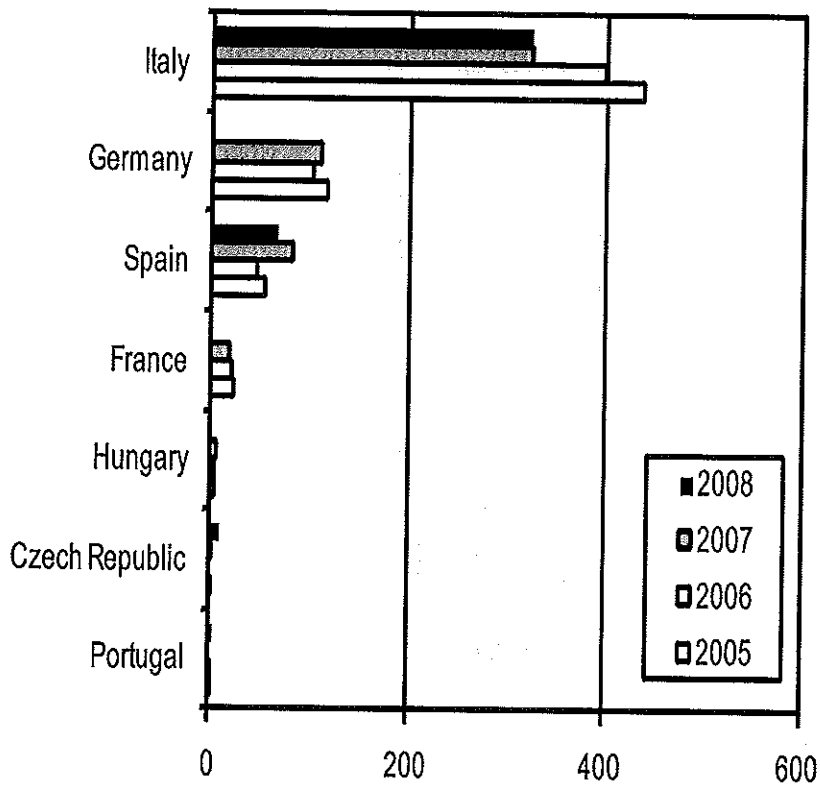
### 3.1.4.1. Moulds for Metal, Excluding Injection and Compression Production – Weight 1000kg



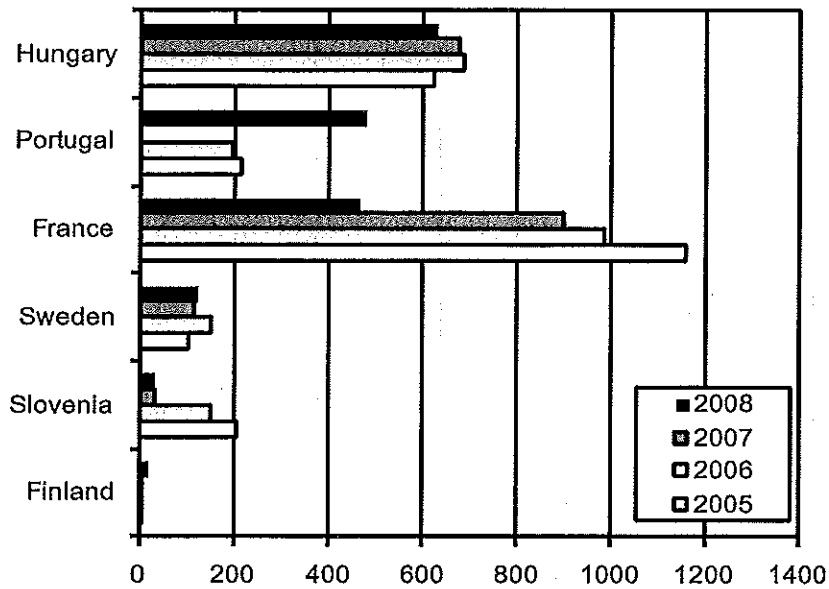
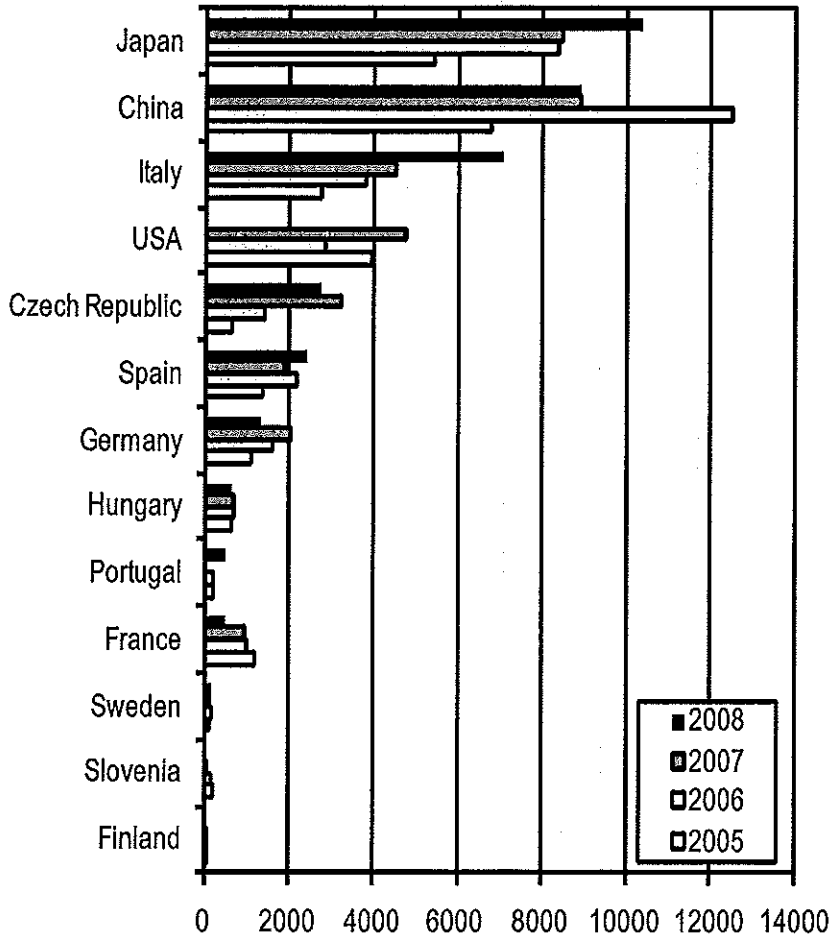
### 3.1.4.2. Moulds for Metal, Excluding Injection and Compression Production – USD million



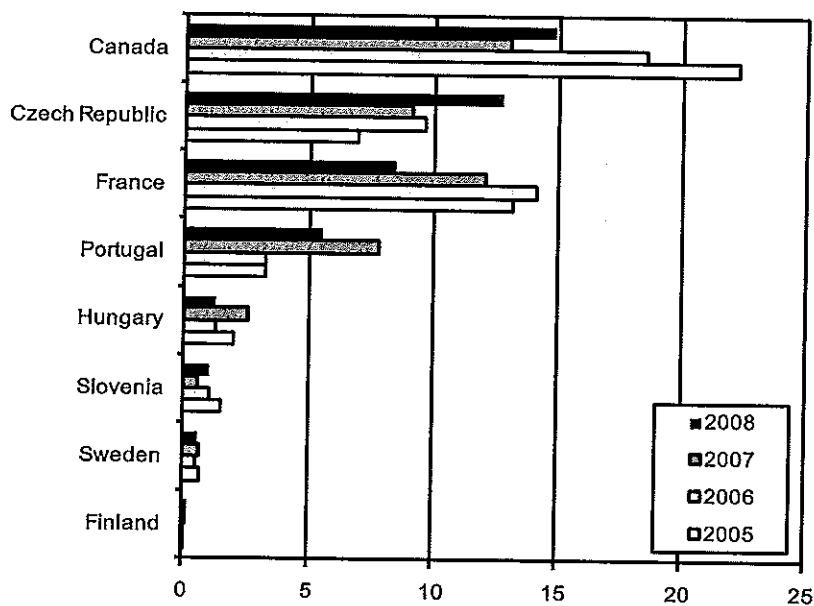
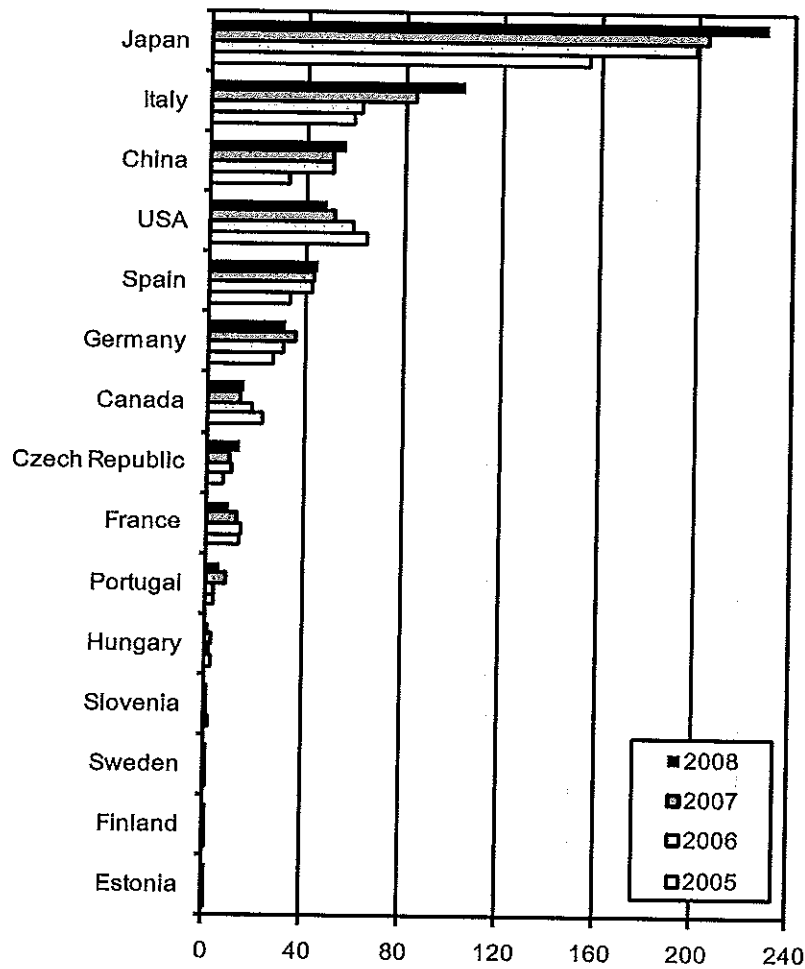
### 3.1.4.3. Moulds for Metal, Excluding Injection and Compression Production – EUR million



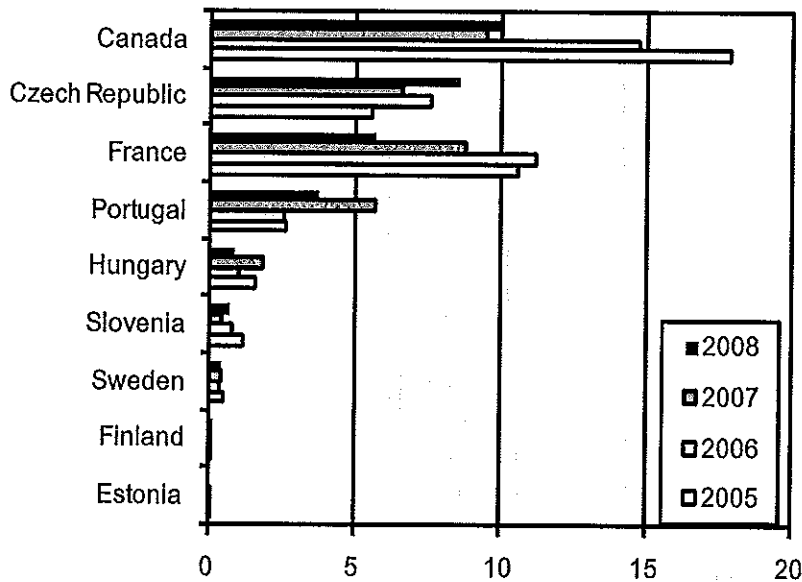
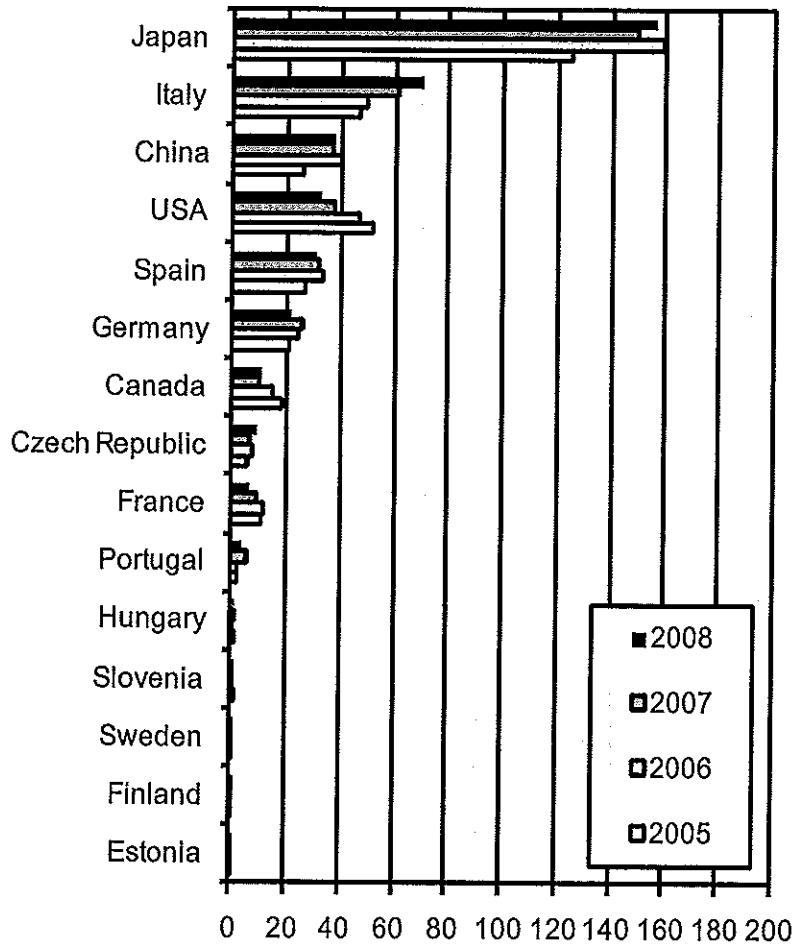
### 3.1.4.4. Moulds for Metal, Excluding Injection and Compression Exports – Weight, 1000 kg



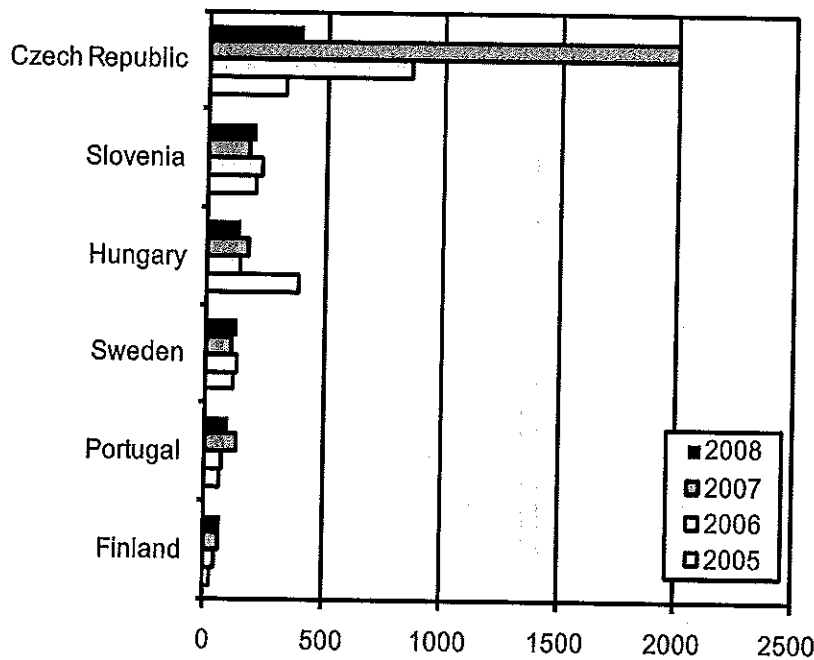
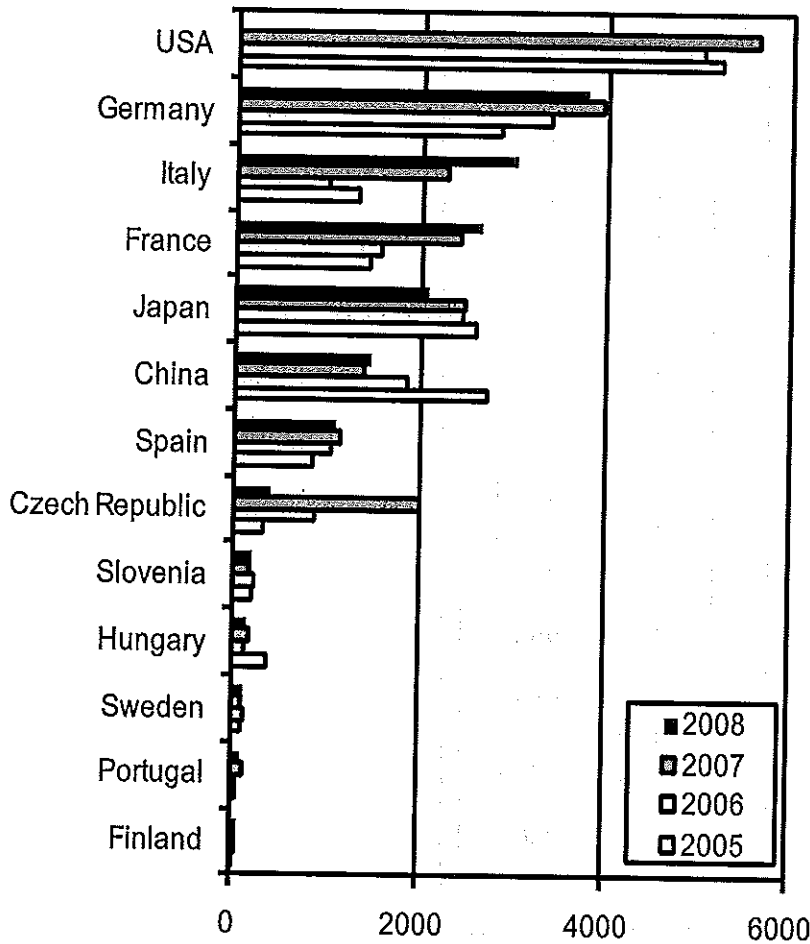
### 3.1.4.5. Moulds for Metal, Excluding Injection and Compression Exports – USD million



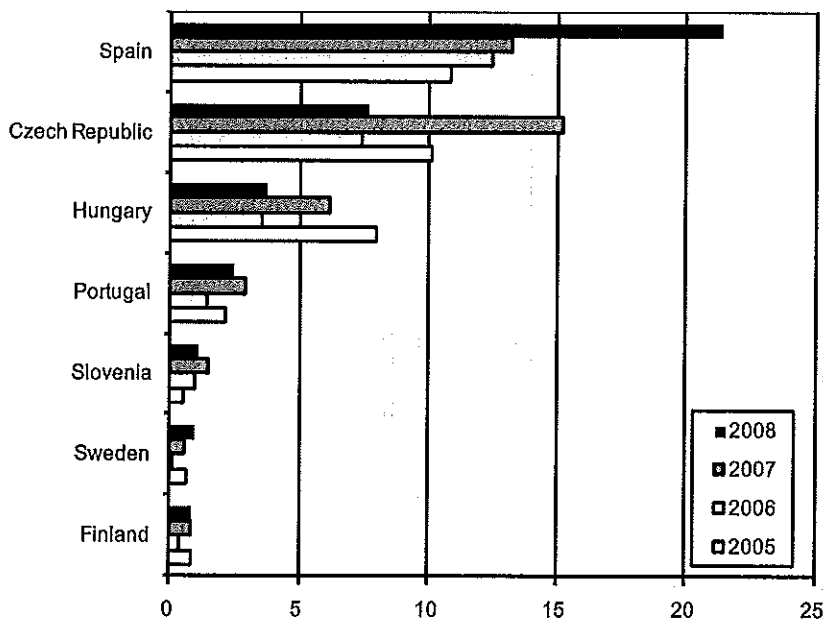
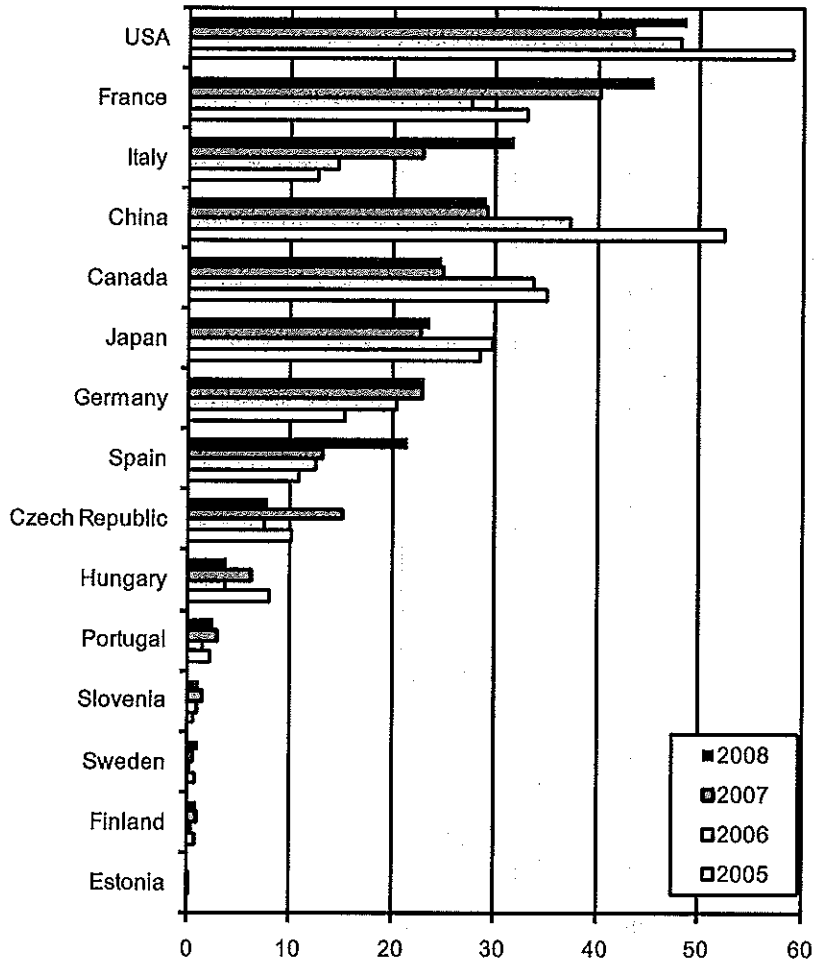
### 3.1.4.6. Moulds for Metal, Excluding Injection and Compression Exports – EUR million



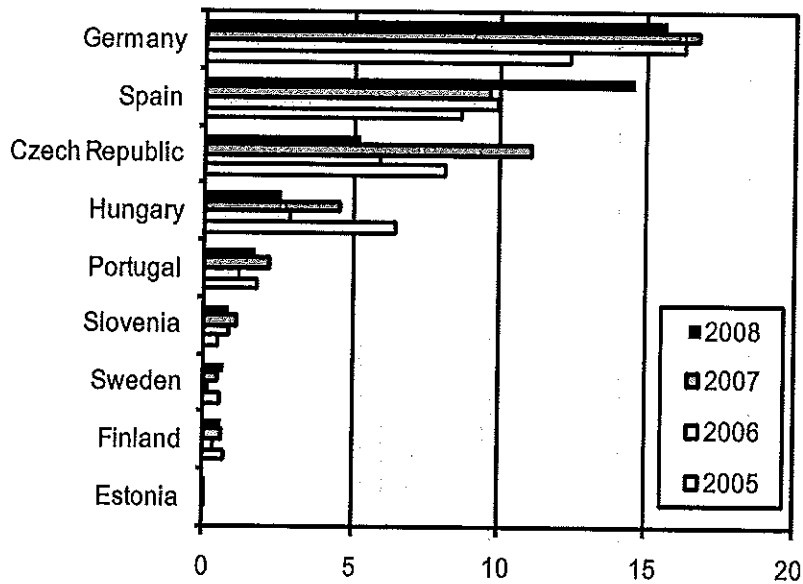
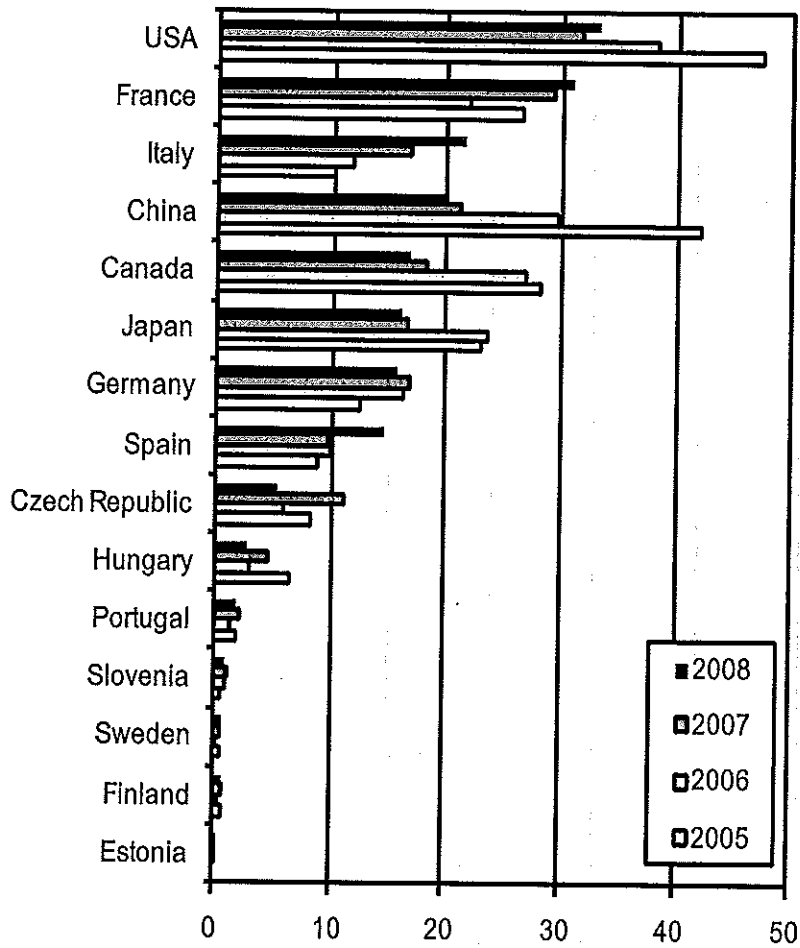
### 3.1.4.7. Moulds for Metal, Excluding Injection and Compression Imports – Weight, 1000 kg



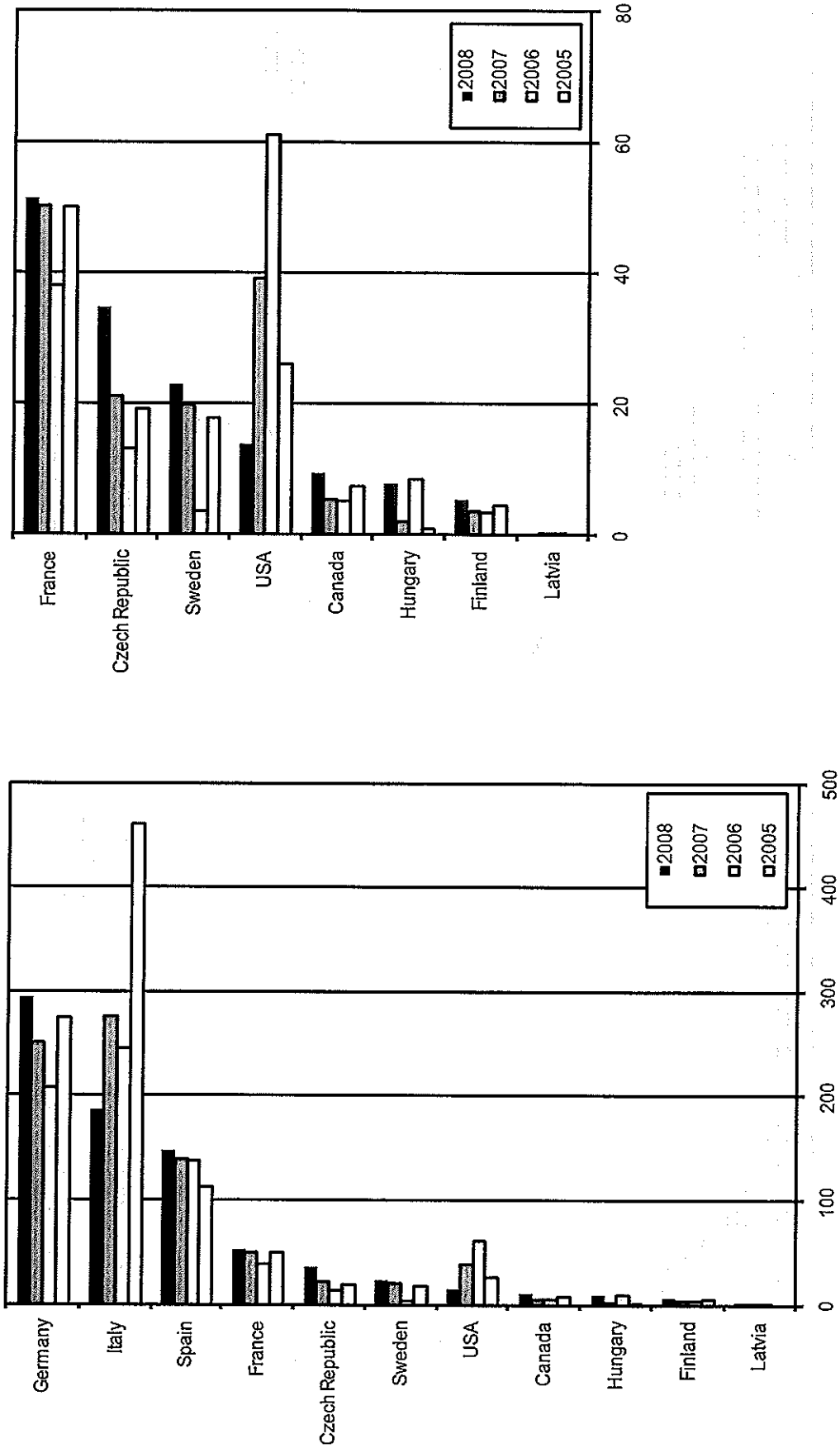
### 3.1.4.8. Moulds for Metal, Excluding Injection and Compression Imports – USD million



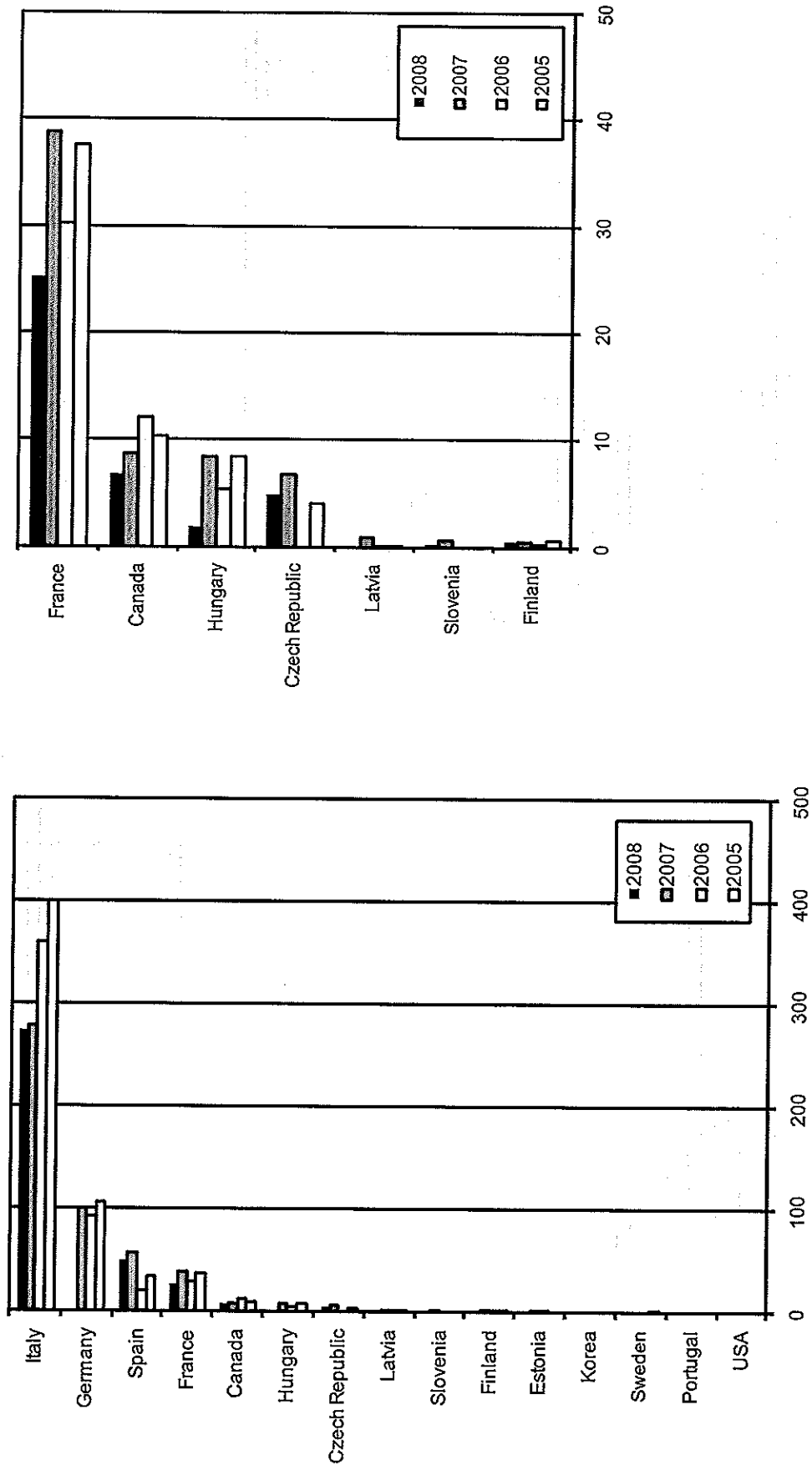
### 3.1.4.9. Moulds for Metal, Excluding Injection and Compression Imports – EUR million



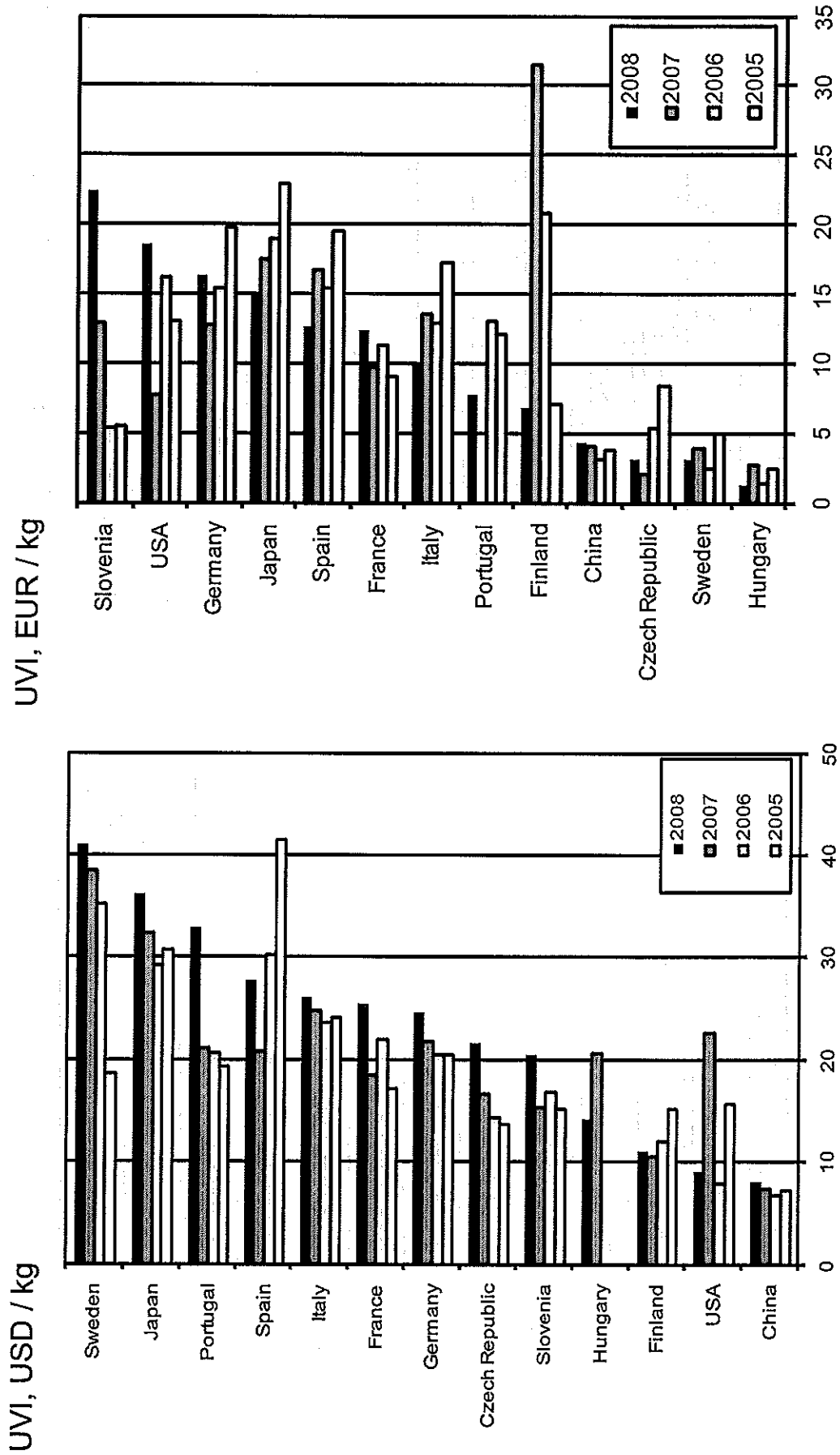
**3.1.4.10. Moulds for Metal, Excluding Injection and Compression Apparent Market – USD million**



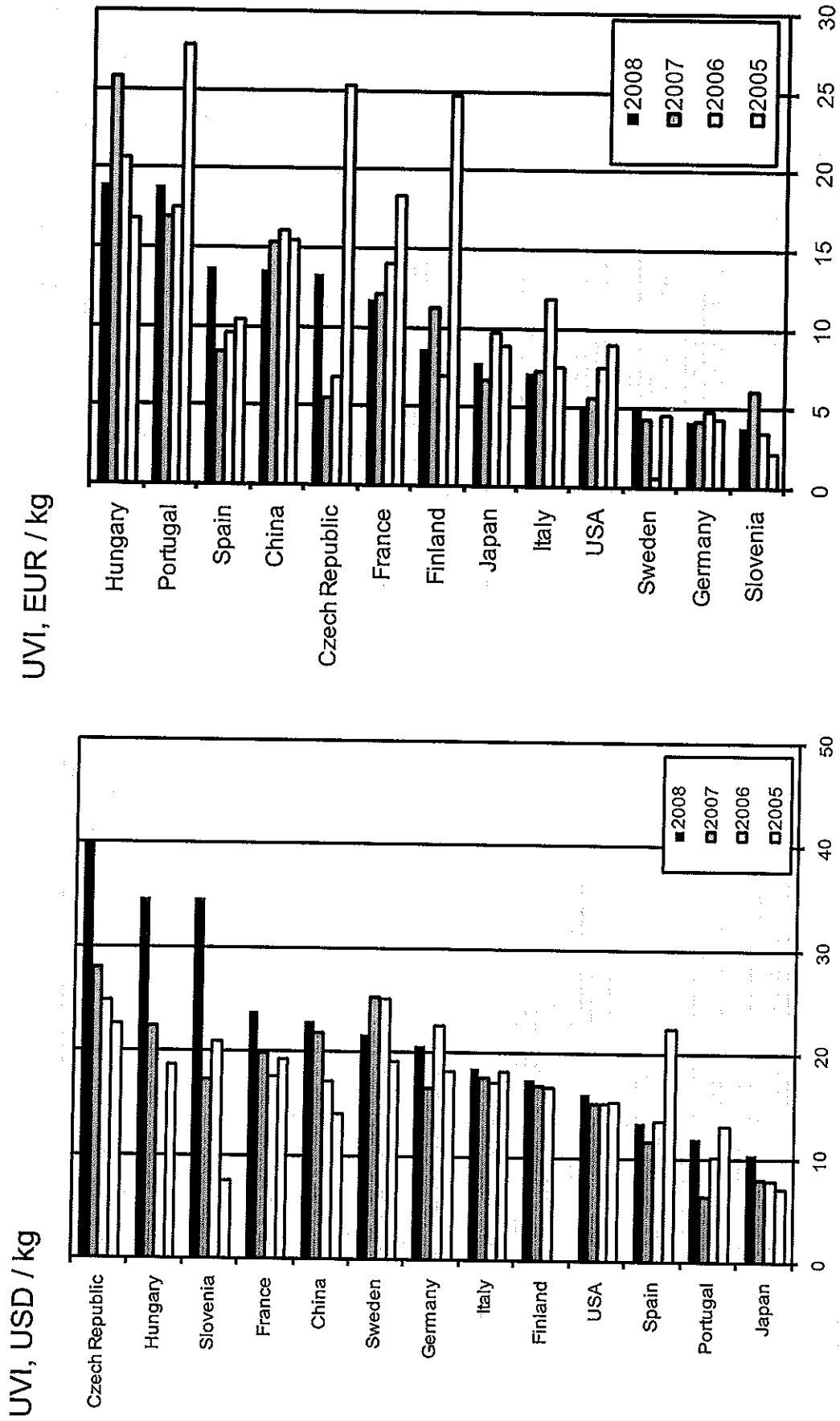
### 3.1.4.11. Moulds for Metal, Excluding Injection and Compression Apparent Market – EUR million



**3.1.4.12. Moulds for Metal, Excluding Injection and Compression Unit Value Indices -Exports**

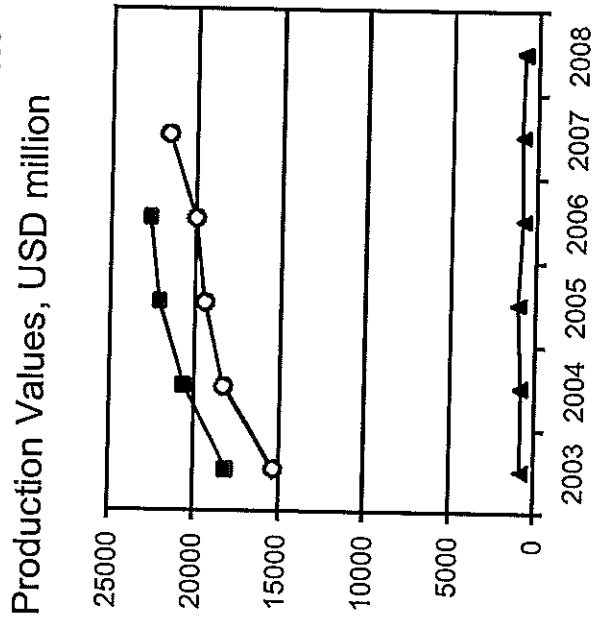
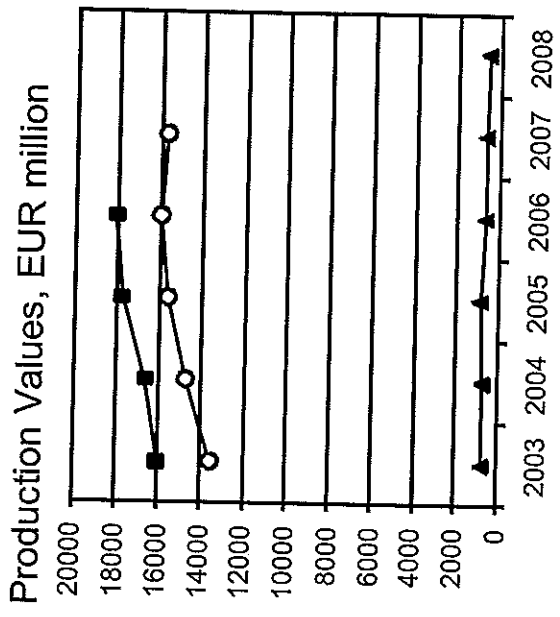
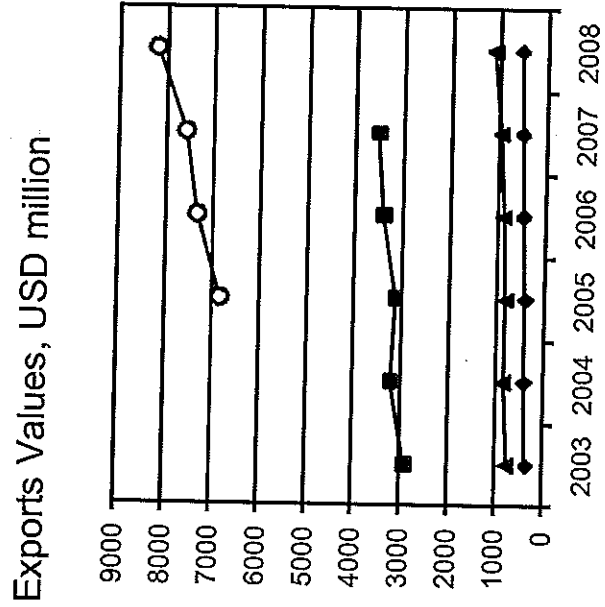
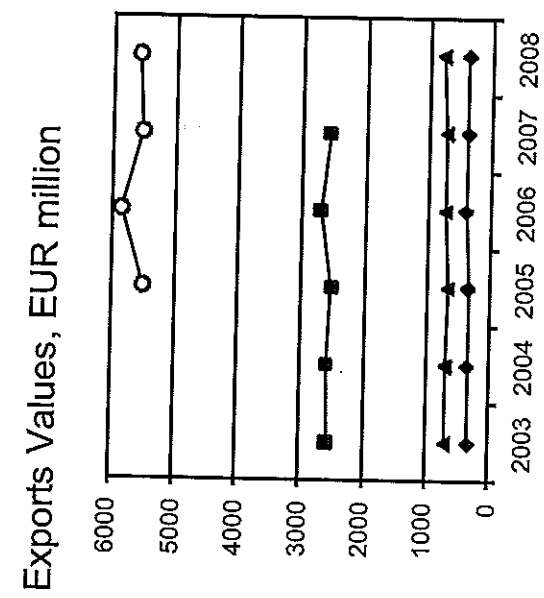


### 3.1.4.13. Moulds for Metal, Excluding Injection and Compression Unit Value Indices - Imports



### **3.2. Commodities Aggregate**

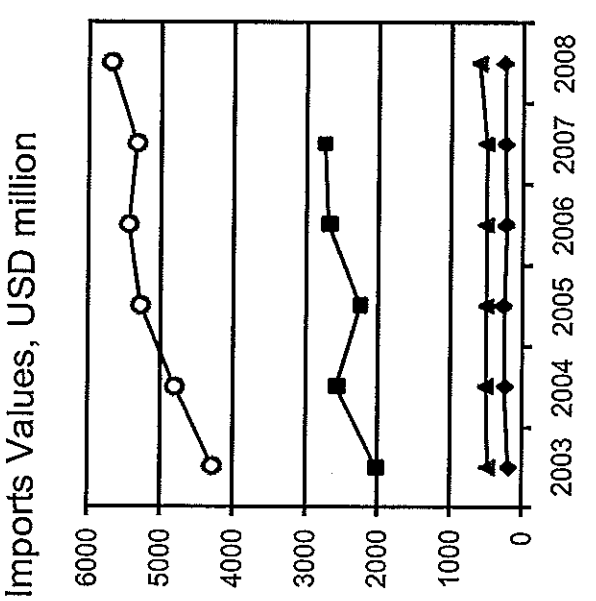
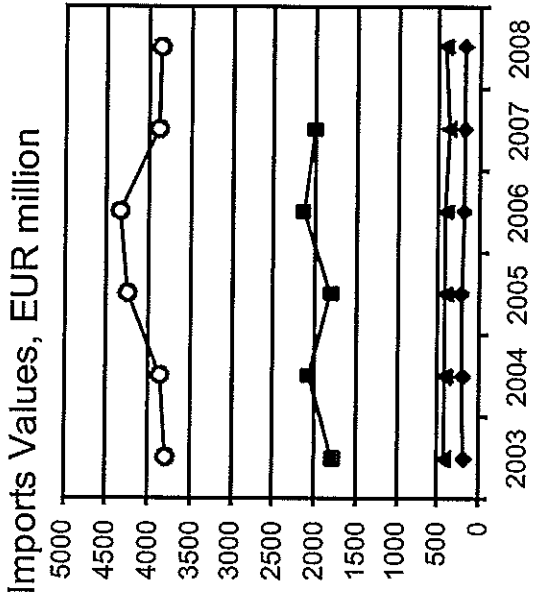
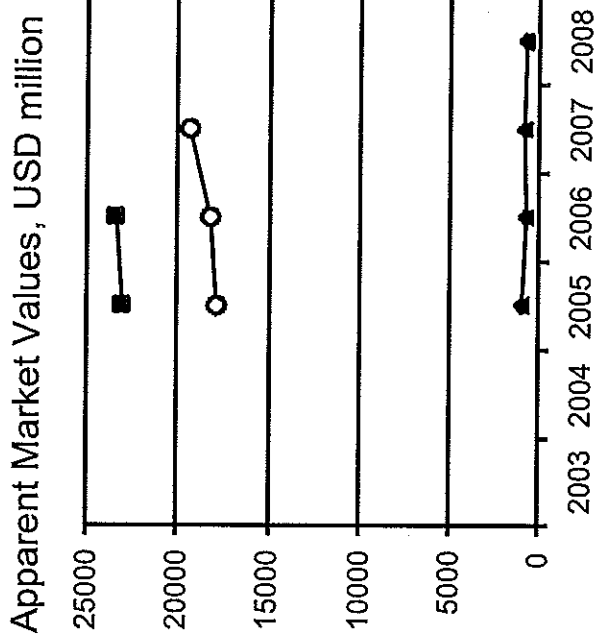
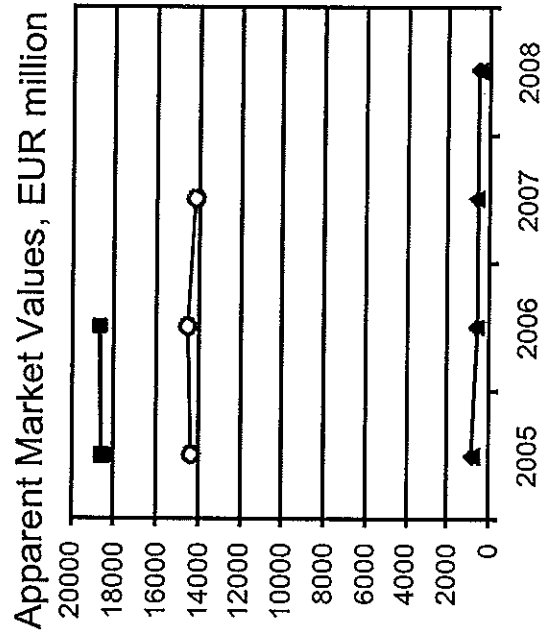
Includes, only, data available and feasible from sample; see previous points



**Note:**

Includes, only, data available and feasible from sample; see previous points.

- Dies
- Moulds Plastic and Rubber
- ▲ Moulds Metal, Injection and Compression
- ◆ Moulds Metal, Excluding Injection and Compression



**Note:**  
Includes, only, data available and feasible from sample; see previous points.

- Dies
- Moulds Plastic and Rubber
- ▲— Moulds Metal, Injection and Compression
- ◆— Moulds Metal, Excluding Injection and Compressor

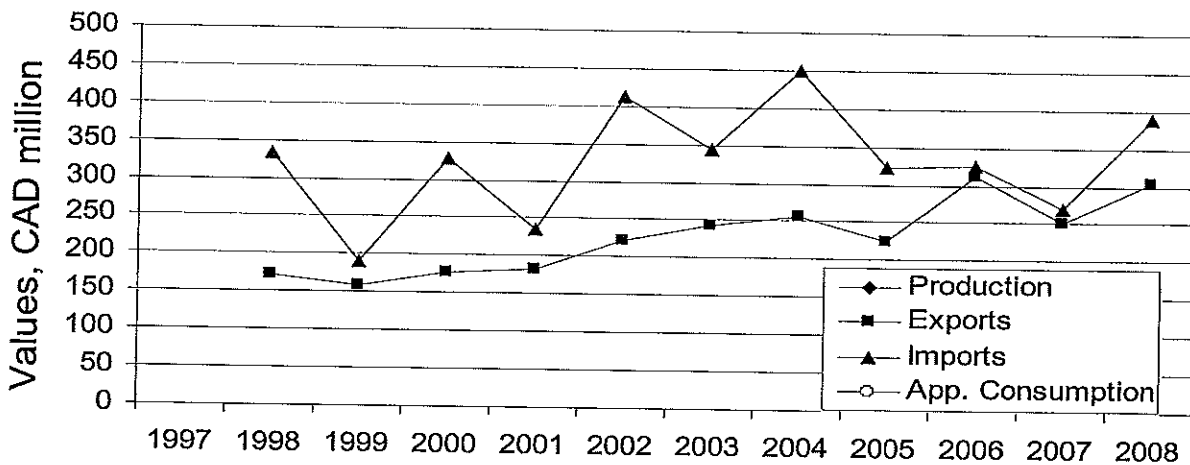
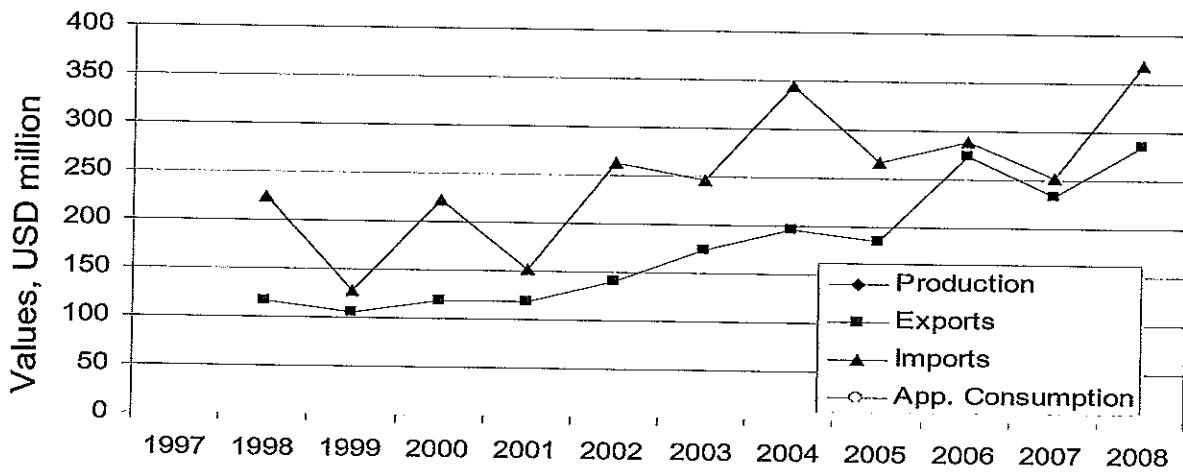
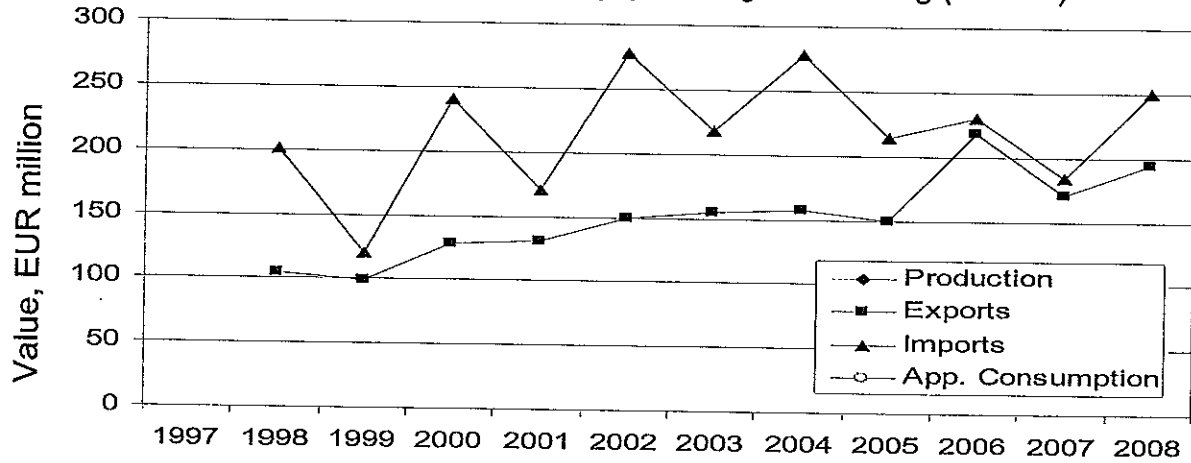


## 4. Country level

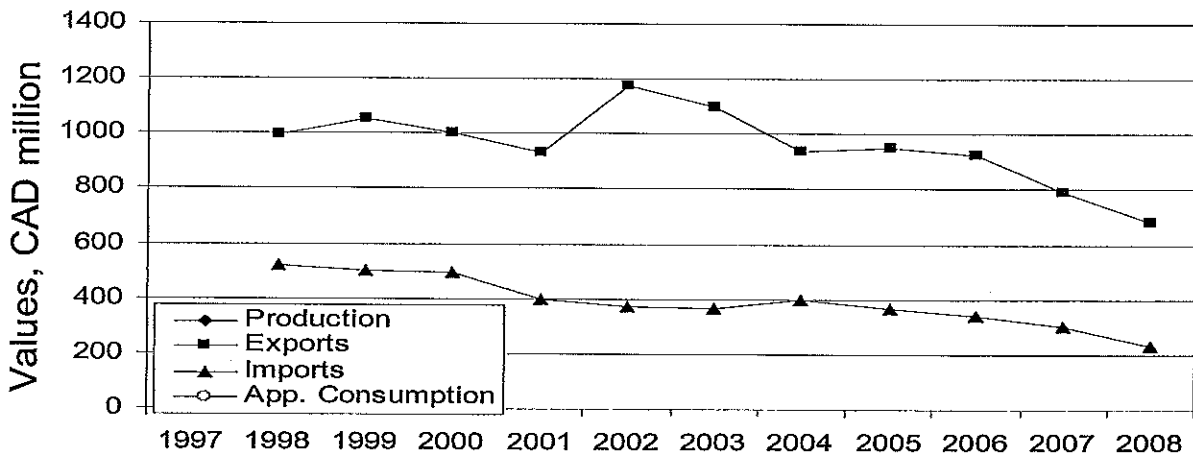
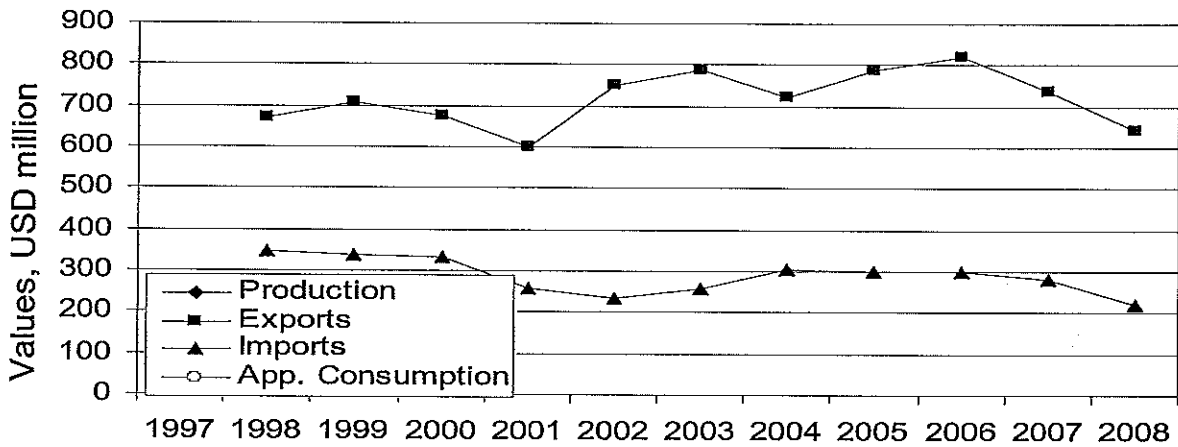
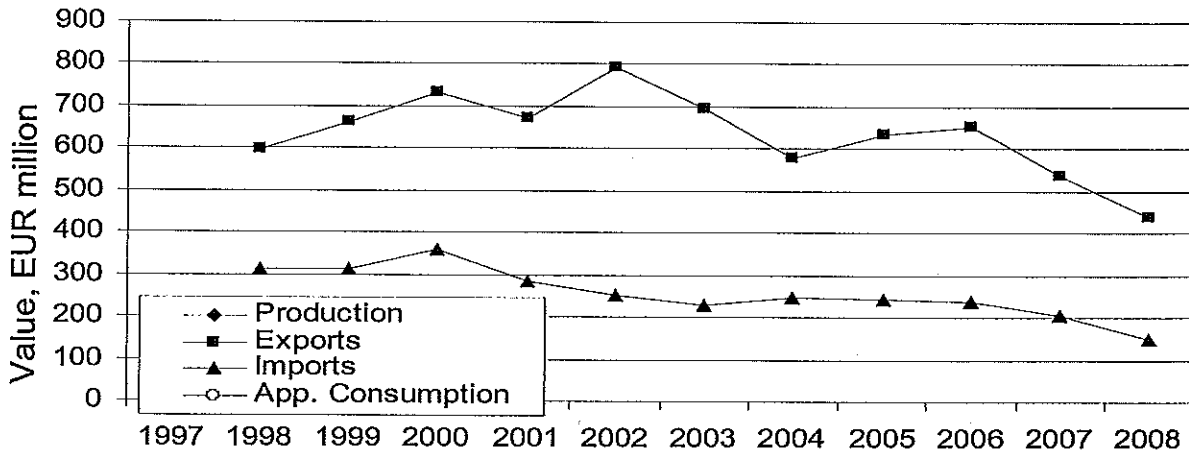
Country	2017	2018
Algeria	100	100
Argentina	100	100
Australia	100	100
Austria	100	100
Bahrain	100	100
Bangladesh	100	100
Belgium	100	100
Brazil	100	100
Canada	100	100
China	100	100
Colombia	100	100
Costa Rica	100	100
Cuba	100	100
Czechia	100	100
Denmark	100	100
Egypt	100	100
France	100	100
Germany	100	100
Ghana	100	100
Greece	100	100
India	100	100
Indonesia	100	100
Italy	100	100
Japan	100	100
Korea	100	100
Lebanon	100	100
Malaysia	100	100
Mexico	100	100
Netherlands	100	100
Nigeria	100	100
Poland	100	100
Portugal	100	100
Russia	100	100
Saudi Arabia	100	100
Spain	100	100
Sweden	100	100
Switzerland	100	100
Taiwan	100	100
Tanzania	100	100
Thailand	100	100
Turkey	100	100
USA	100	100
Ukraine	100	100
UK	100	100
Uzbekistan	100	100
Vietnam	100	100
Zimbabwe	100	100

## 4.1. Canada

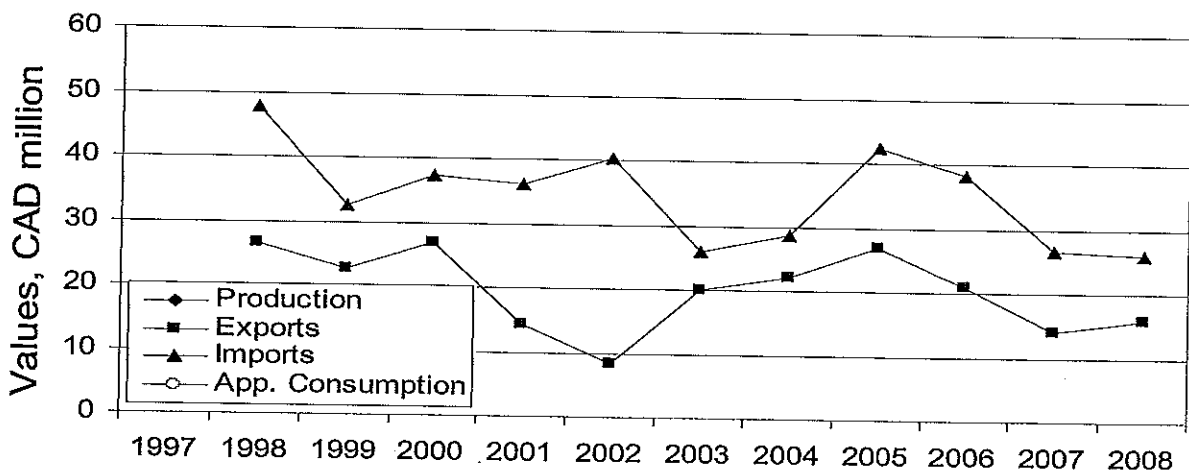
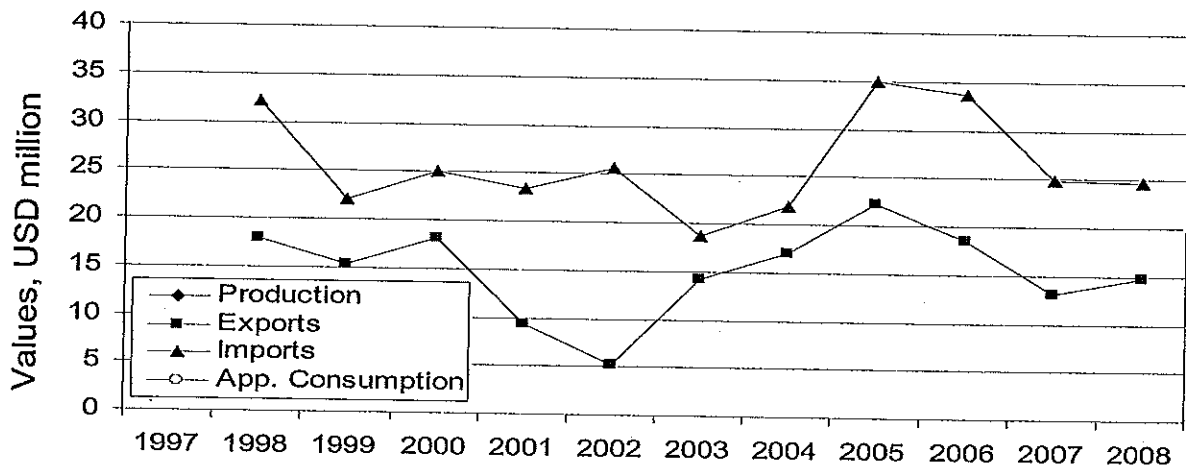
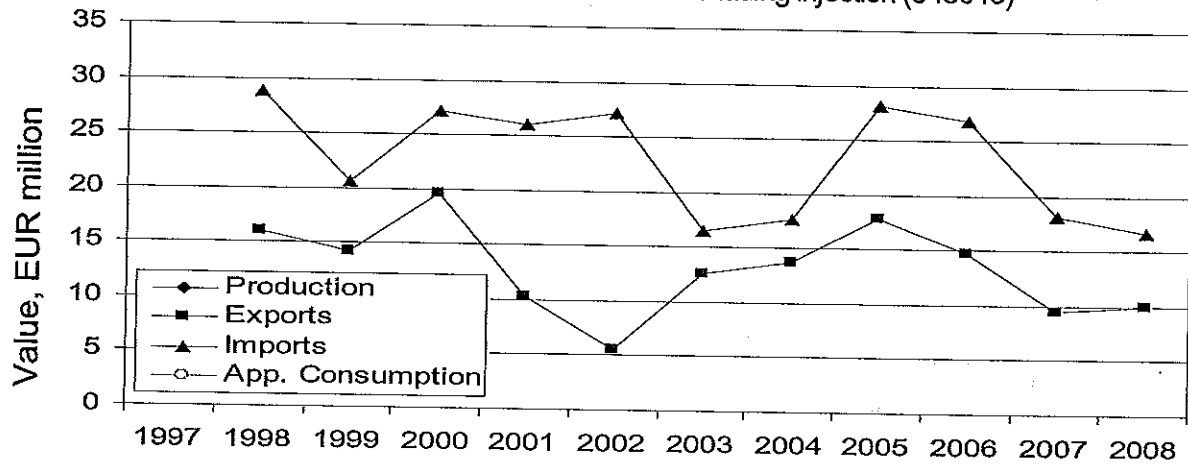
Canada - Tools for pressing, stamping, punching and forming (820730)



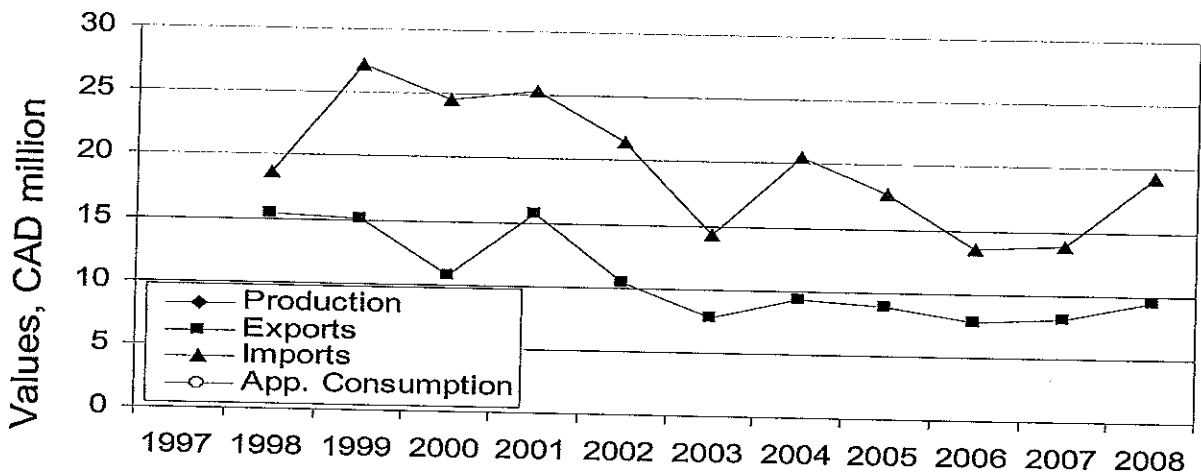
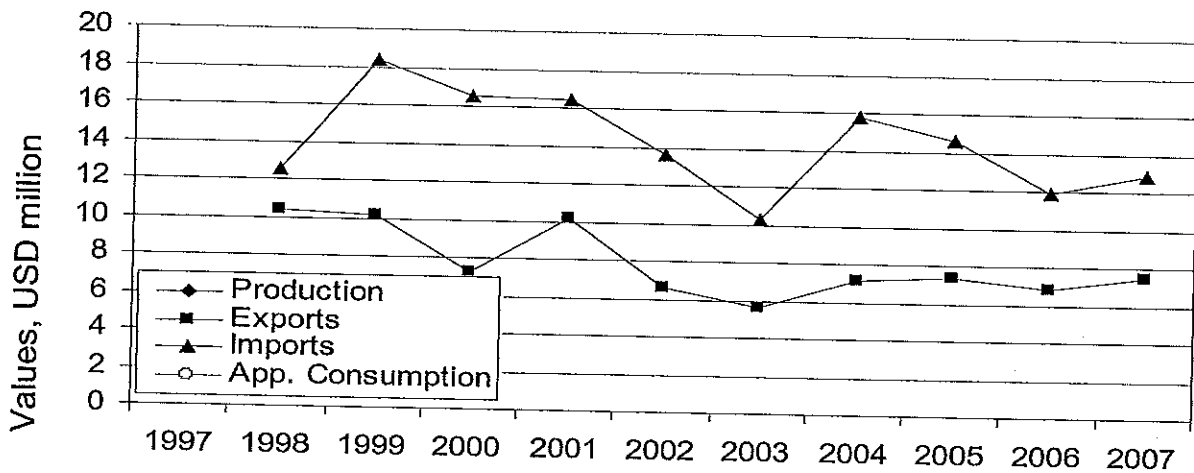
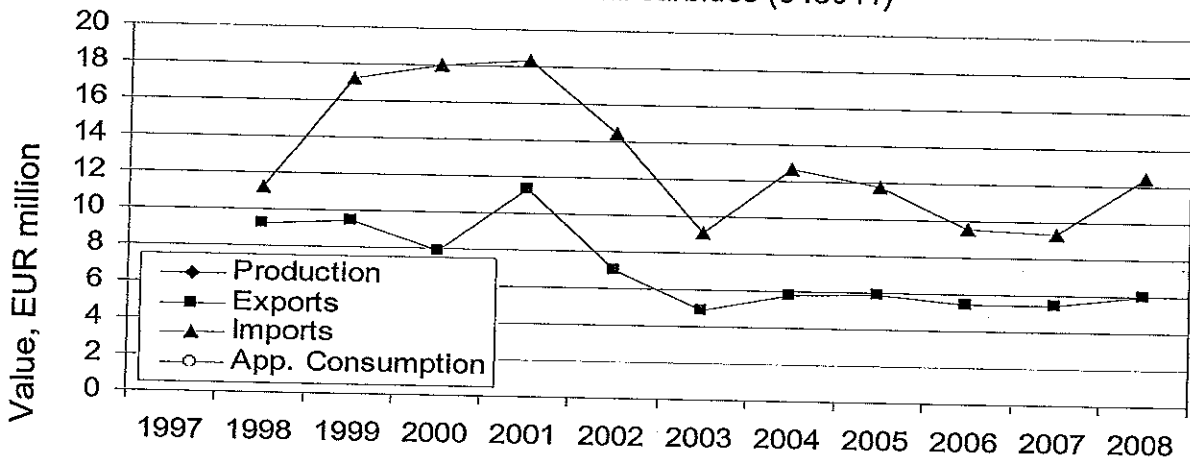
Canada - Injection and compression moulds for plastics (849071+848079)



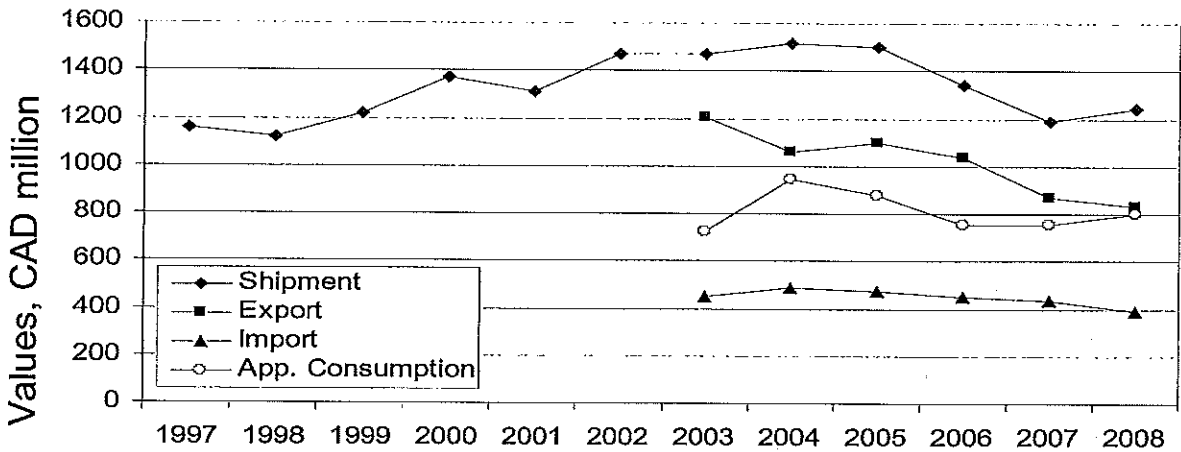
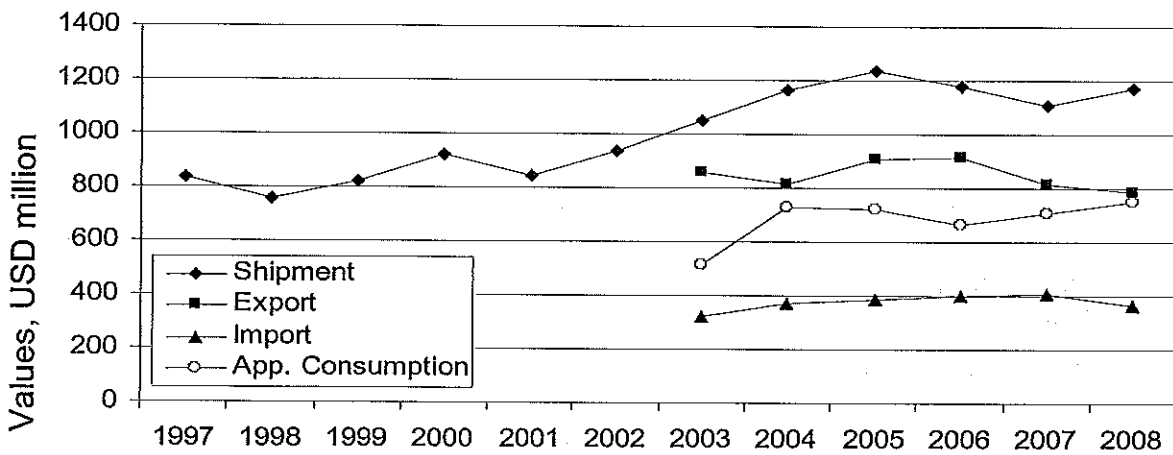
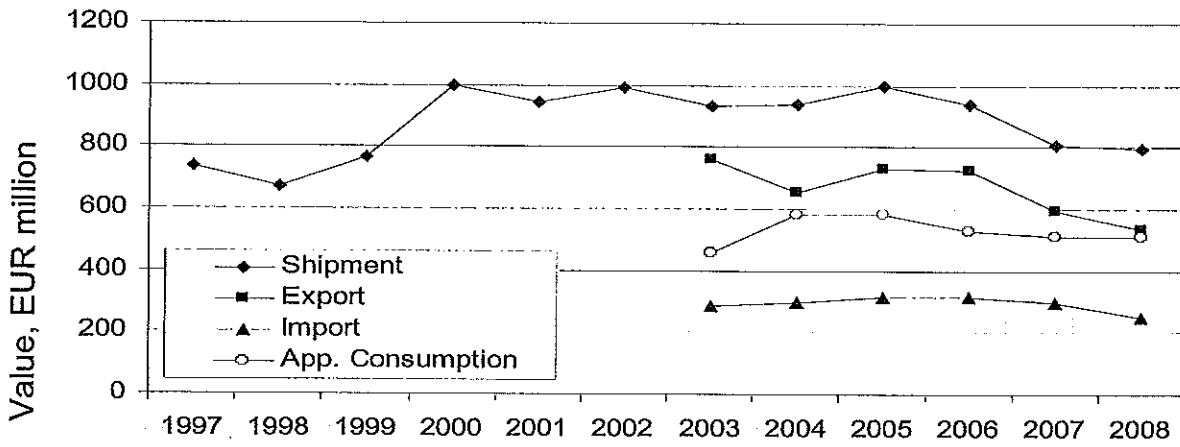
Canada - Mould tools for metal or metal carbides excluding injection (848049)



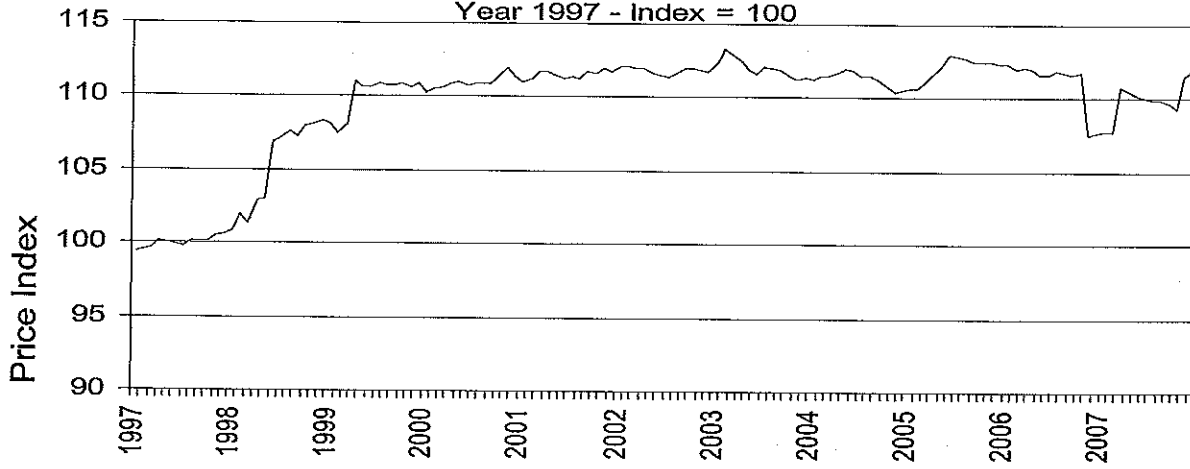
Canada - Mould tools for metal or metal carbides (848041)



Canada – NAICS – Shipments - Industrial mould manufacturing 333511

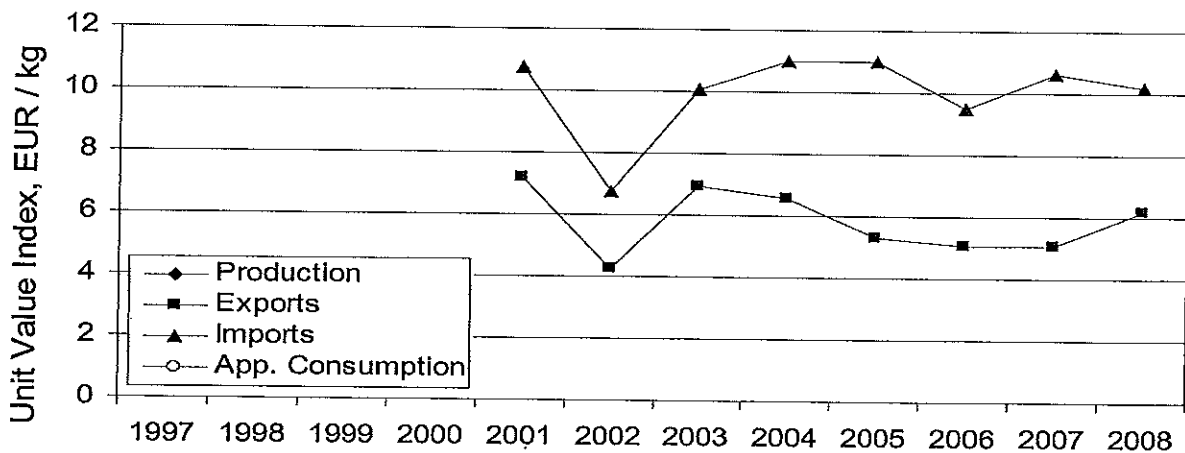
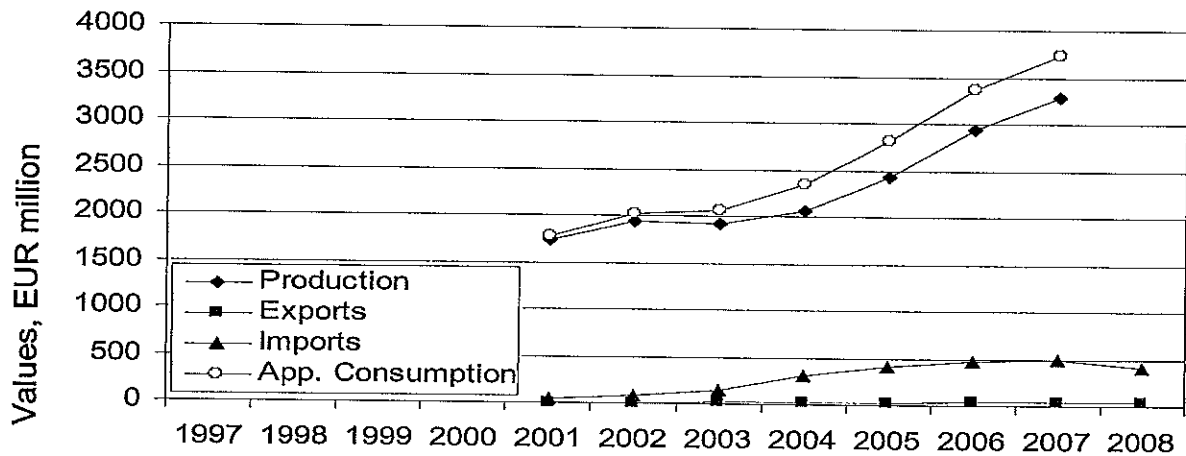
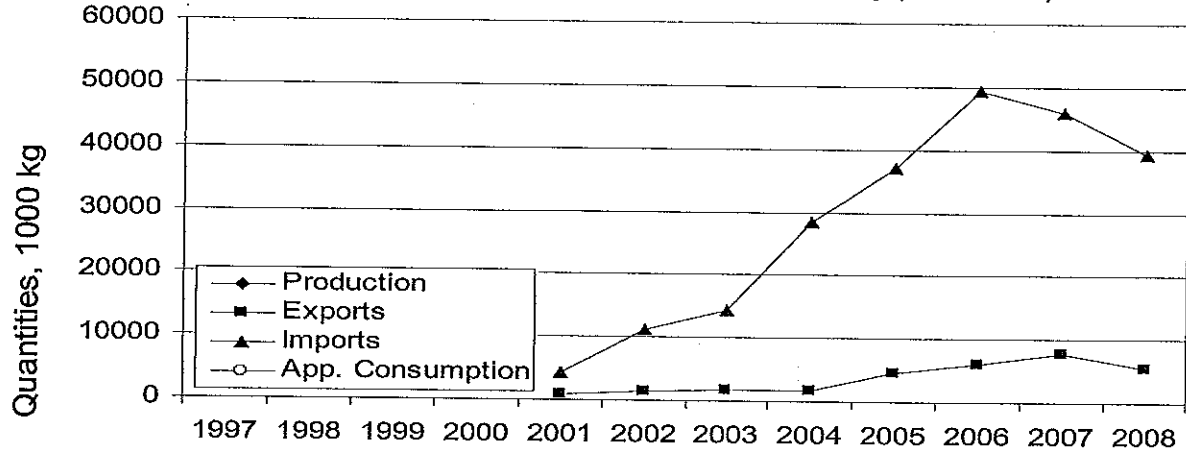


Canada - Moulds for Plastic and Rubber, moulds and cutting and forming tools  
Year 1997 - Index = 100

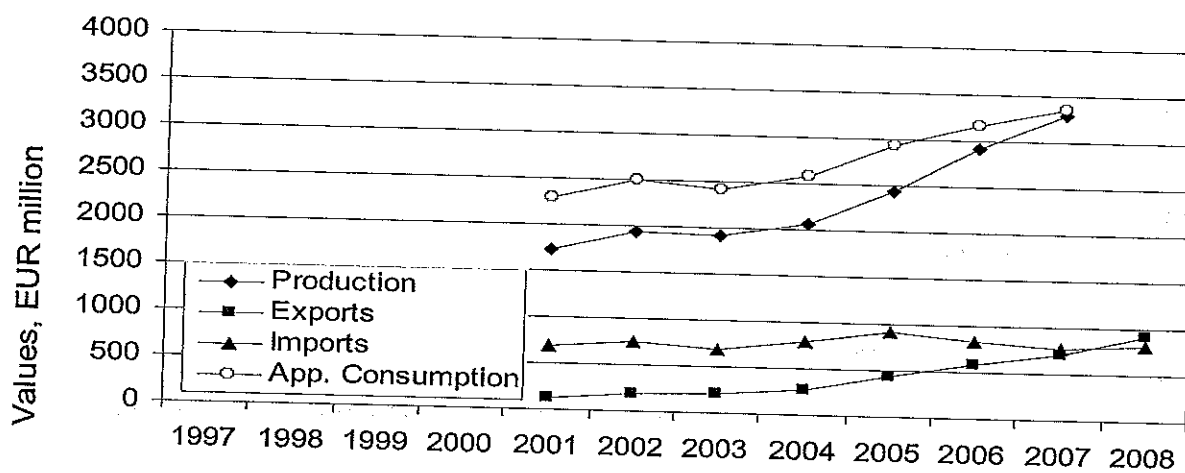


## 4.2. China (EUR)

China - Tools for pressing, stamping, punching and forming (82073000)

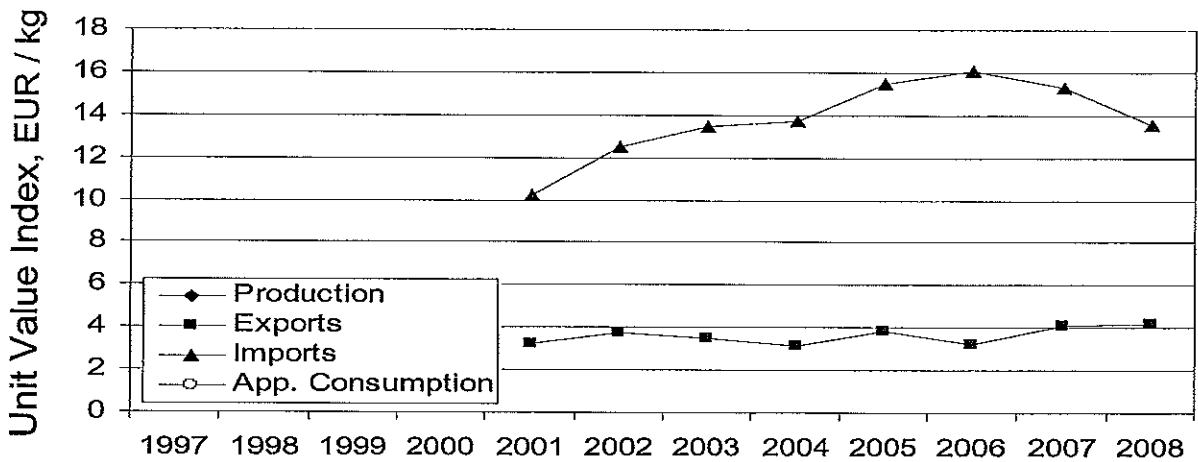
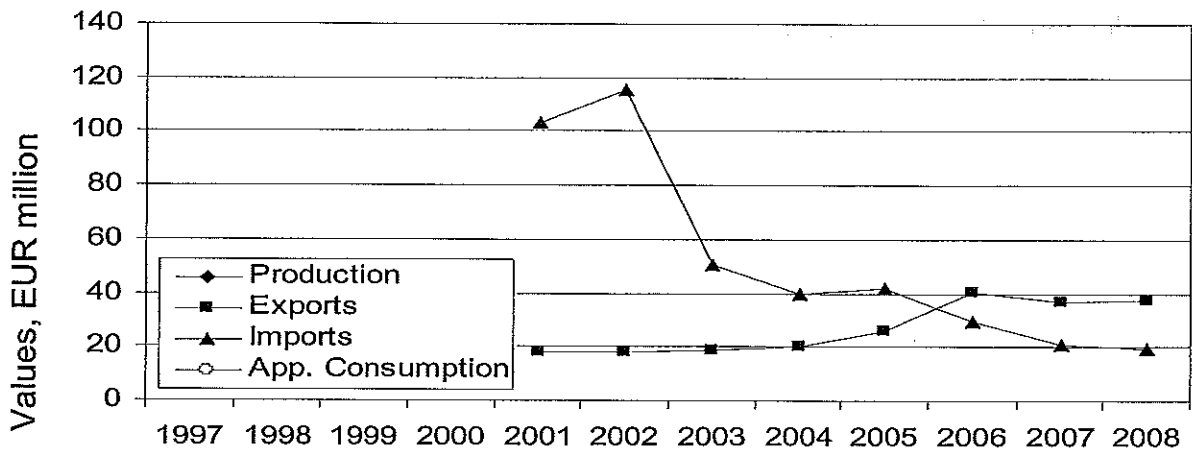
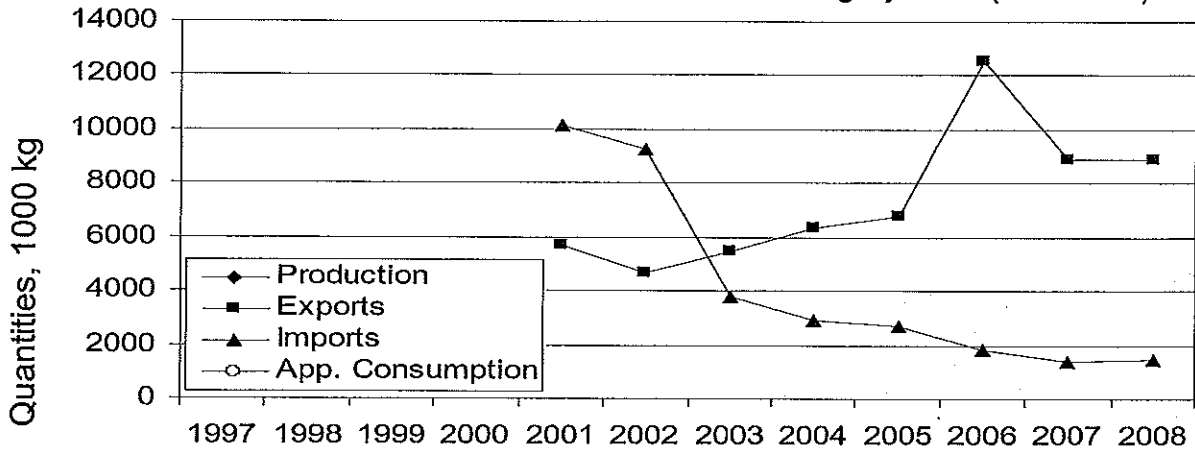


China - Injection and compression moulds for plastics (84807100 + 84807900)

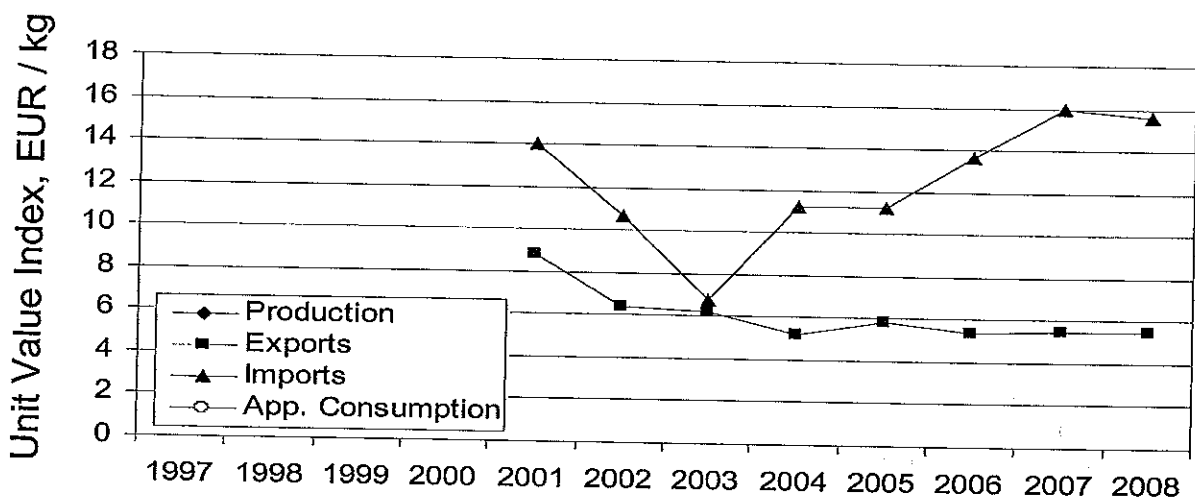
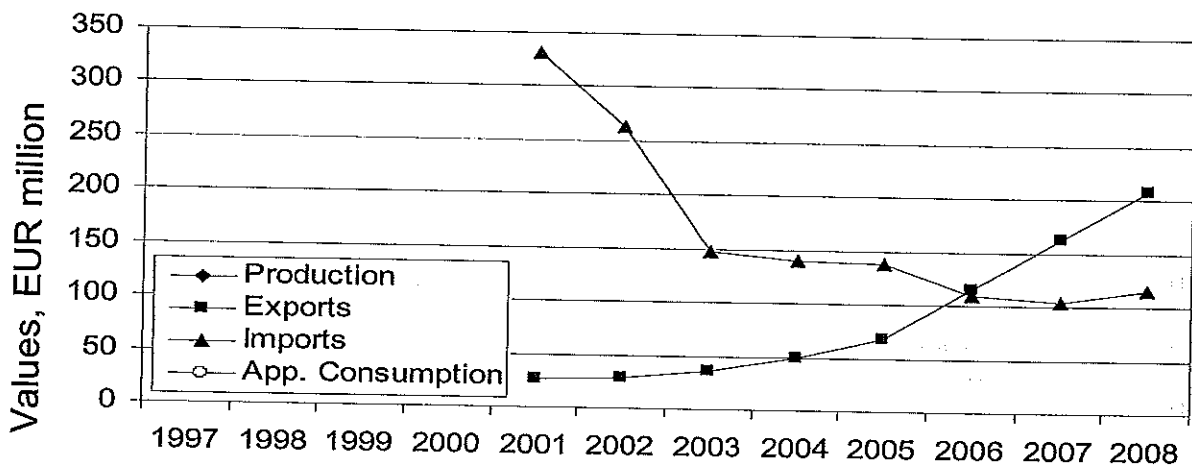
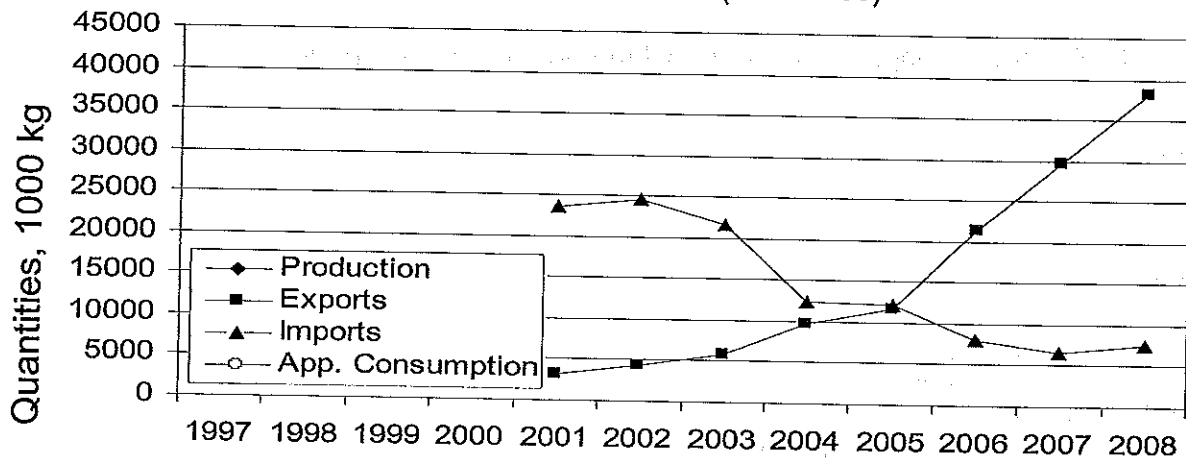


Note: production values estimated

China - Mould tools for metal or metal carbides excluding injection (84804900)

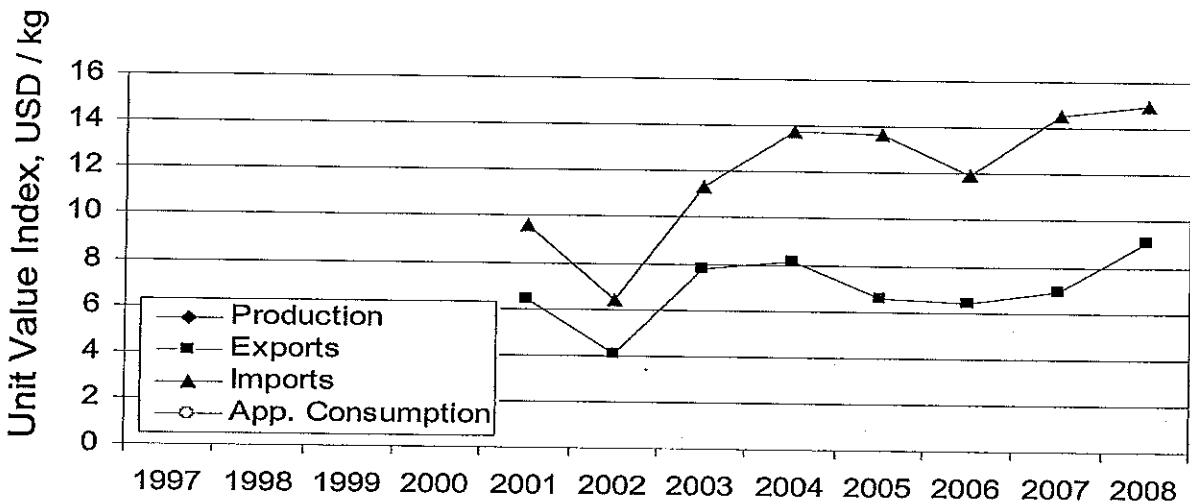
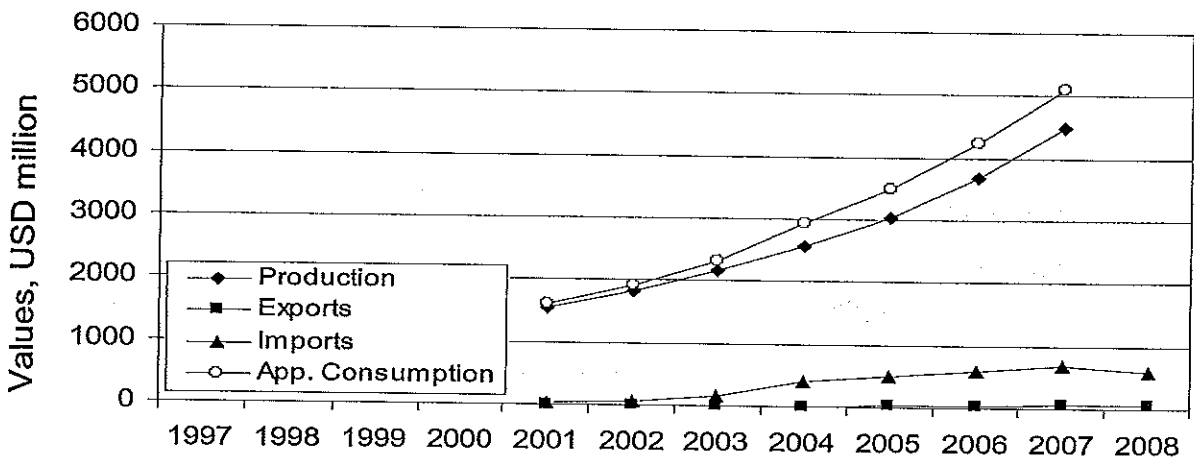
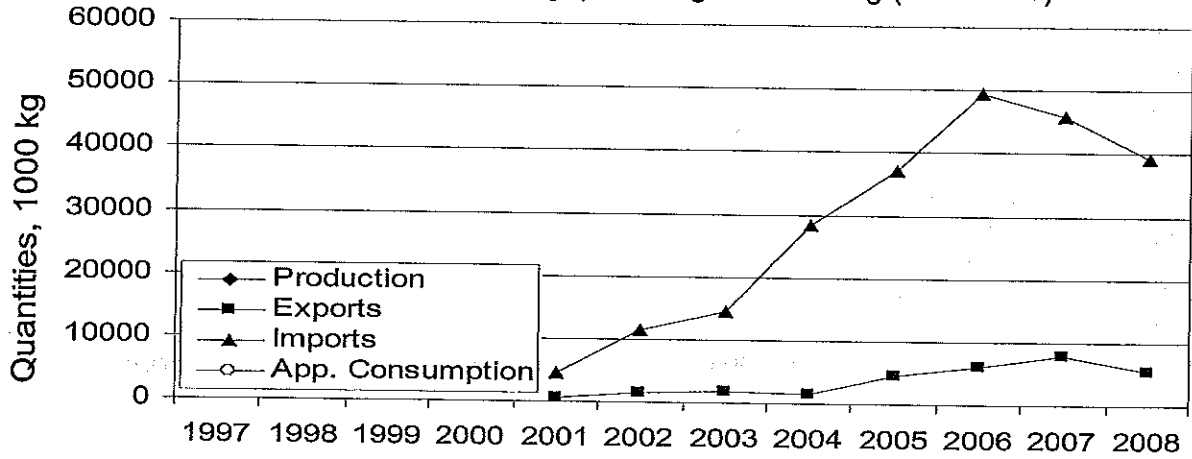


China - Mould tools for metal or metal carbides (84804100)

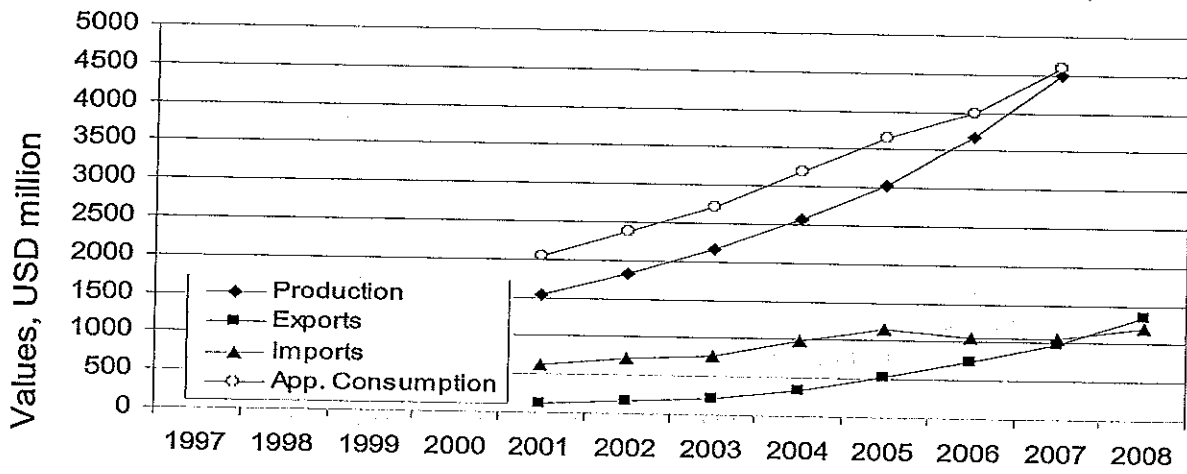


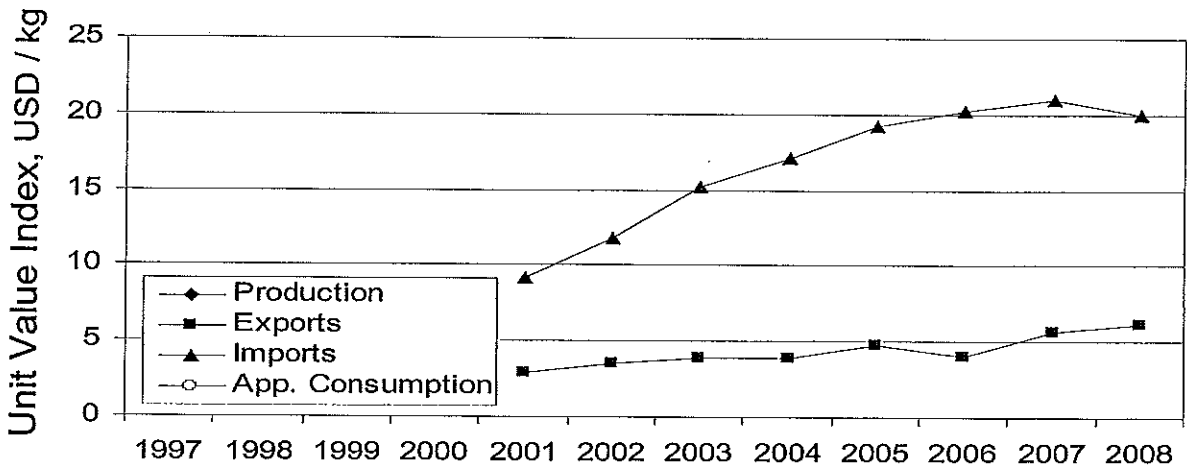
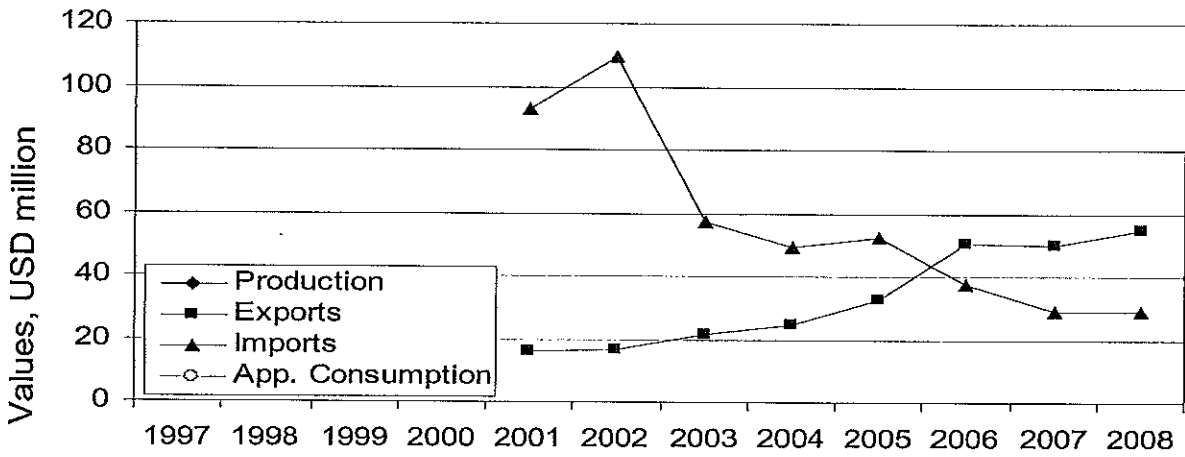
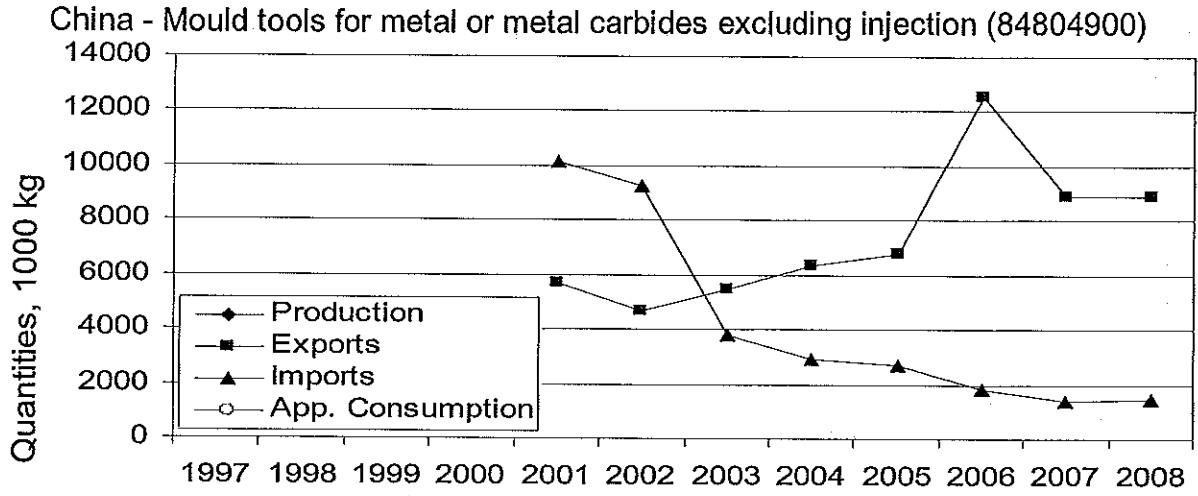
### 4.3. China (USD)

China - Tools for pressing, stamping, punching and forming (82073000)

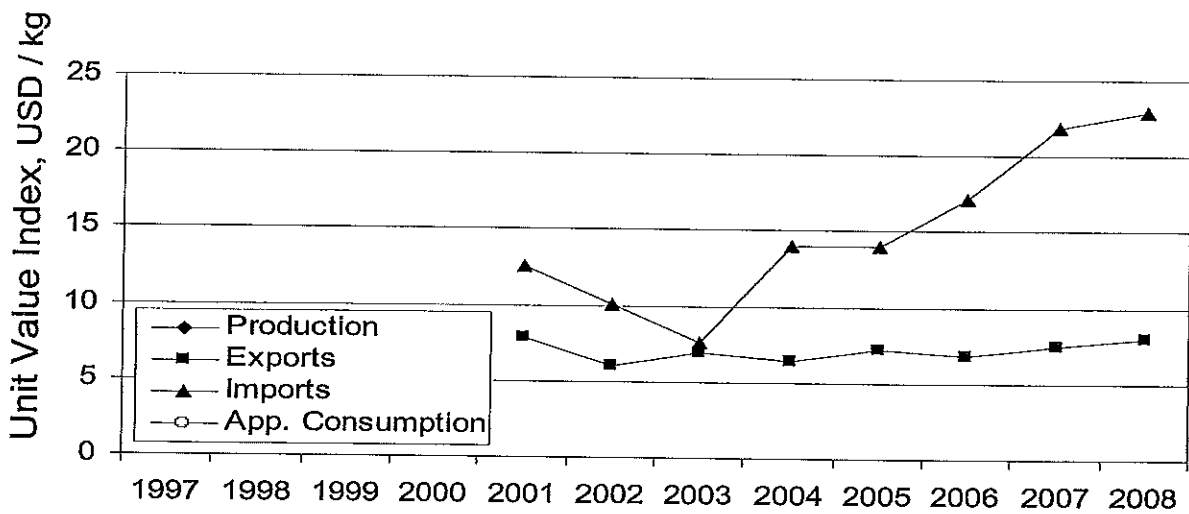
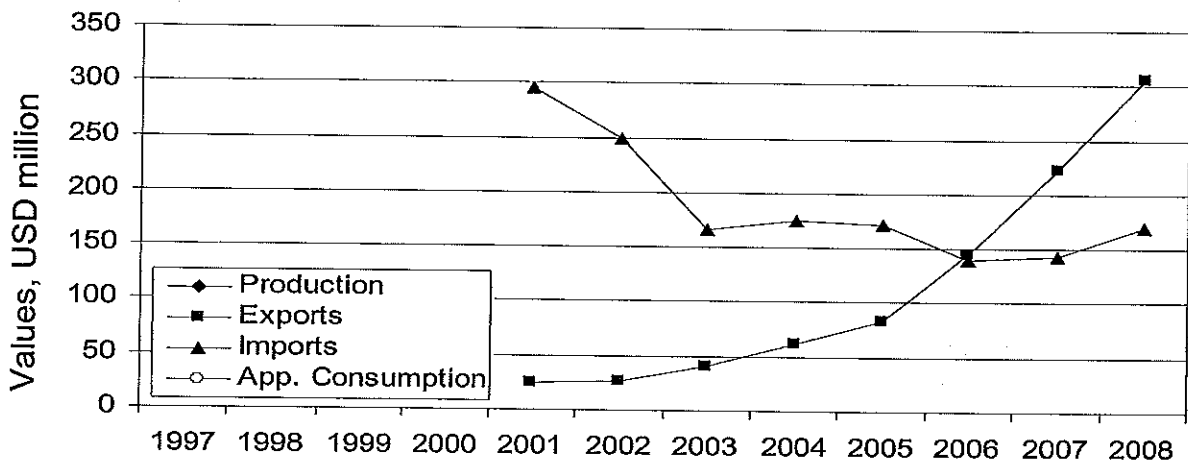
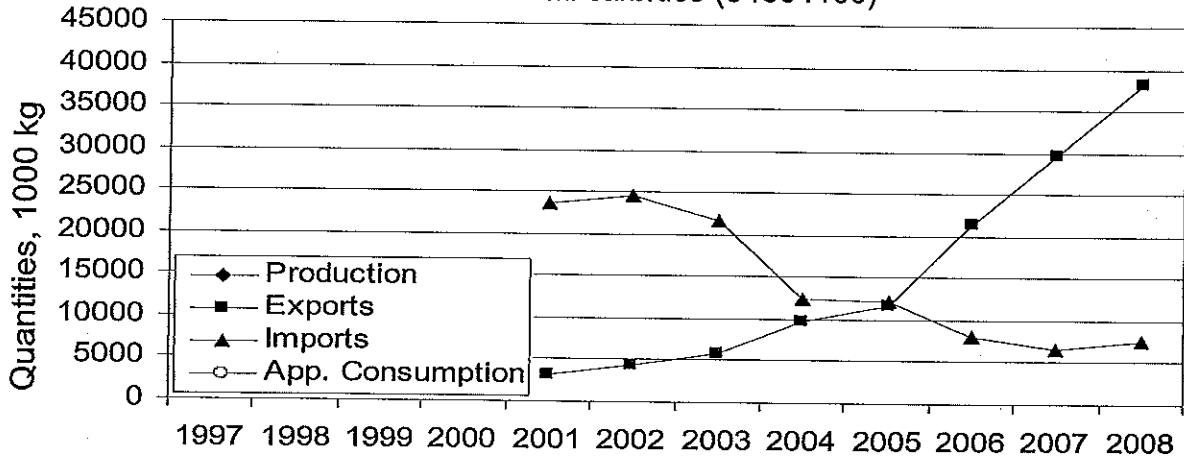


China - Injection and compression moulds for plastics (84807100 + 84807900)



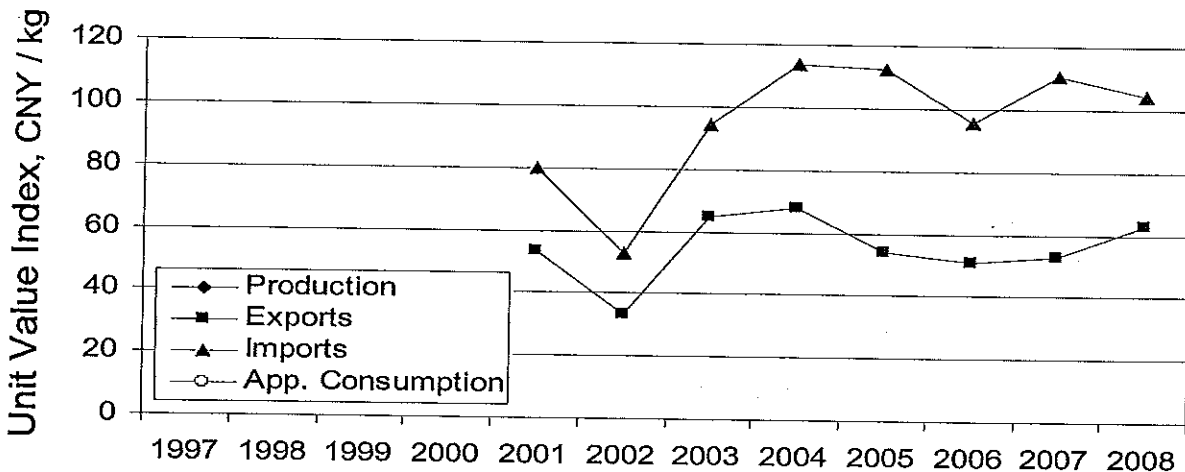
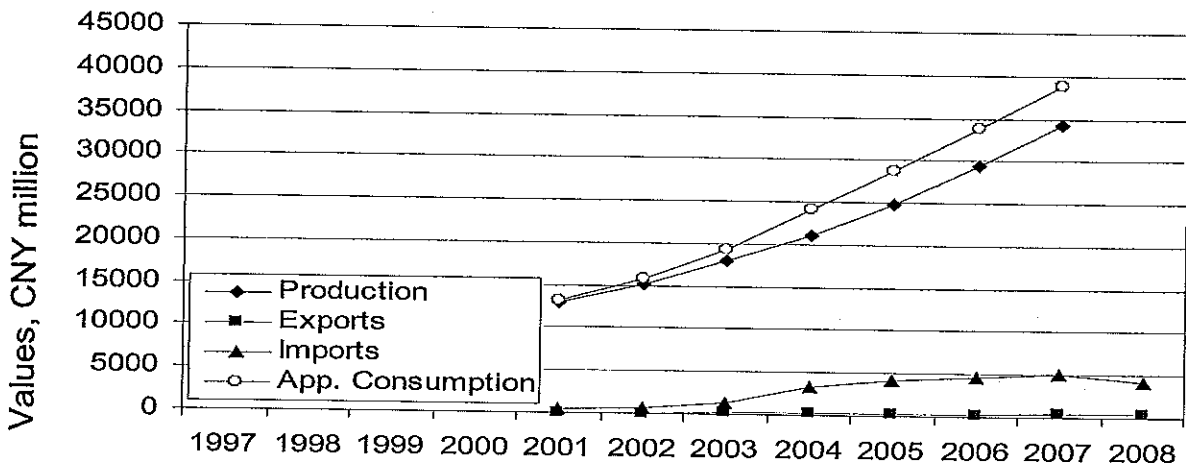
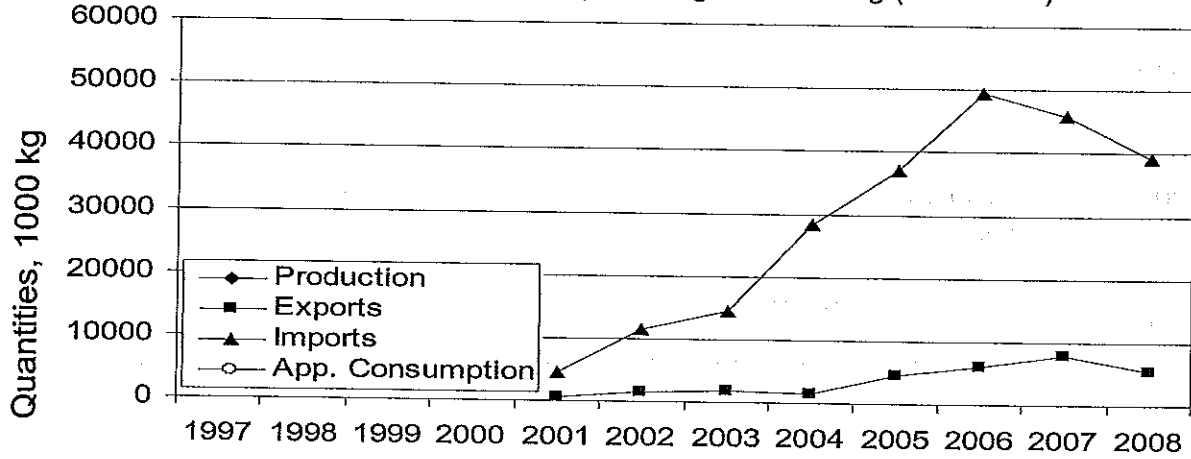


China - Mould tools for metal or metal carbides (84804100)

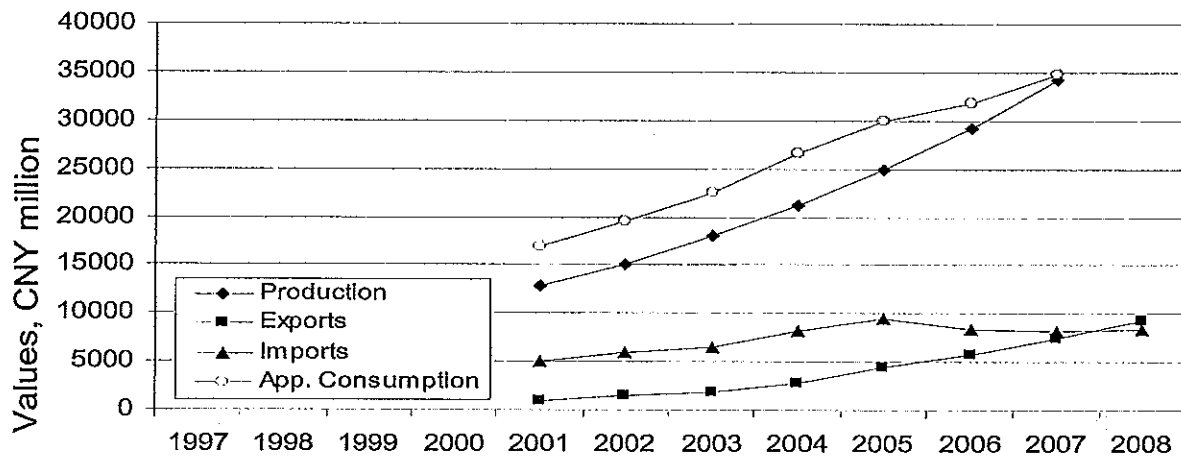


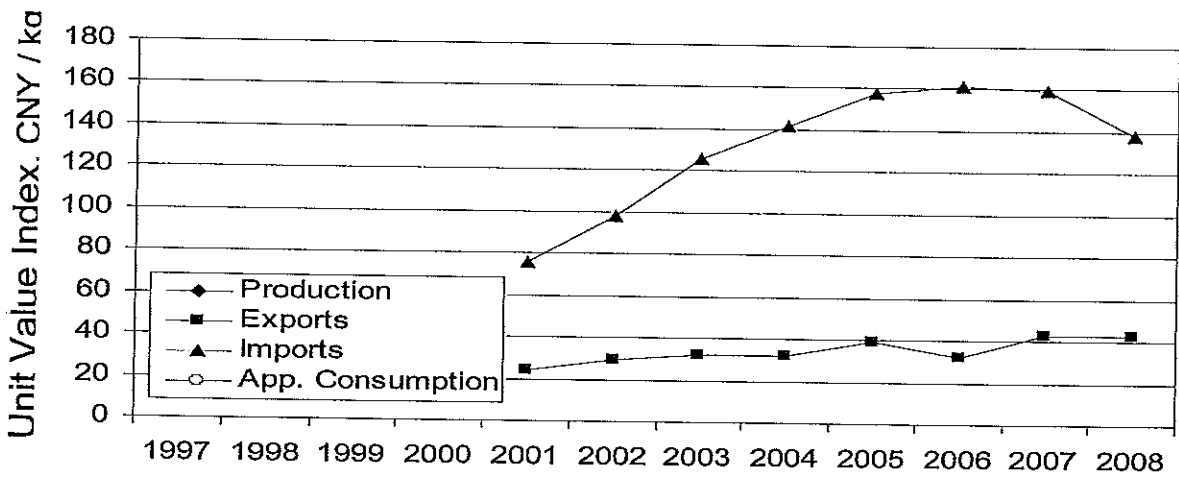
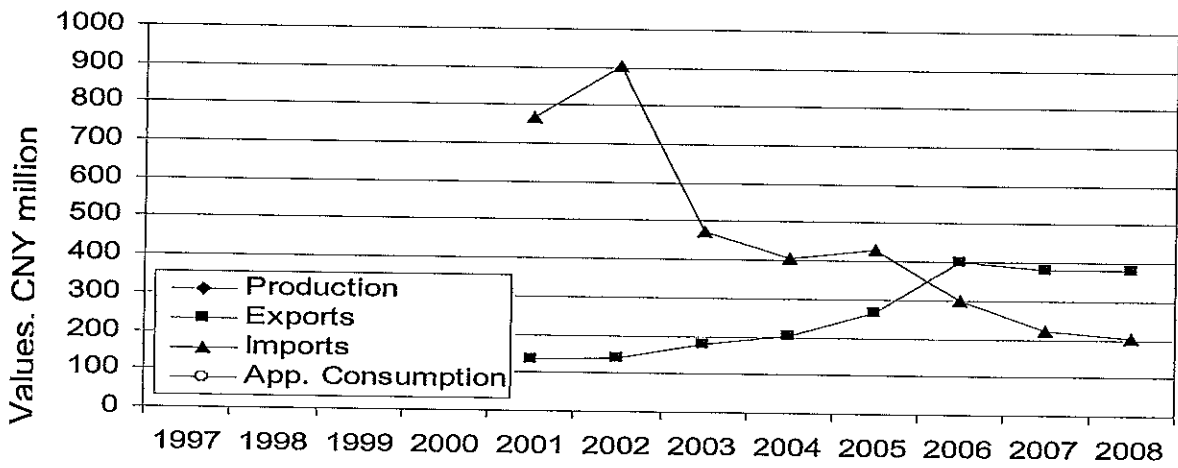
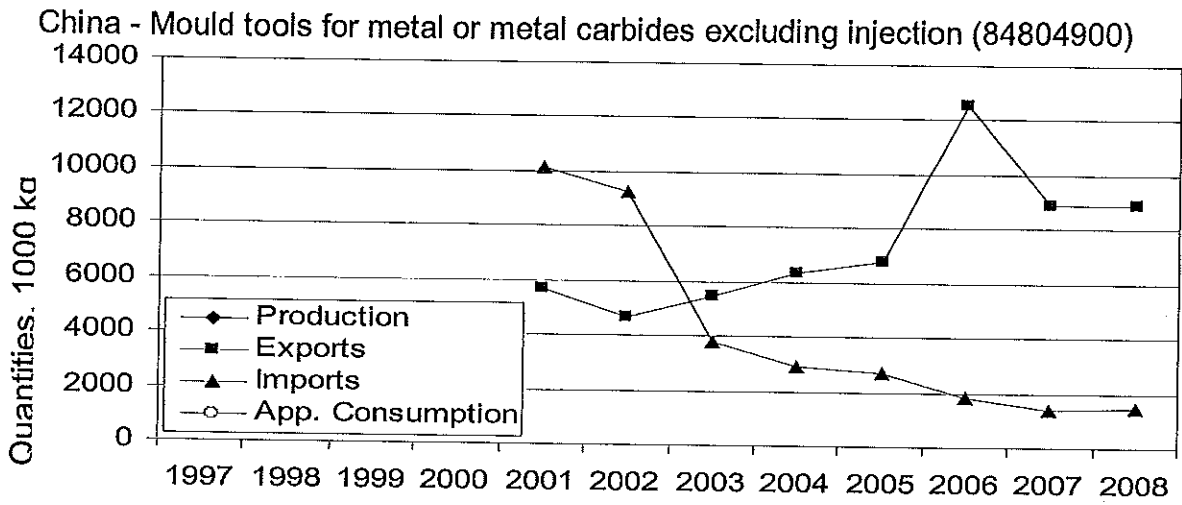
### 4.4. China (CNY - Chinese Yuan Renminbi)

China - Tools for pressing, stamping, punching and forming (82073000)

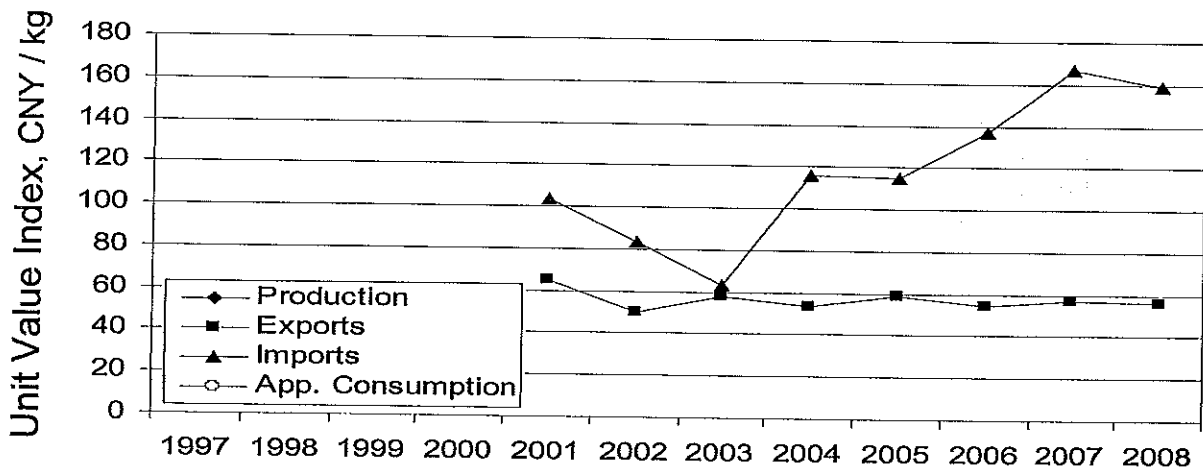
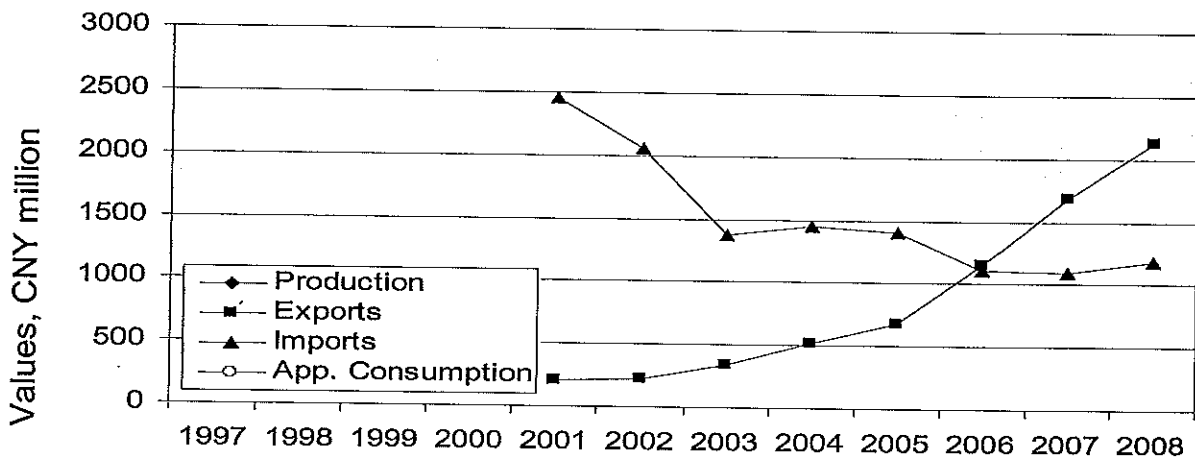
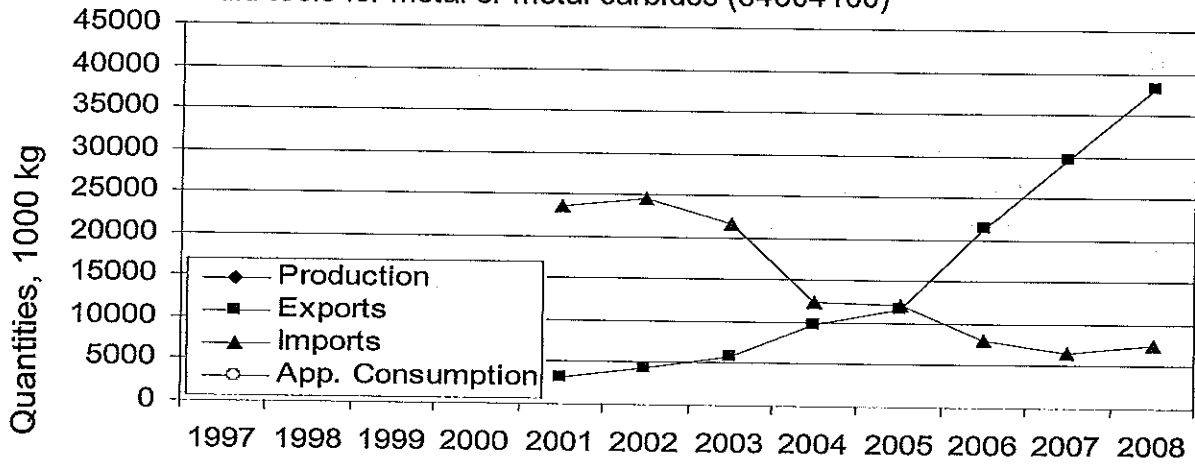


China - Injection and compression moulds for plastics (84807100 + 84807900)



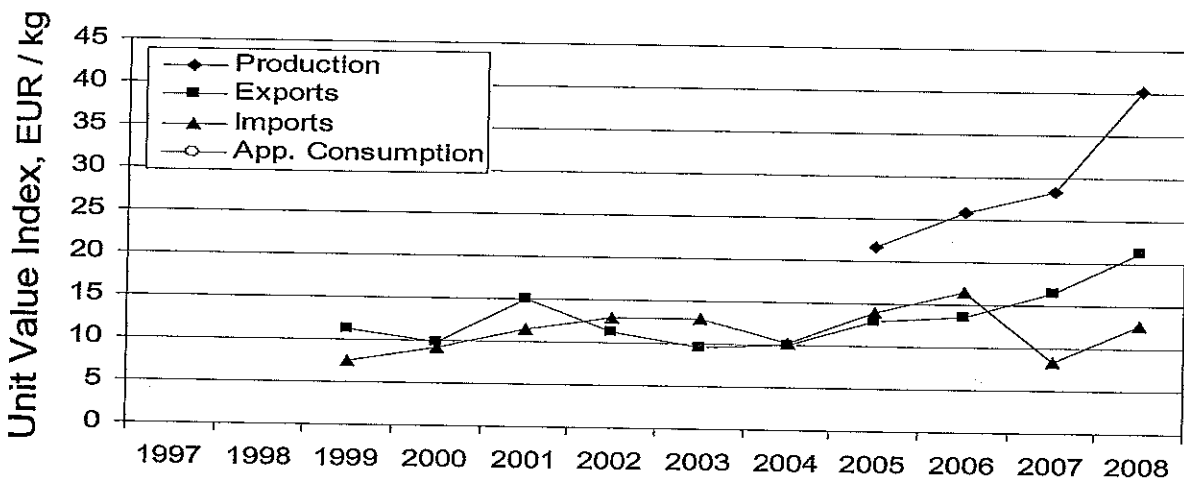
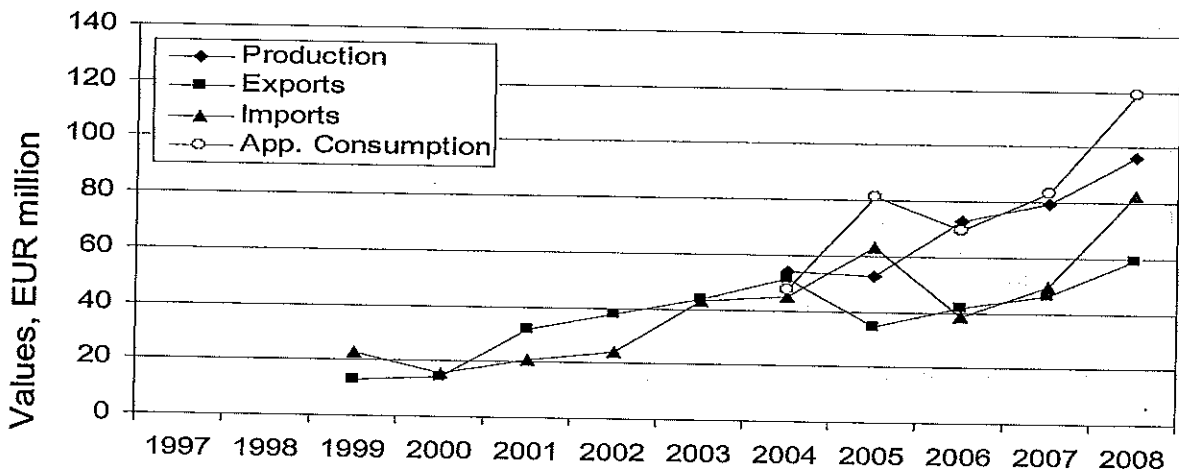
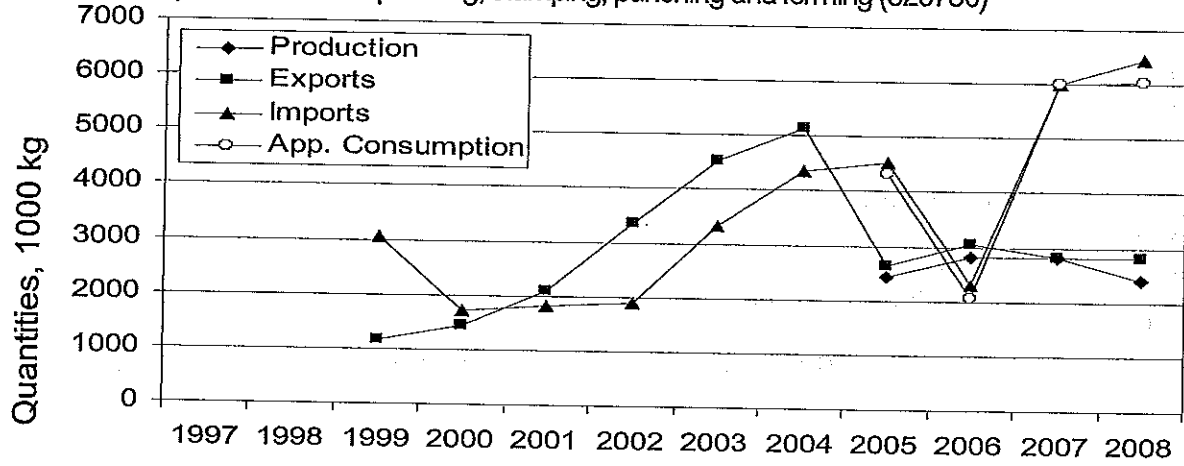


China - Mould tools for metal or metal carbides (84804100)

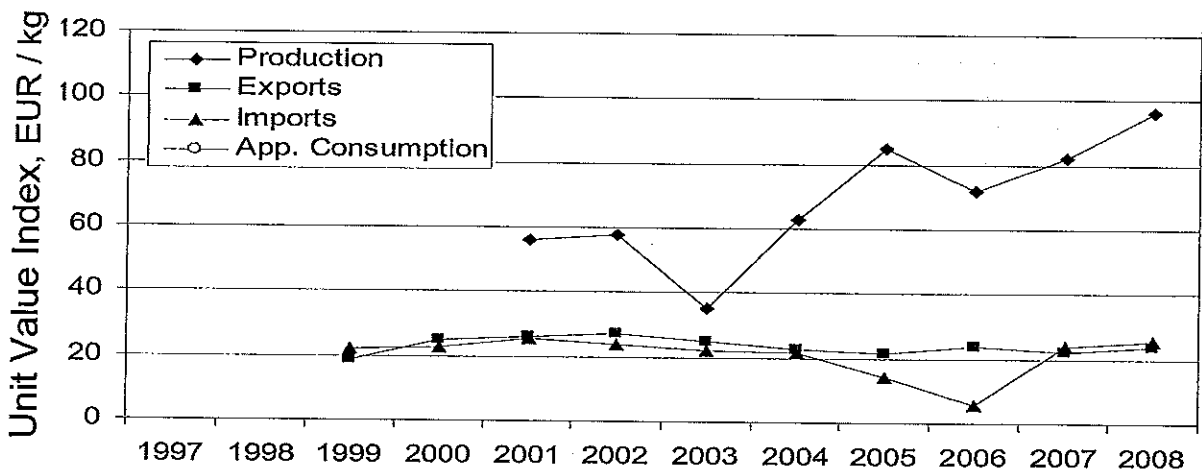
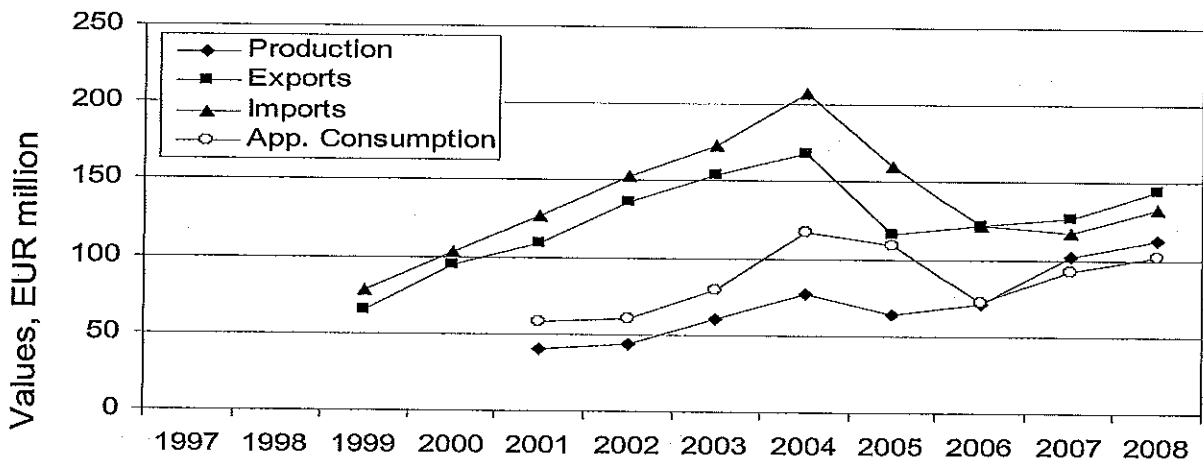
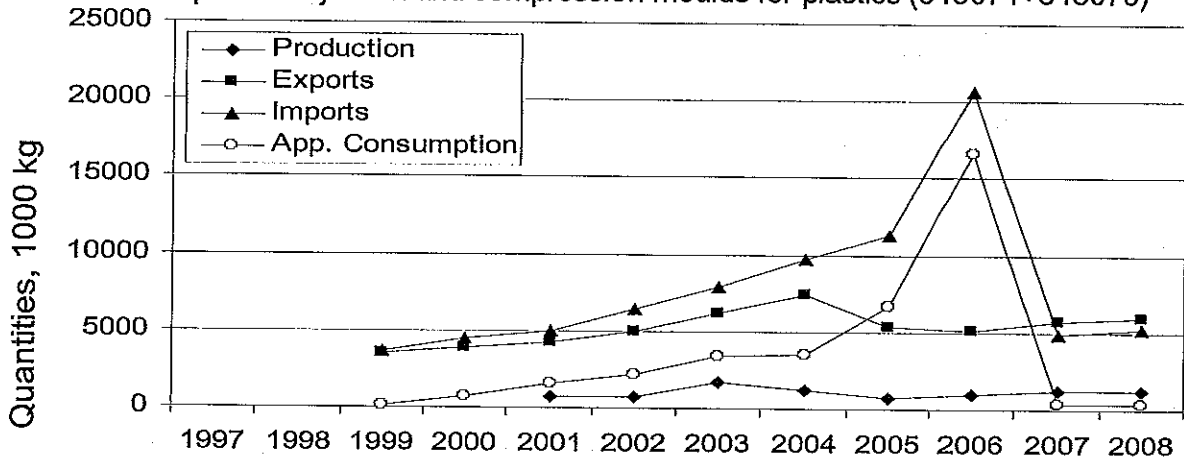


### 4.5. Czech Republic (EUR)

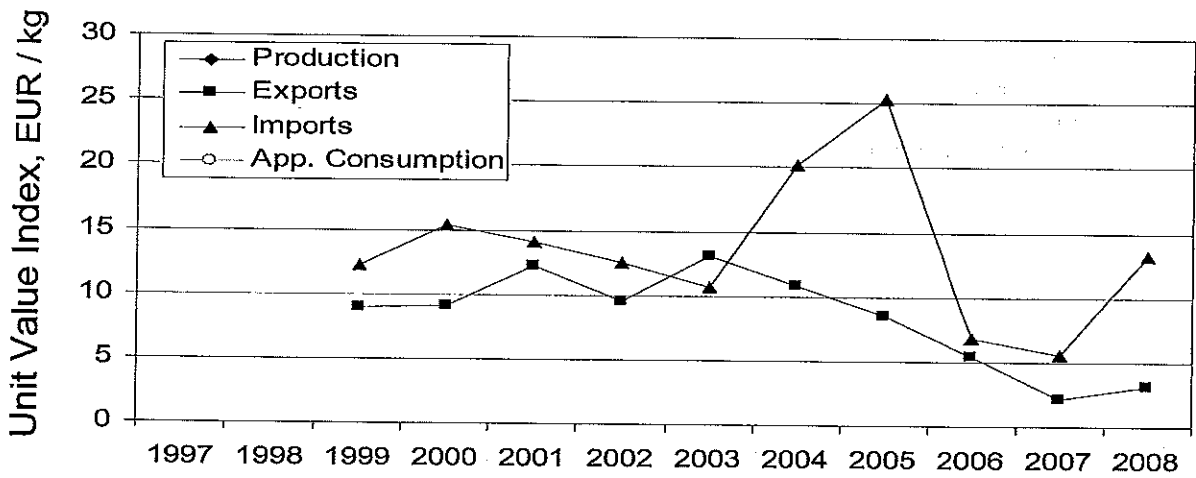
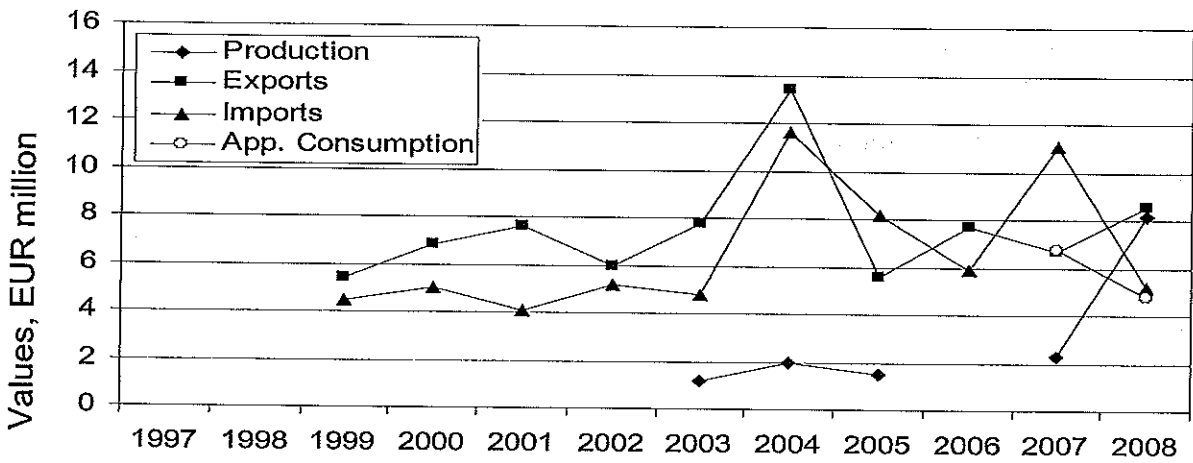
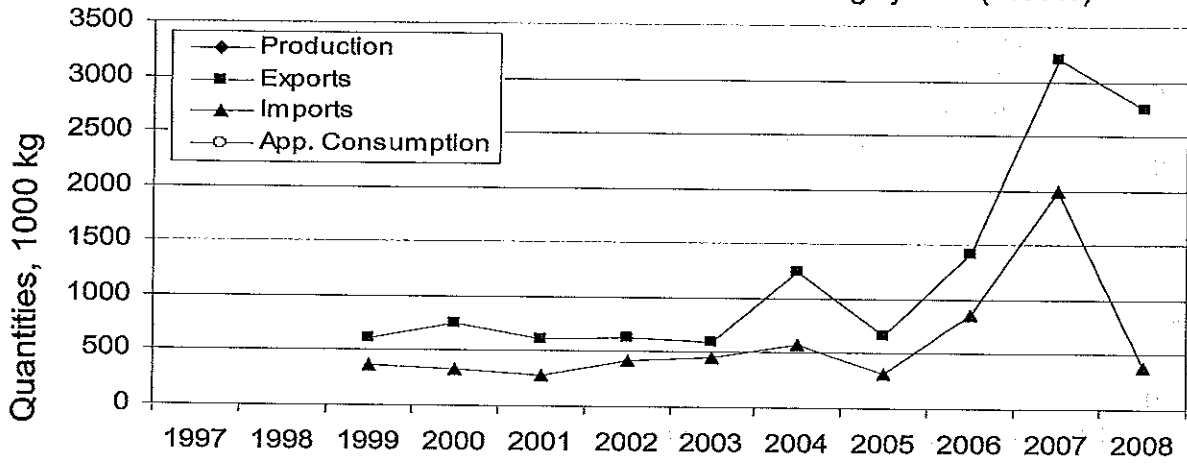
Czech Republic - Tools for pressing, stamping, punching and forming (820730)



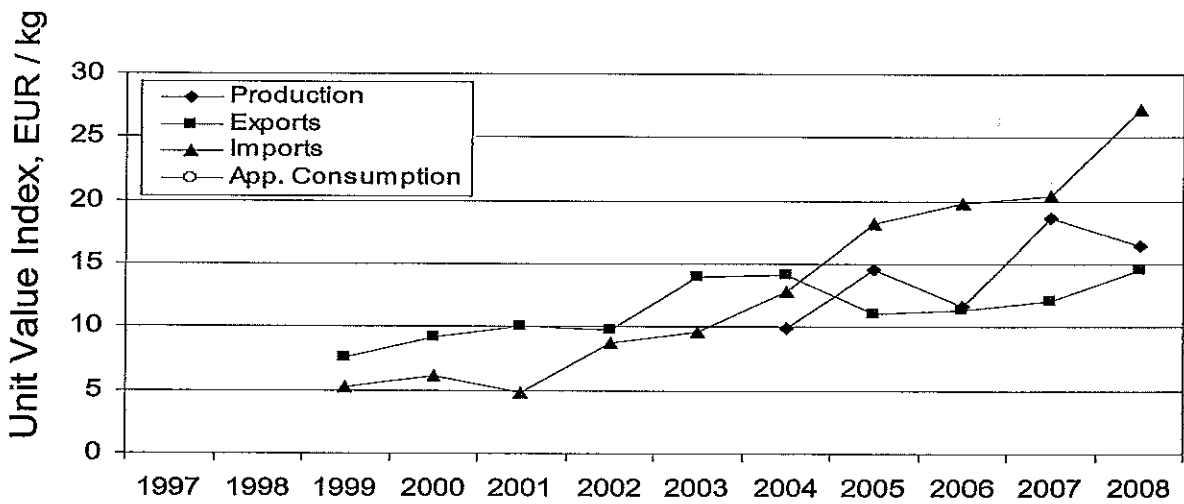
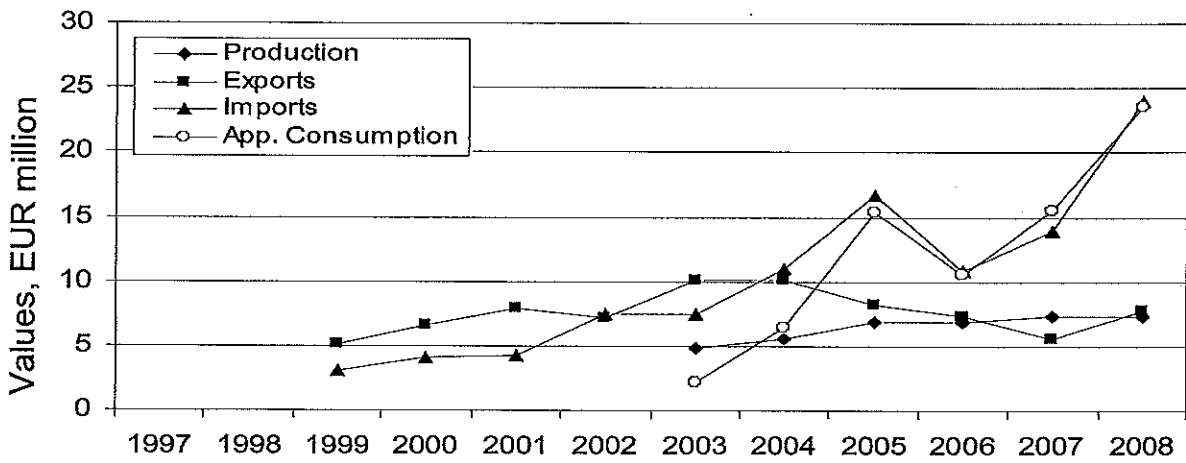
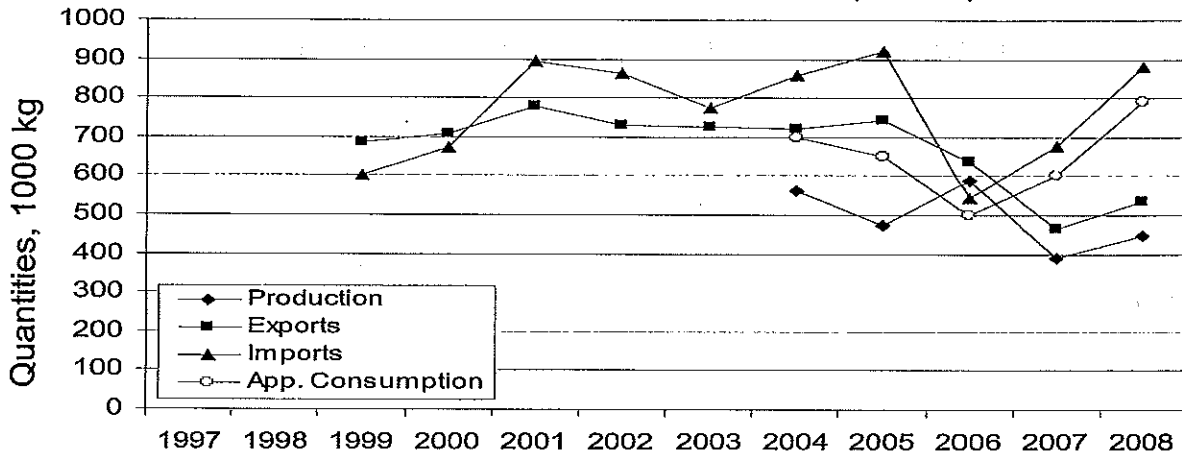
Czech Republic - Injection and compression moulds for plastics (849071+848079)



Czech Republic - Mould tools for metal or metal carbides excluding injection (848049)

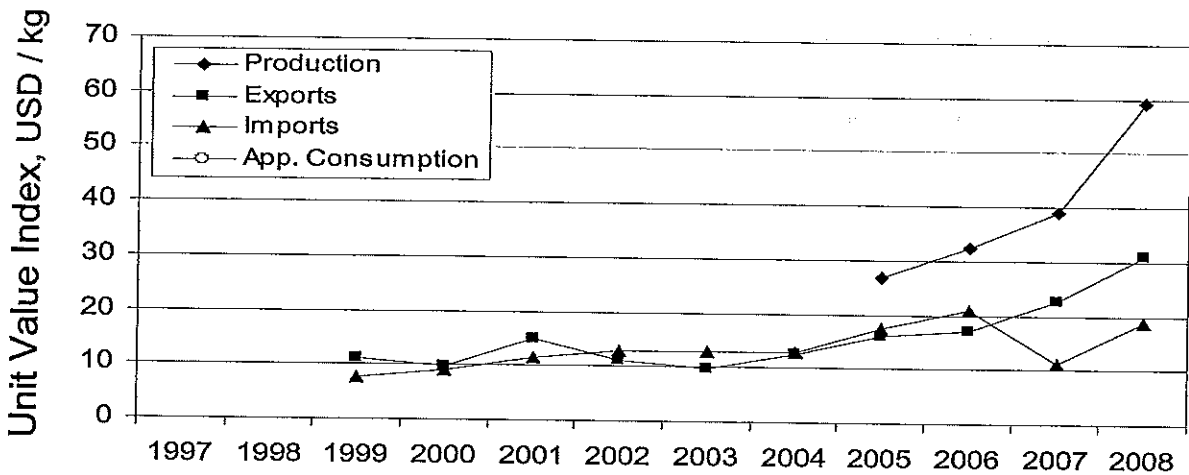
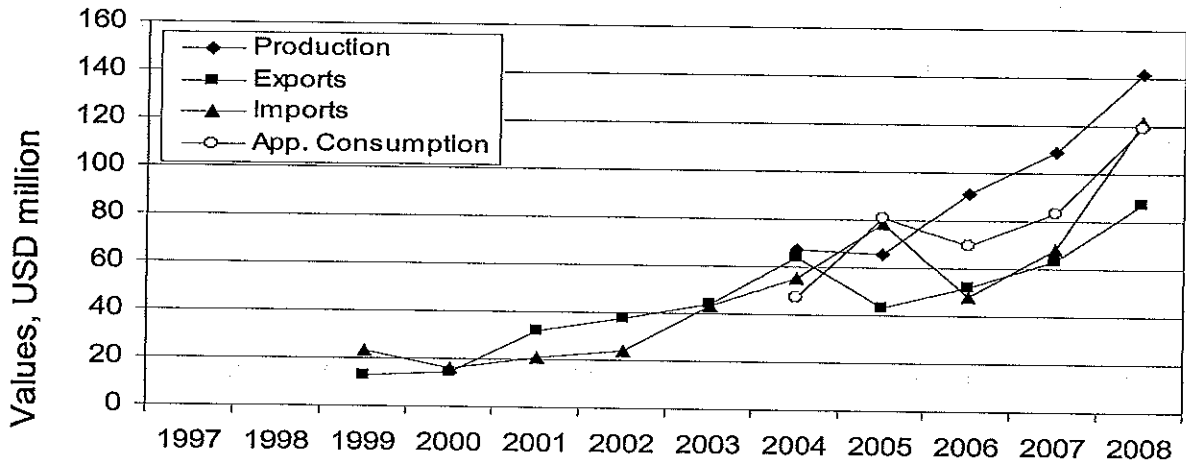
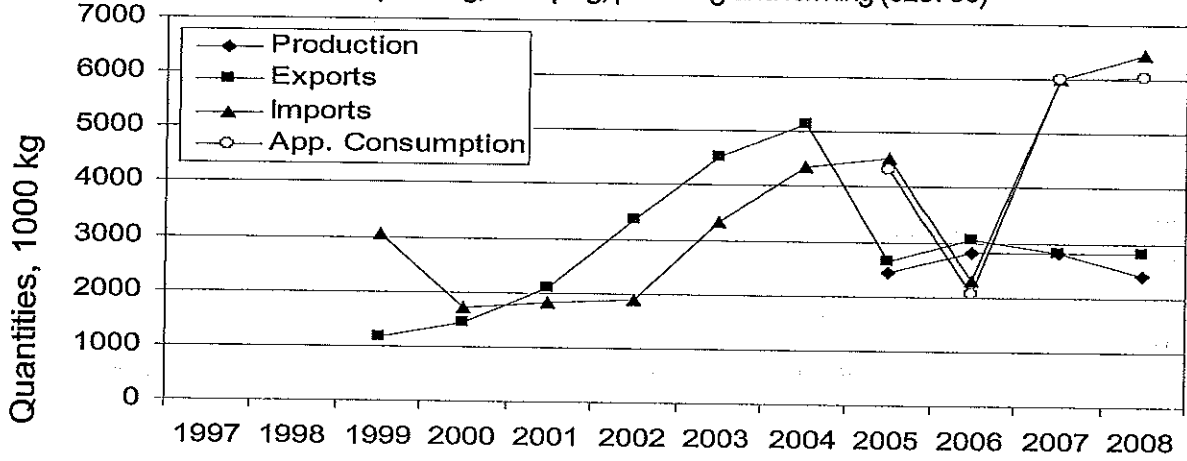


Czech Republic - Mould tools for metal or metal carbides (848041)

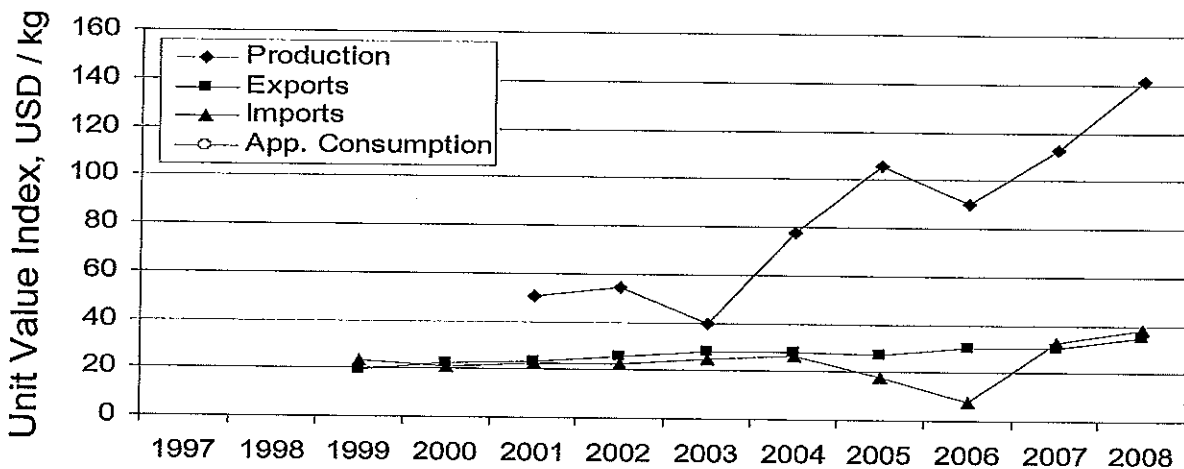
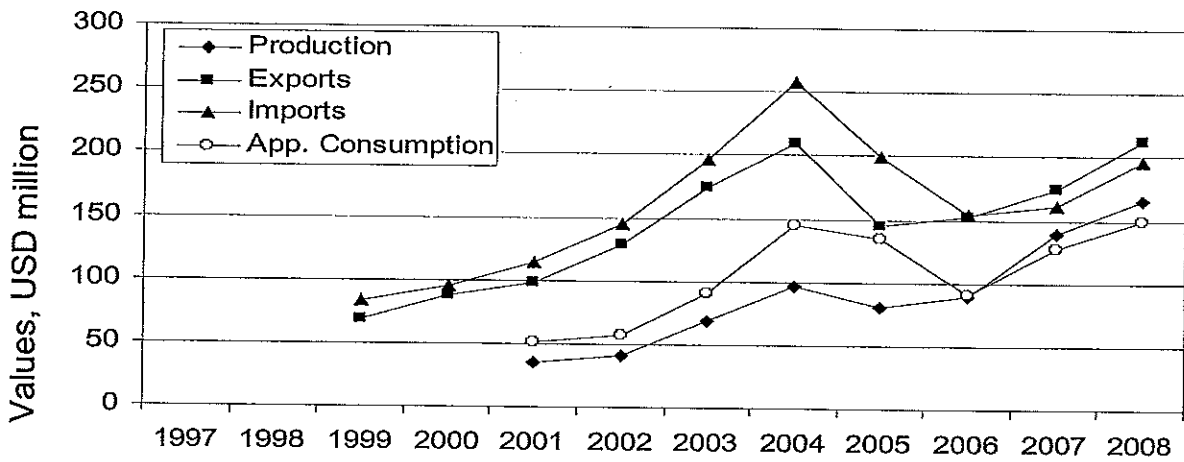
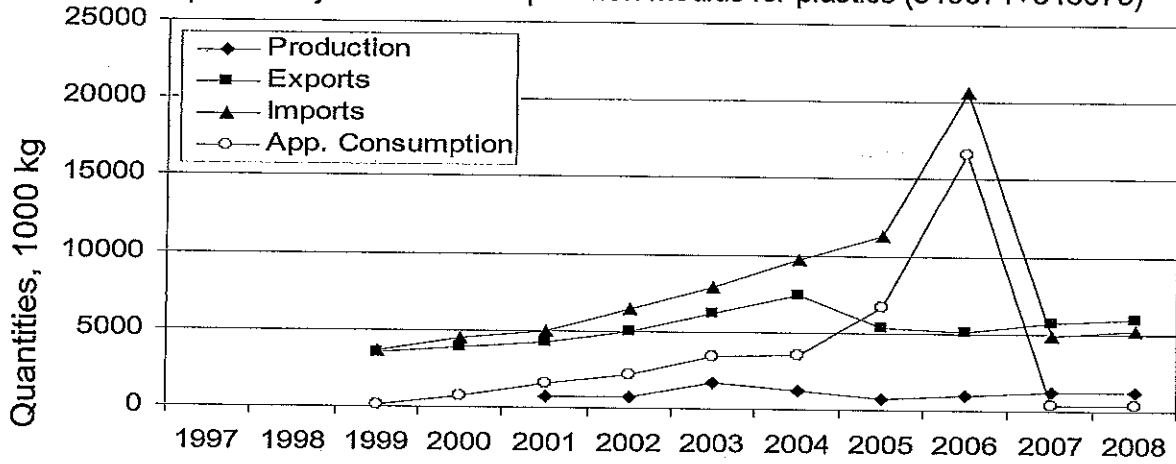


### 4.6. Czech Republic (USD)

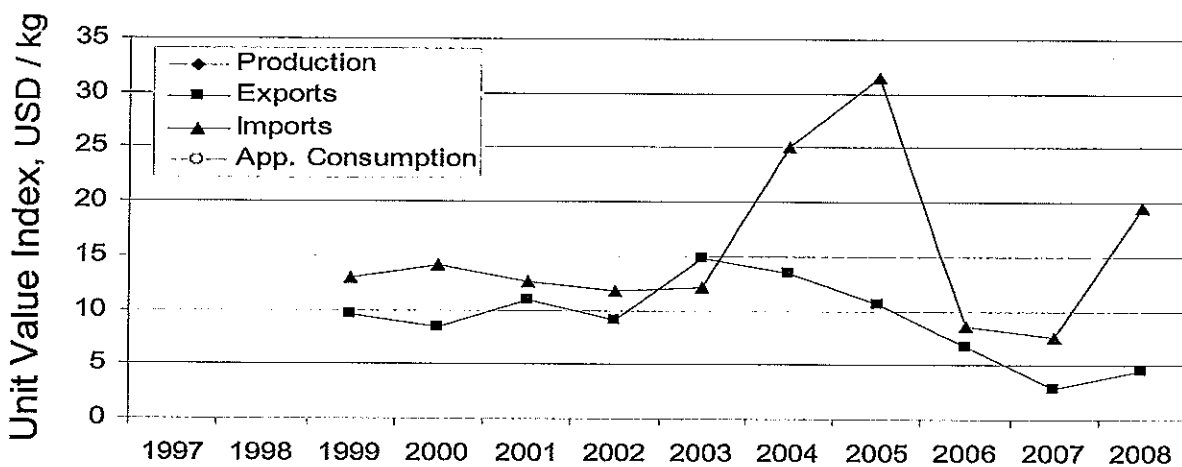
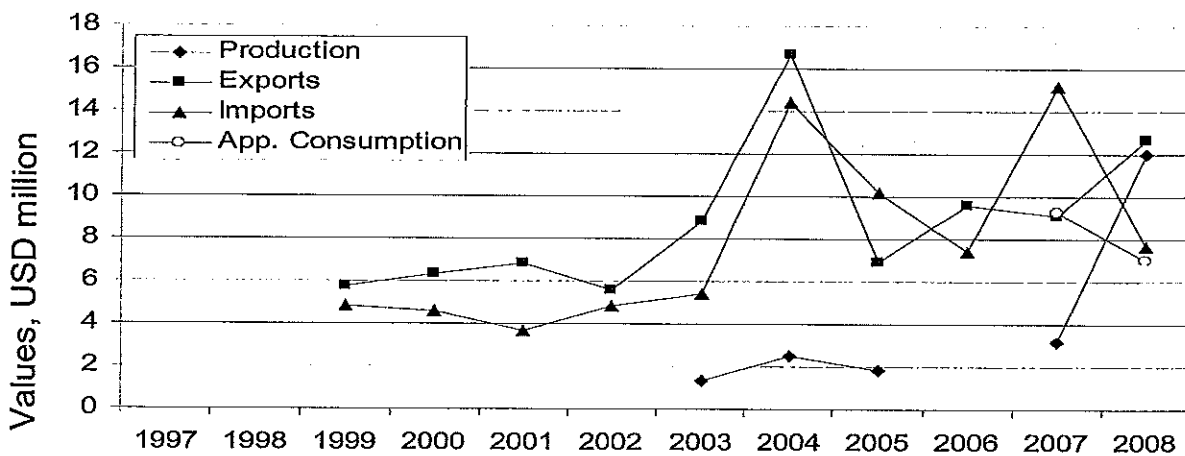
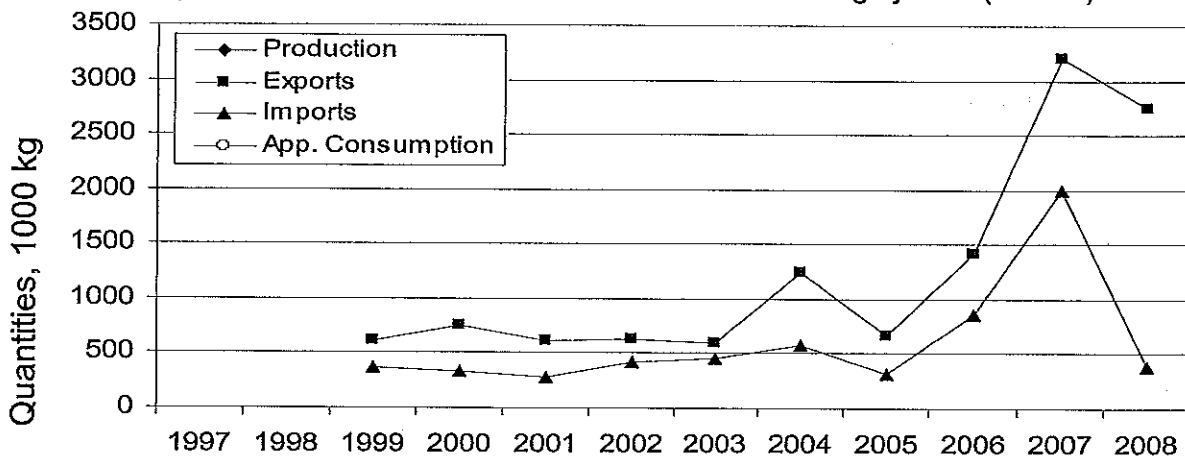
Czech Republic - Tools for pressing, stamping, punching and forming (820730)



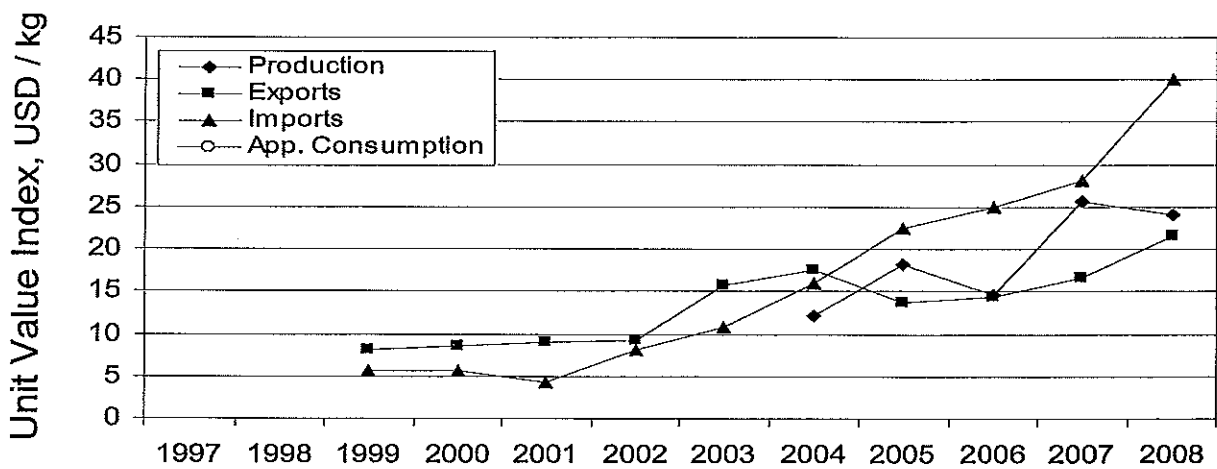
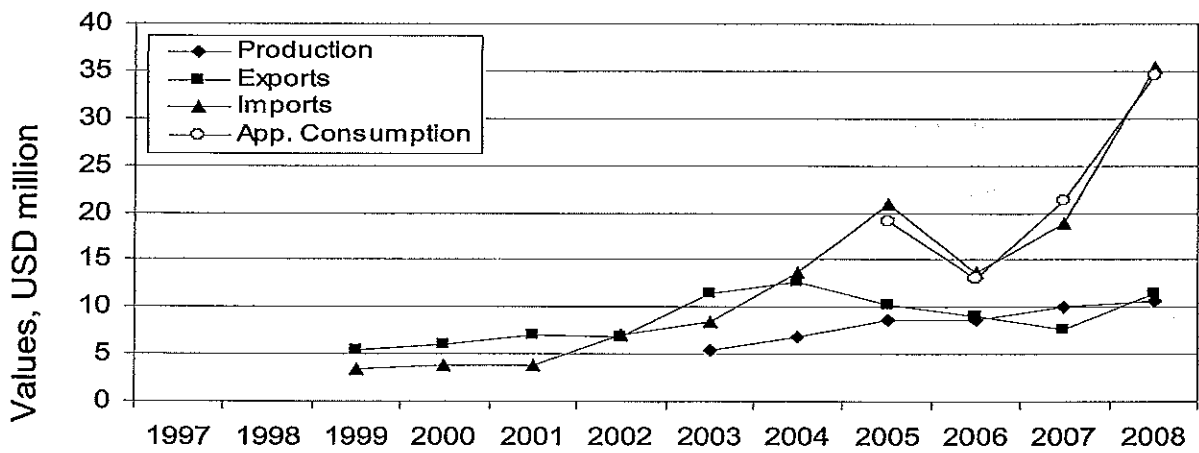
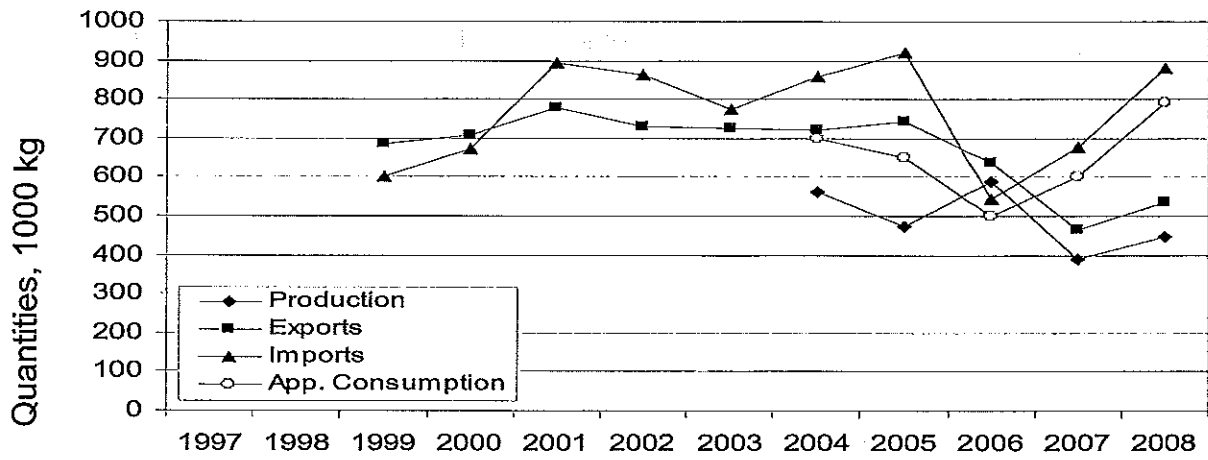
Czech Republic - Injection and compression moulds for plastics (849071+848079)



Czech Republic - Mould tools for metal or metal carbides excluding injection (848049)

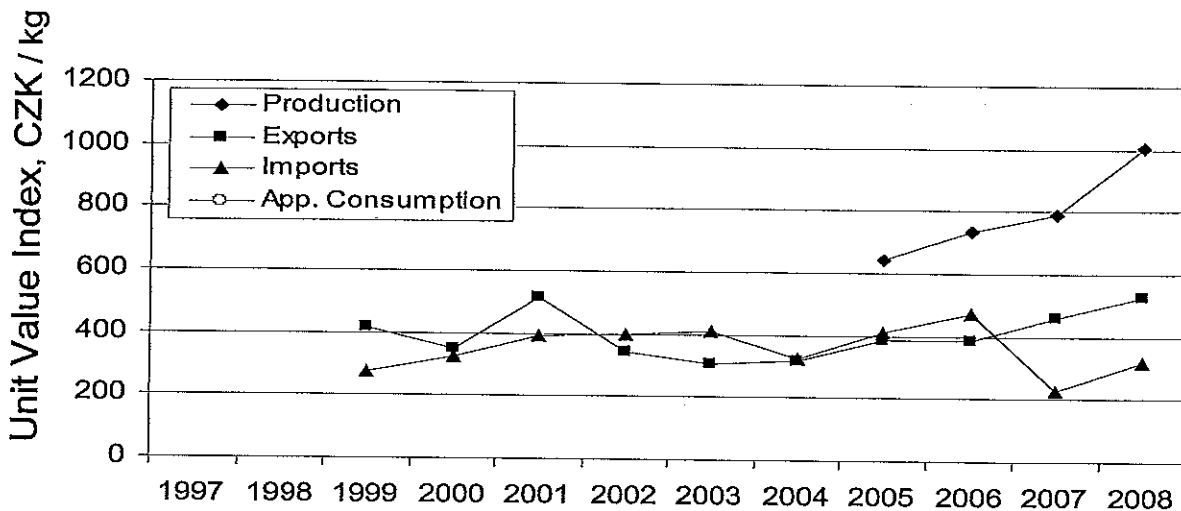
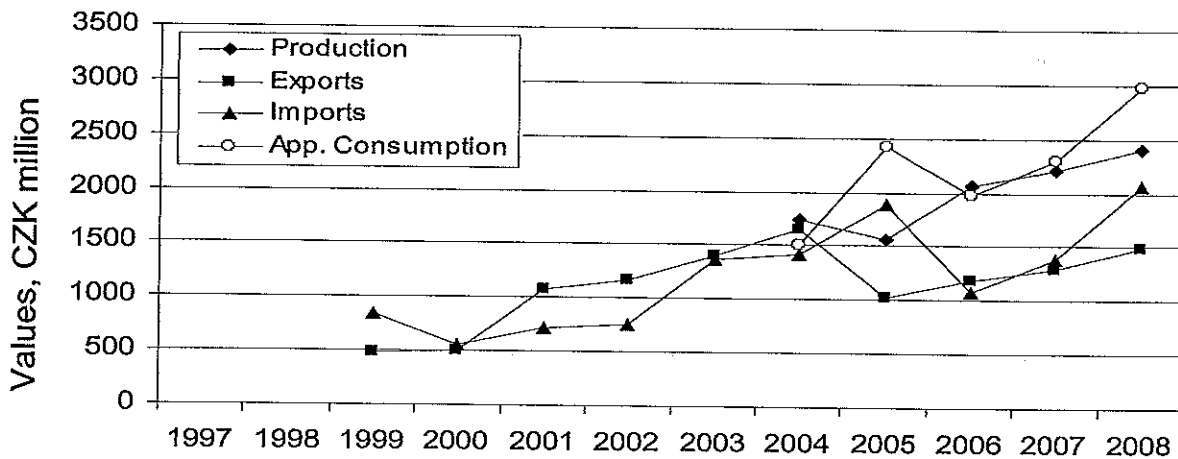
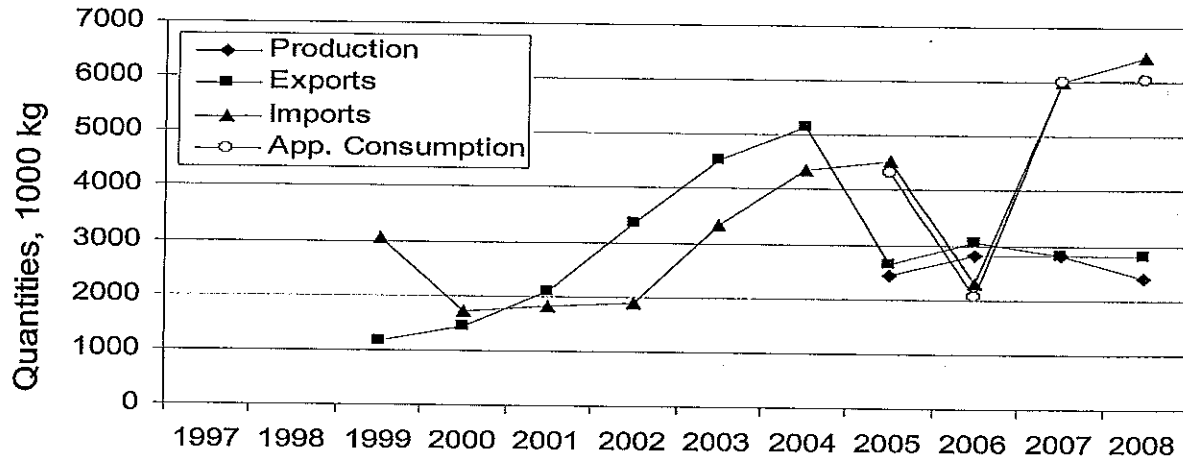


Czech Republic - Mould tools for metal or metal carbides (848041)

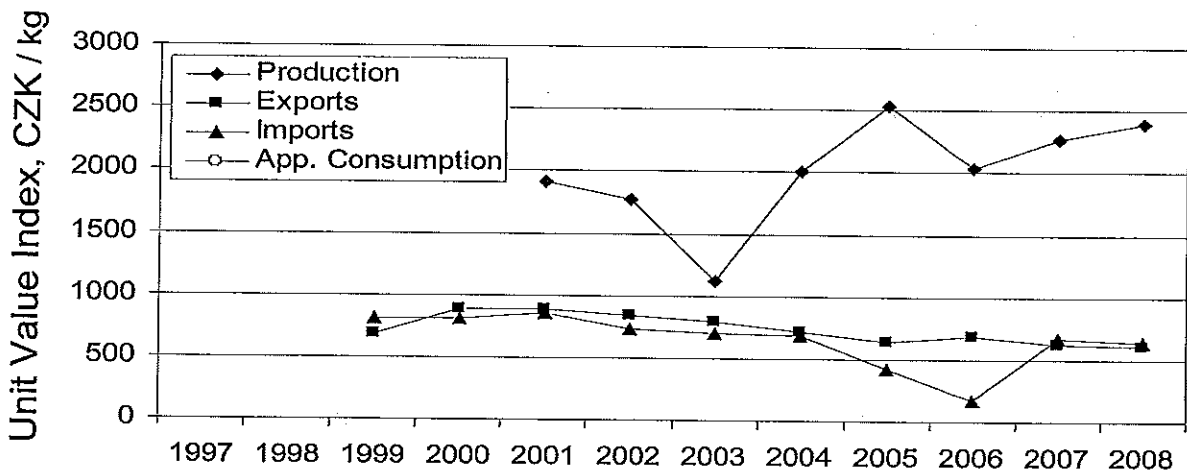
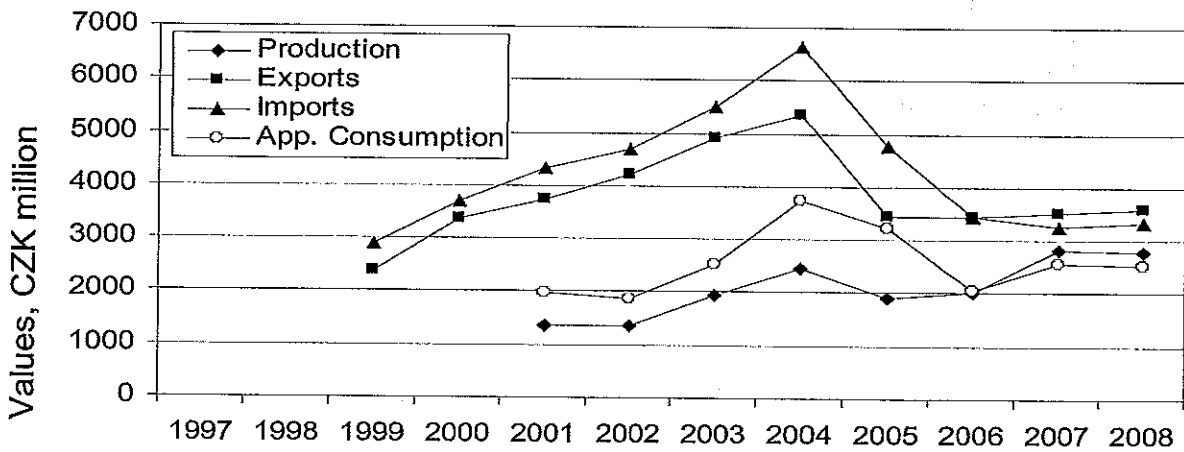
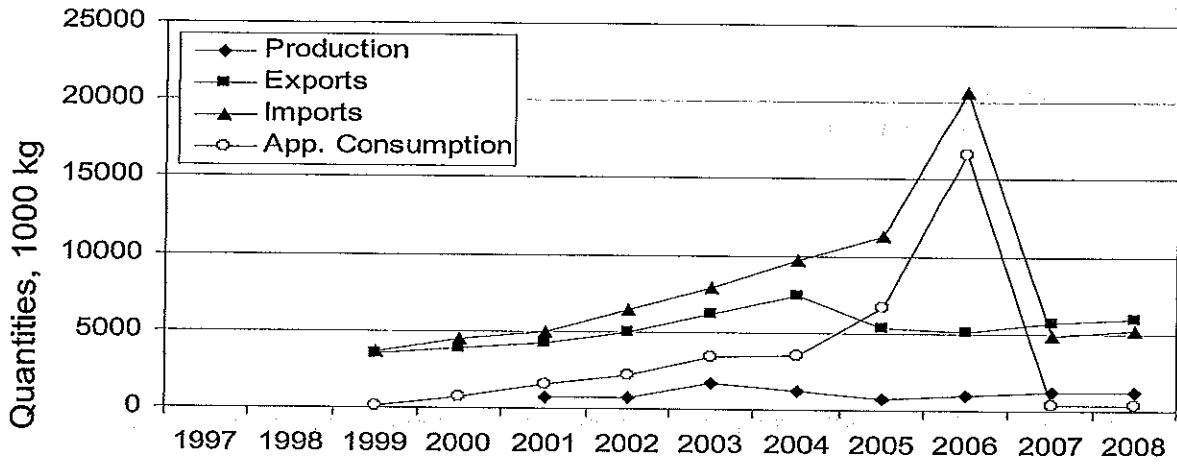


### 4.6.1. Czech Republic (Koruna)

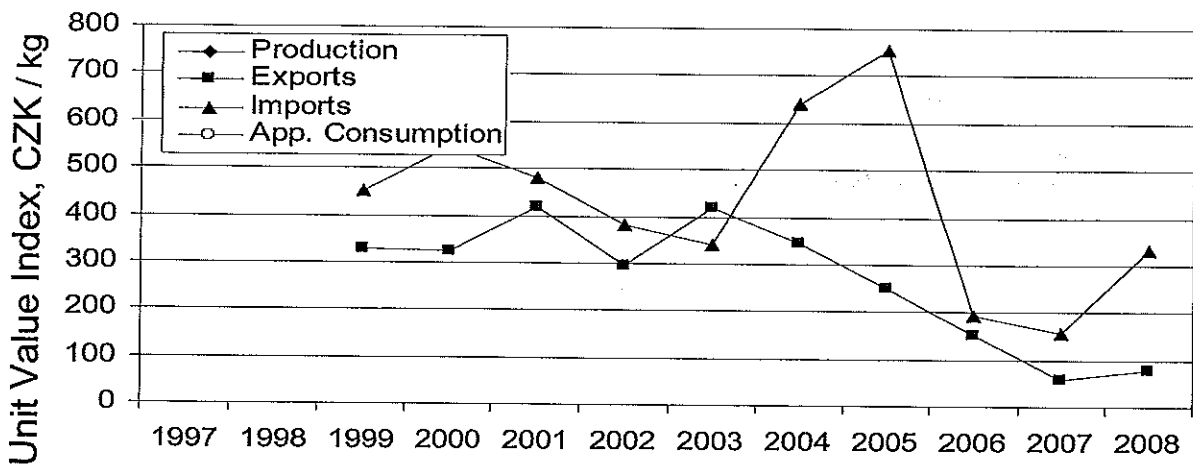
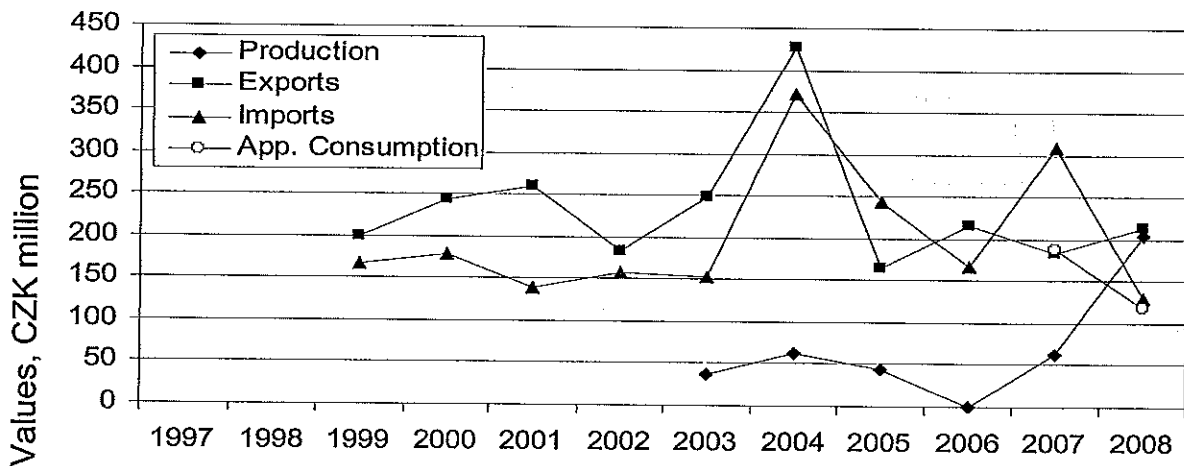
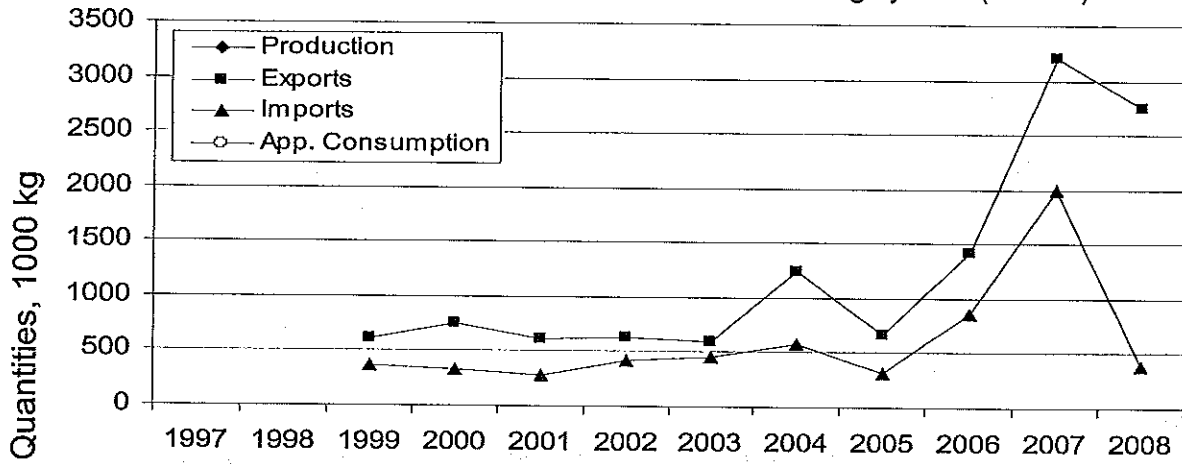
Czech Republic – Tools for pressing, stamping, punching and forming (820730)



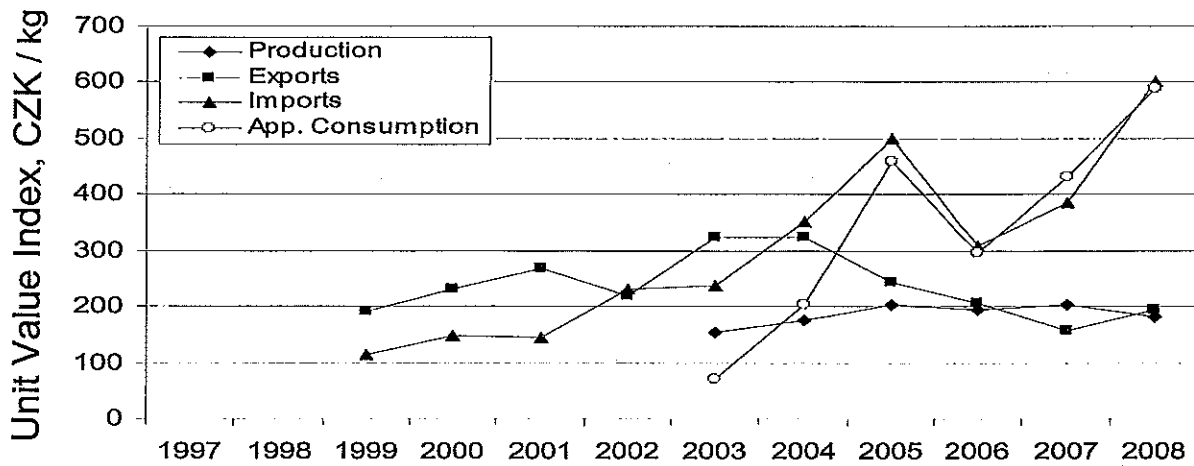
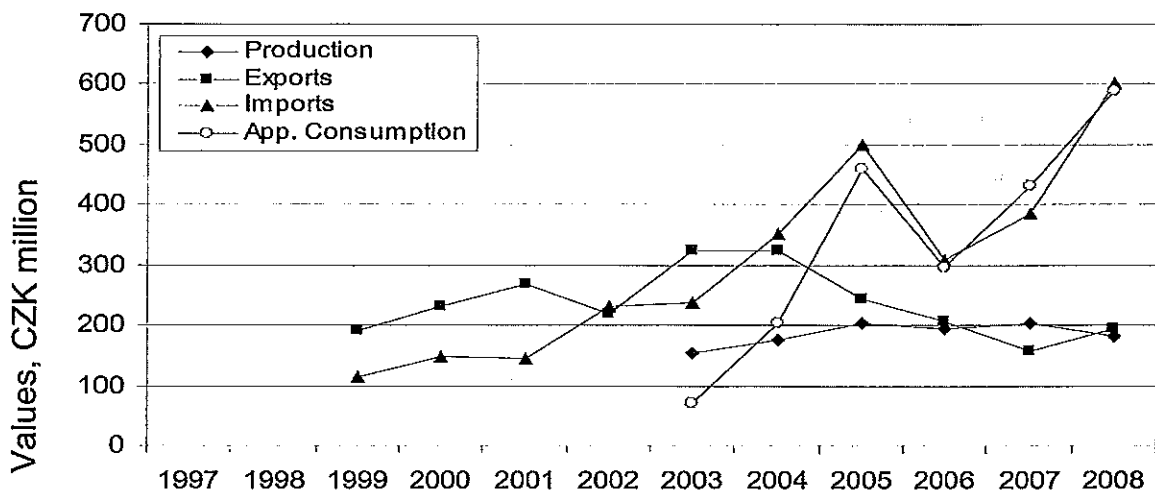
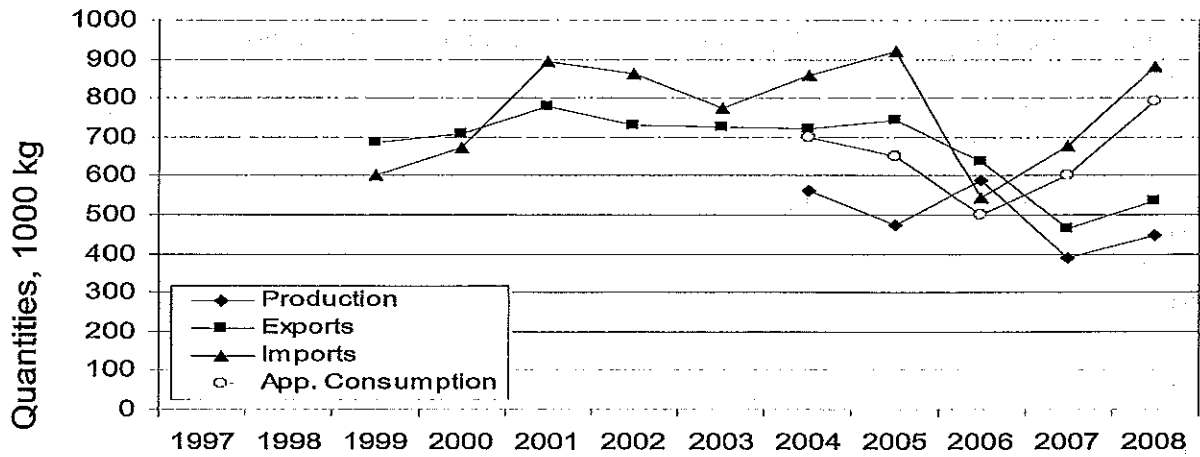
Czech Republic - Injection and compression moulds for plastics (849071+848079)



Czech Republic - Mould tools for metal or metal carbides excluding injection (848049)

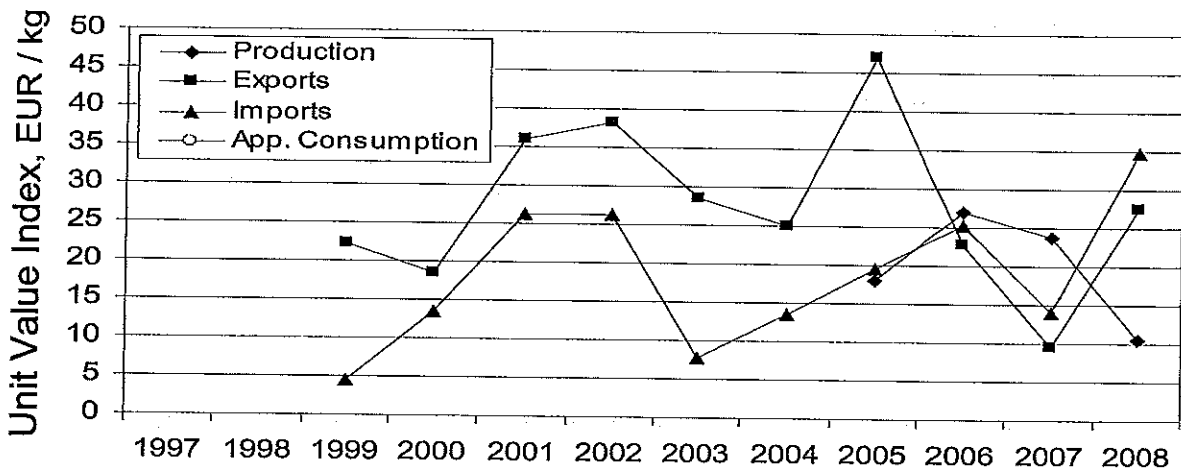
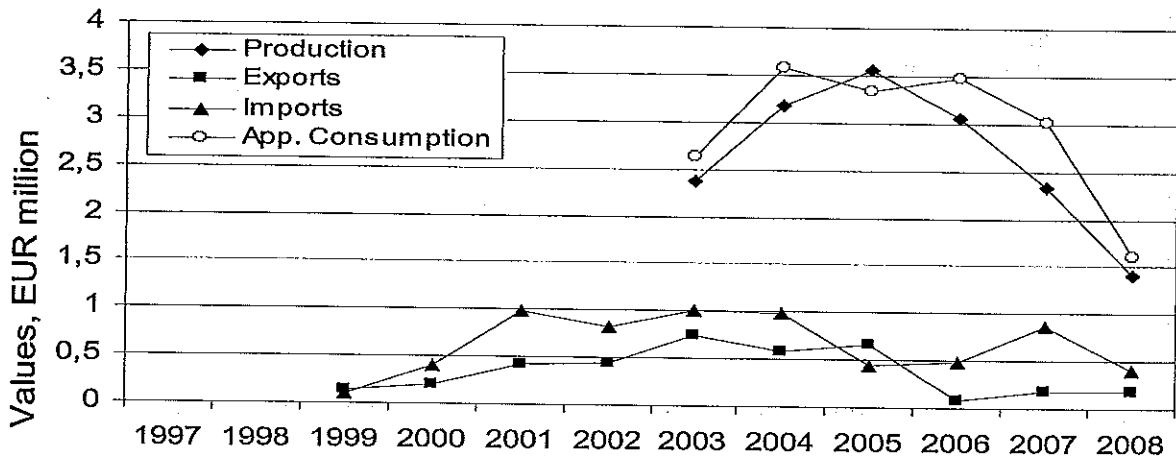
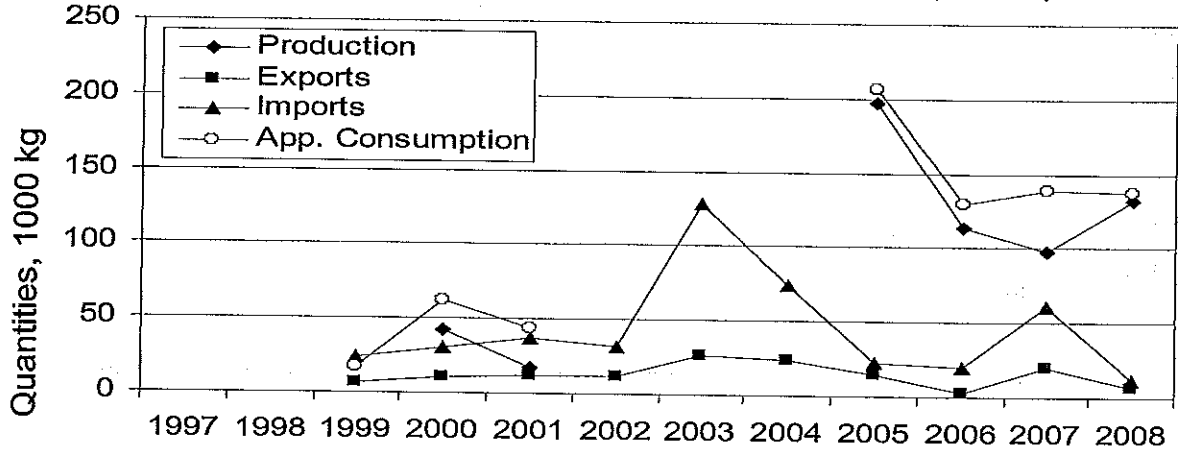


Czech Republic - Mould tools for metal or metal carbides (848041)

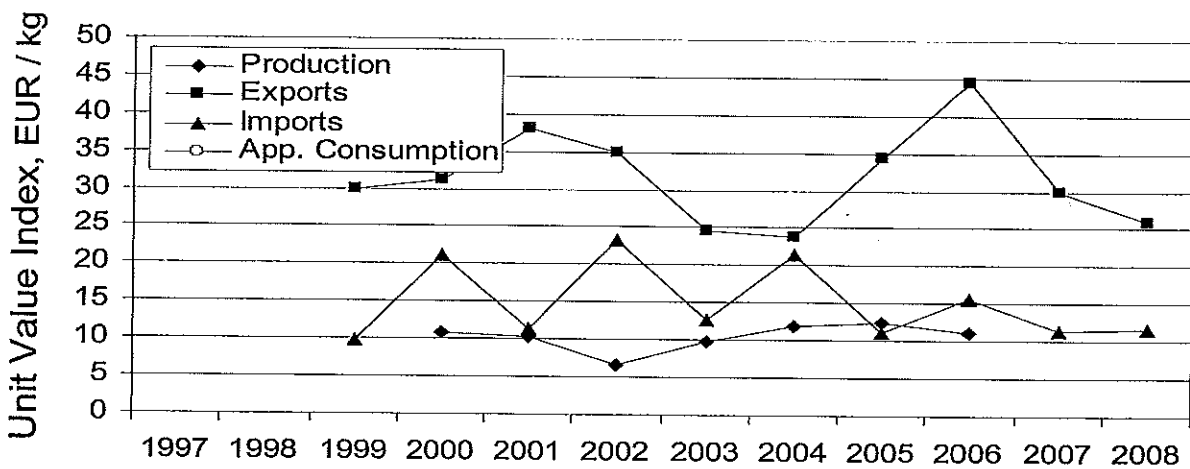
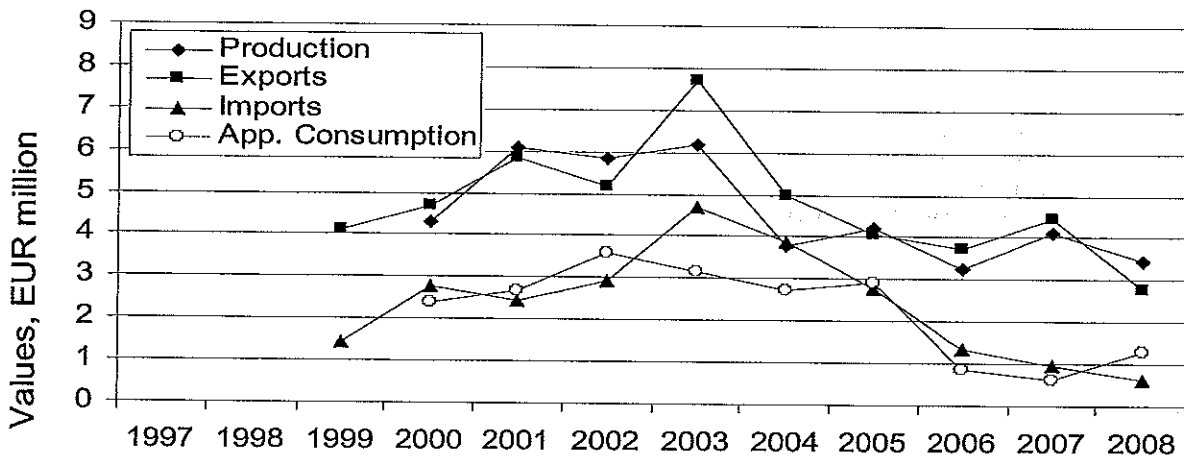
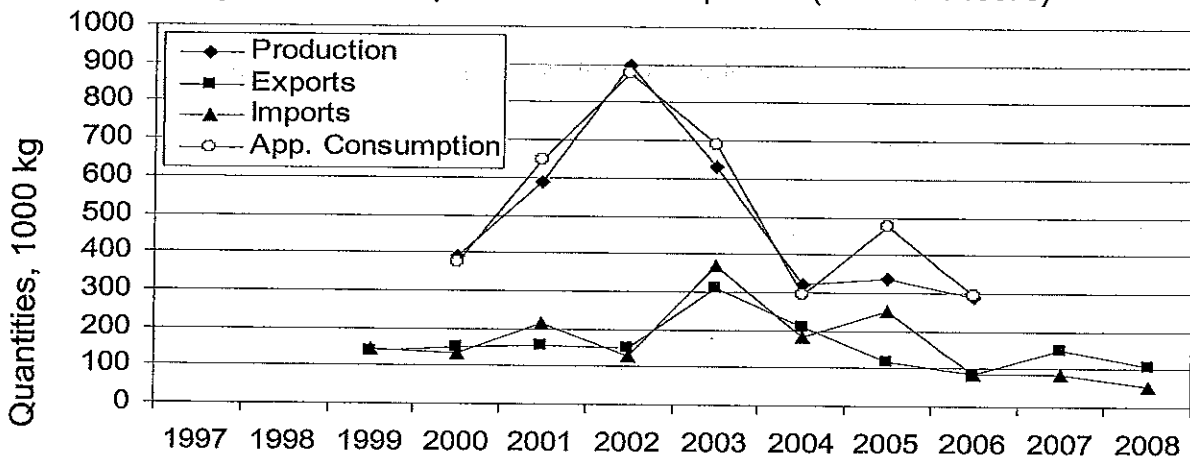


### 4.7. Estonia (EUR)

Estonia - Tools for pressing, stamping, punching and forming (820730)

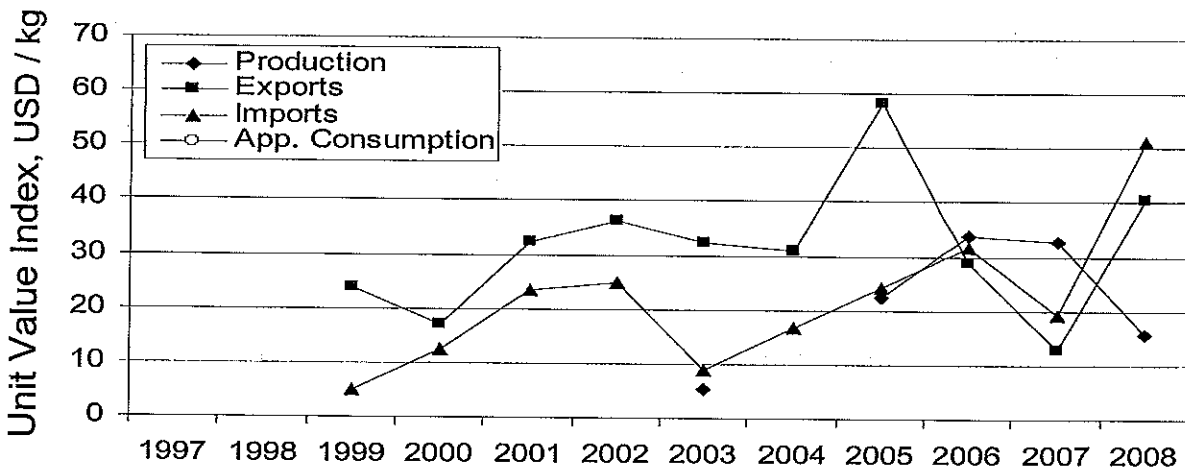
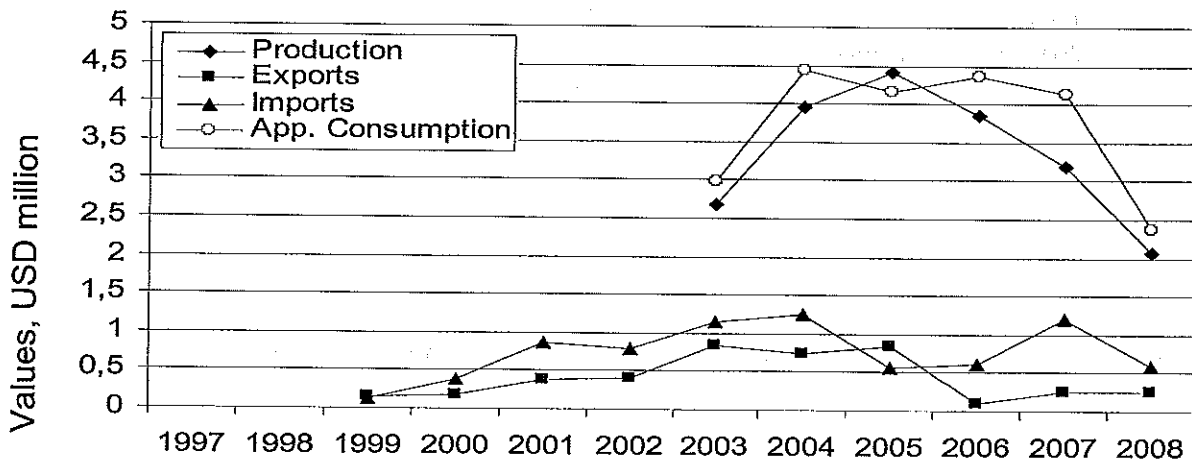
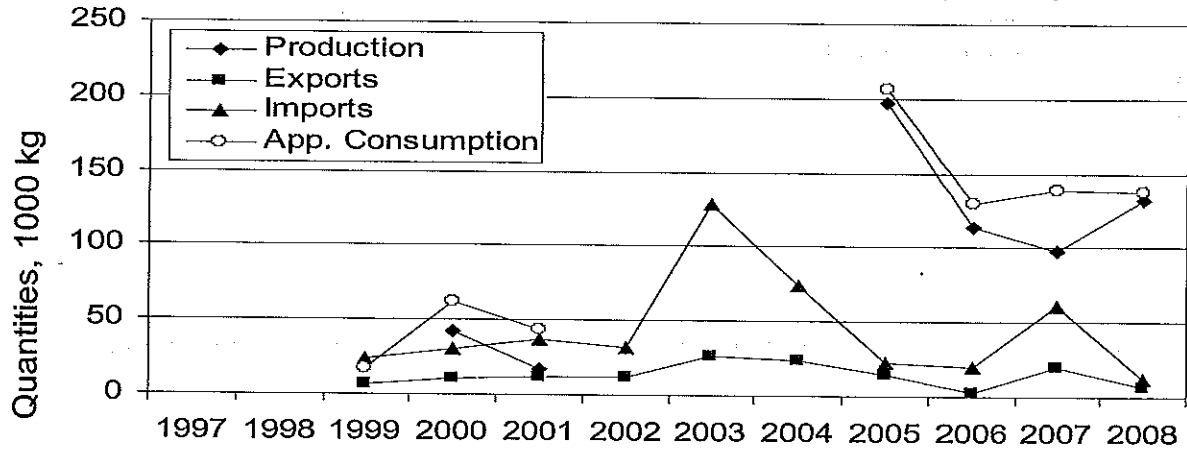


Estonia - Injection and compression moulds for plastics (849071+848079)

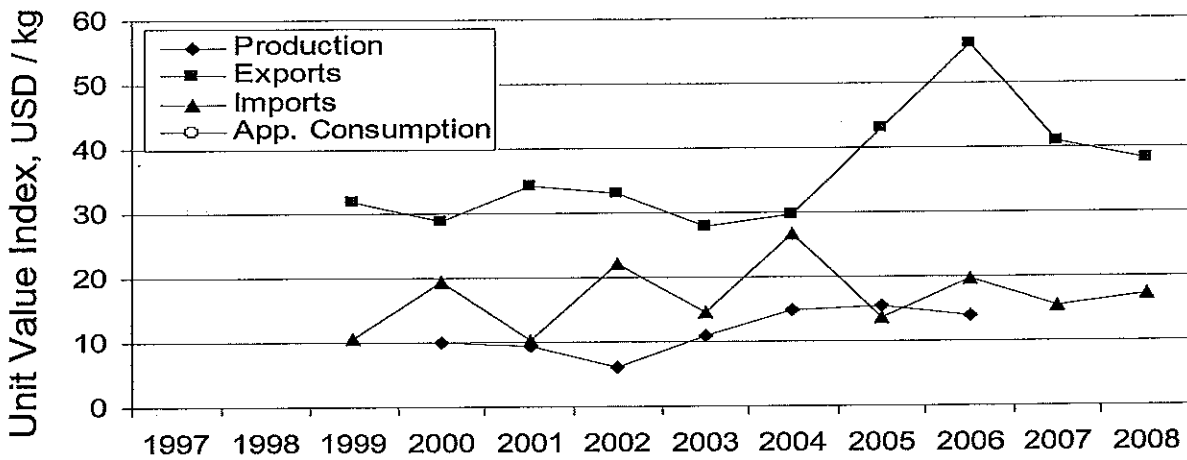
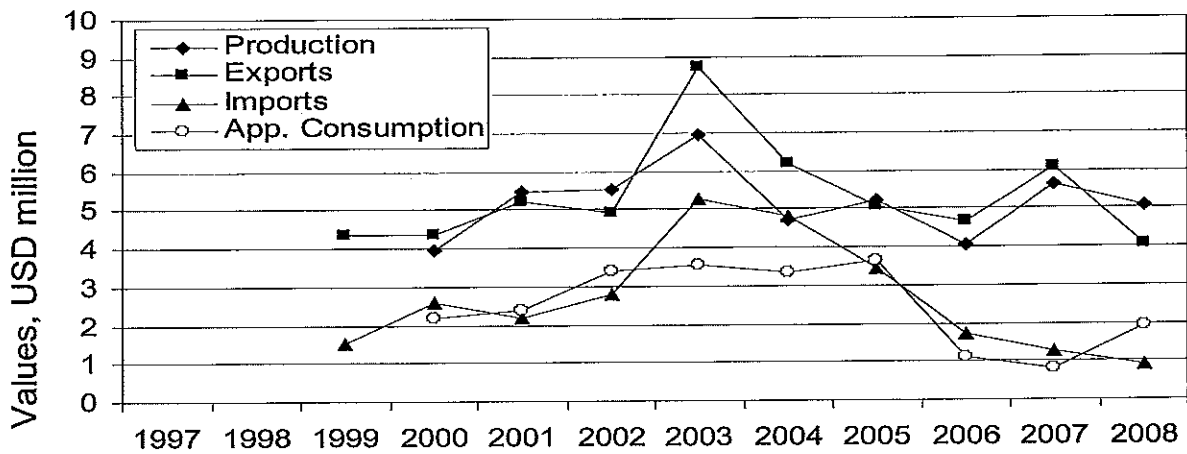
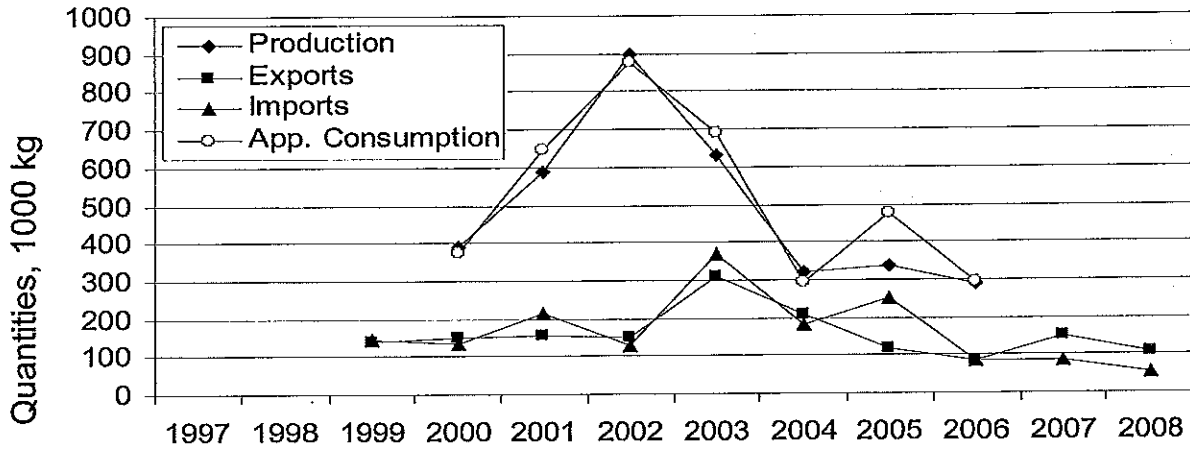


### 4.8. Estonia (USD)

Estonia - Tools for pressing, stamping, punching and forming (820730)

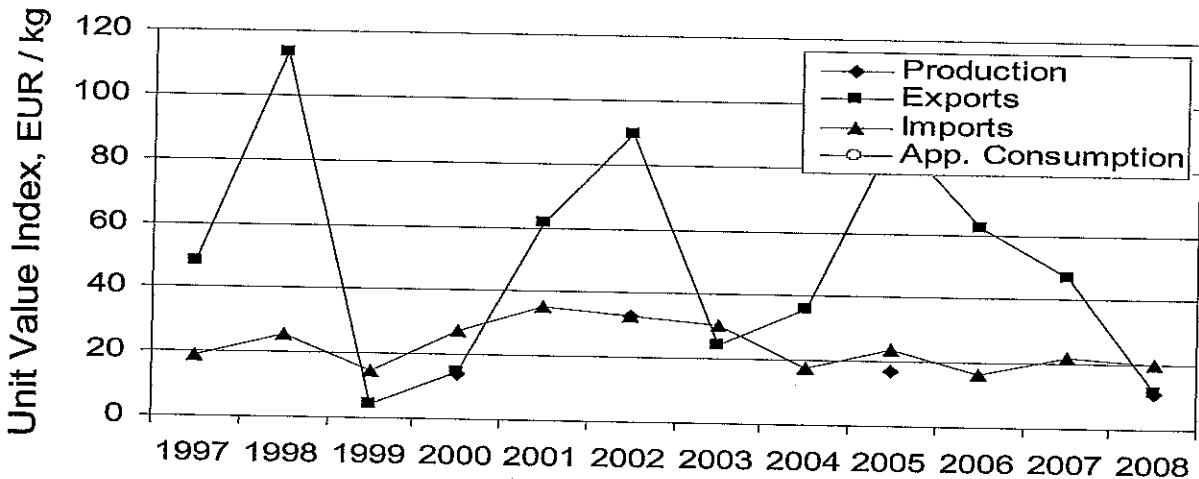
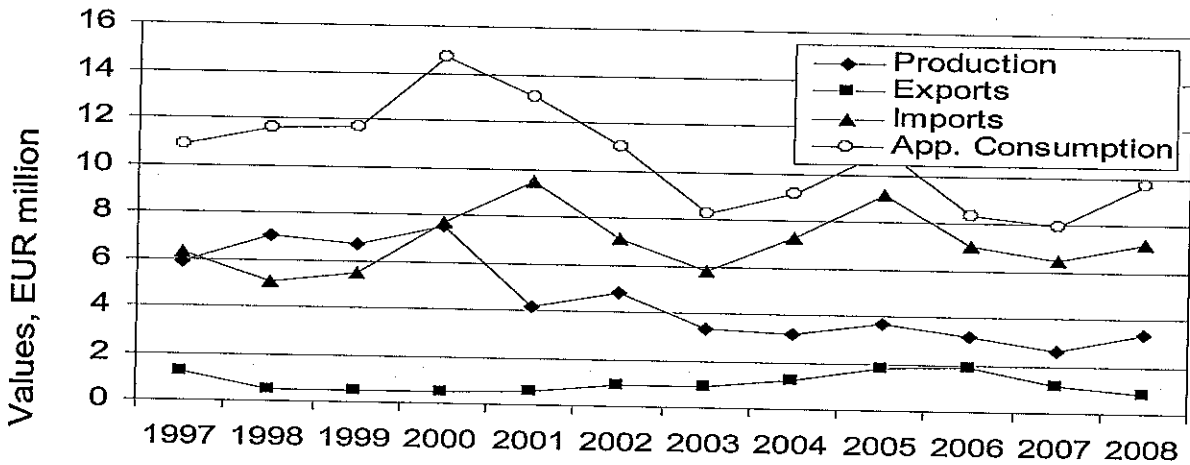
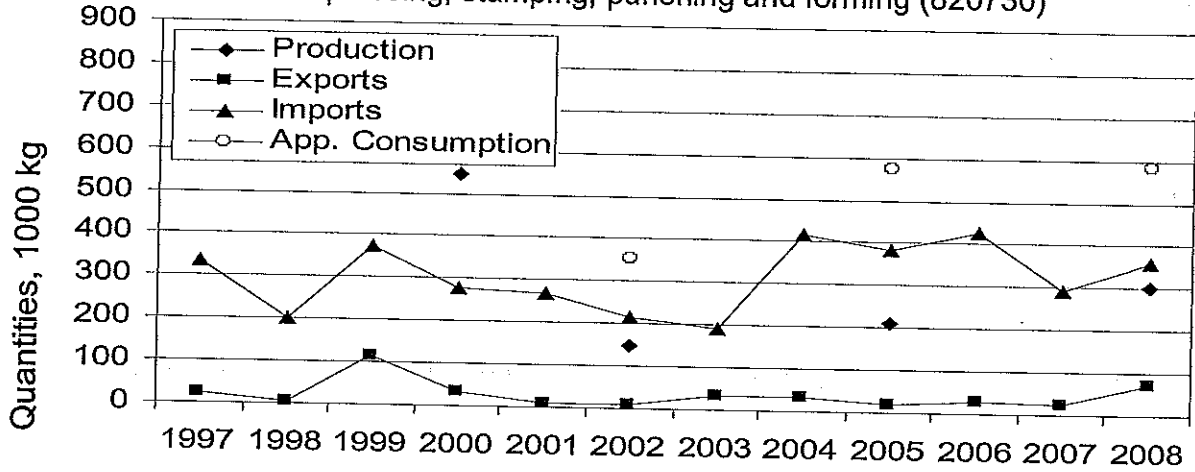


Estonia - Injection and compression moulds for plastics (849071+848079)

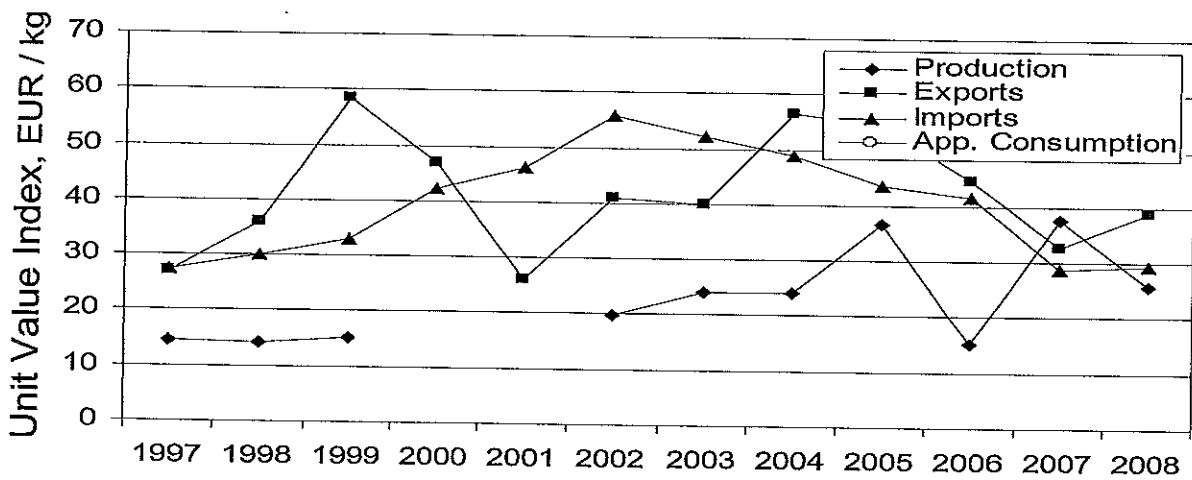
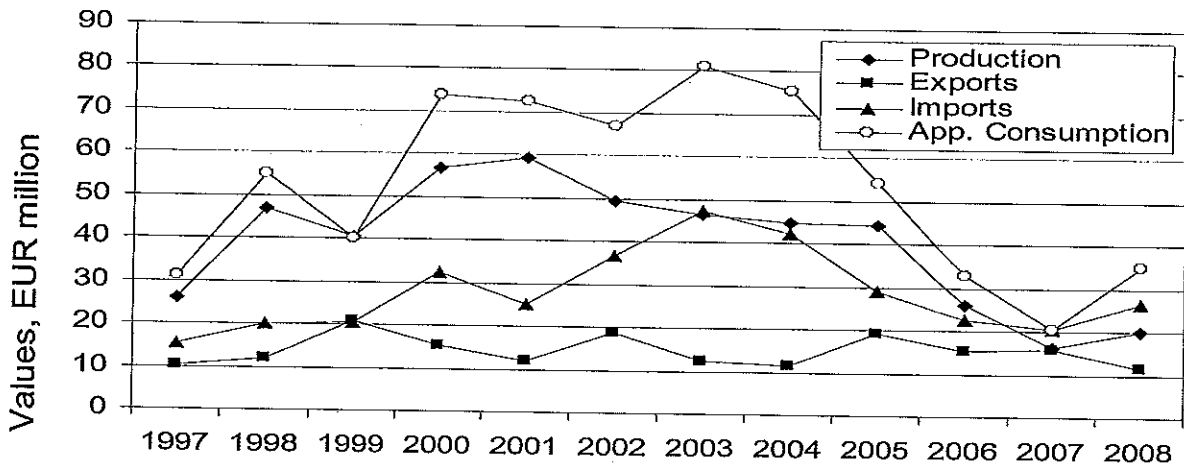
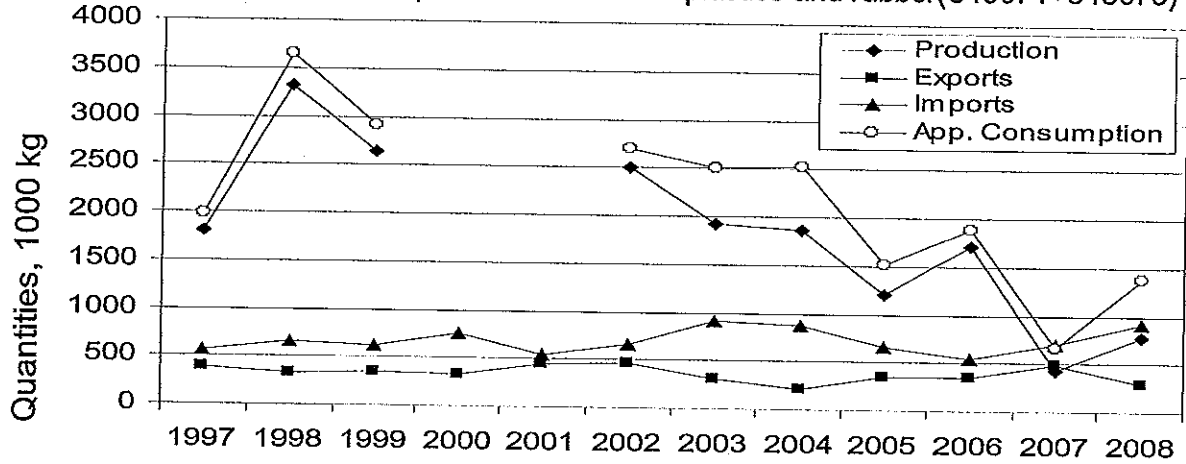


### 4.9. Finland (EUR)

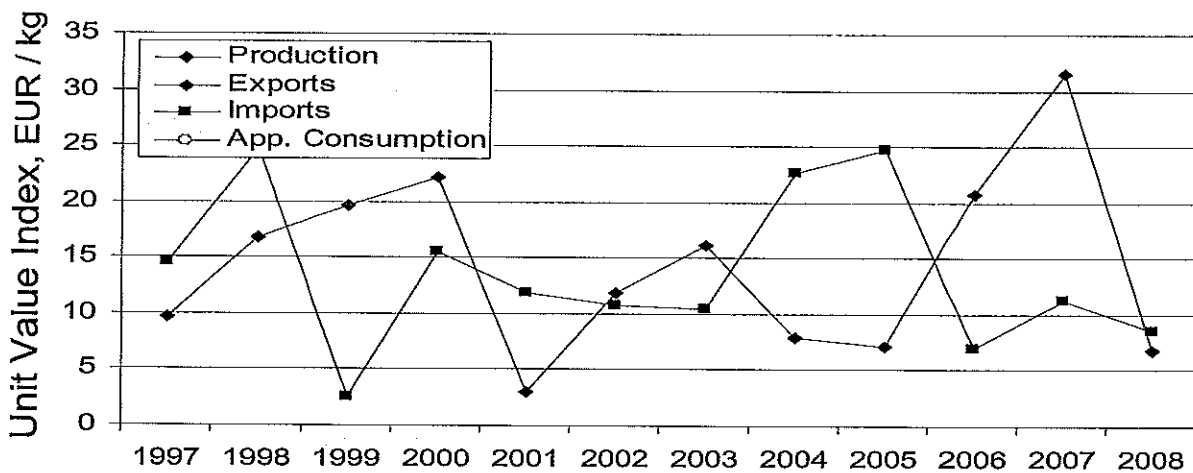
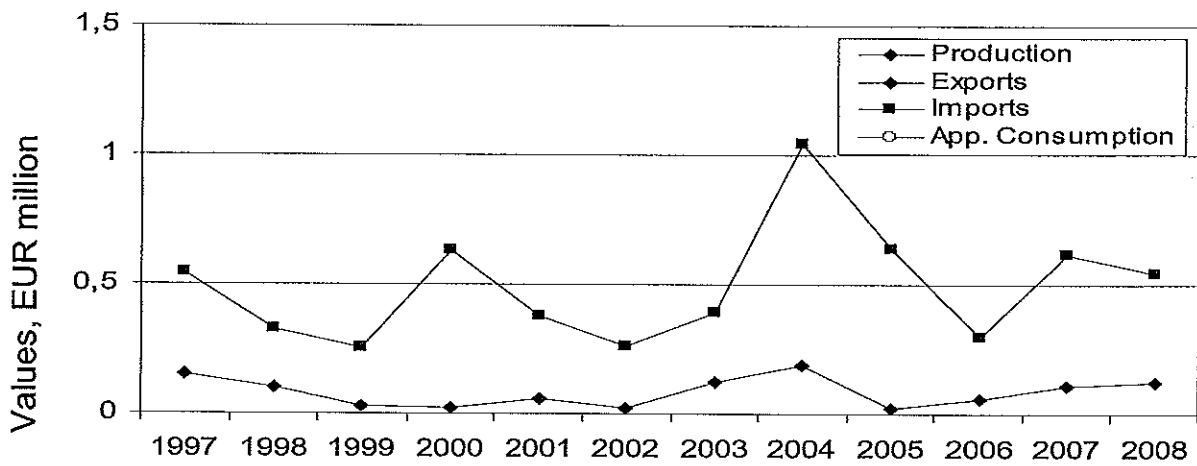
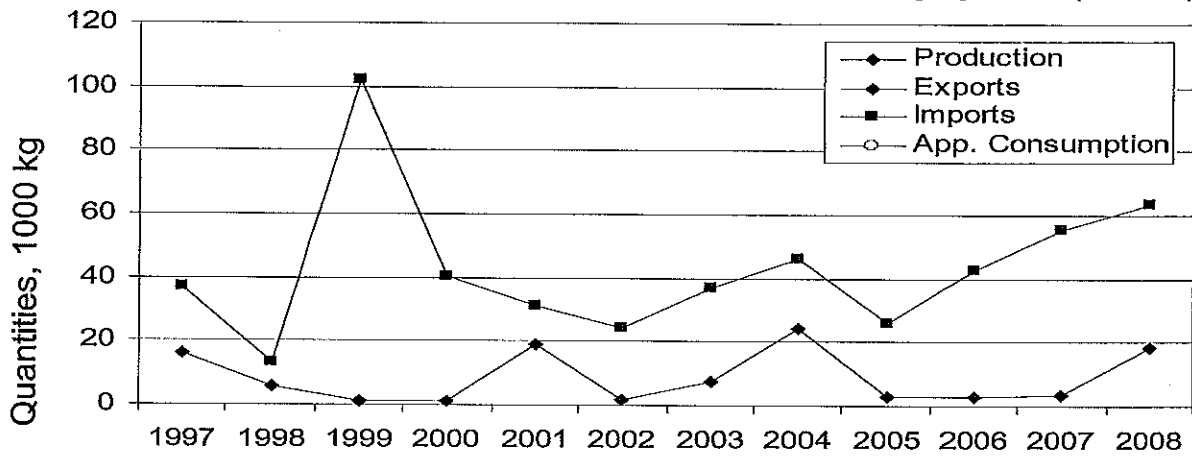
Finland - Tools for pressing, stamping, punching and forming (820730)



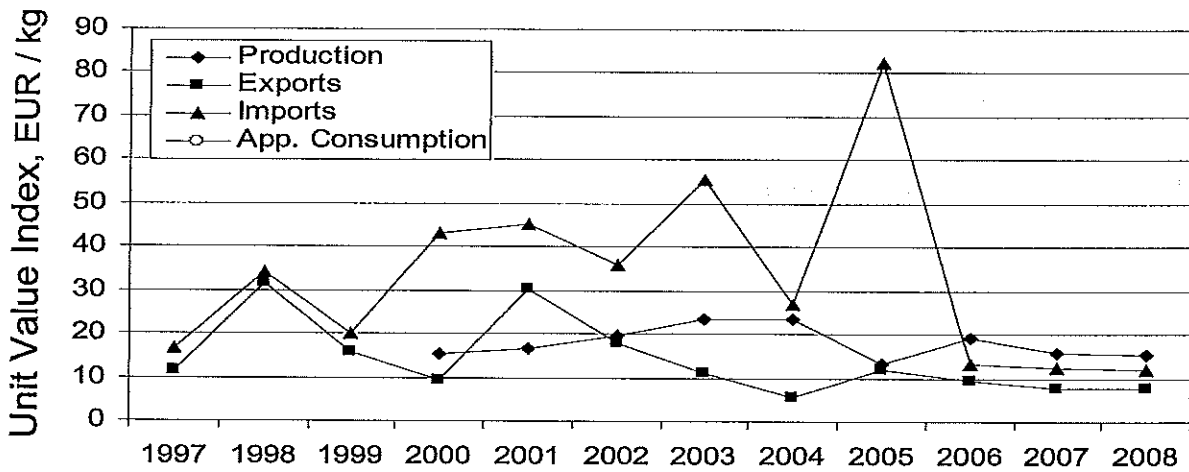
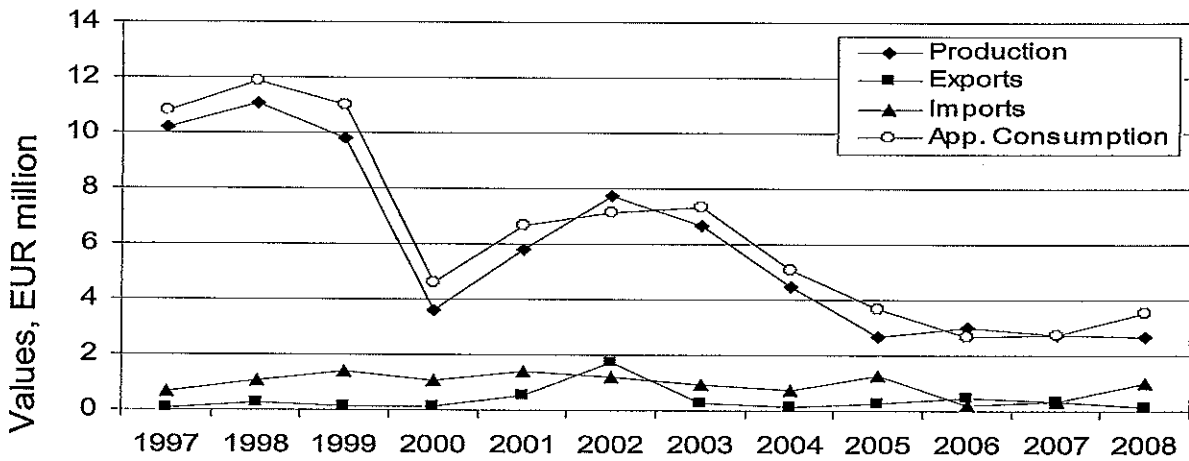
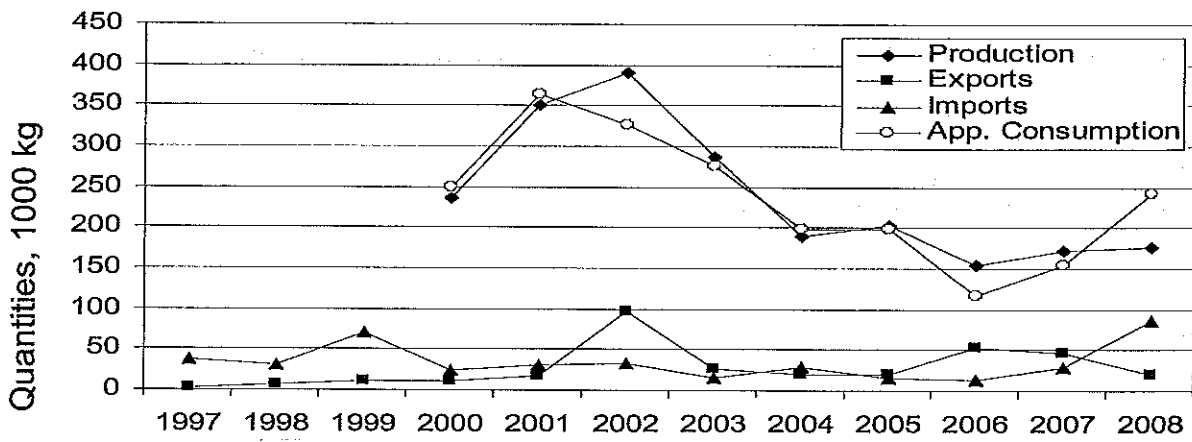
Finland - Injection and compression moulds for plastics and rubber(849071+848079)



Finland - Mould tools for metal or metal carbides excluding injection (848049)

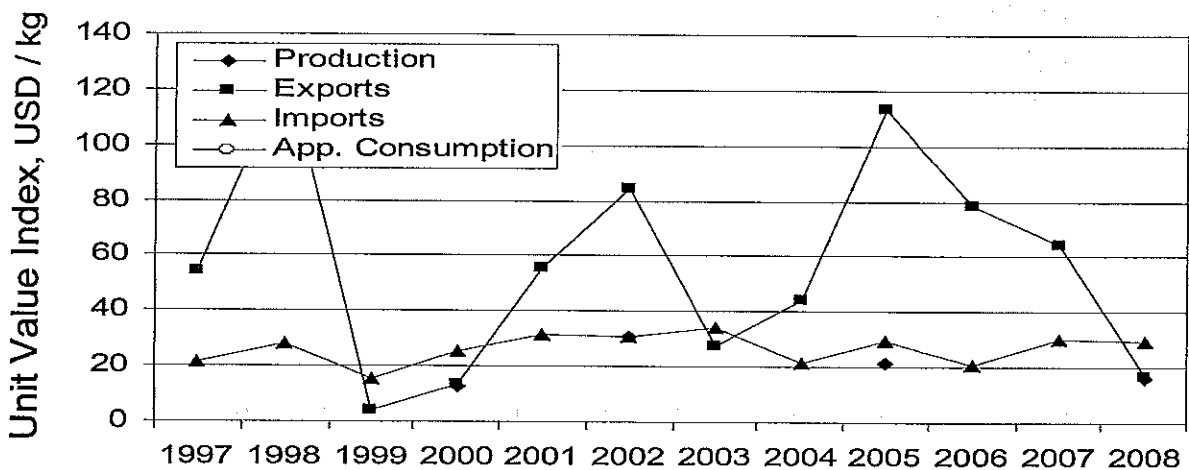
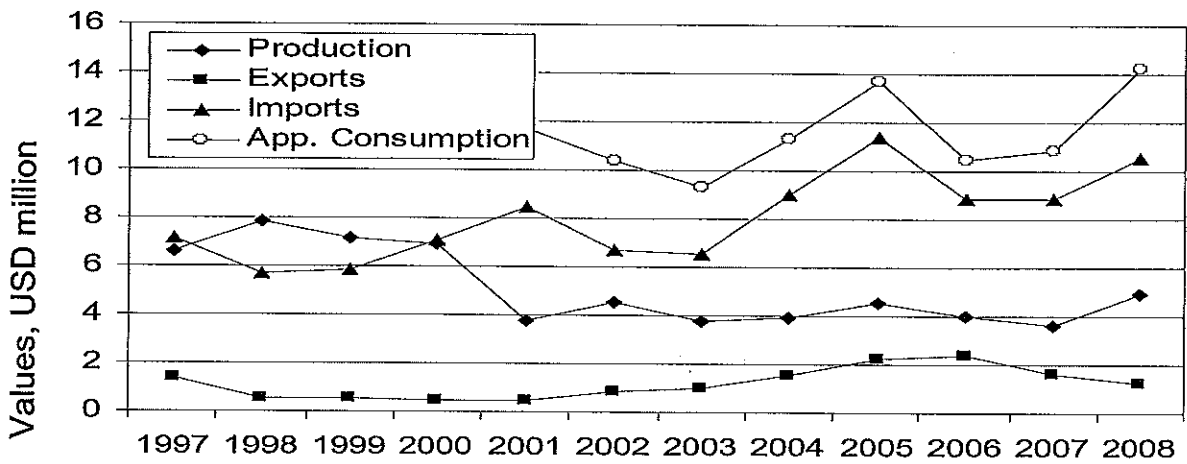
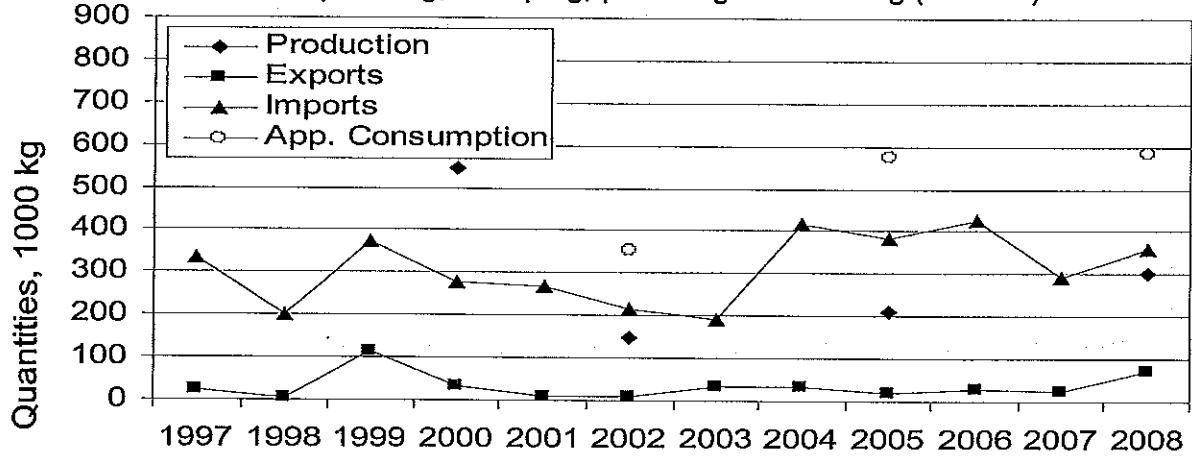


Finland - Mould tools for metal or metal carbides (848041)

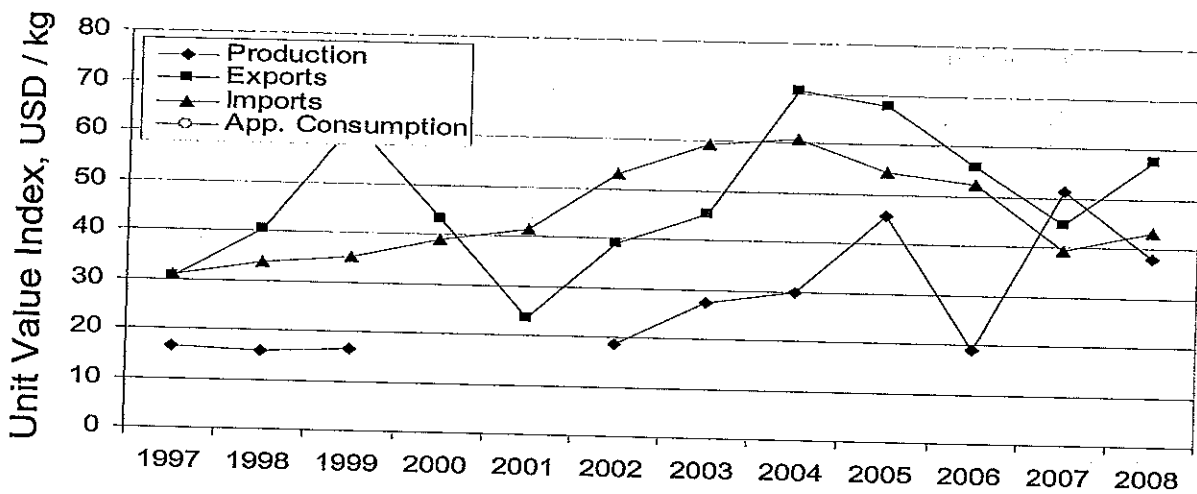
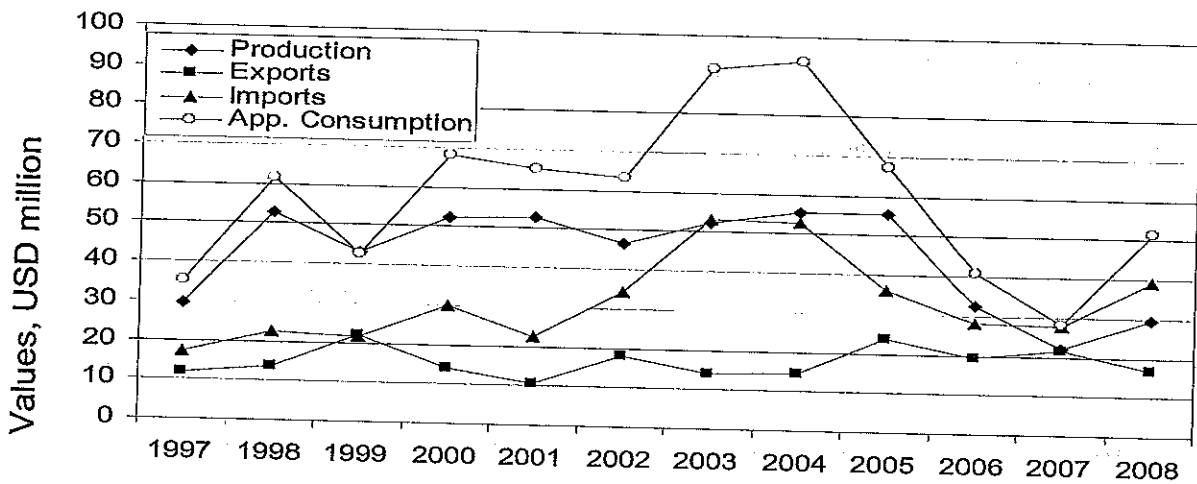
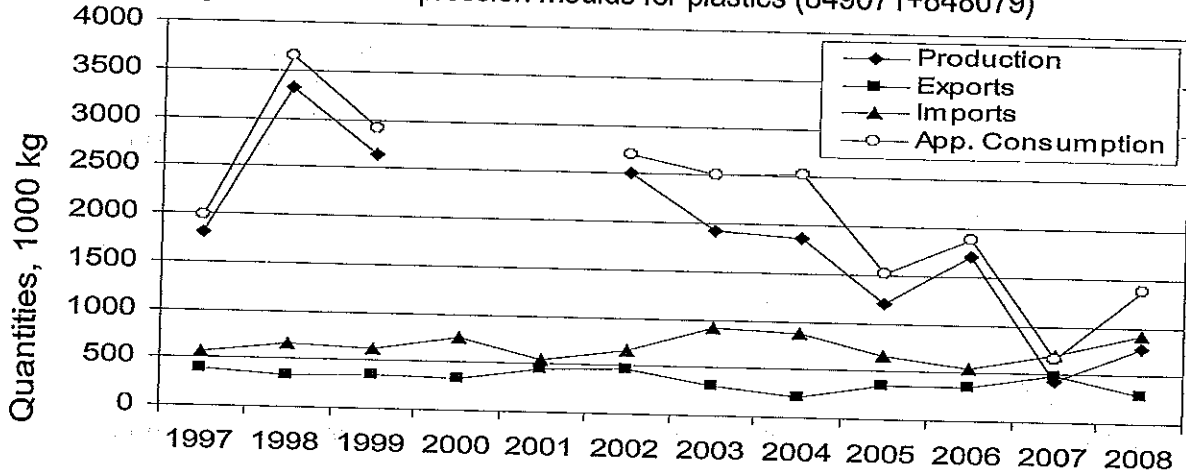


### 4.10. Finland (USD)

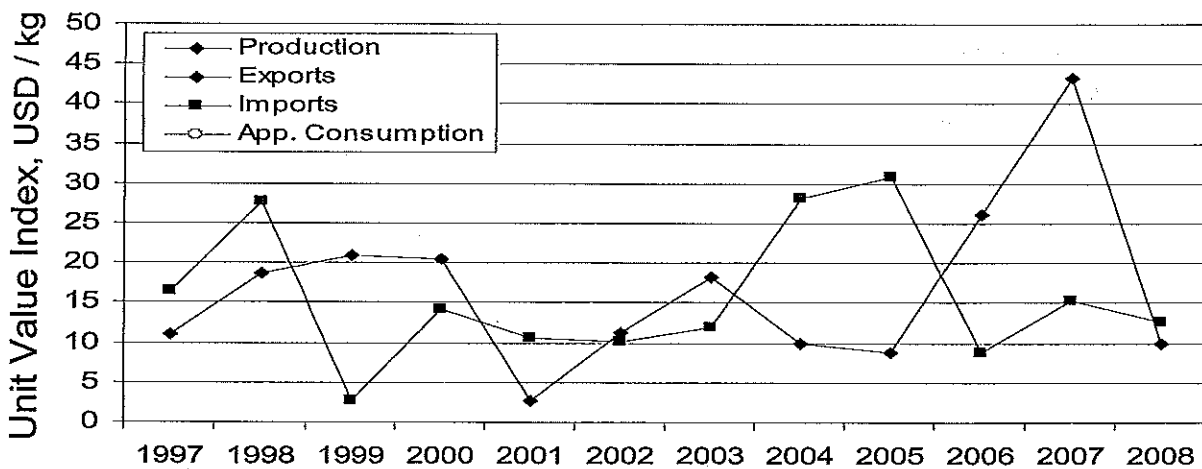
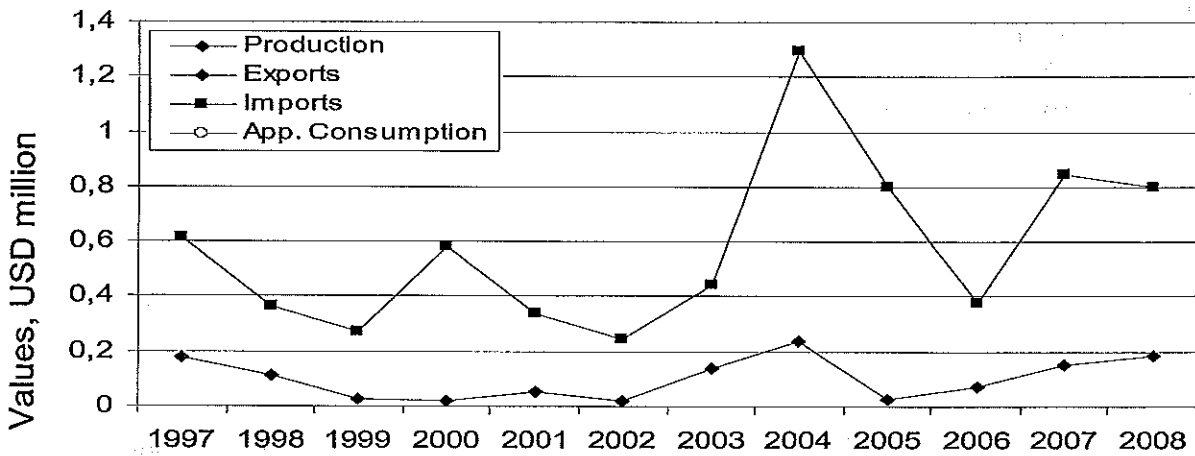
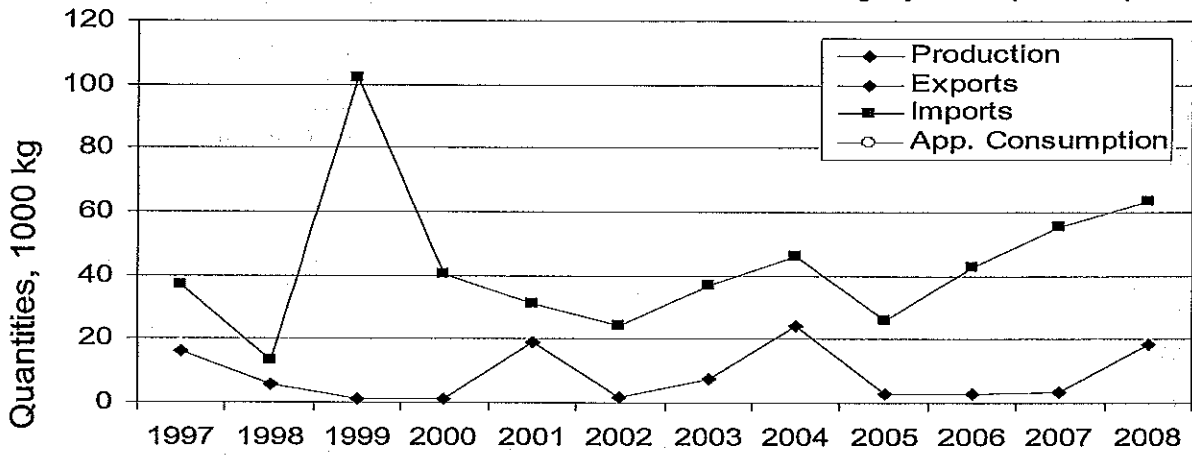
Finland - Tools for pressing, stamping, punching and forming (820730)



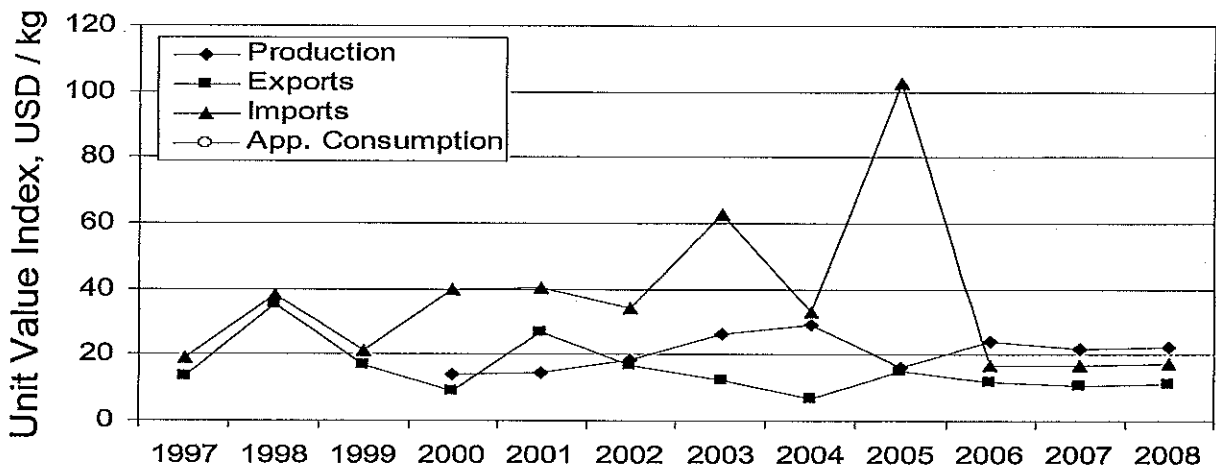
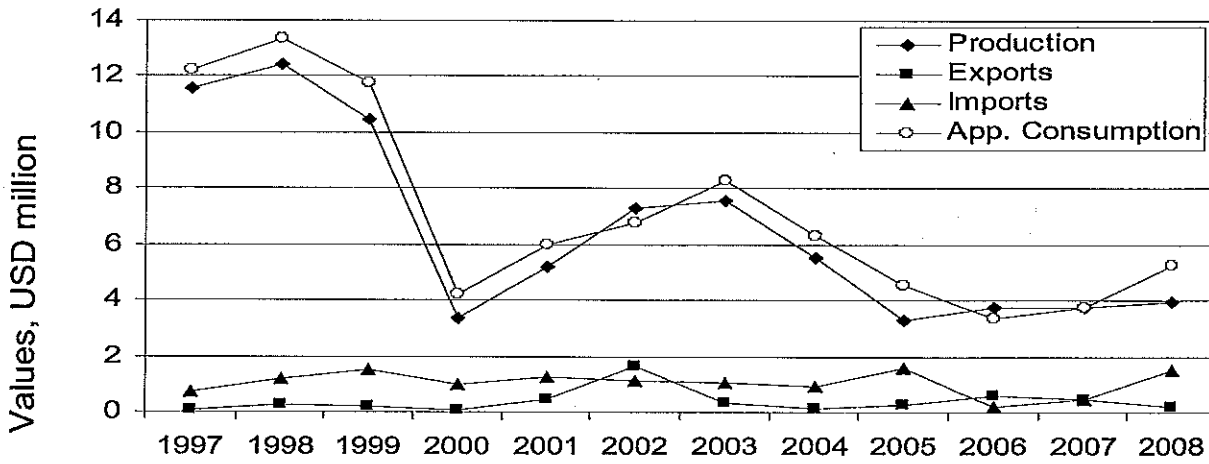
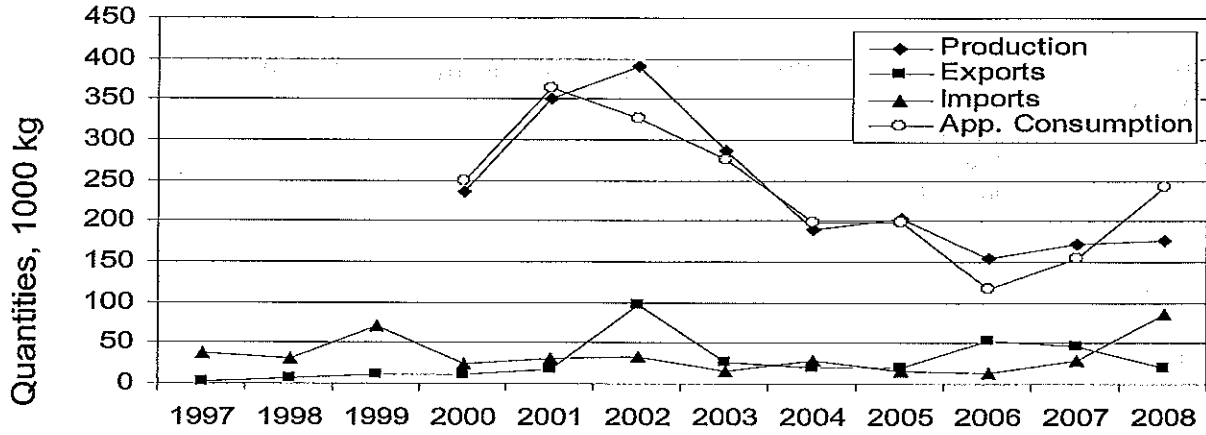
Finland - Injection and compression moulds for plastics (849071+848079)



Finland - Mould tools for metal or metal carbides excluding injection (848049)

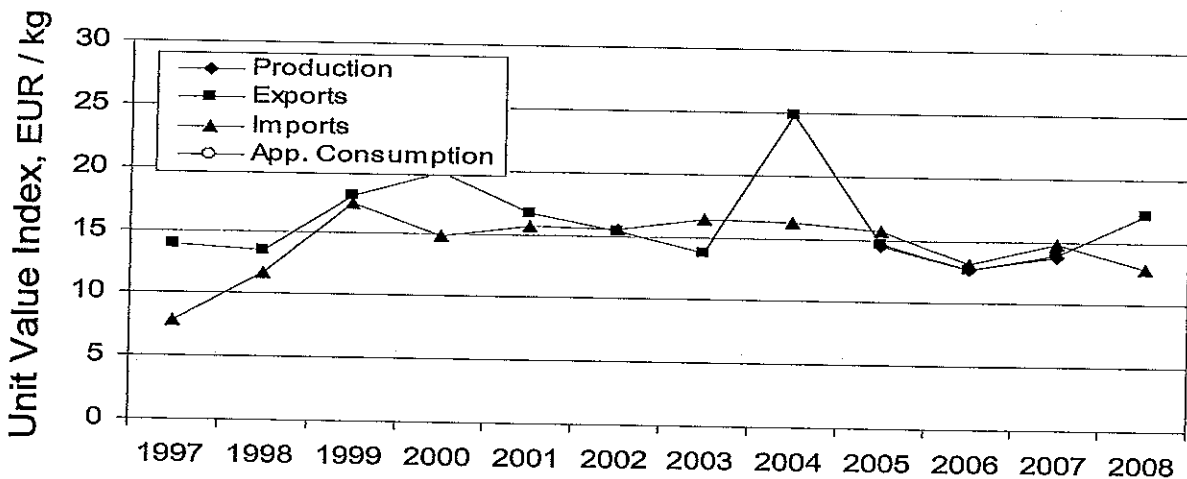
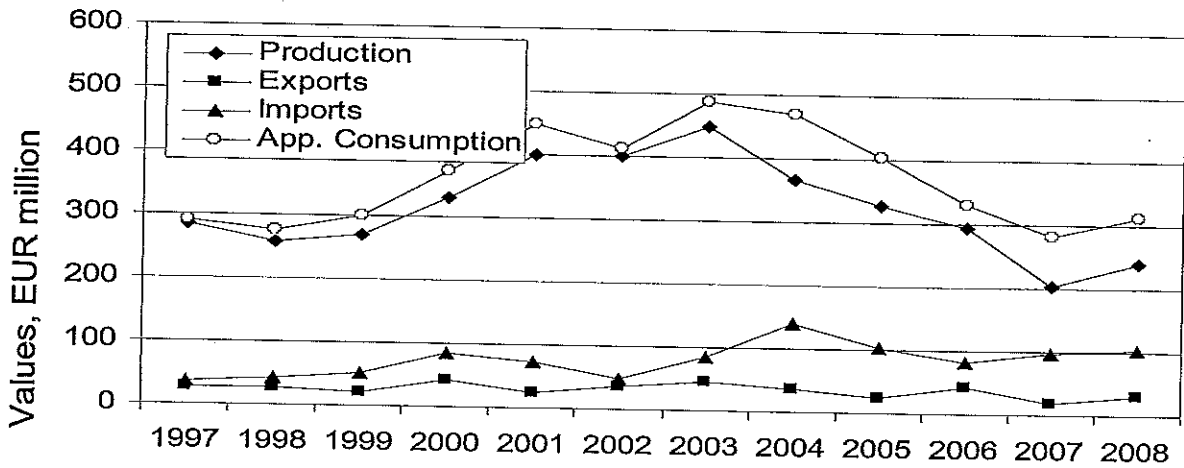
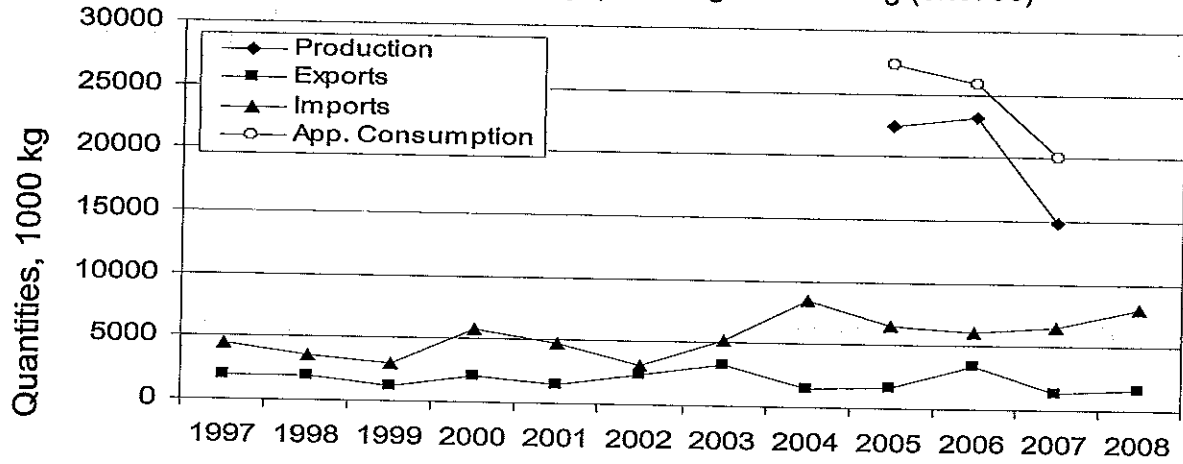


Finland - Mould tools for metal or metal carbides (848041)

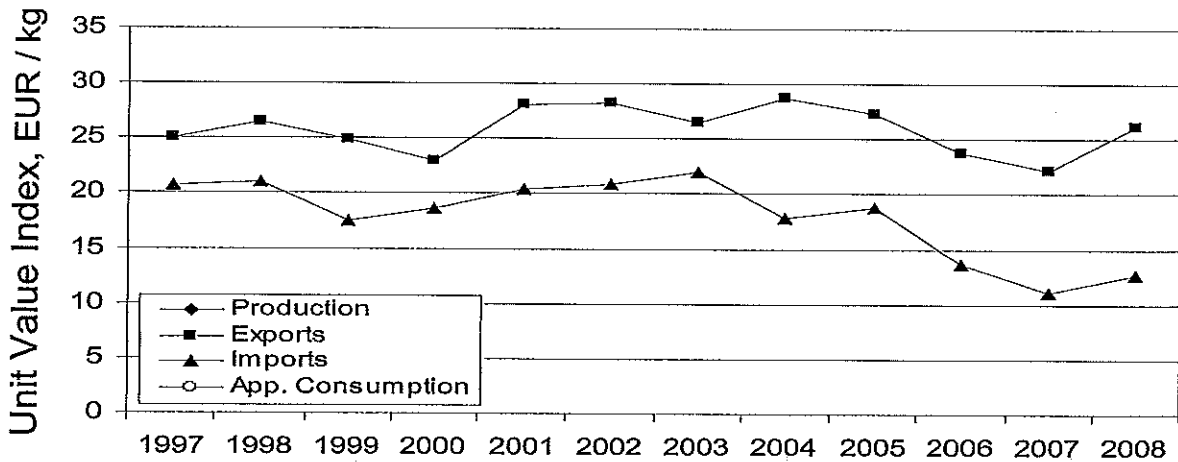
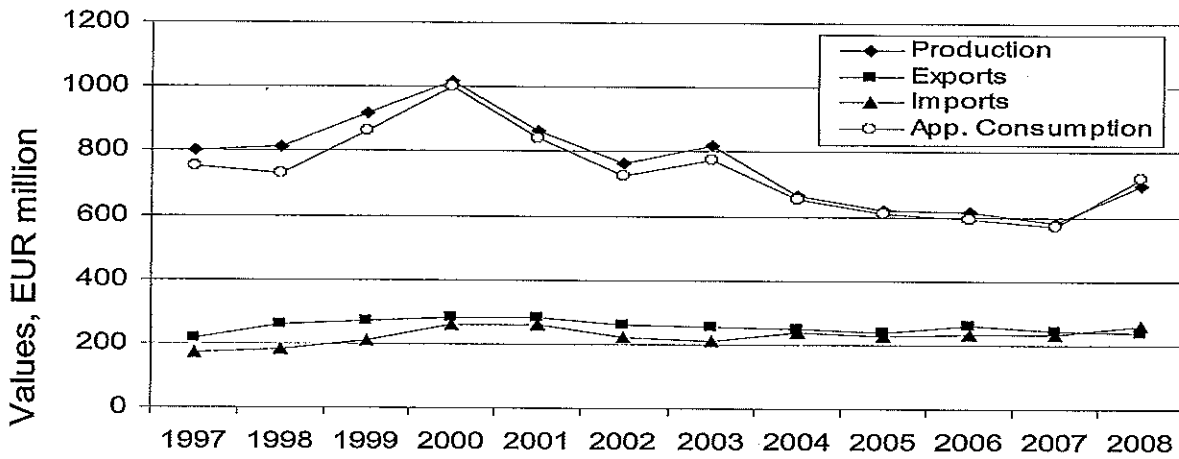
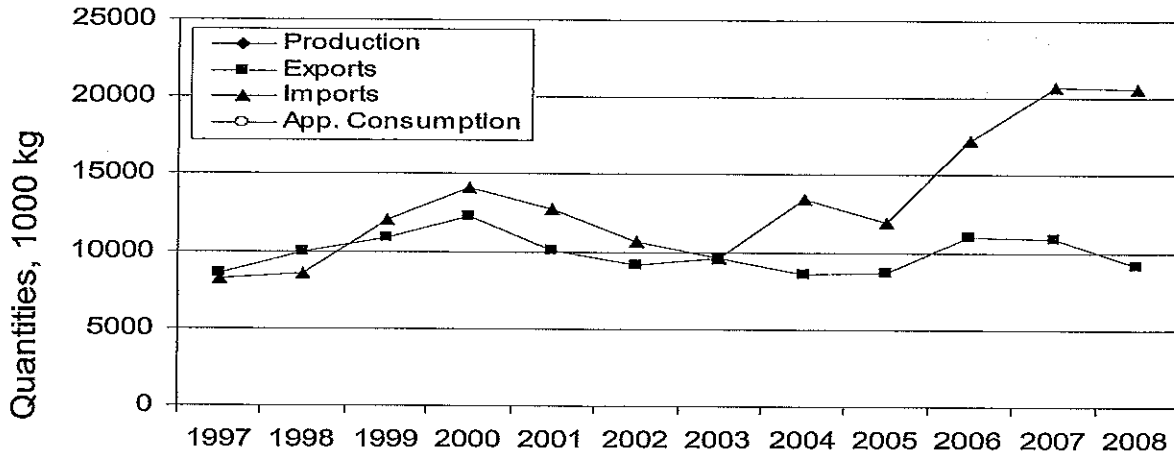


### 4.11. France (EUR)

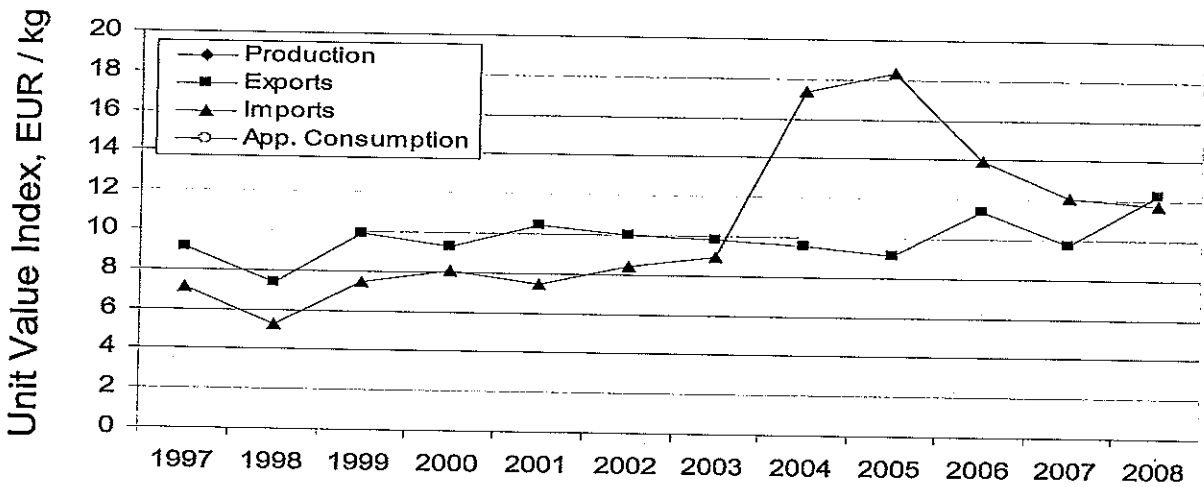
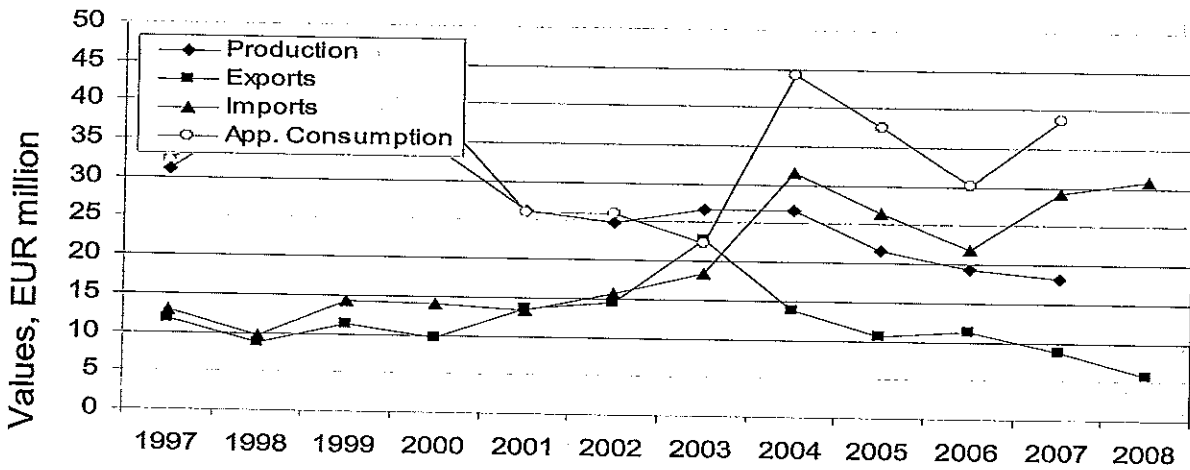
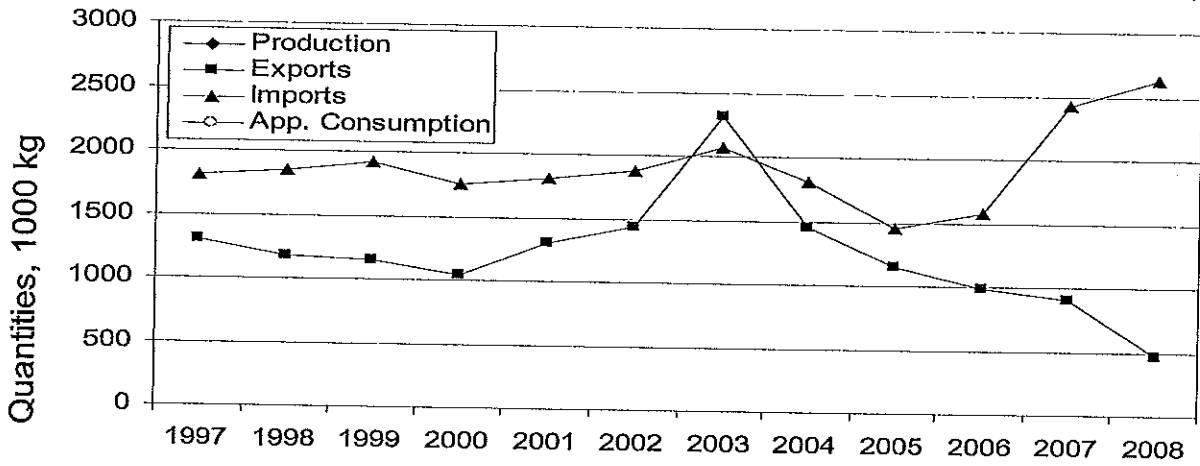
France - Tools for pressing, stamping, punching and forming (820730)



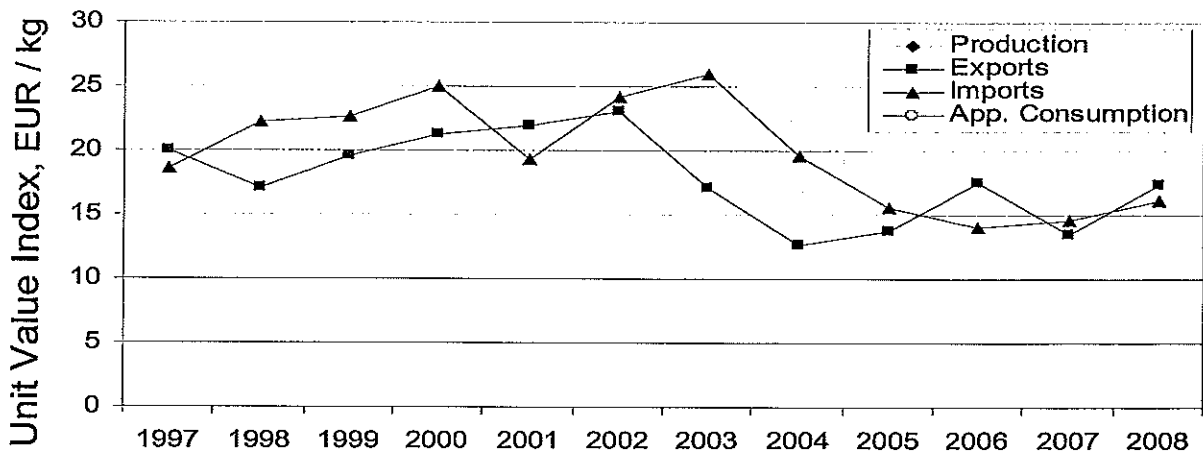
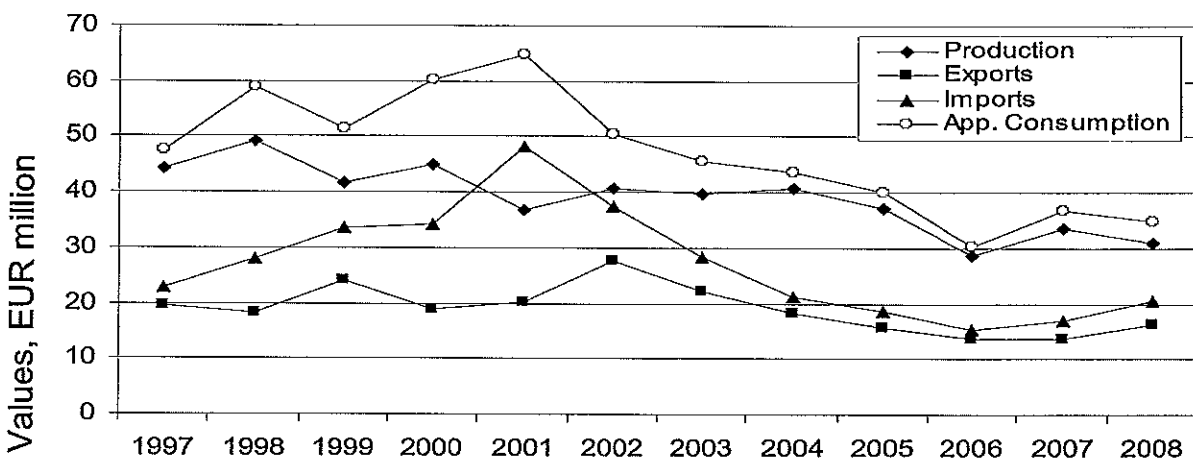
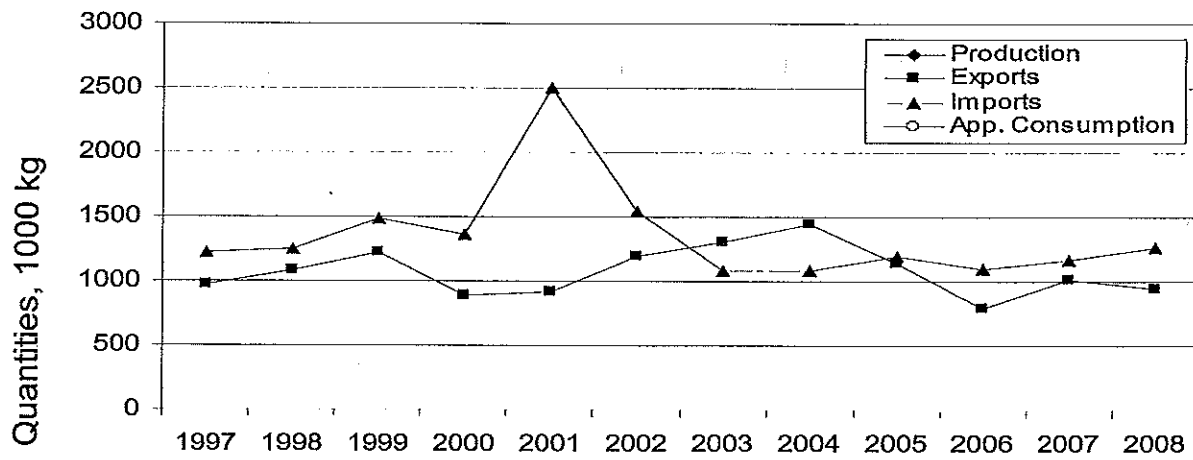
France - Injection and compression moulds for plastics (849071+848079)



France - Mould tools for metal or metal carbides excluding injection (848049)

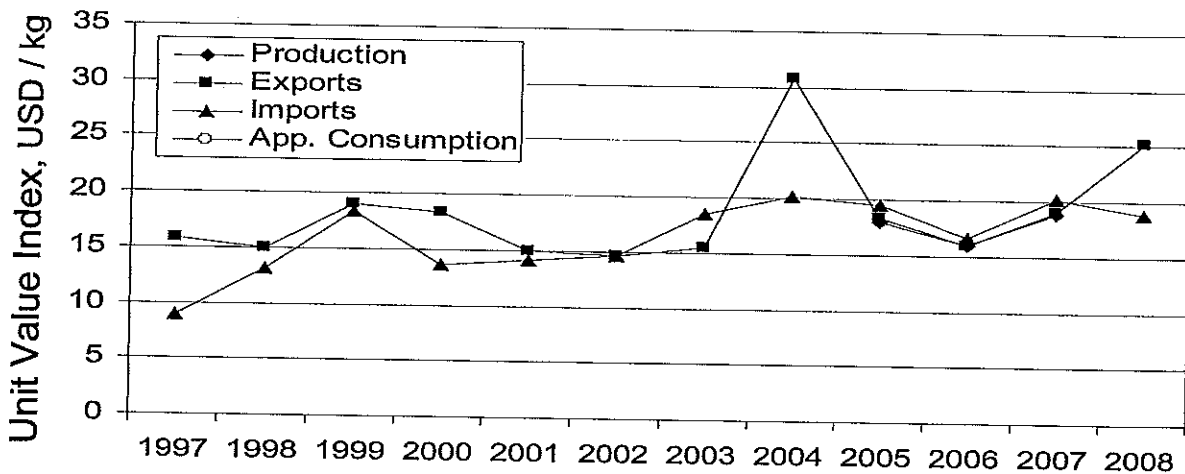
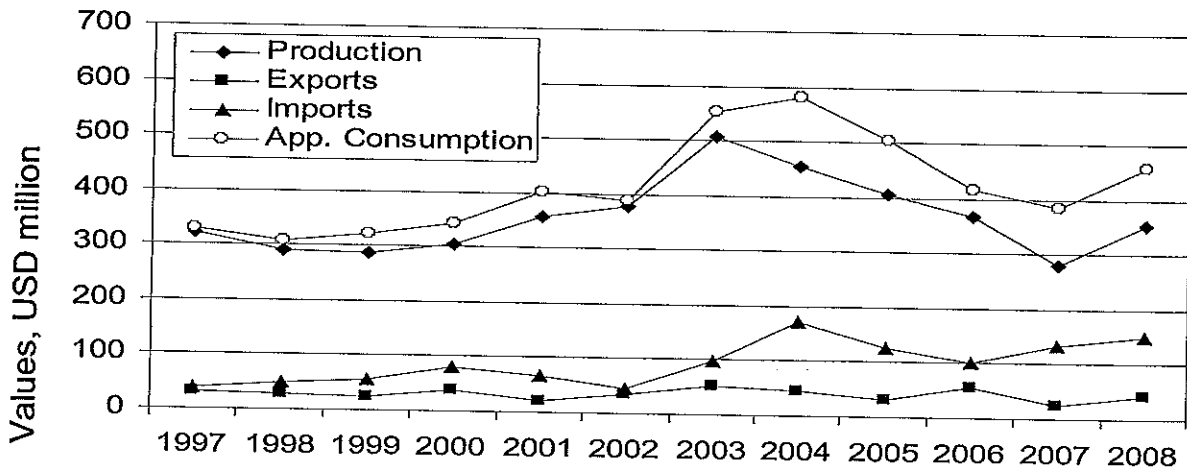
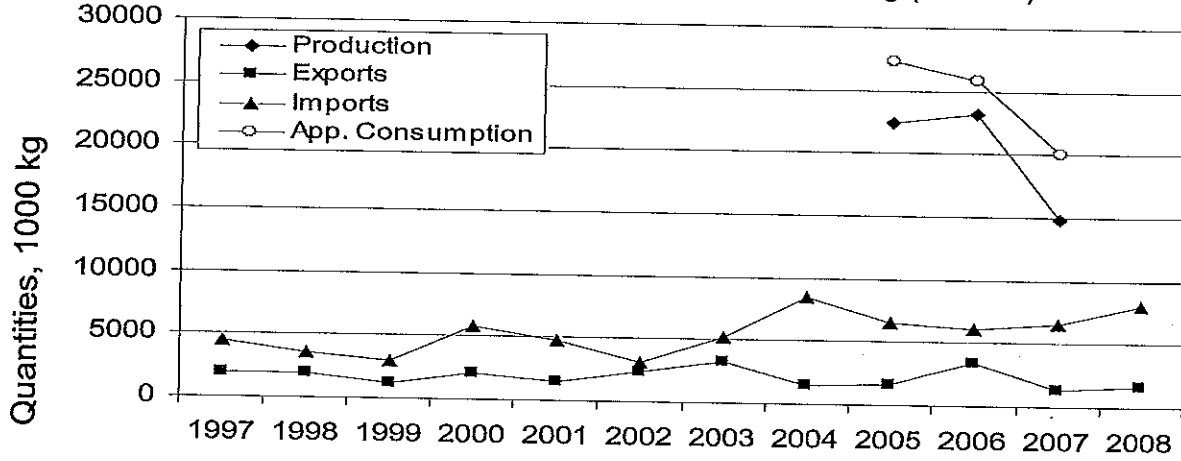


France - Mould tools for metal or metal carbides (848041)

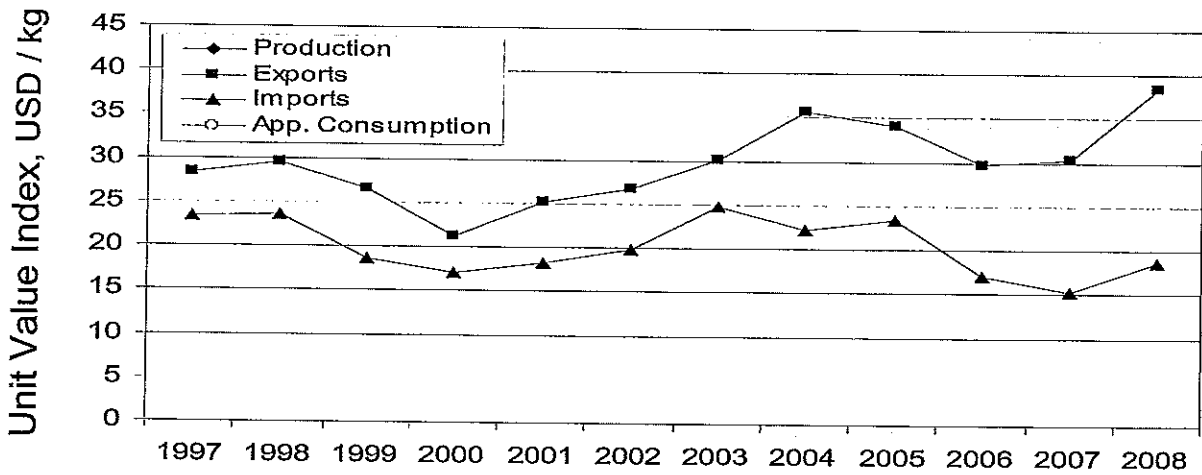
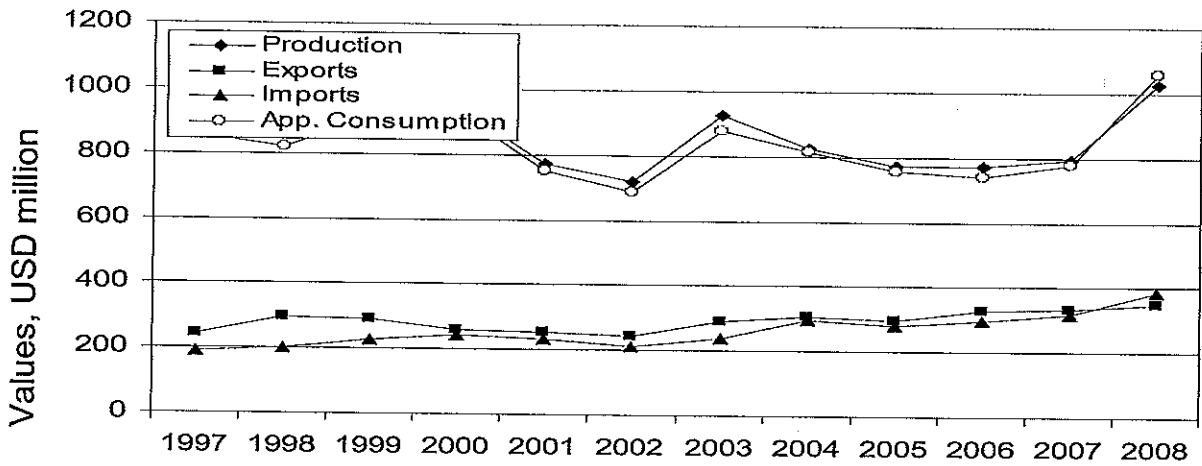
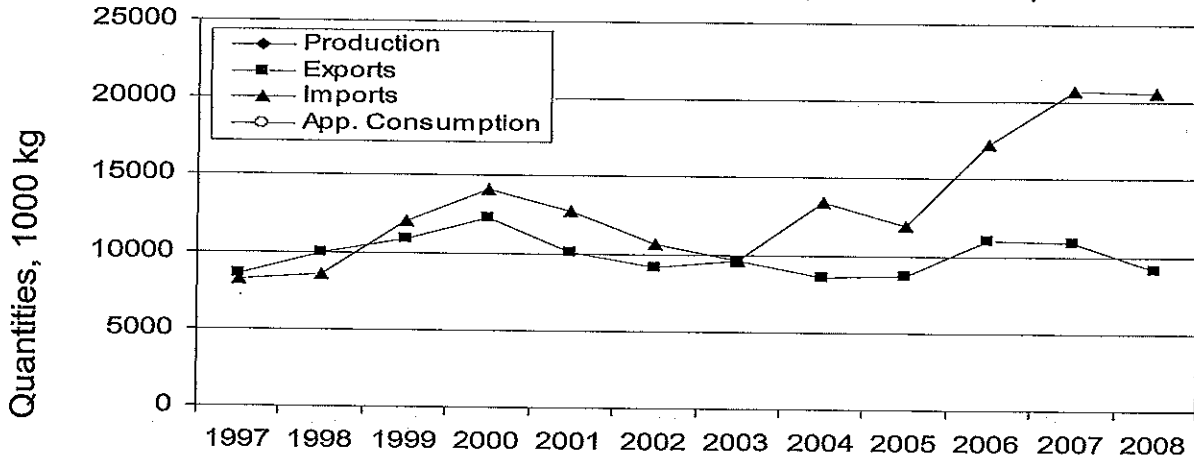


### 4.12. France (USD)

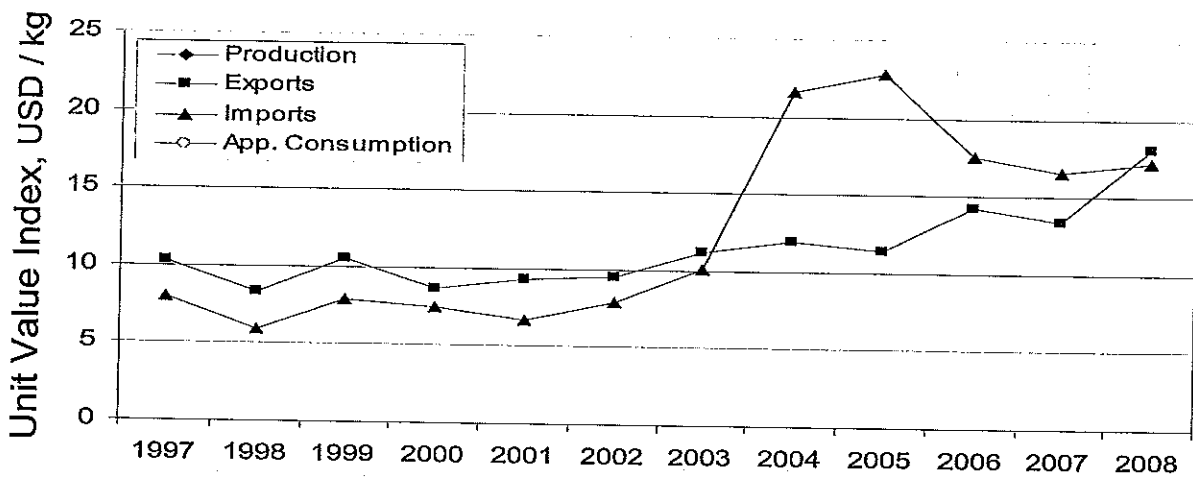
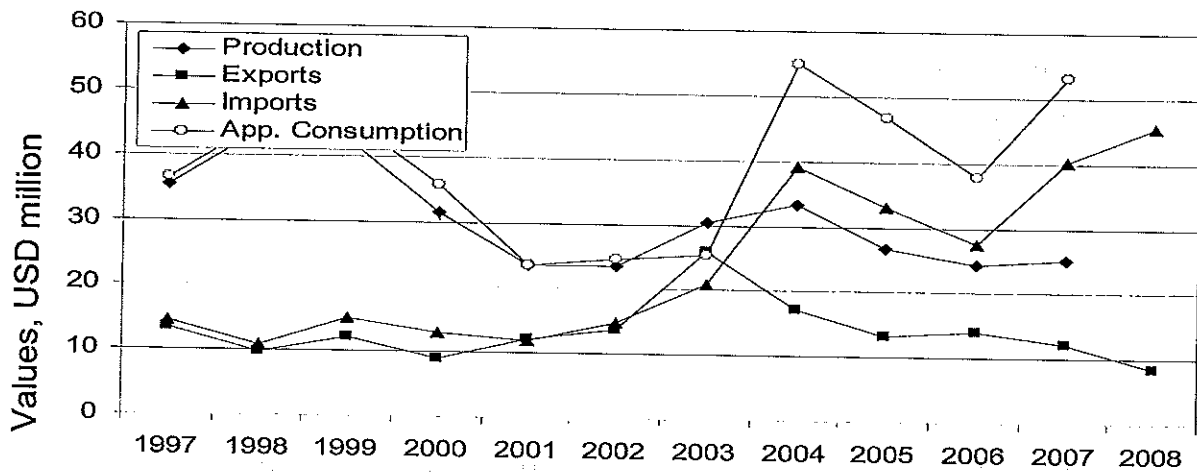
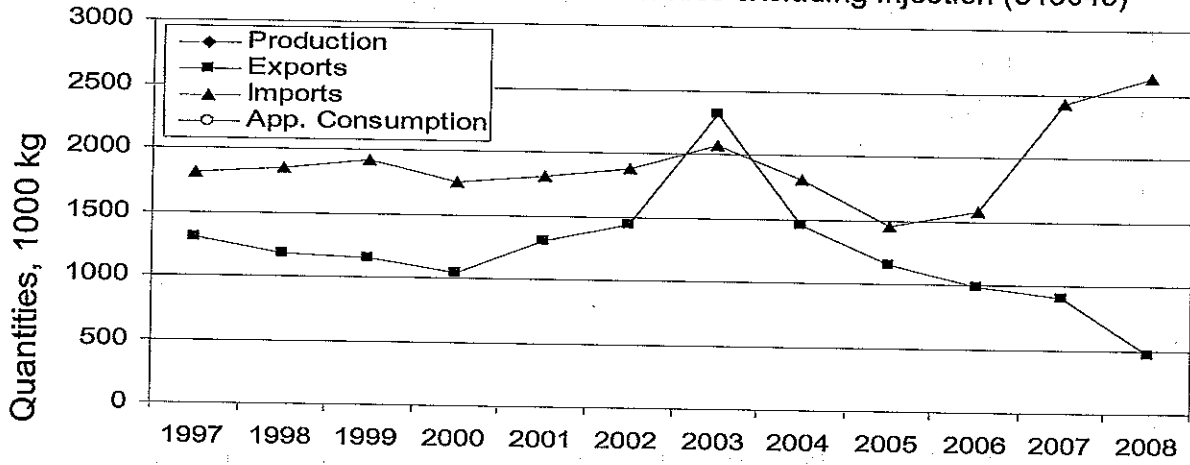
France - Tools for pressing, stamping, punching and forming (820730)



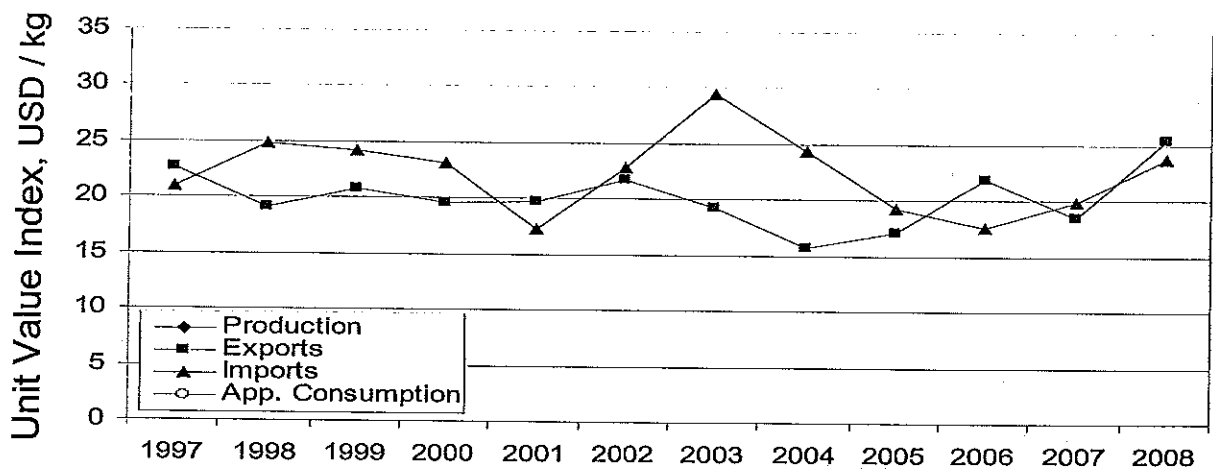
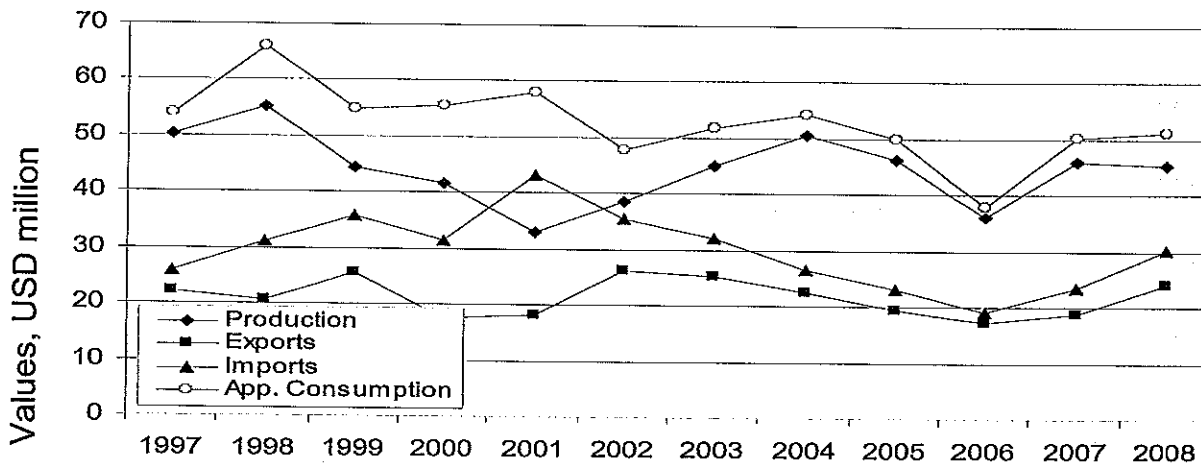
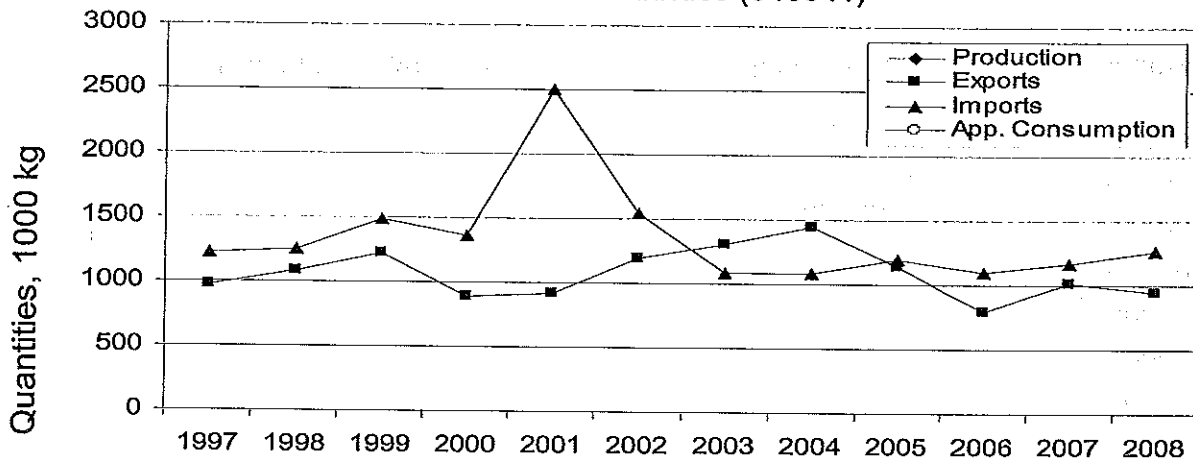
France - Injection and compression moulds for plastics (849071+848079)



France - Mould tools for metal or metal carbides excluding injection (848049)

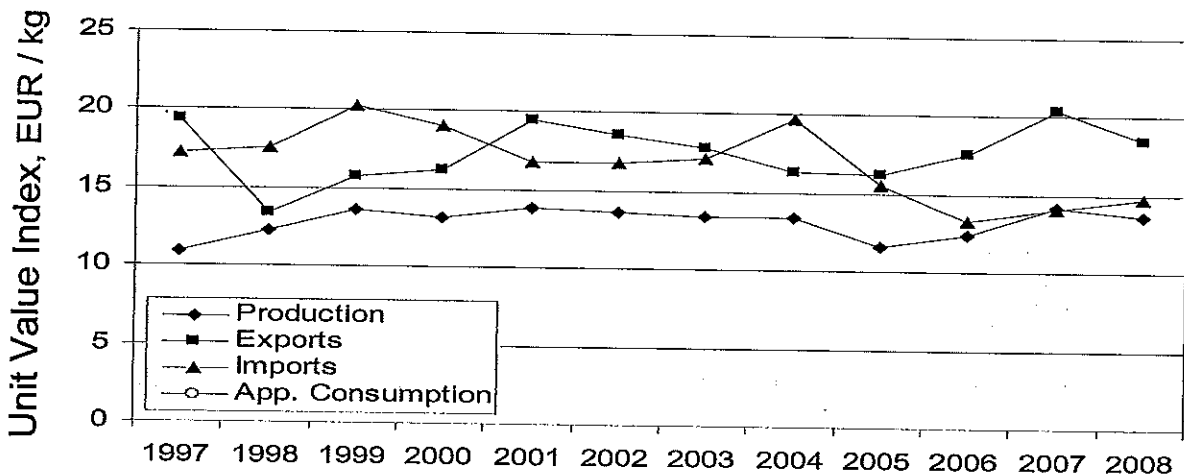
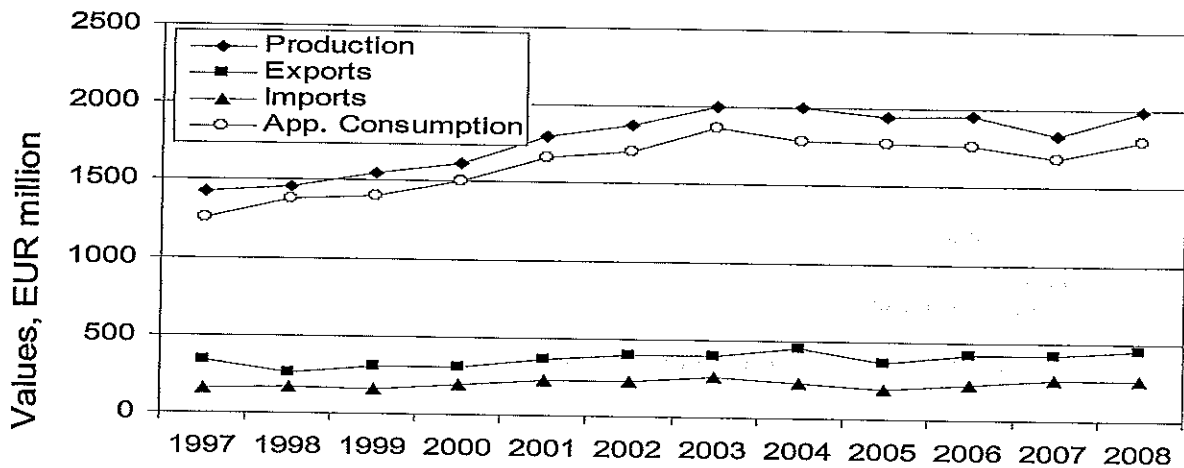
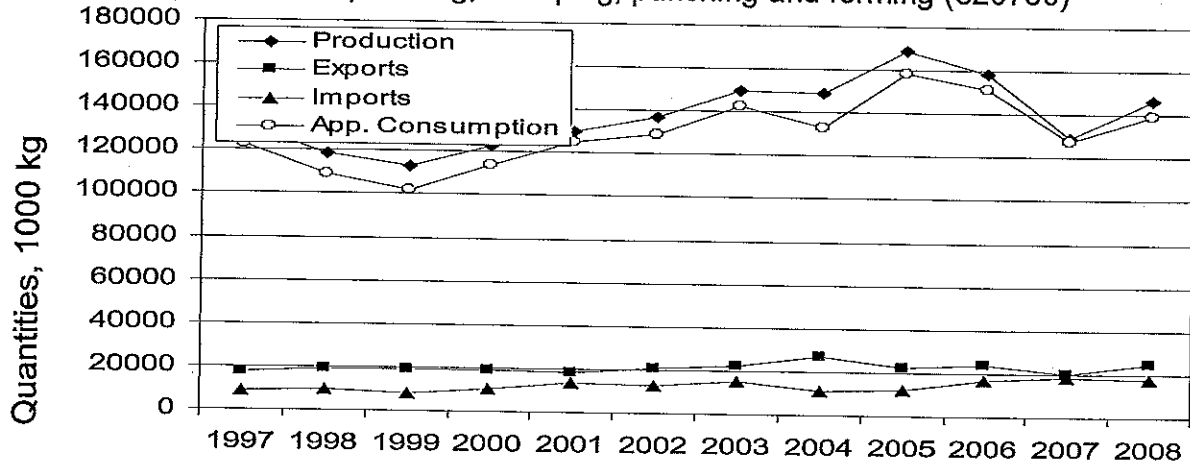


France - Mould tools for metal or metal carbides (848041)

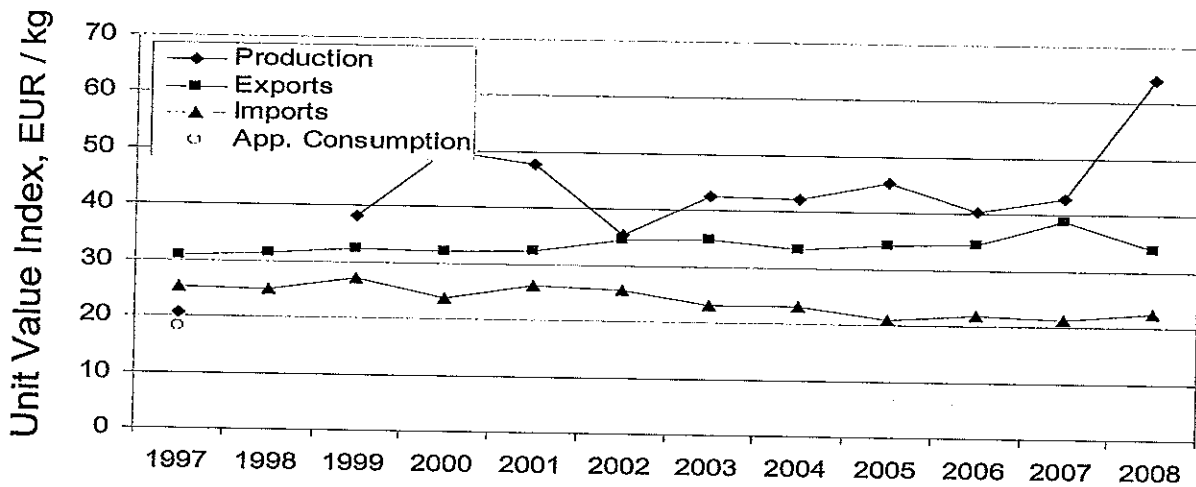
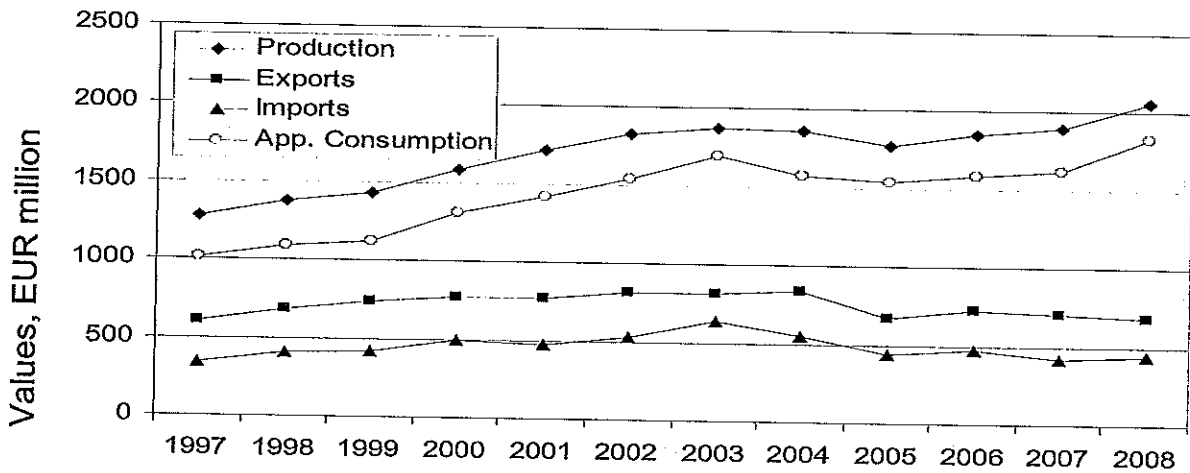
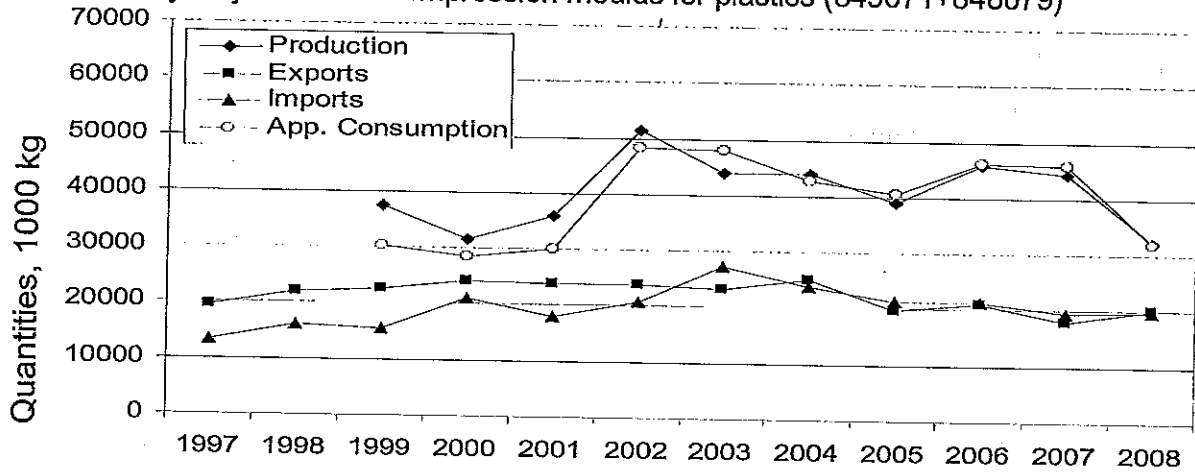


### 4.13. Germany (EUR)

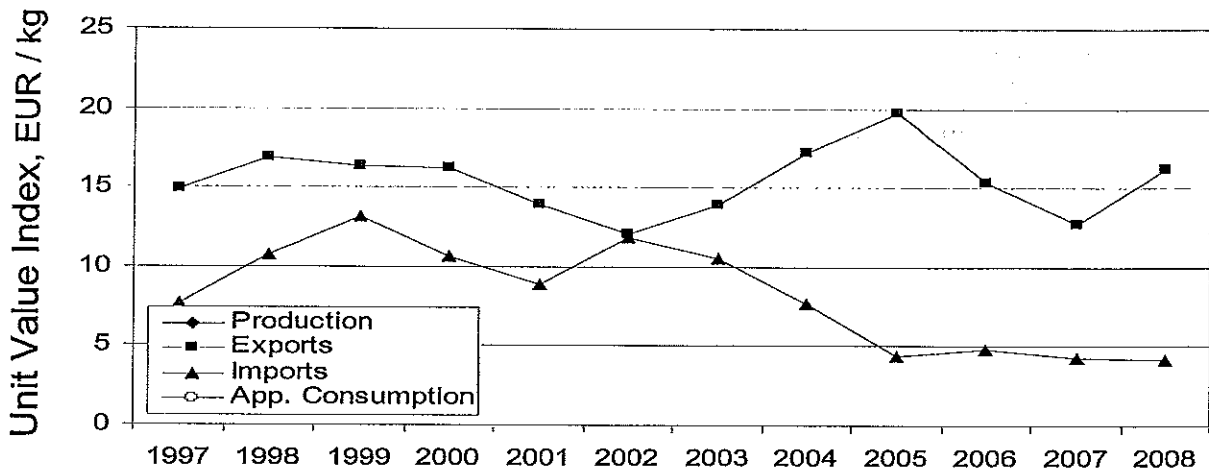
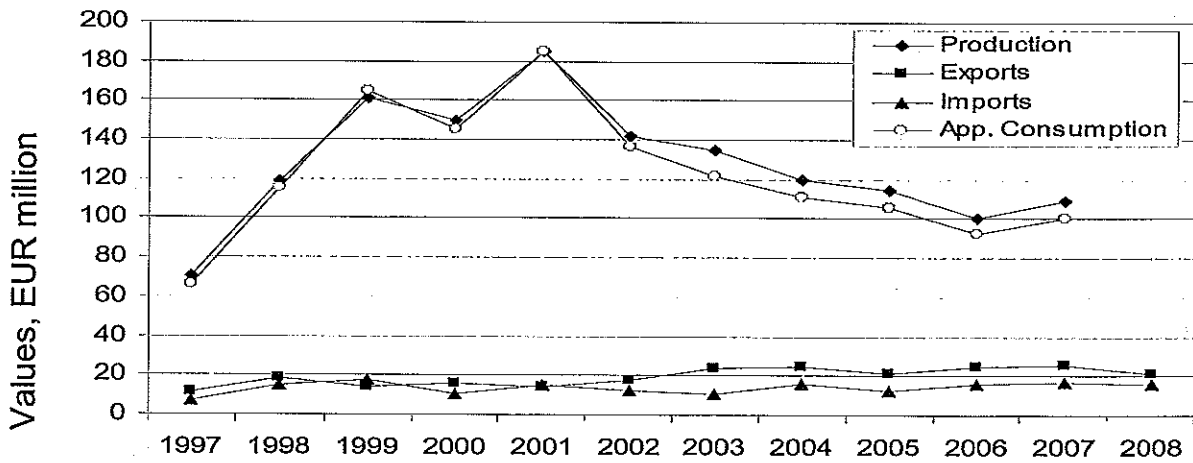
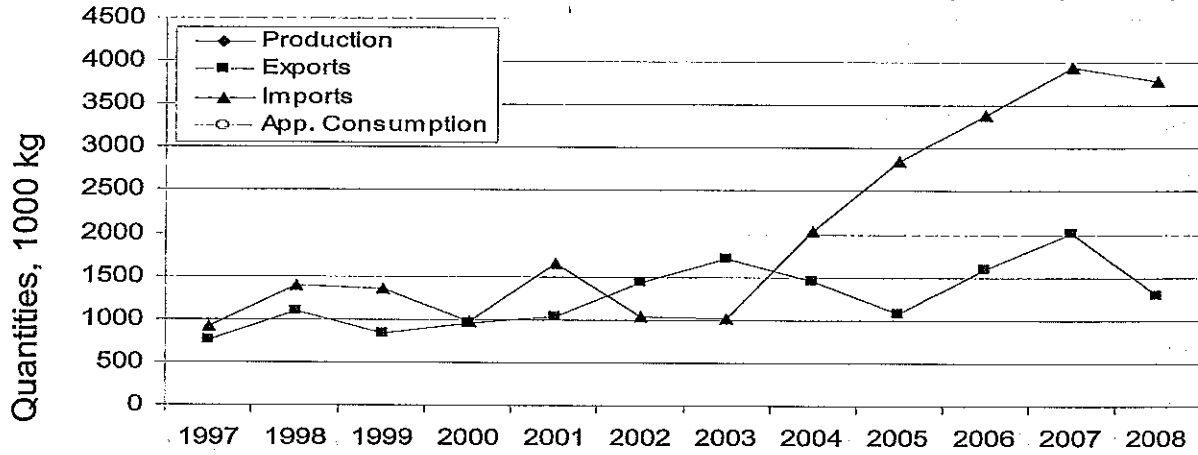
Germany - Tools for pressing, stamping, punching and forming (820730)



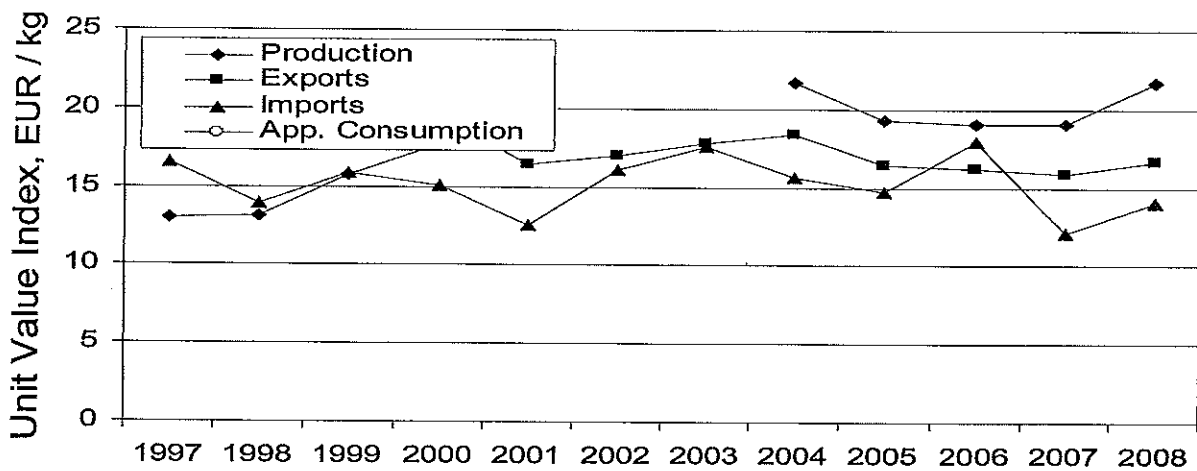
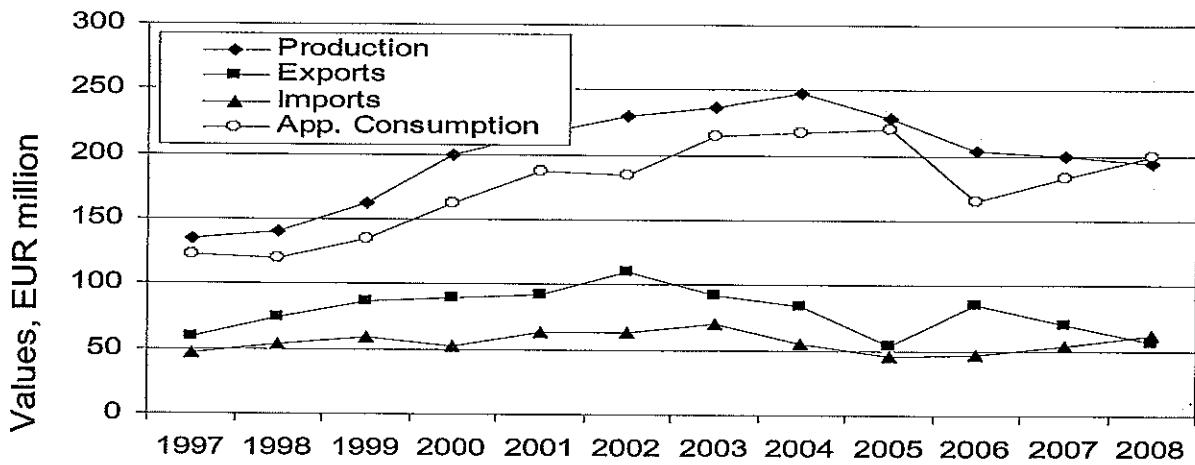
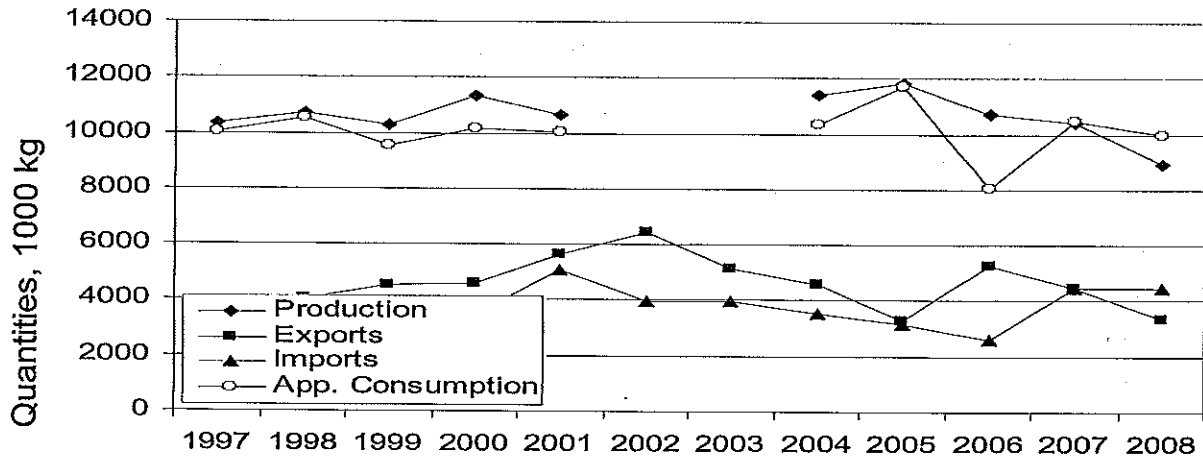
Germany - Injection and compression moulds for plastics (849071+848079)



Germany – Mould tools for metal or metal carbides excluding injection (848049)

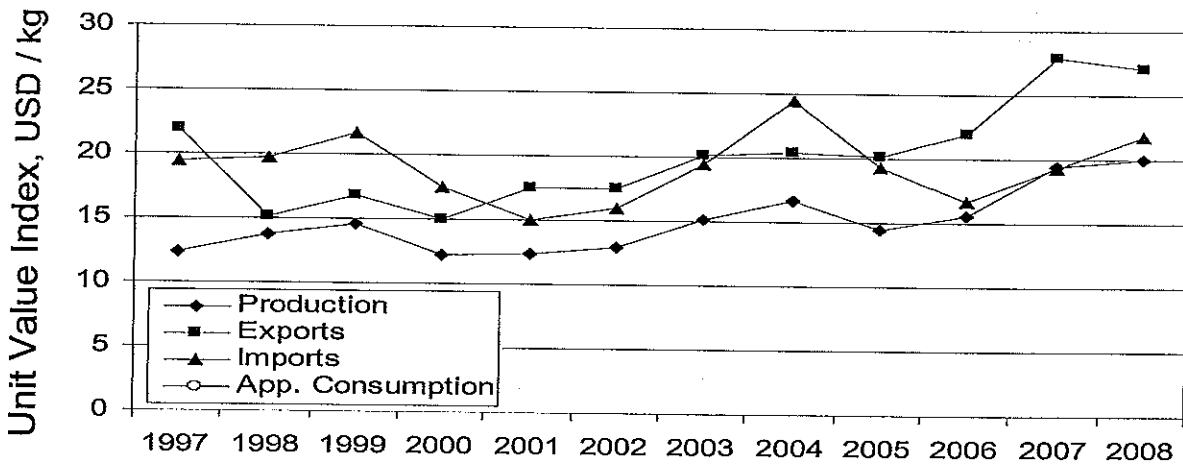
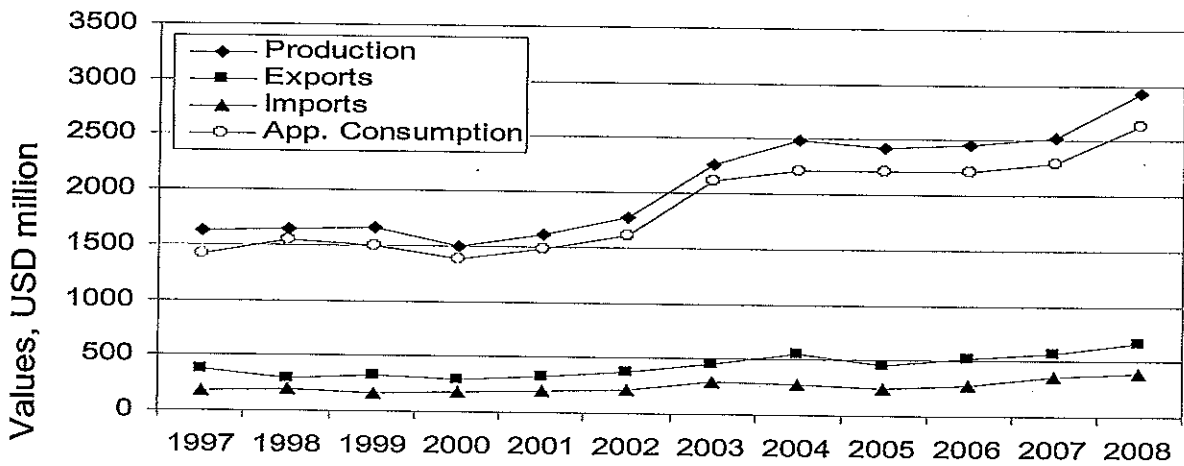
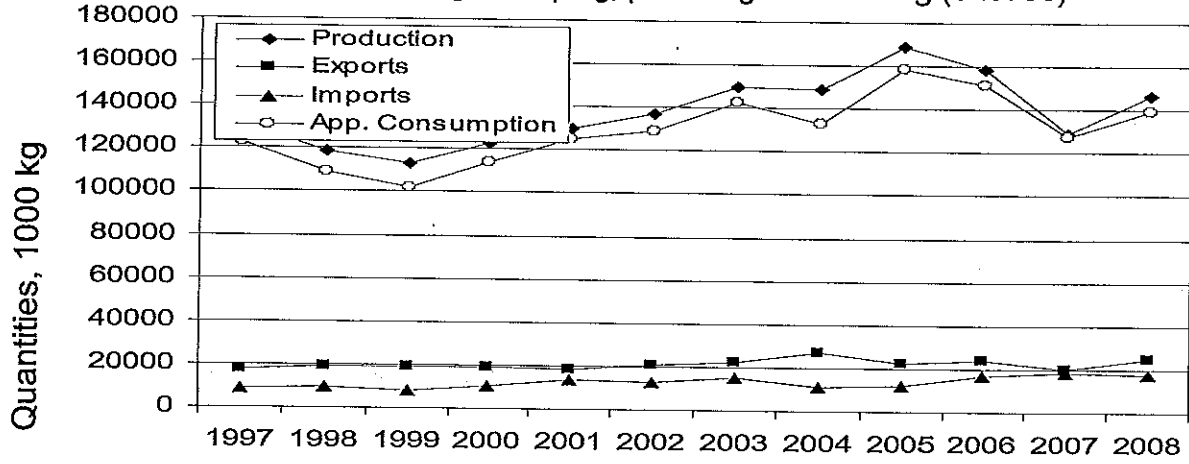


Germany - Mould tools for metal or metal carbides (848041)

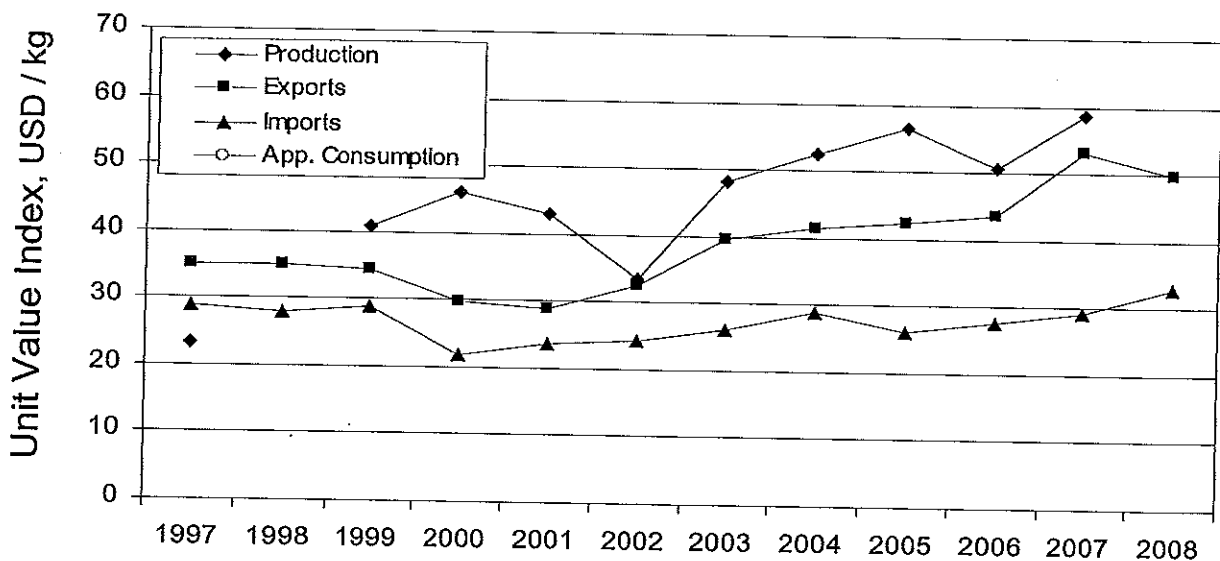
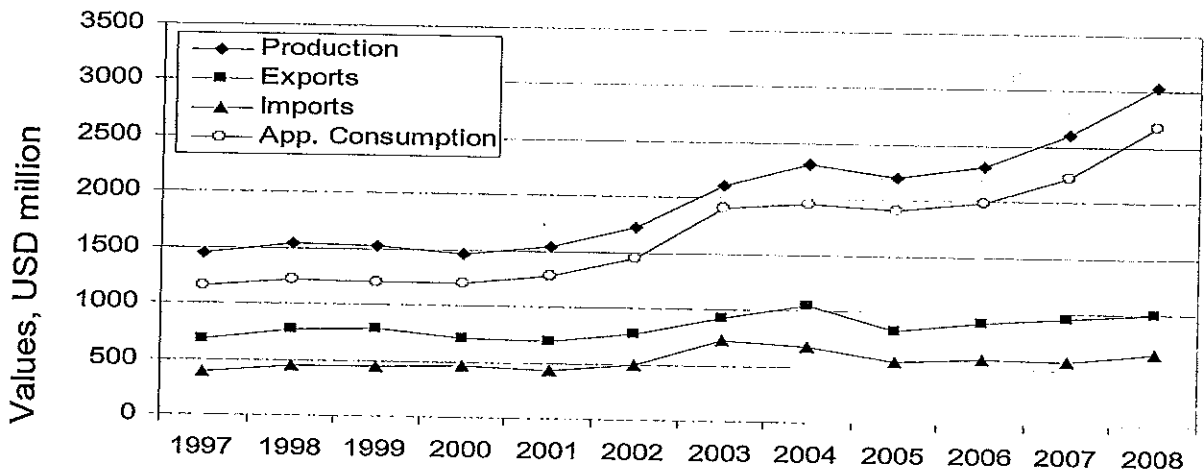
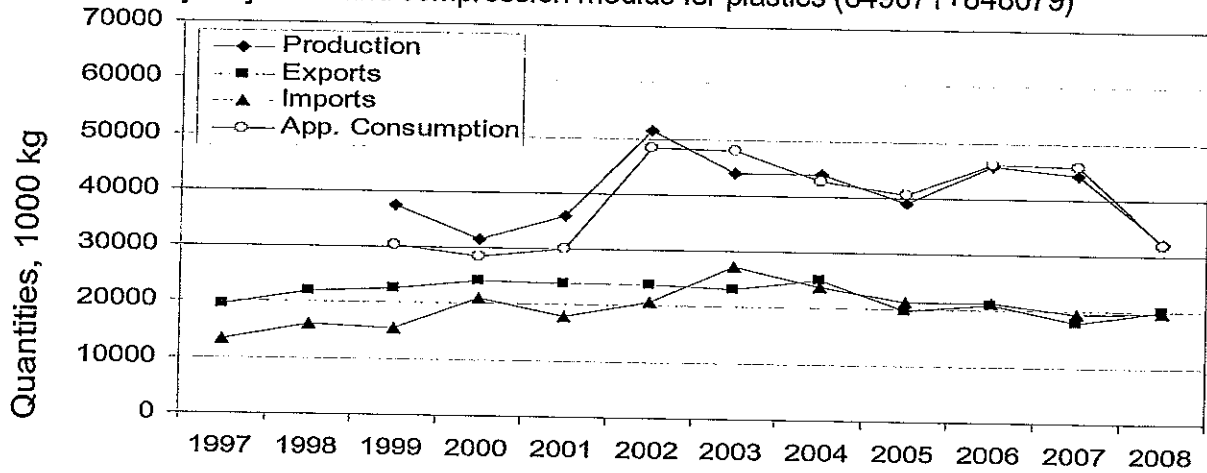


### 4.14. Germany (USD)

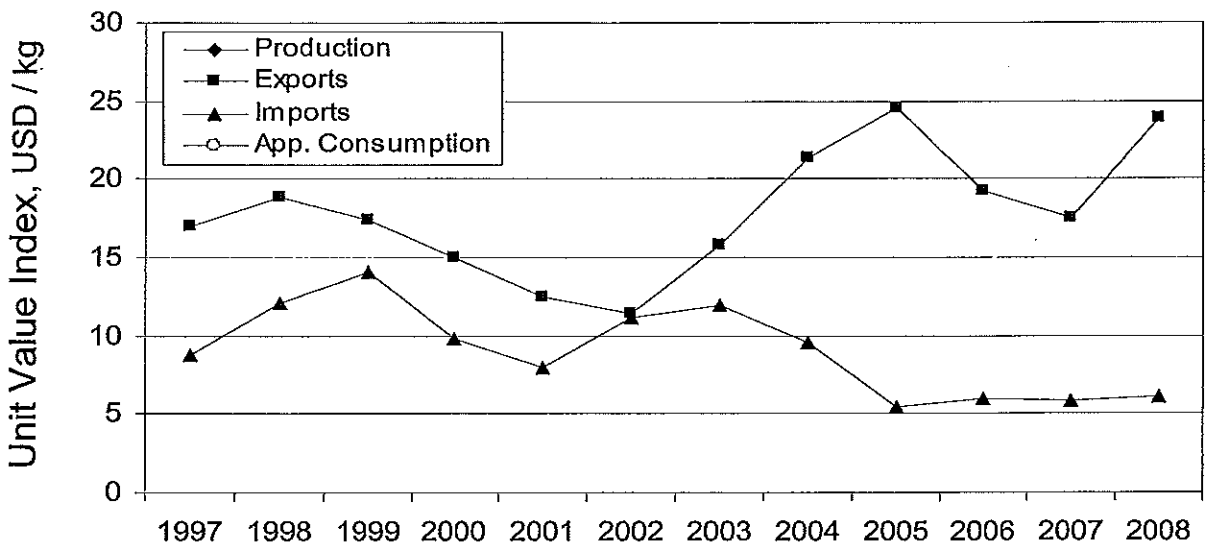
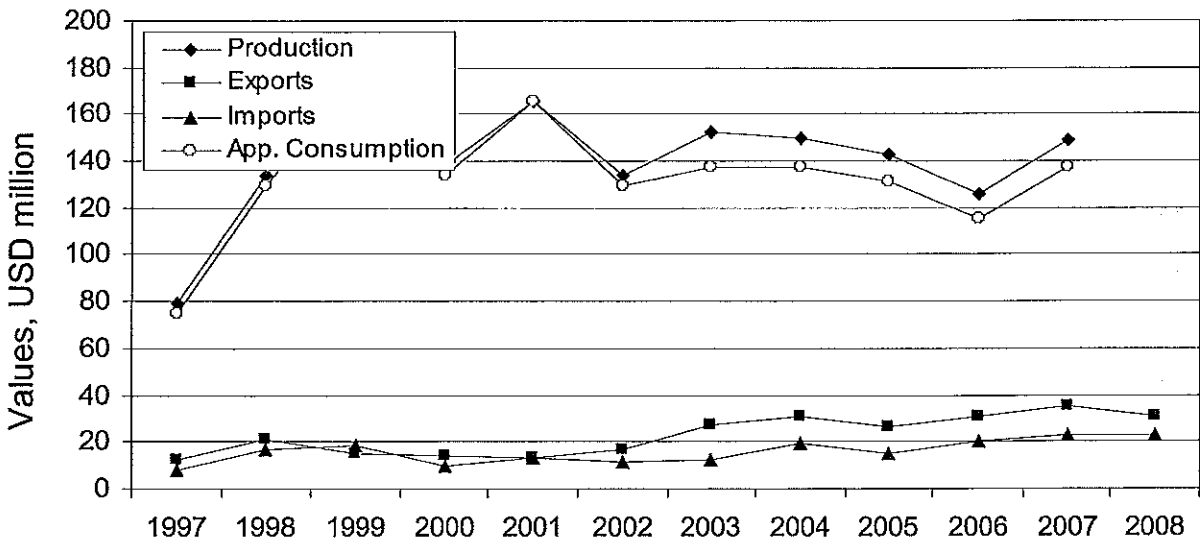
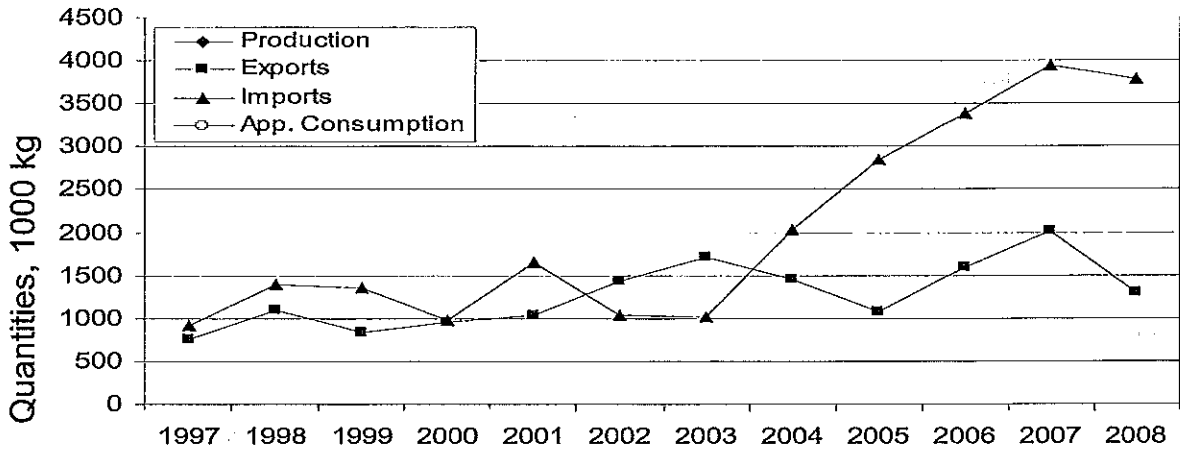
Germany - Tools for pressing, stamping, punching and forming (820730)



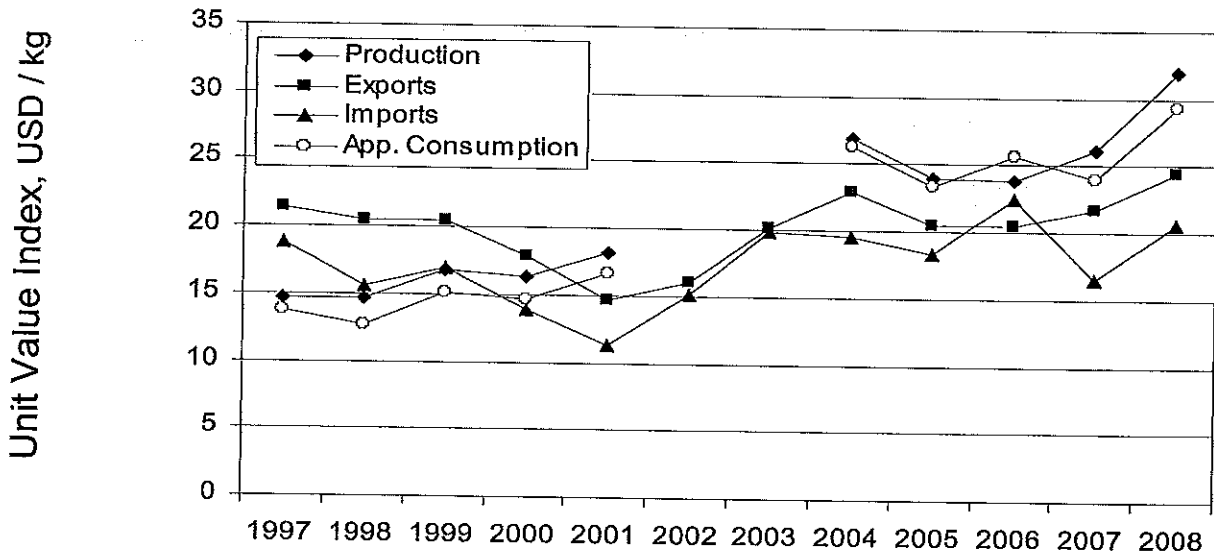
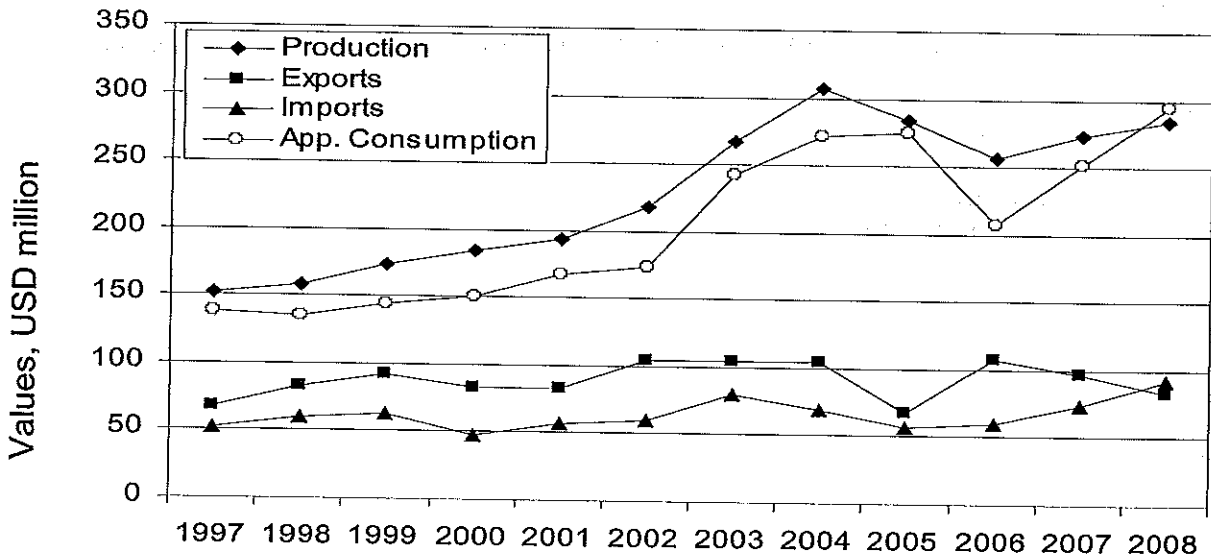
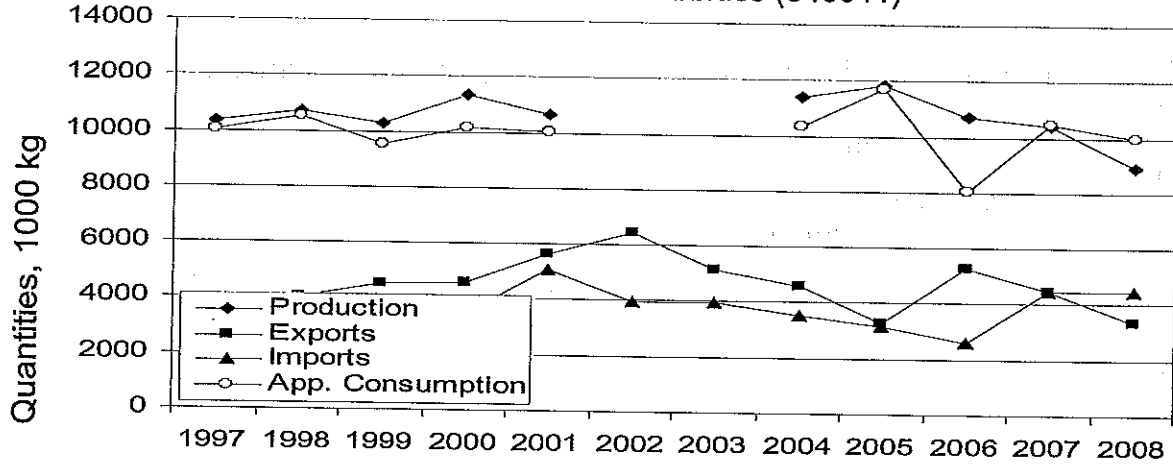
Germany - Injection and compression moulds for plastics (849071+848079)



Germany - Mould tools for metal or metal carbides excluding injection (848049)

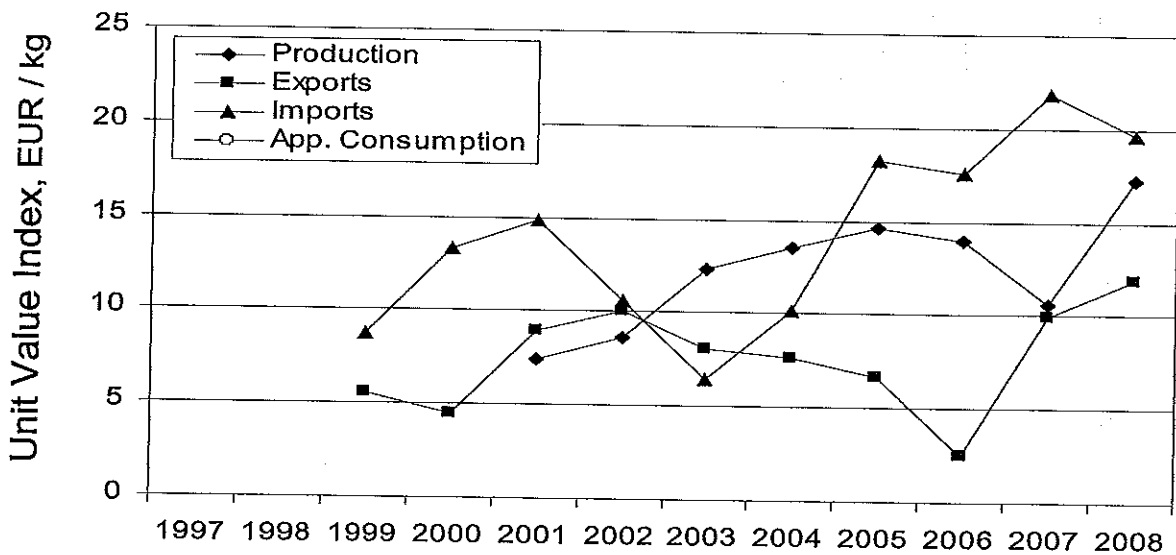
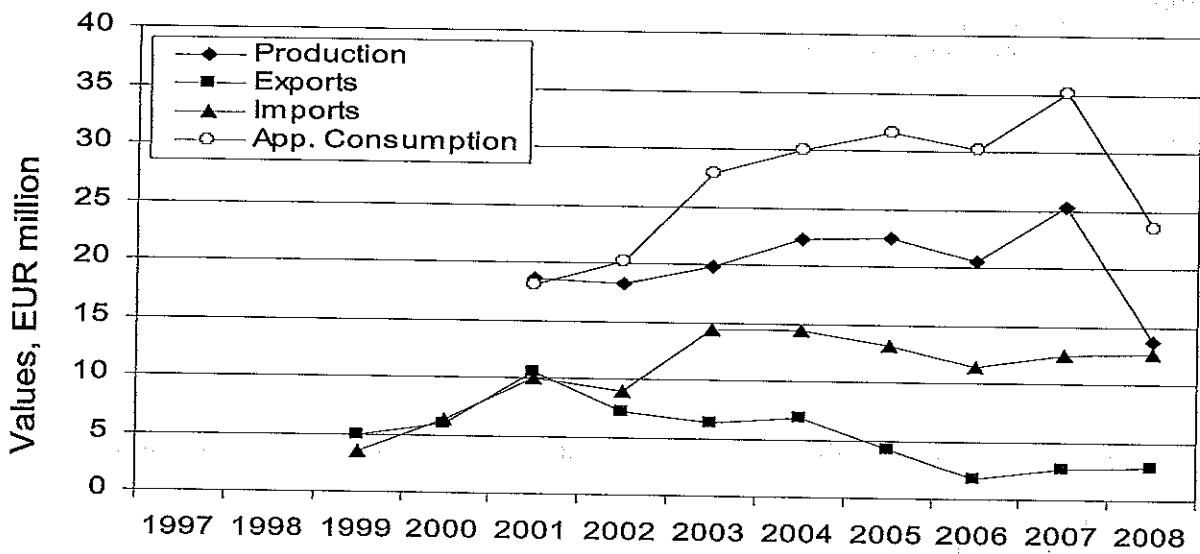
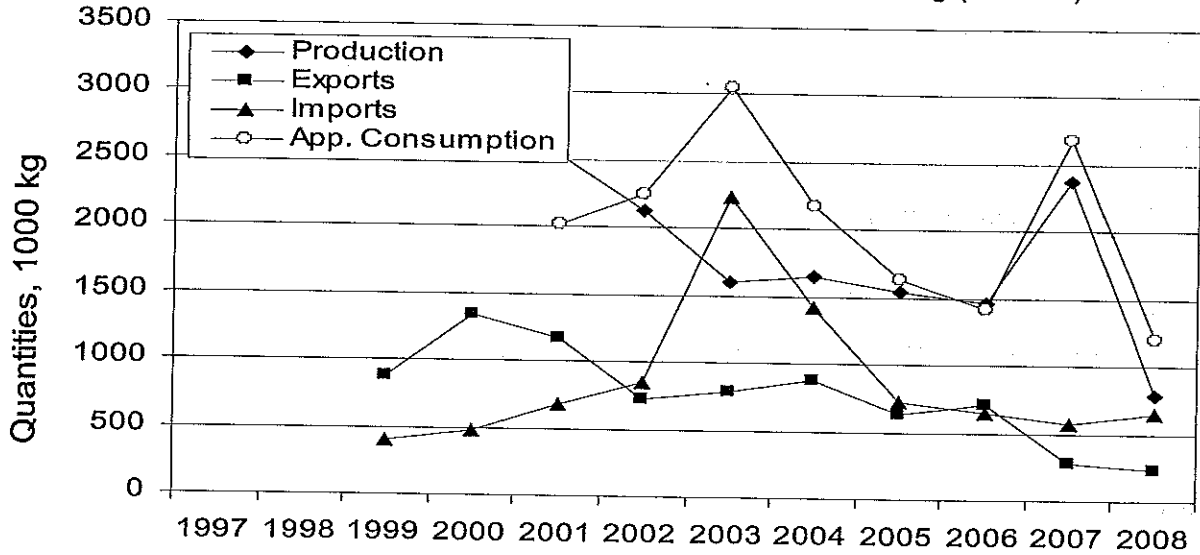


Germany - Mould tools for metal or metal carbides (848041)

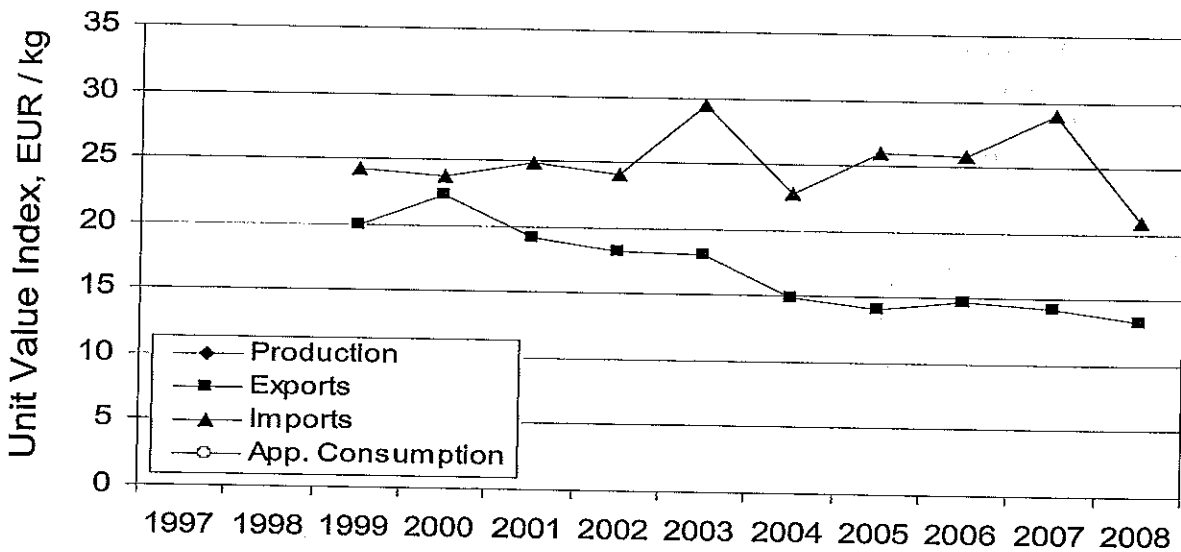
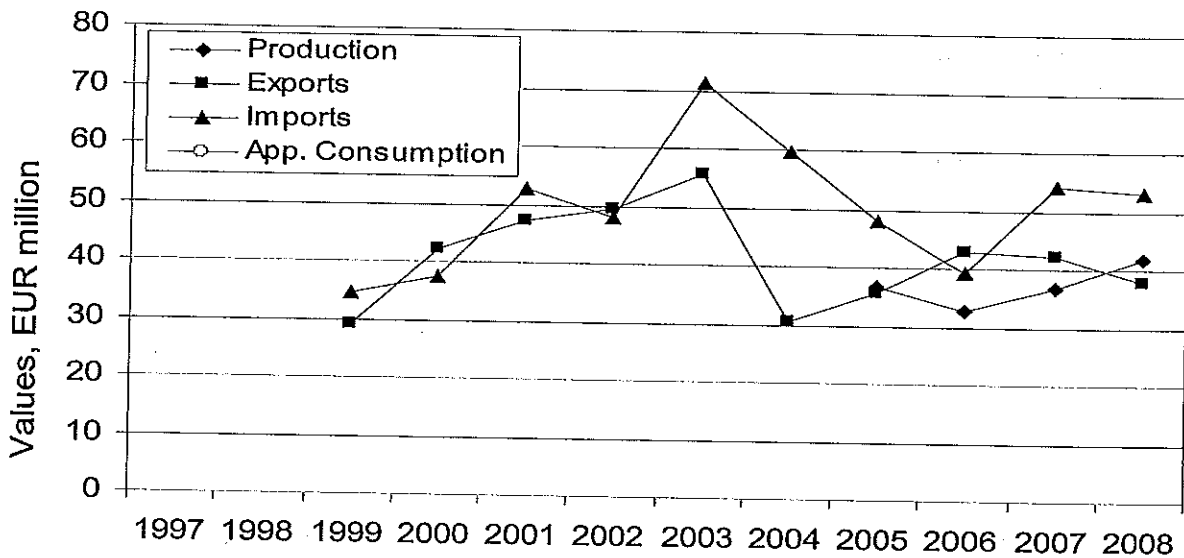
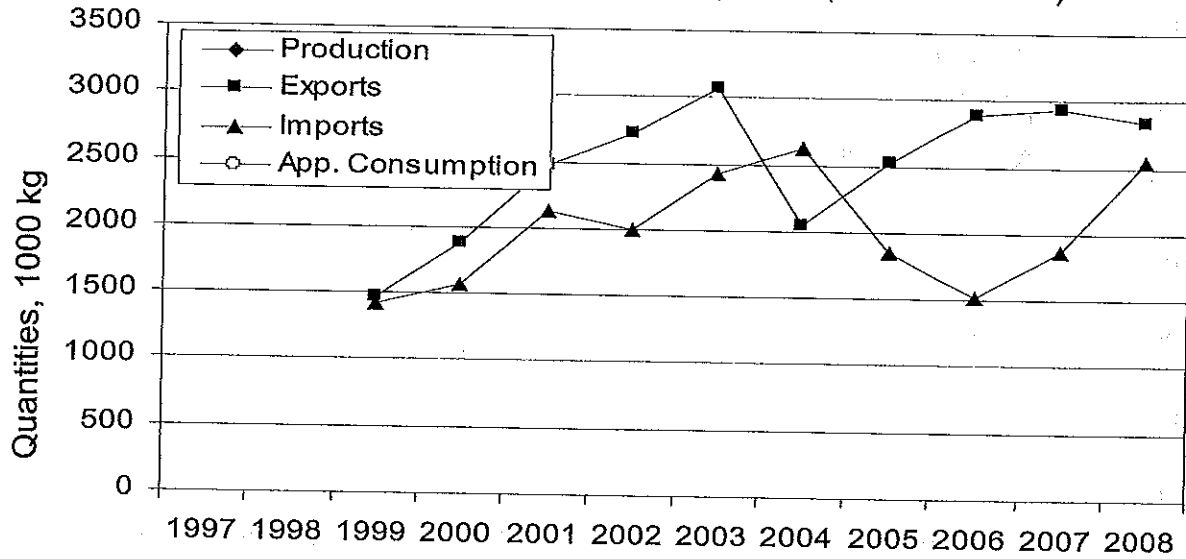


### 4.15. Hungary (EUR)

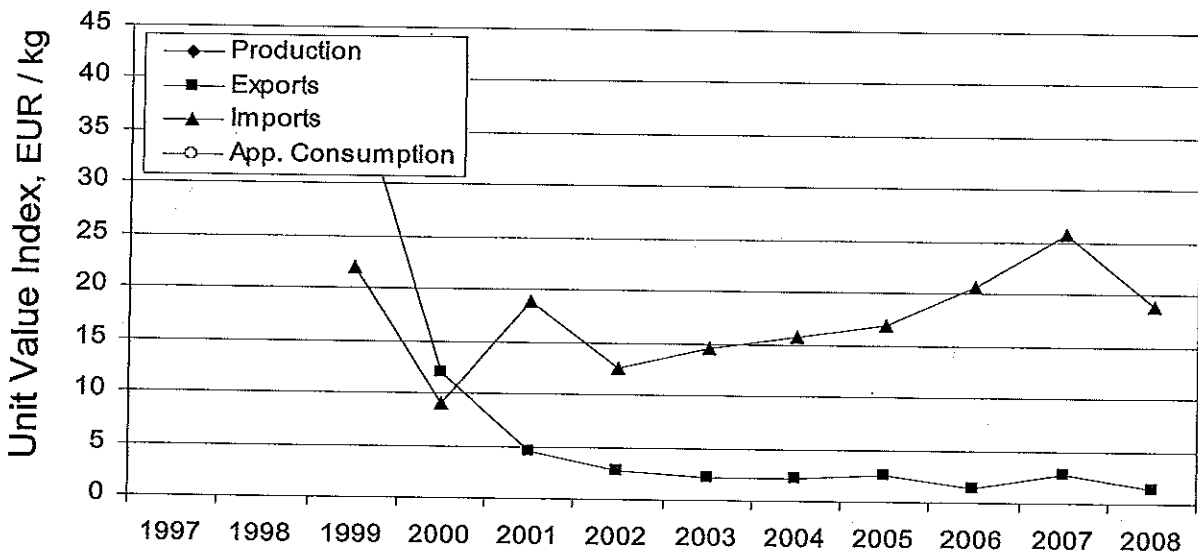
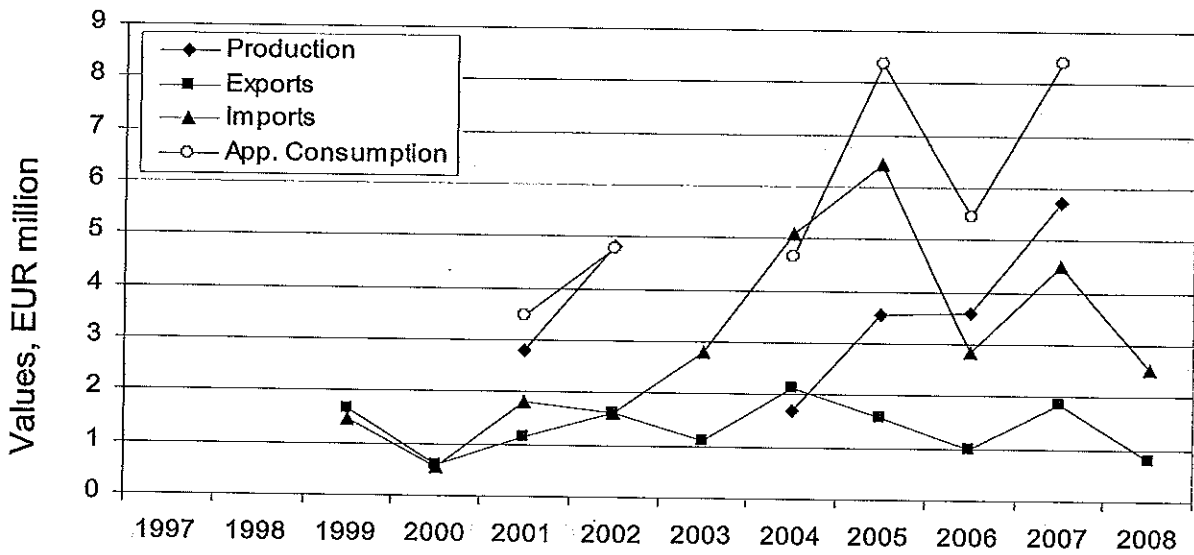
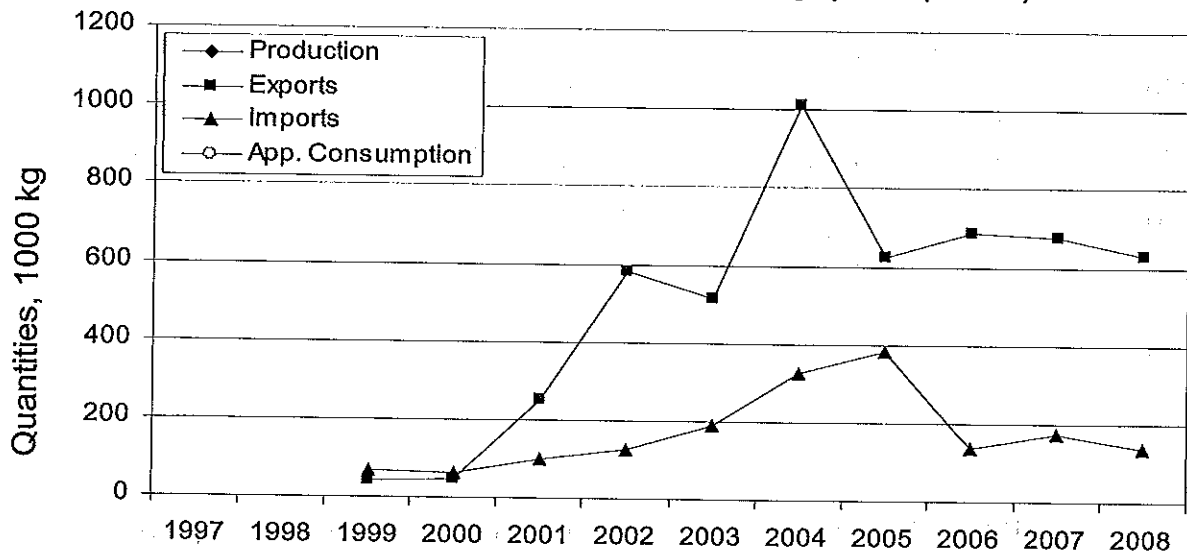
Hungary - Tools for pressing, stamping, punching and forming (820730)



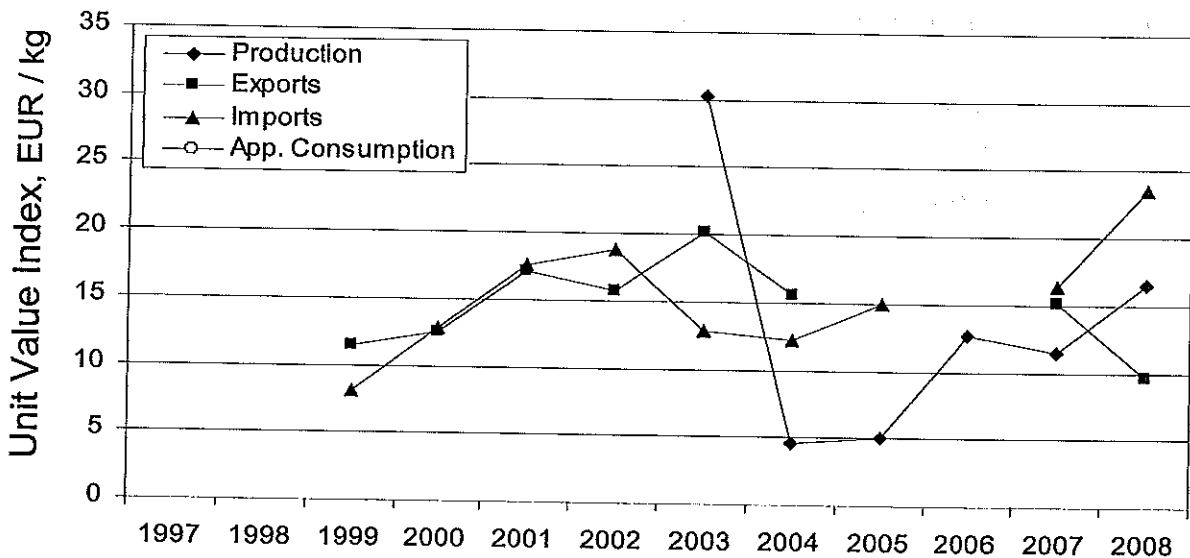
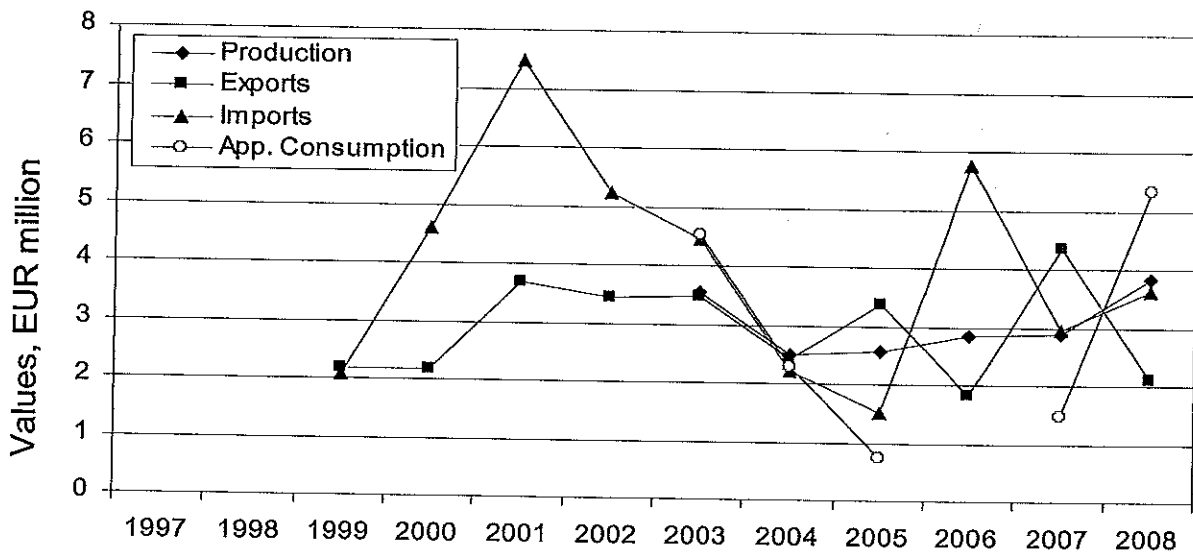
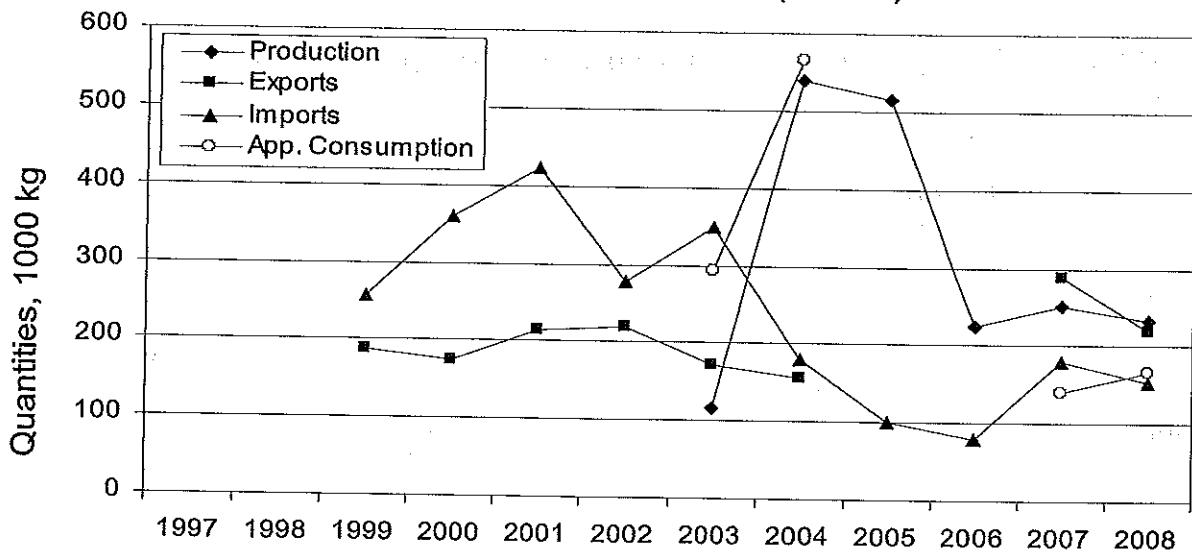
Hungary - Injection and compression moulds for plastics (849071+848079)



Hungary - Mould tools for metal or metal carbides excluding injection (848049)

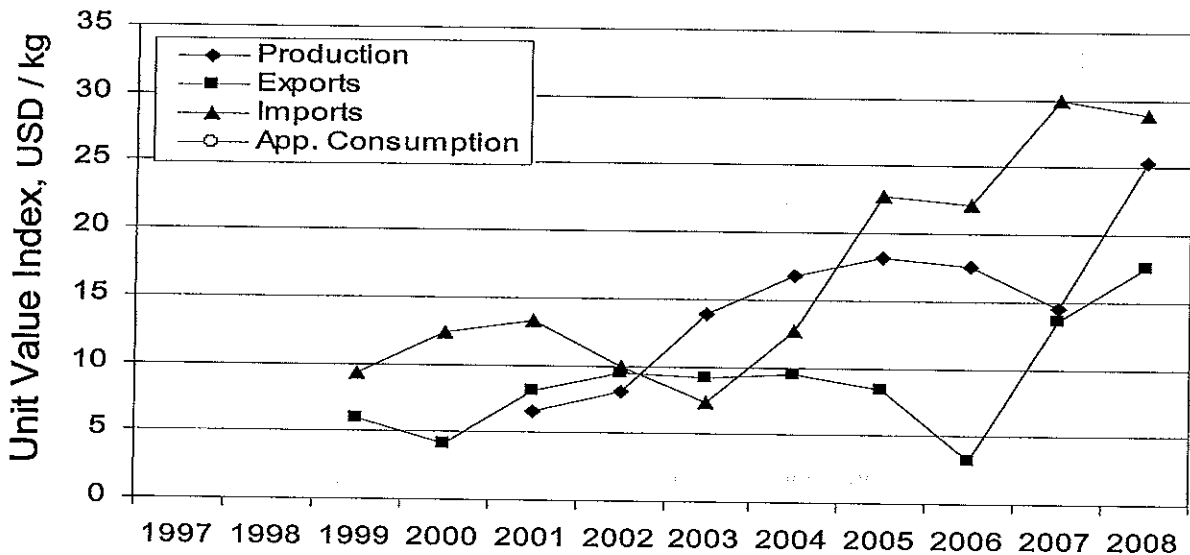
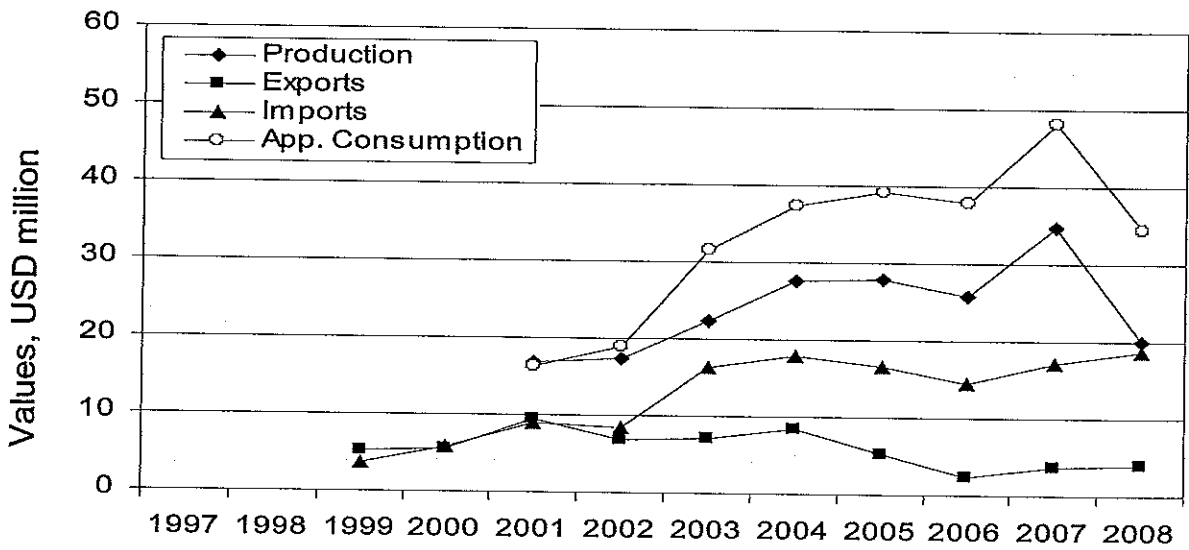
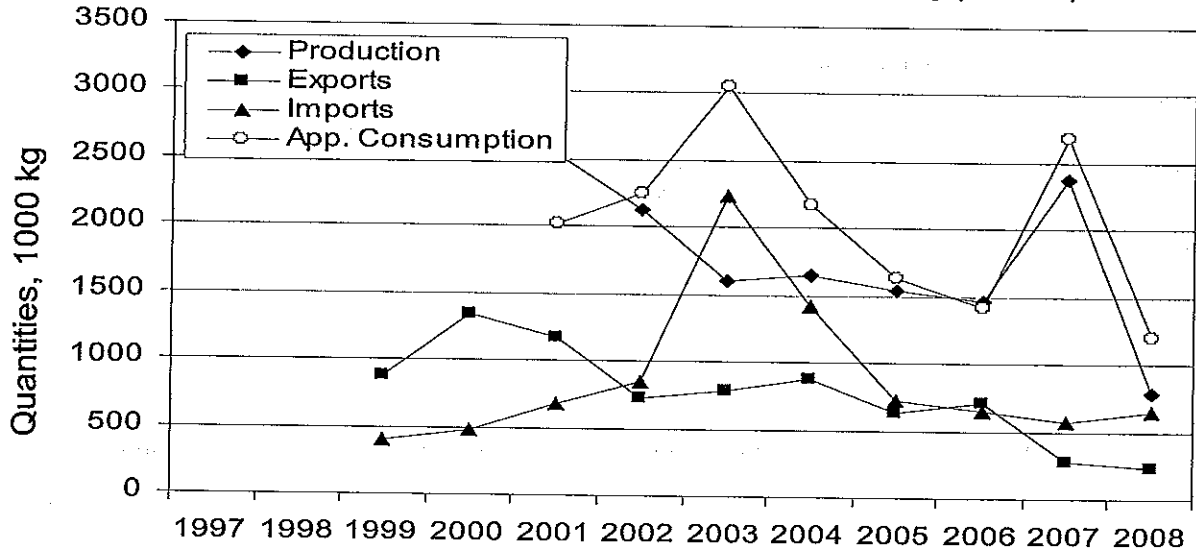


Hungary - Mould tools for metal or metal carbides (848041)

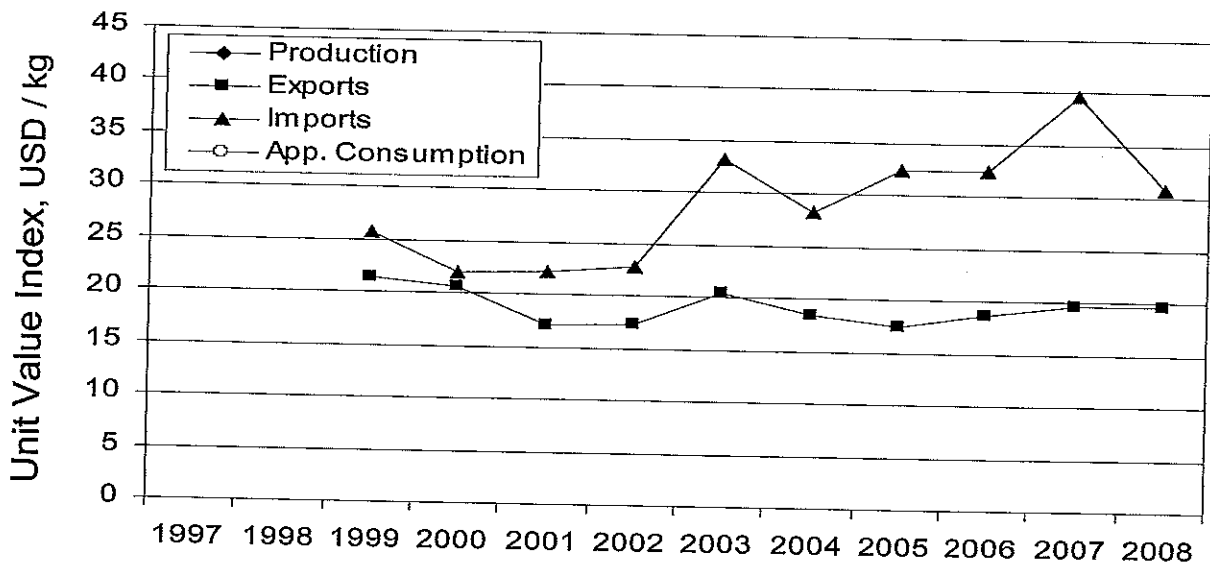
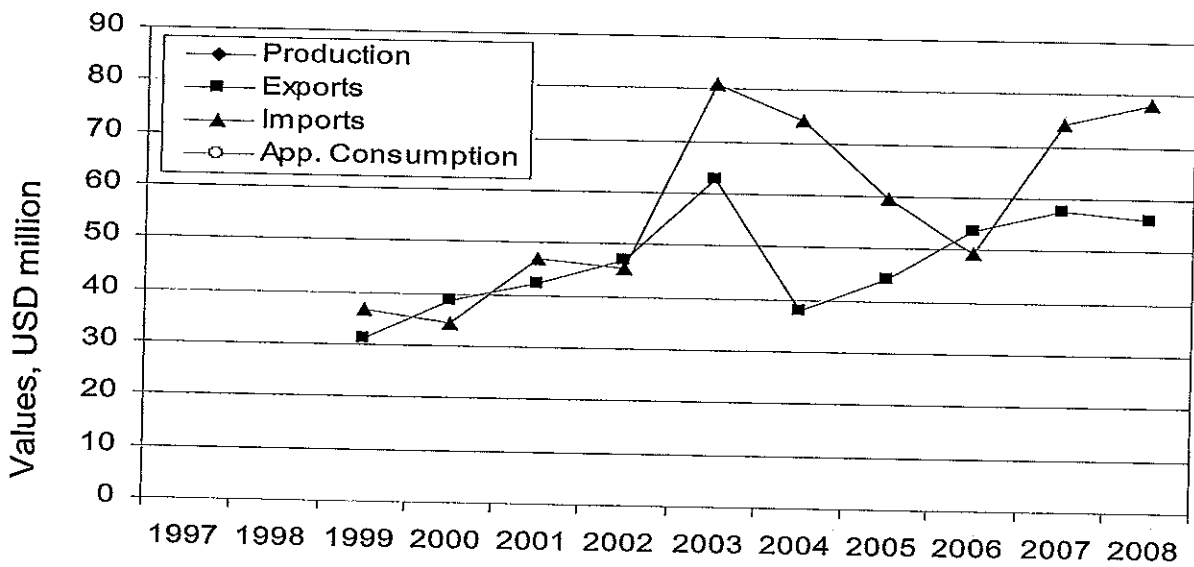
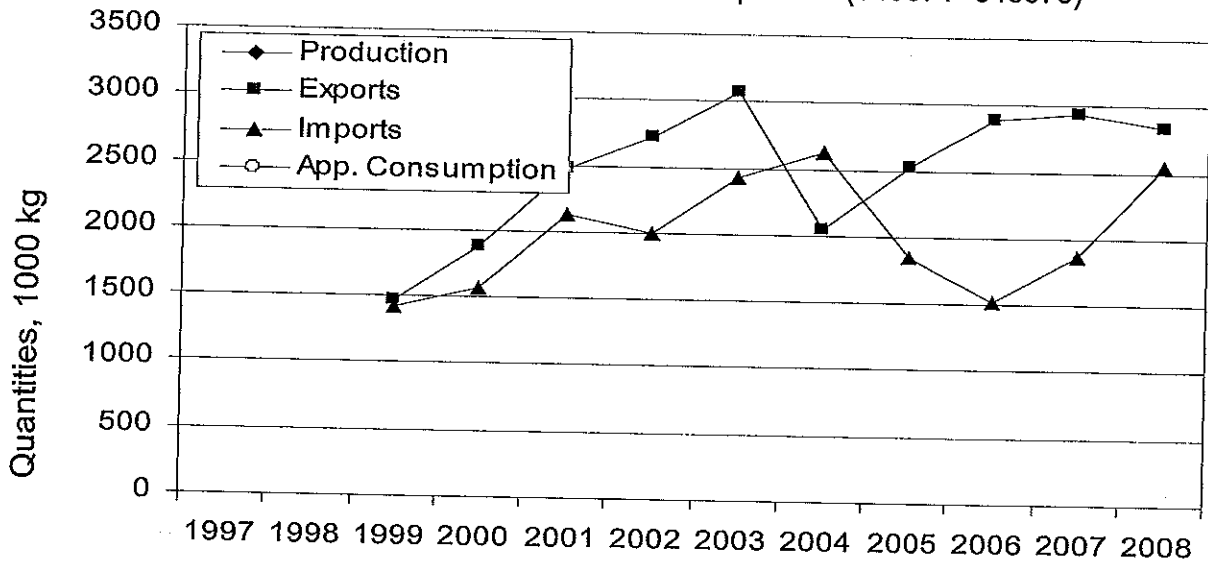


### 4.16. Hungary (USD)

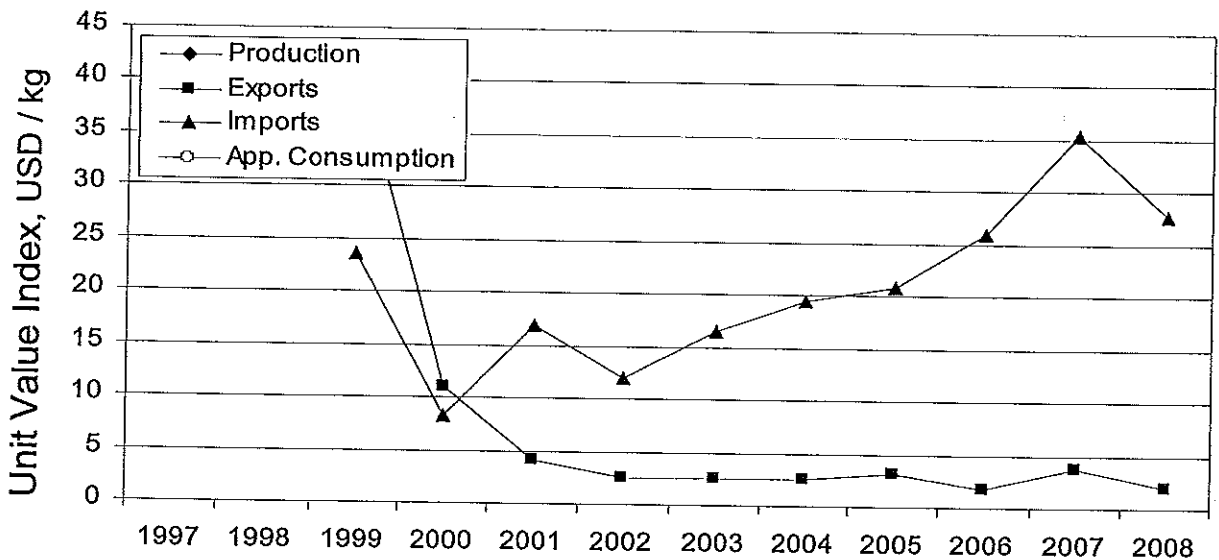
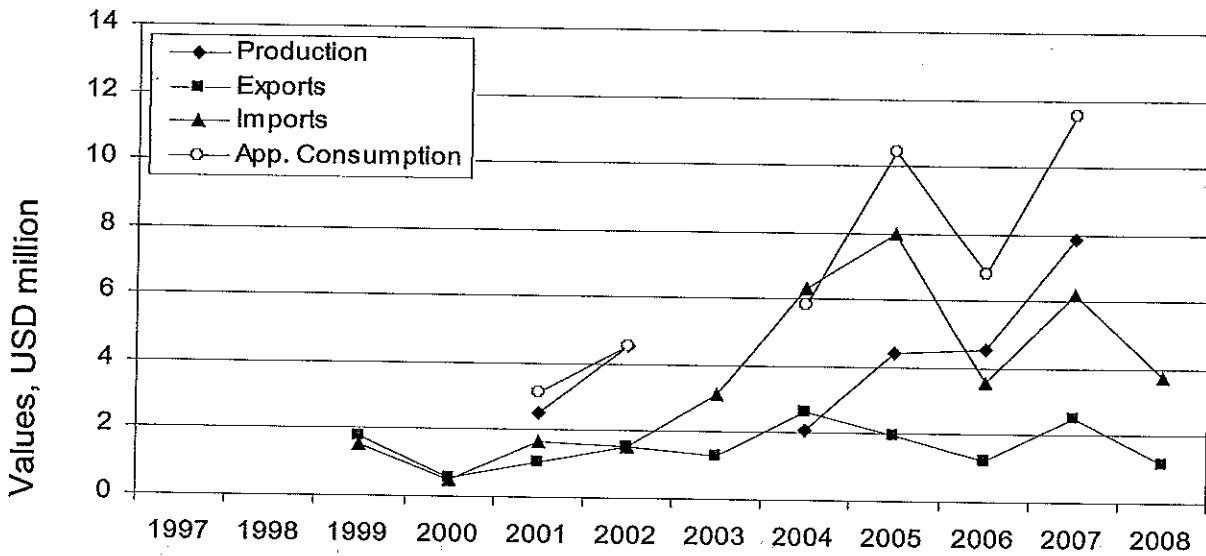
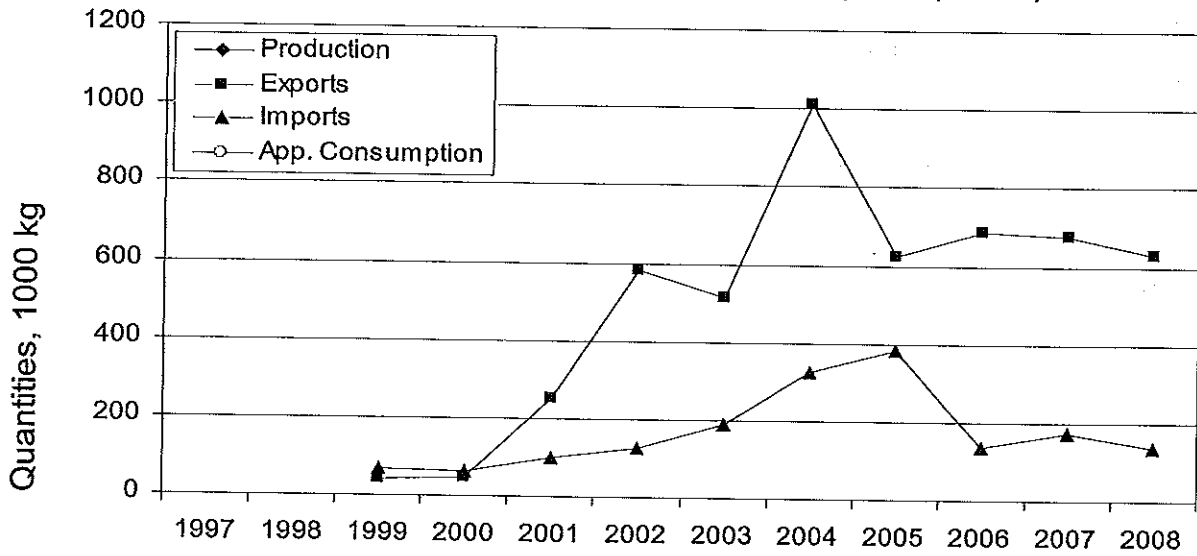
Hungary - Tools for pressing, stamping, punching and forming (820730)



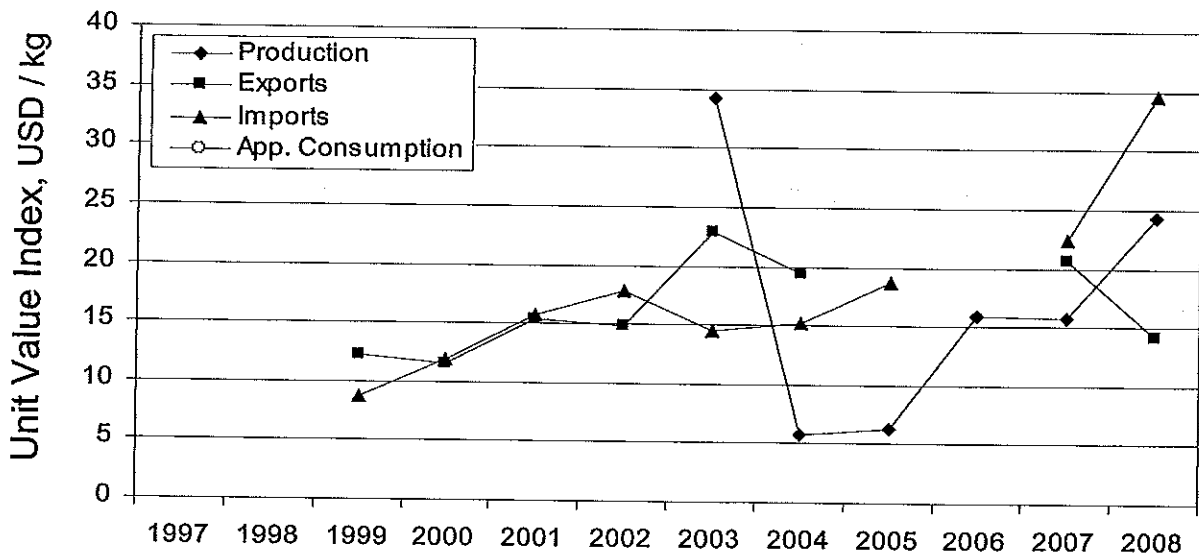
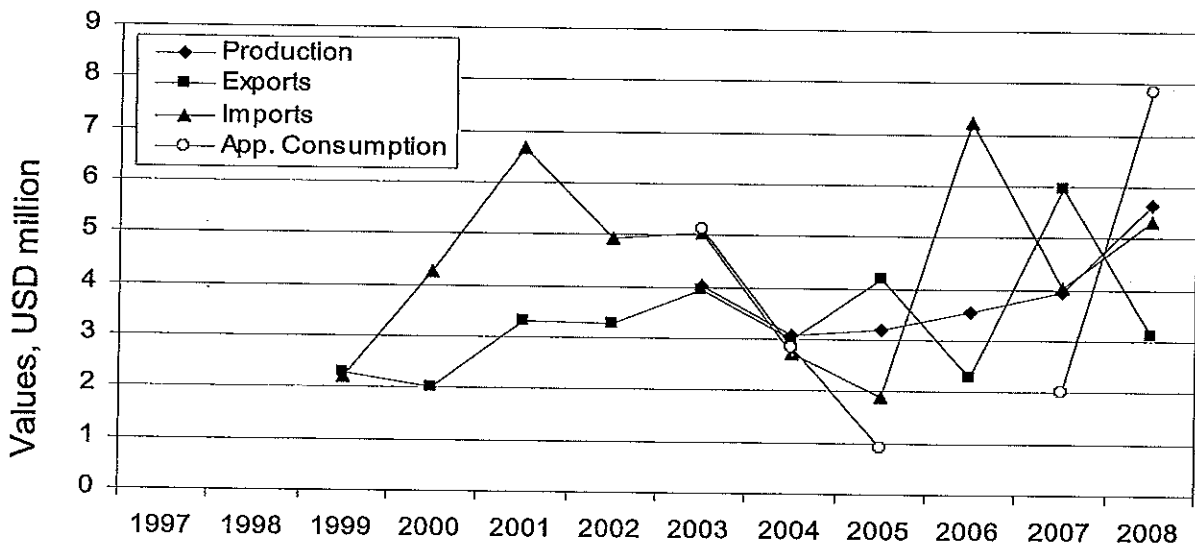
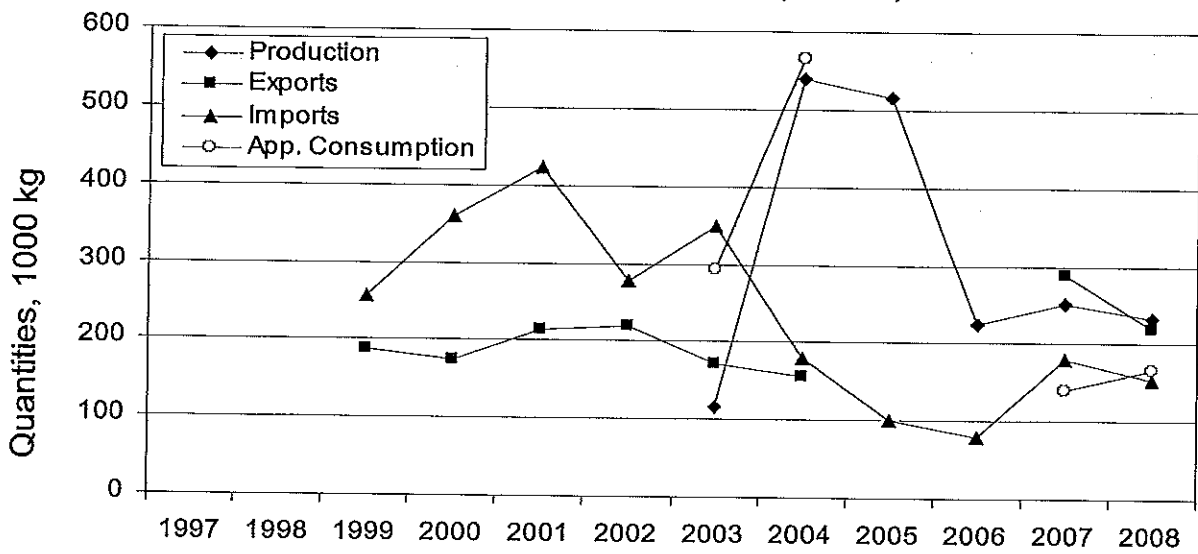
Hungary - Injection and compression moulds for plastics (849071+848079)



Hungary - Mould tools for metal or metal carbides excluding injection (848049)

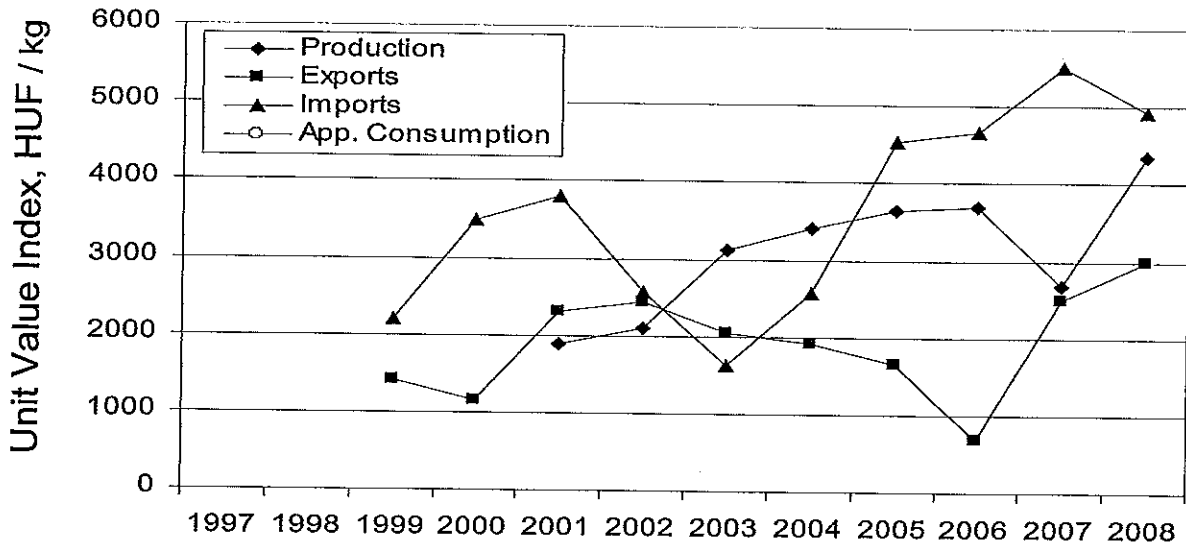
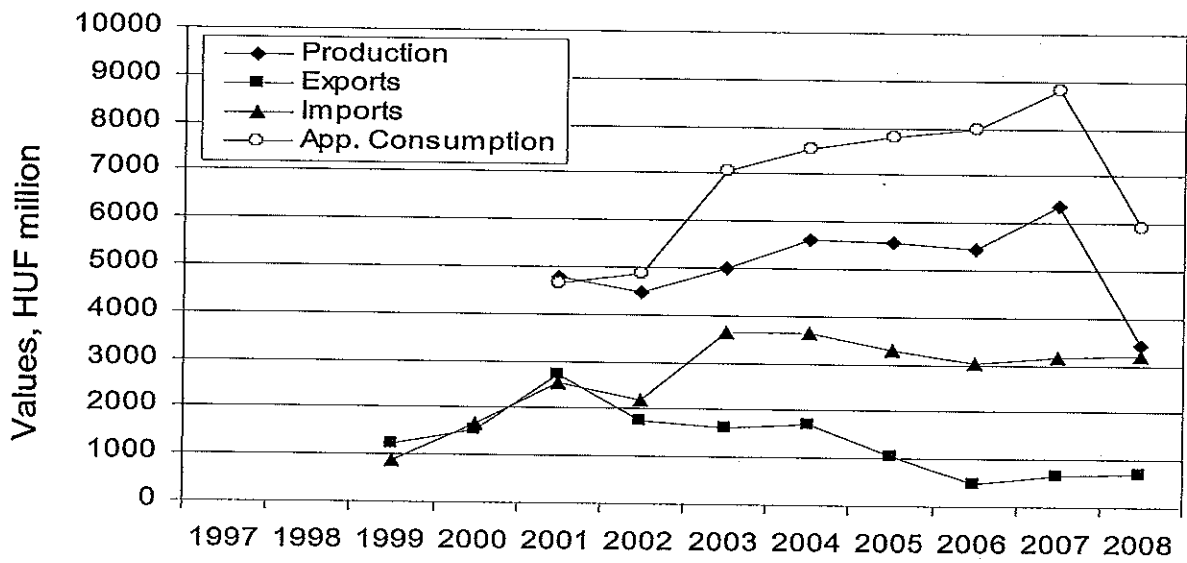
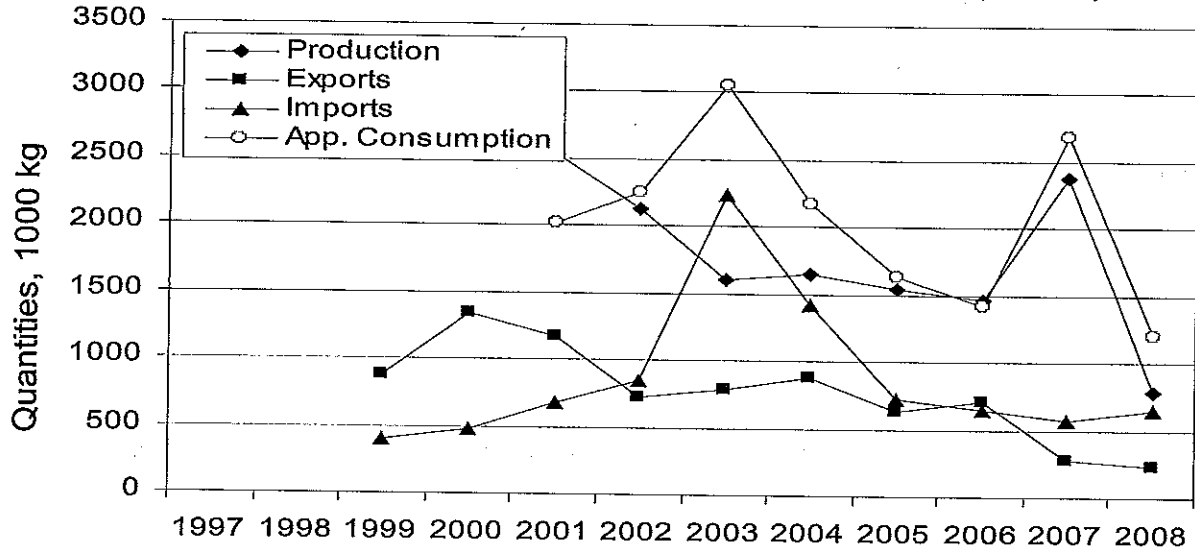


Hungary - Mould tools for metal or metal carbides (848041)

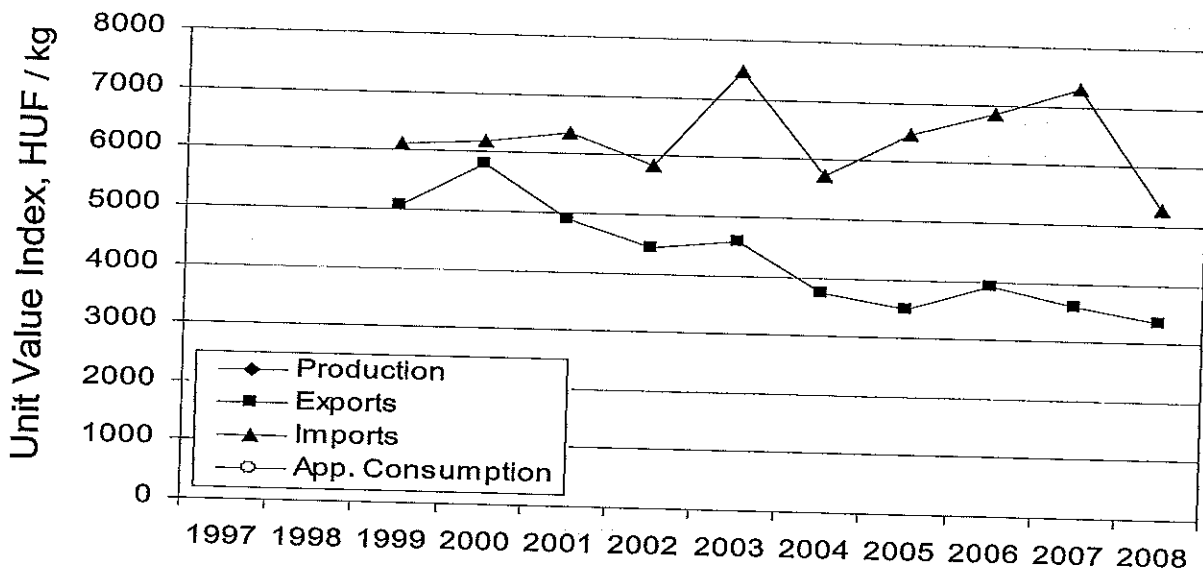
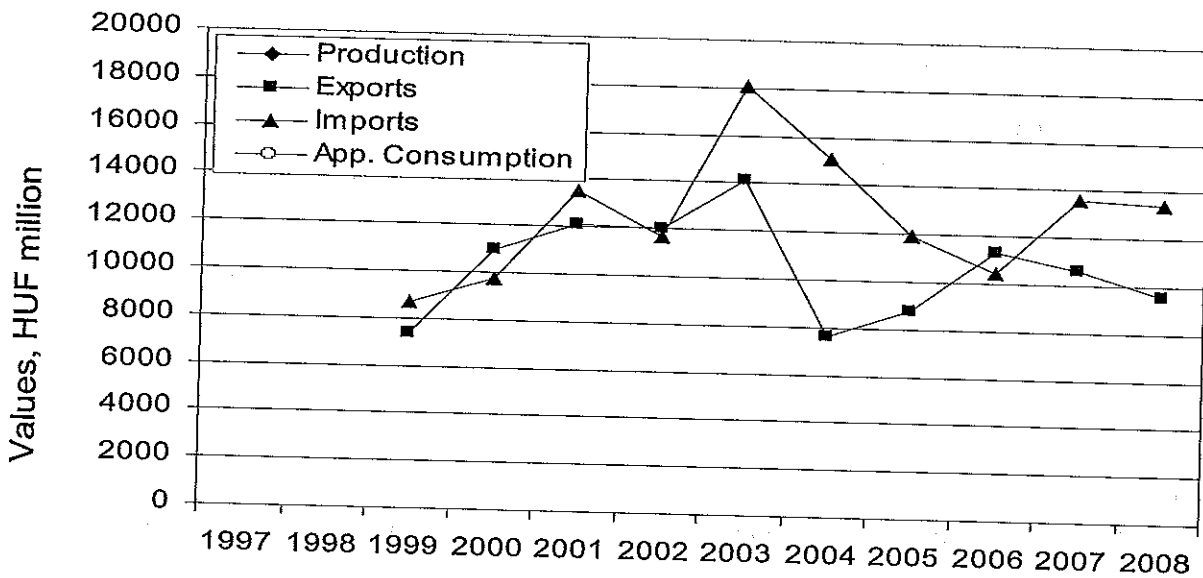
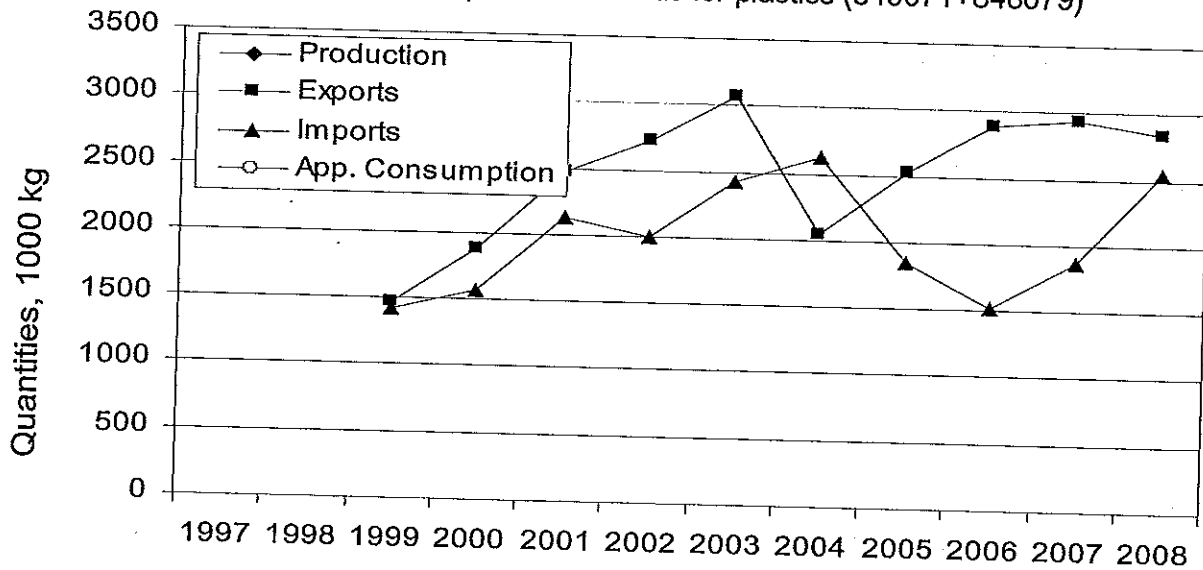


### 4.17. Hungary (Forint)

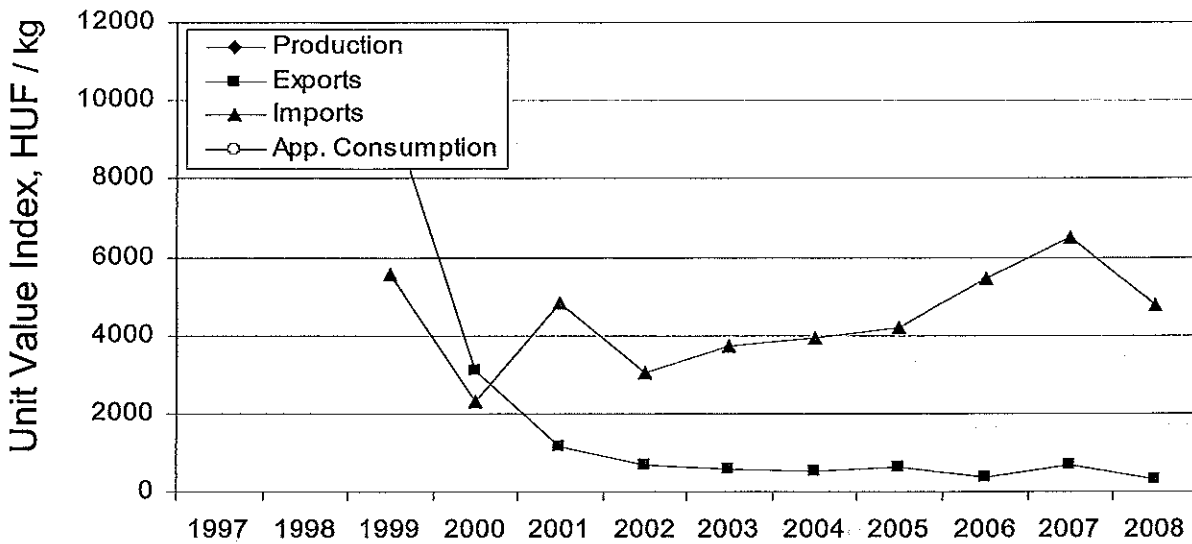
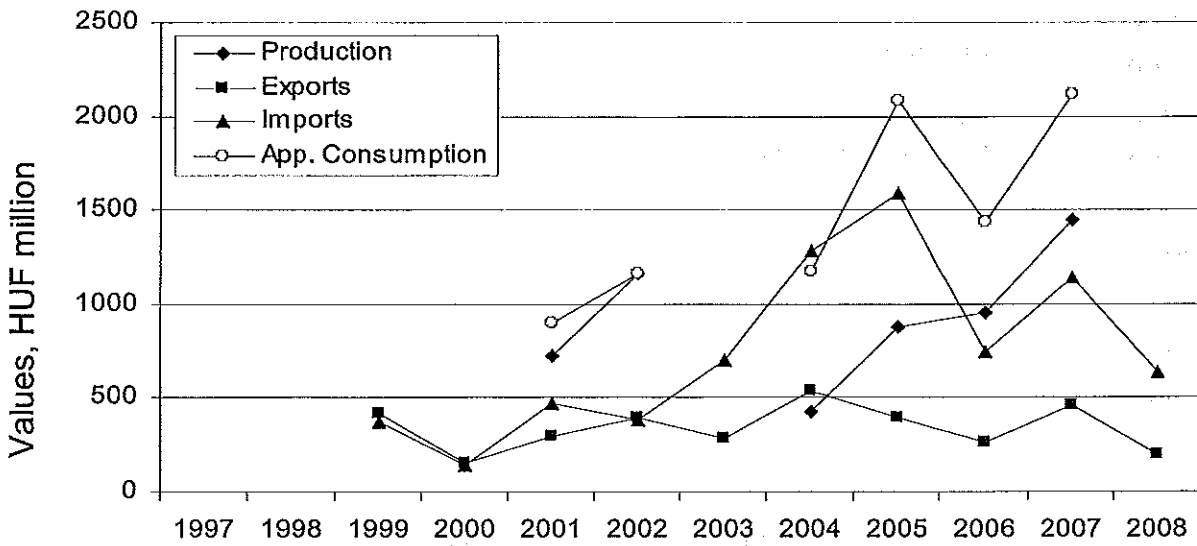
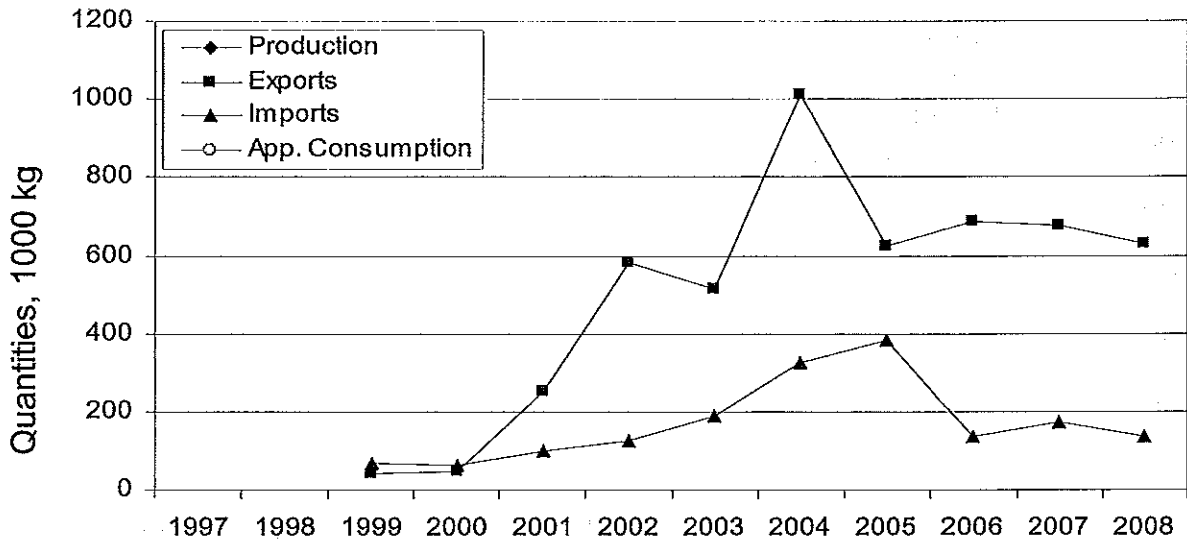
Hungary - Tools for pressing, stamping, punching and forming (820730)



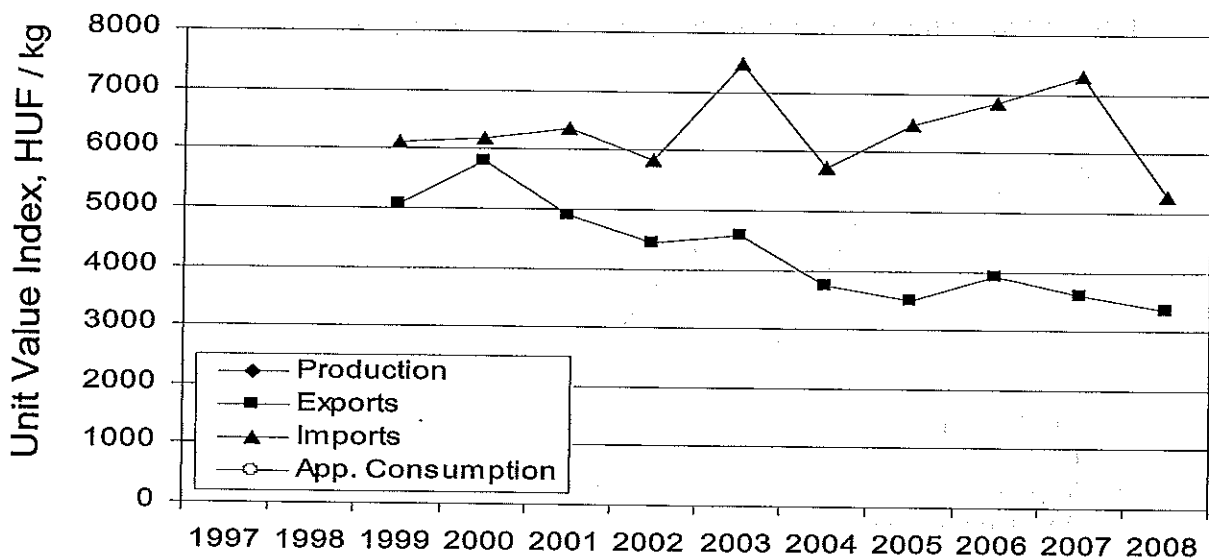
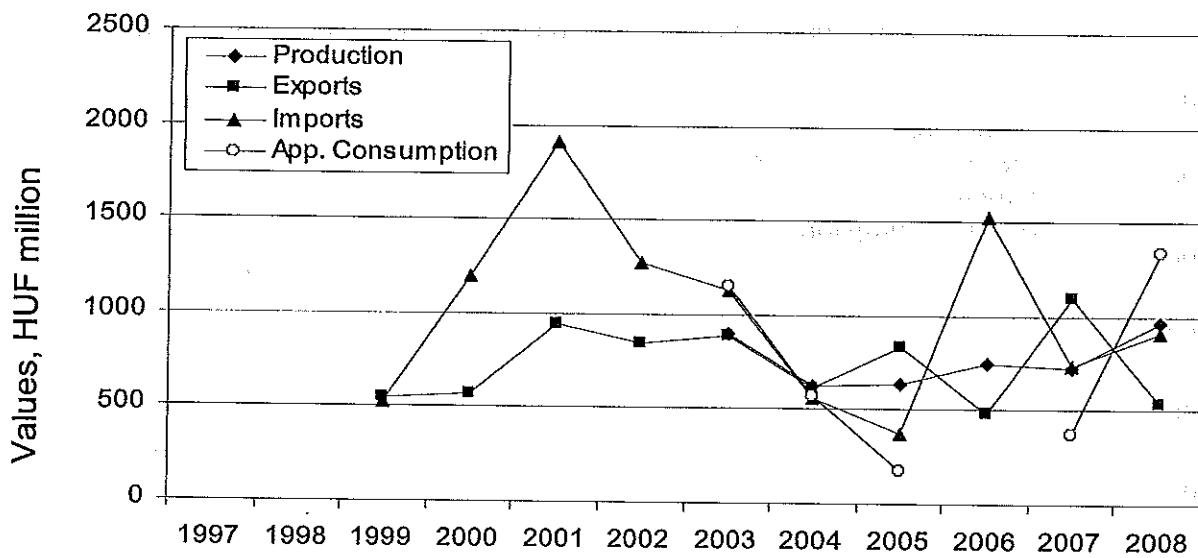
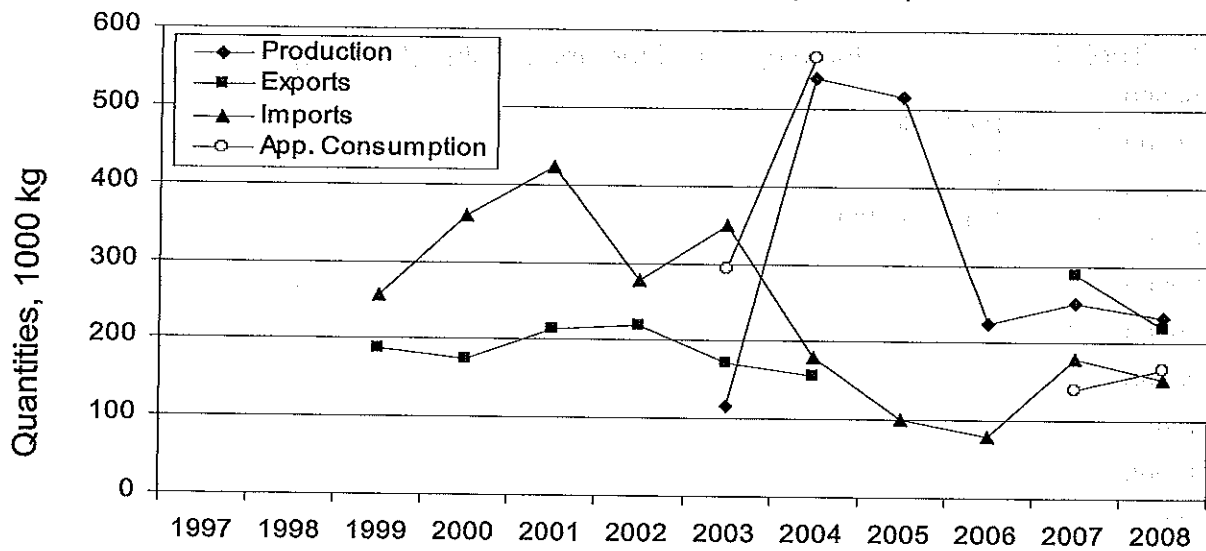
Hungary - Injection and compression moulds for plastics (849071+848079)



Hungary - Mould tools for metal or metal carbides excluding injection (848049)

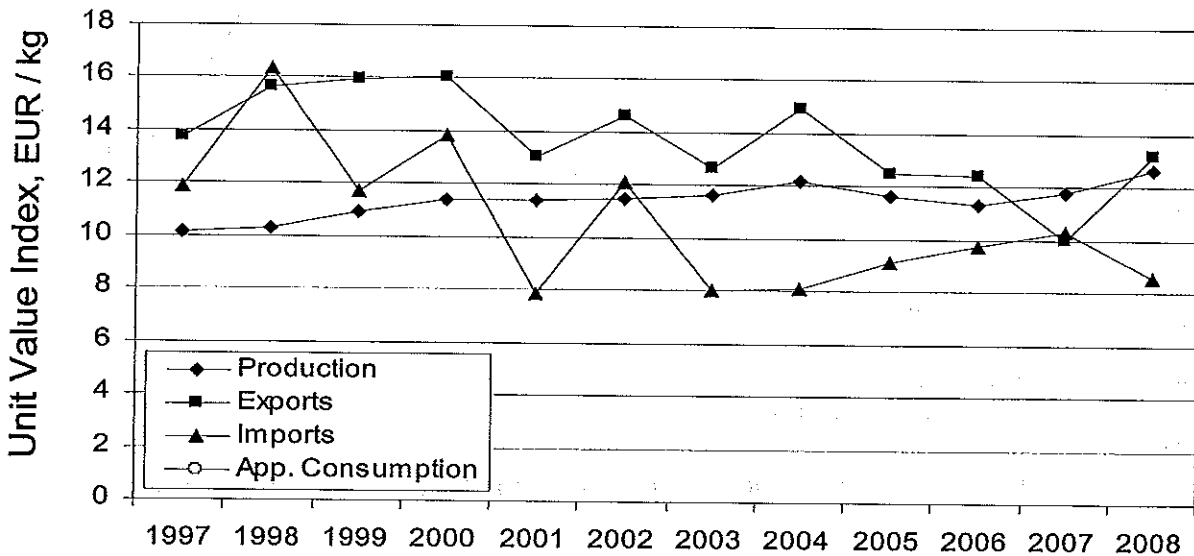
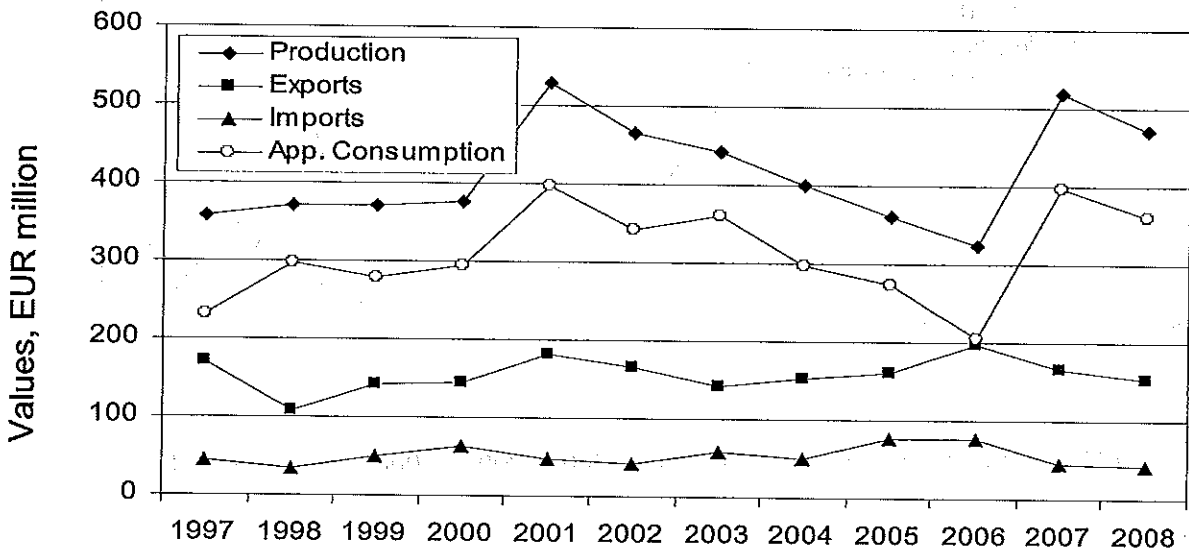
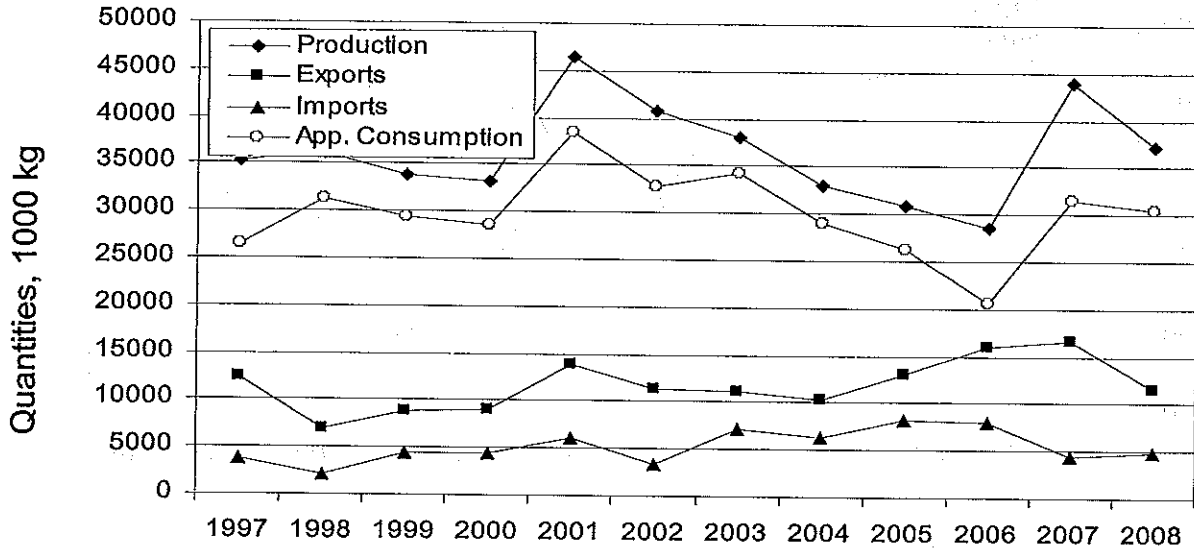


Hungary - Mould tools for metal or metal carbides (848041)

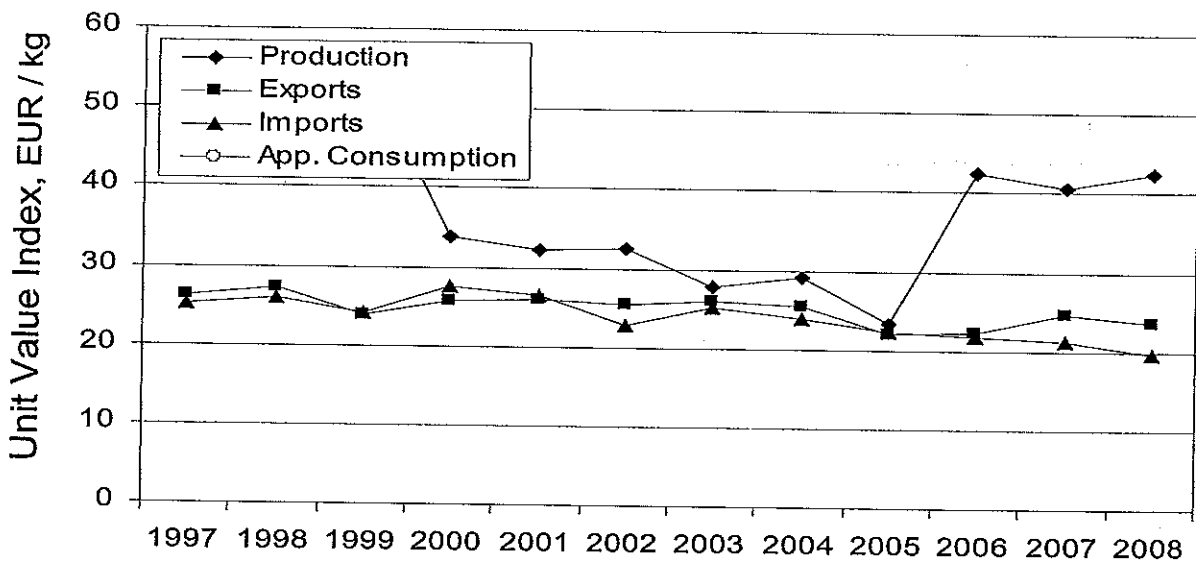
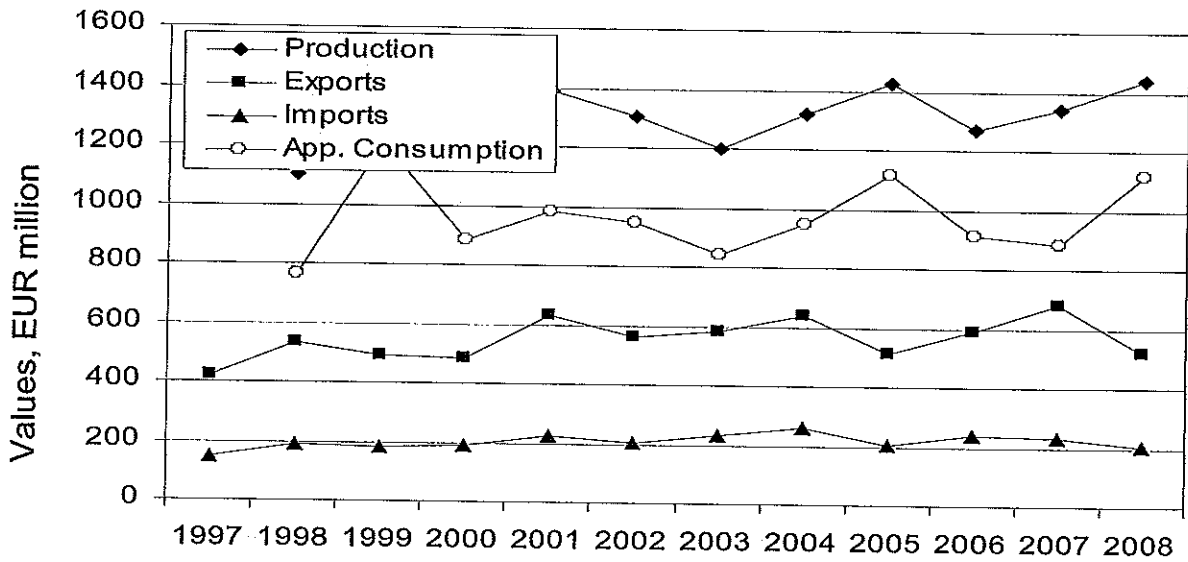
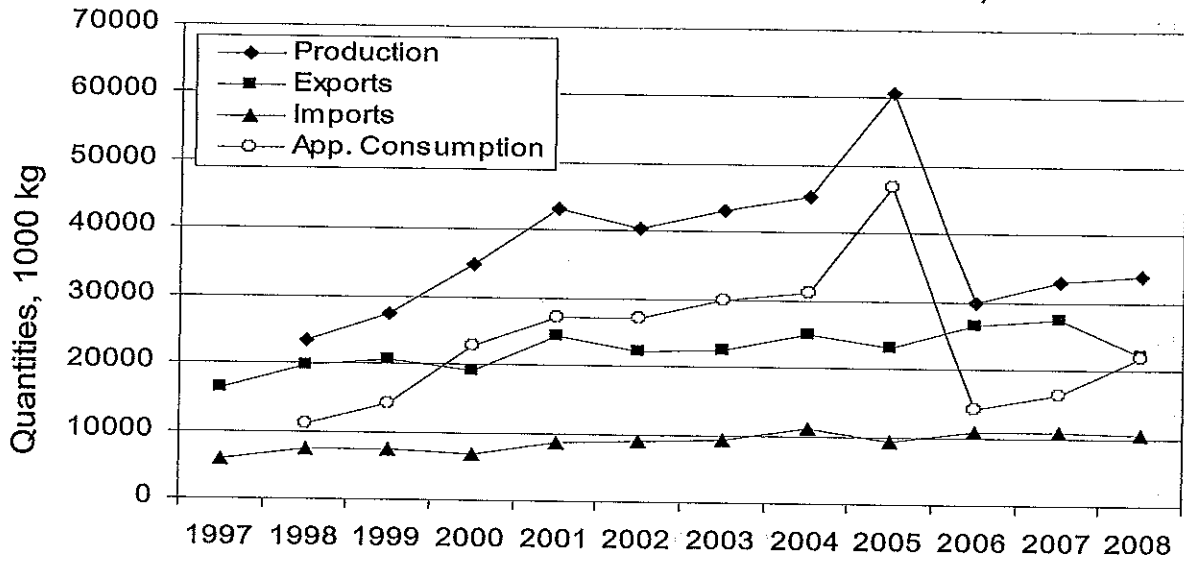


### 4.18. Italy (EUR)

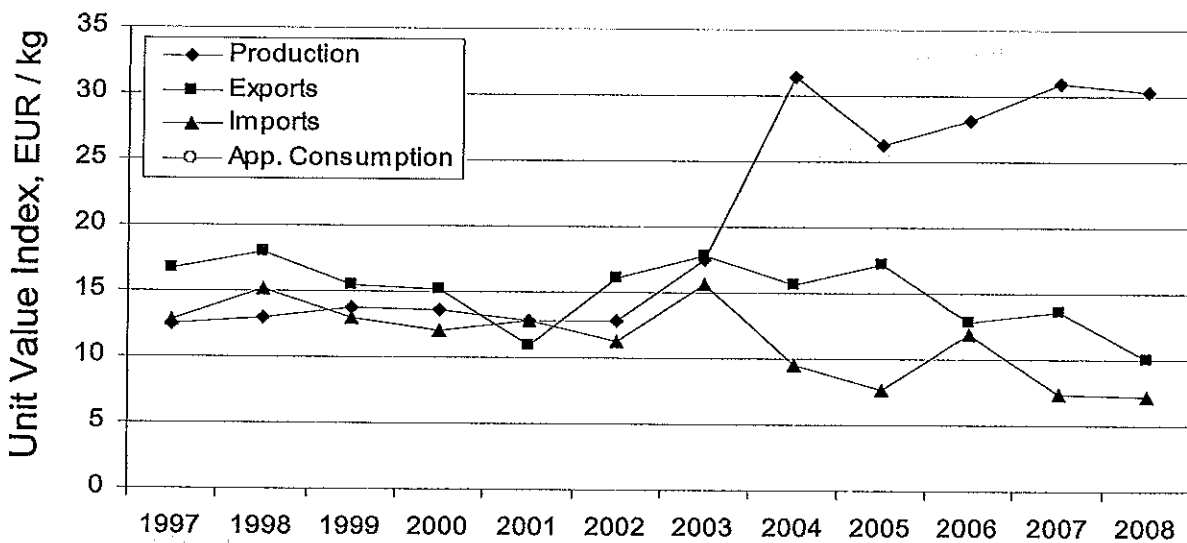
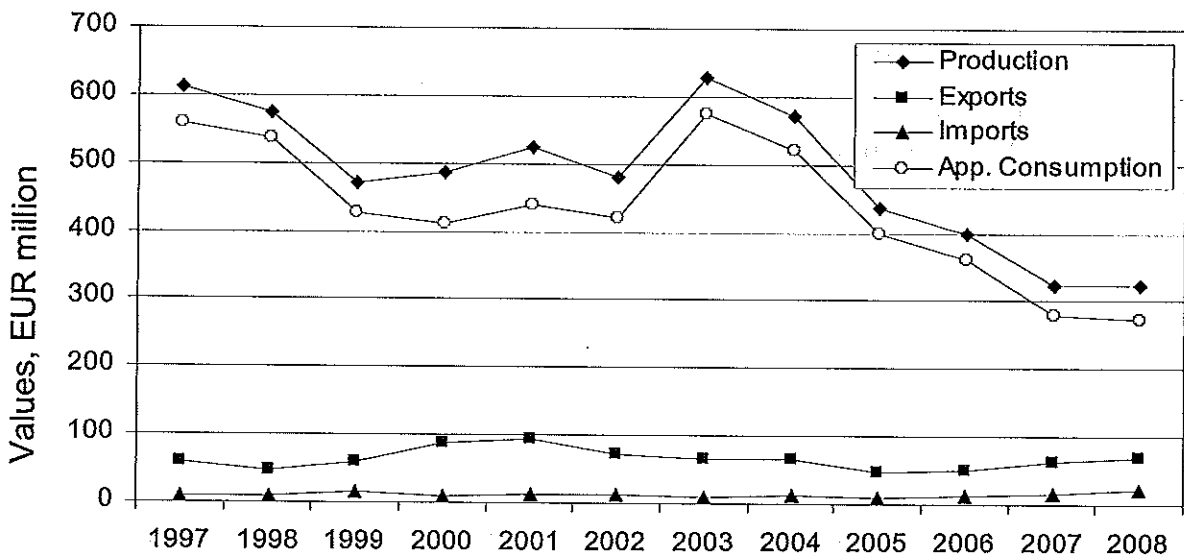
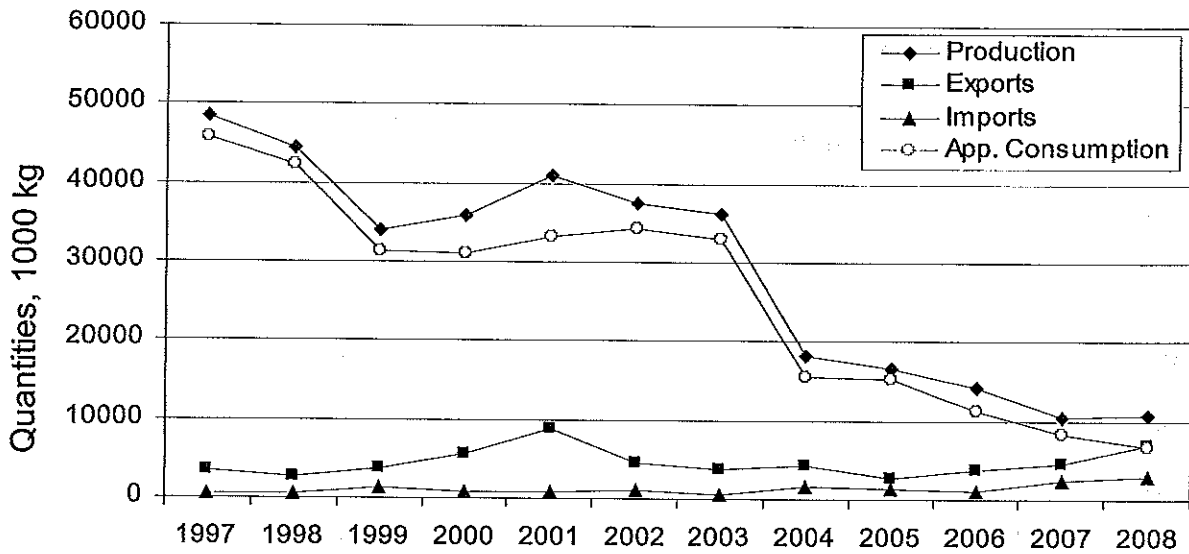
Italy - Tools for pressing, stamping, punching and forming (820730)



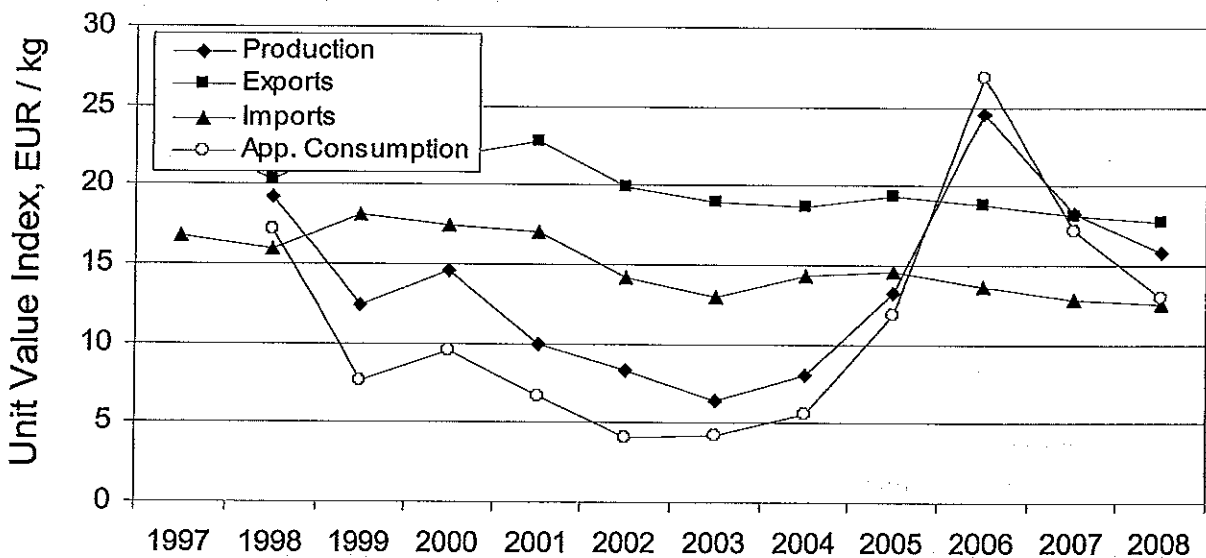
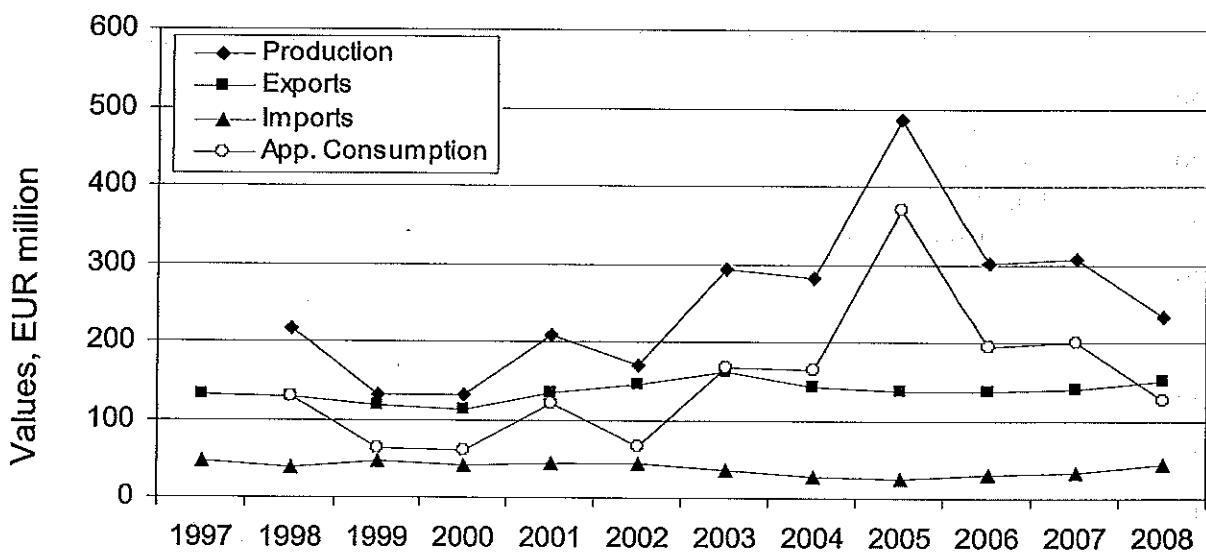
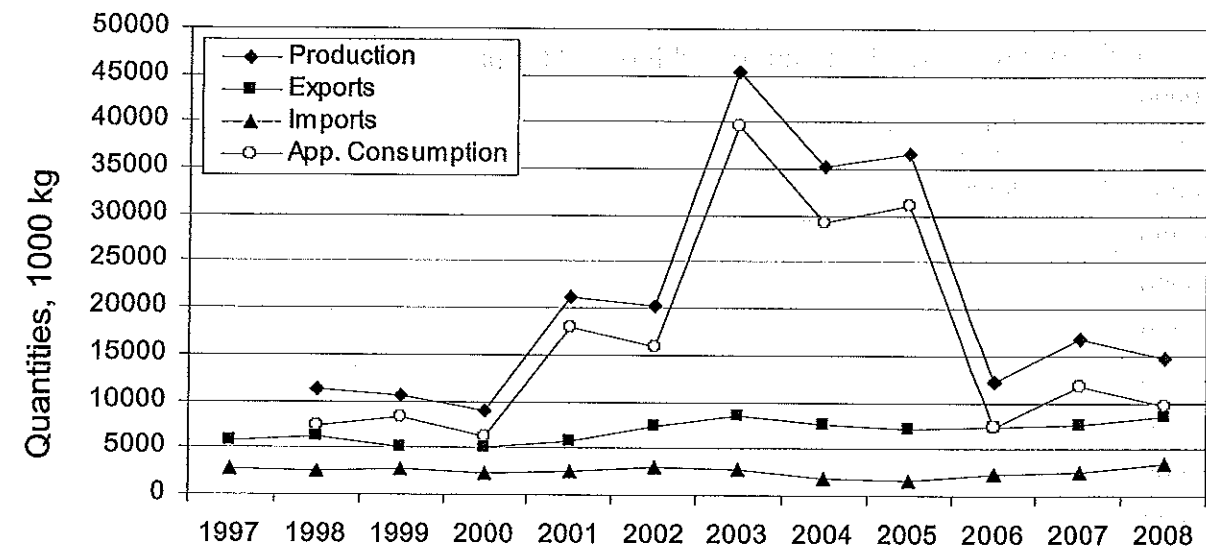
Italy - Injection and compression moulds for plastics (849071+848079)



Italy - Mould tools for metal or metal carbides excluding injection (848049)

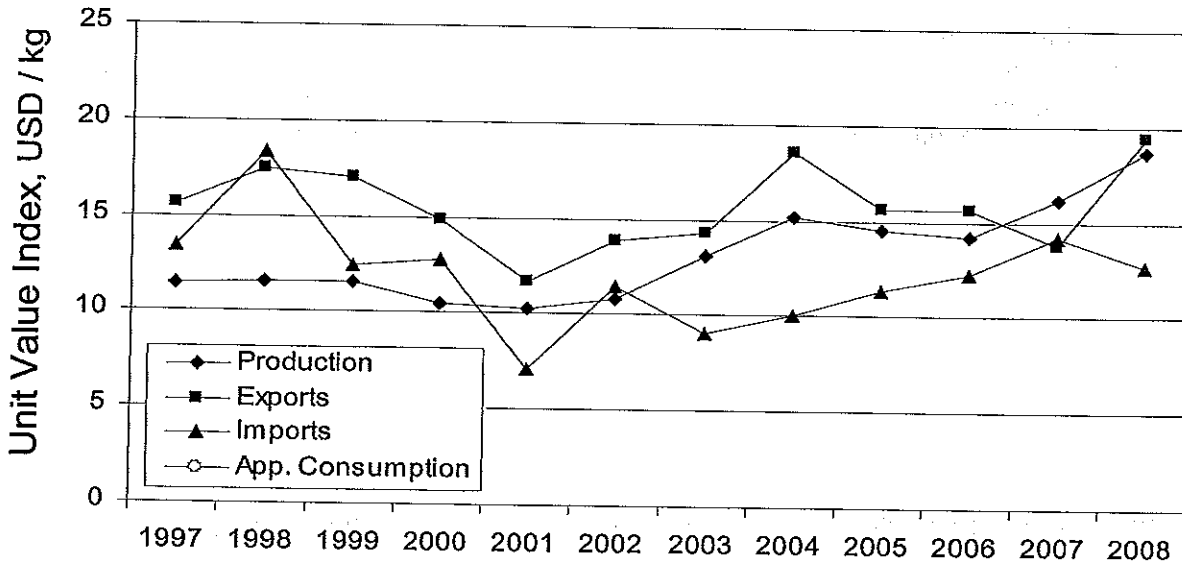
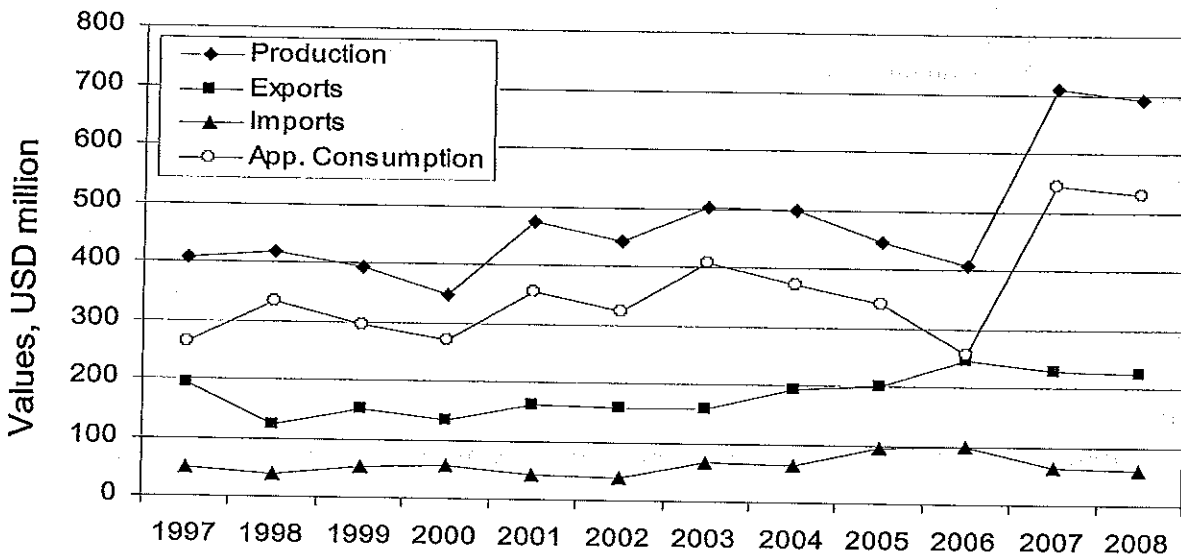
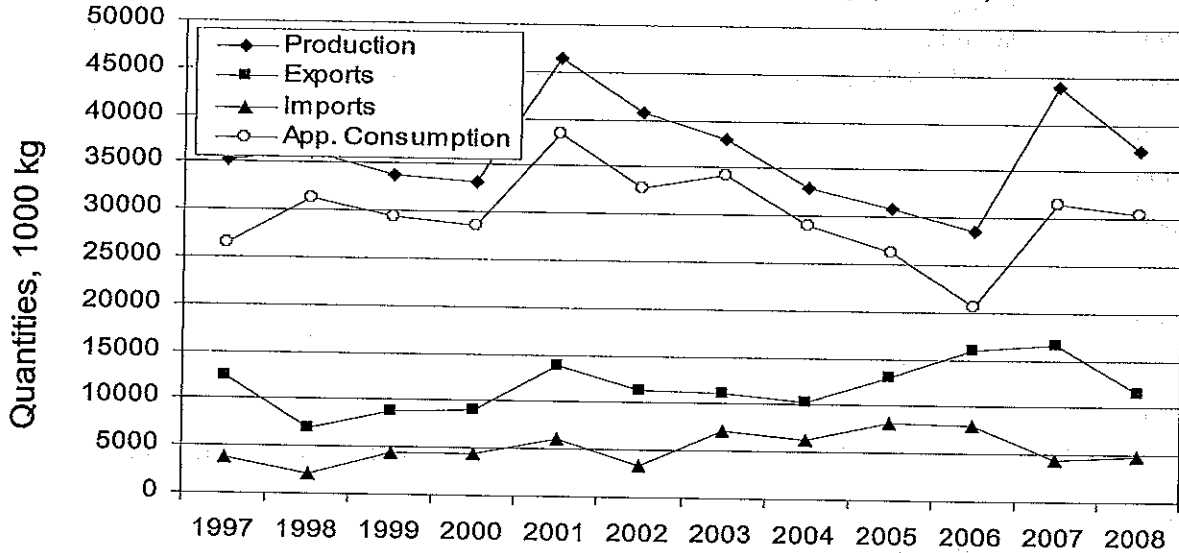


Italy - Mould tools for metal or metal carbides (848041)

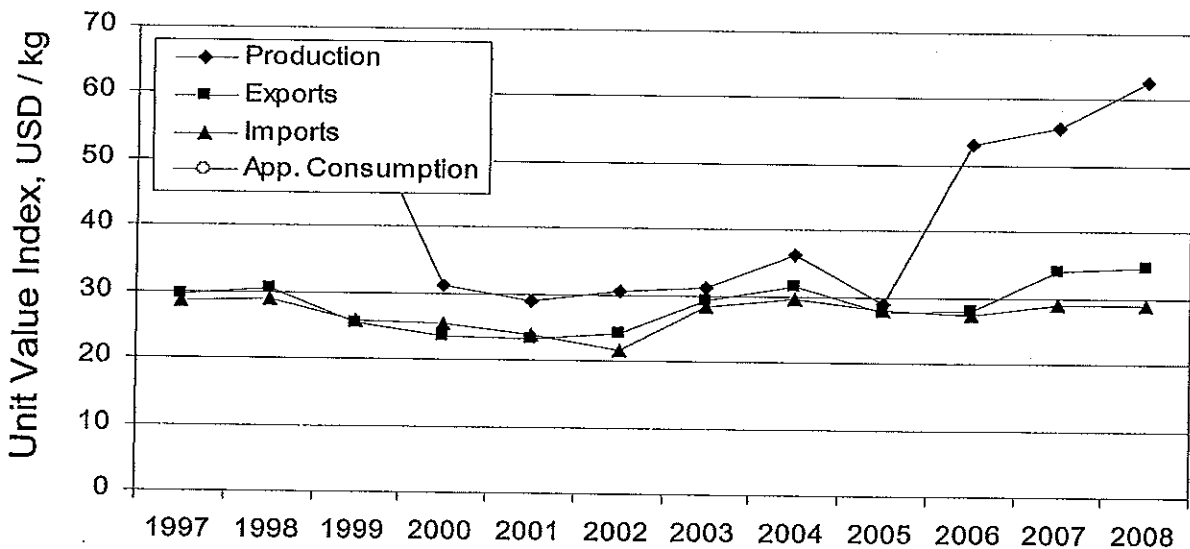
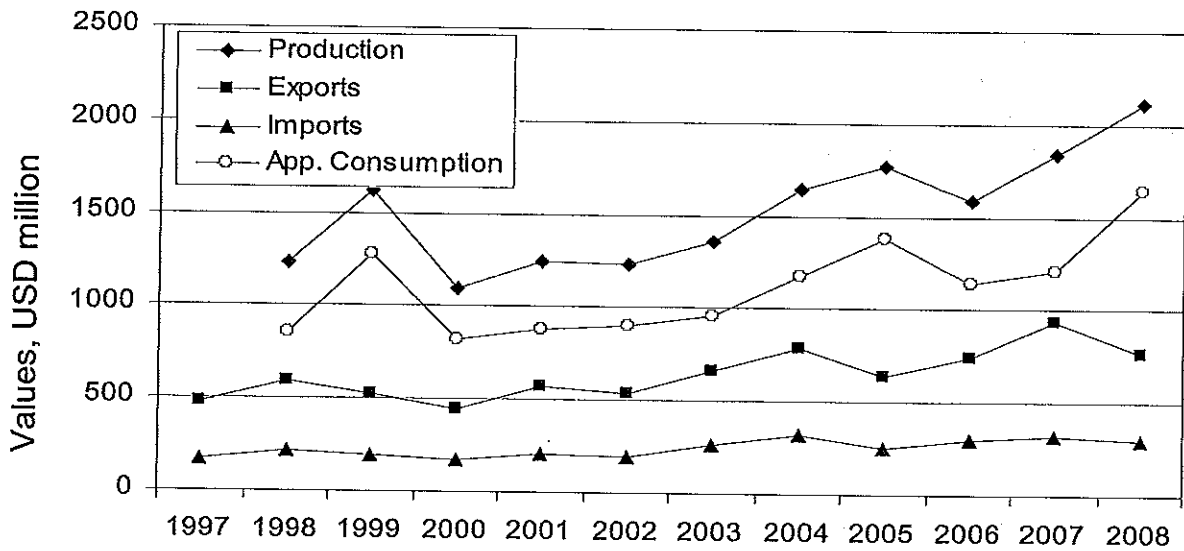
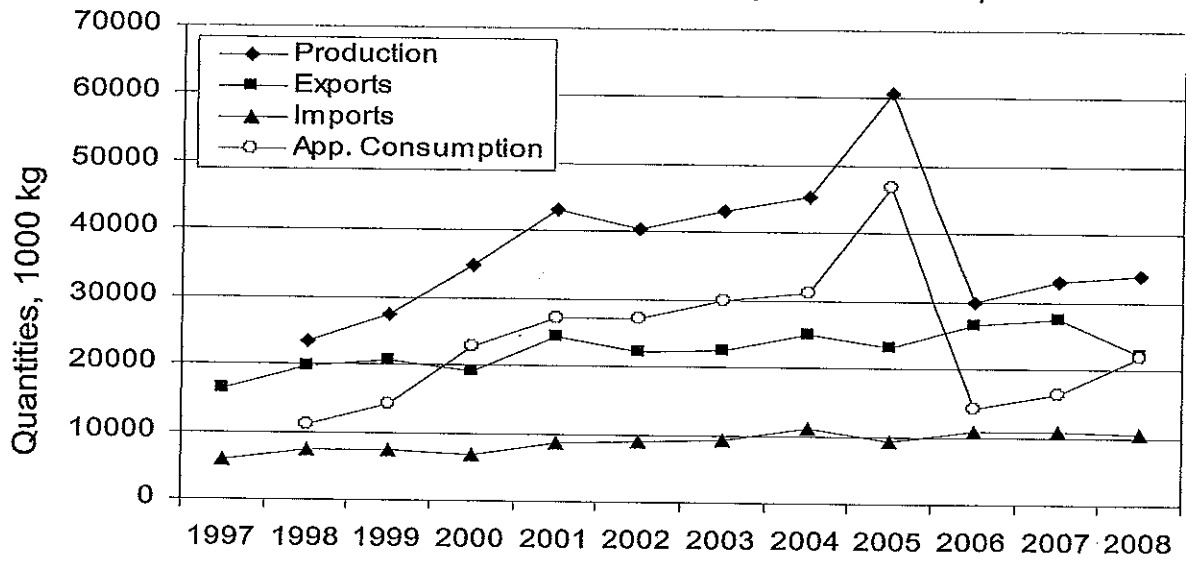


### 4.19. Italy (USD)

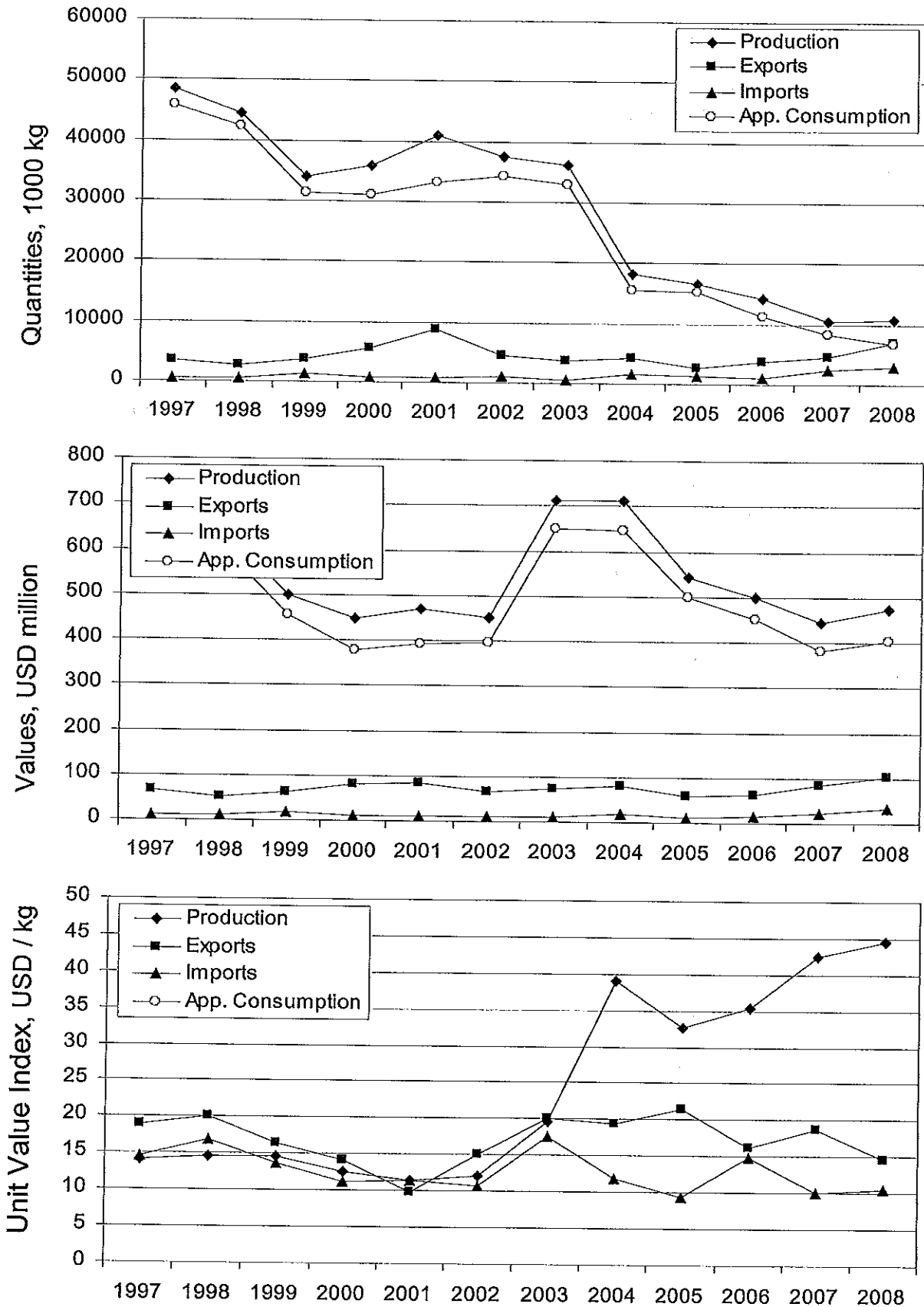
Italy - Tools for pressing, stamping, punching and forming (820730)



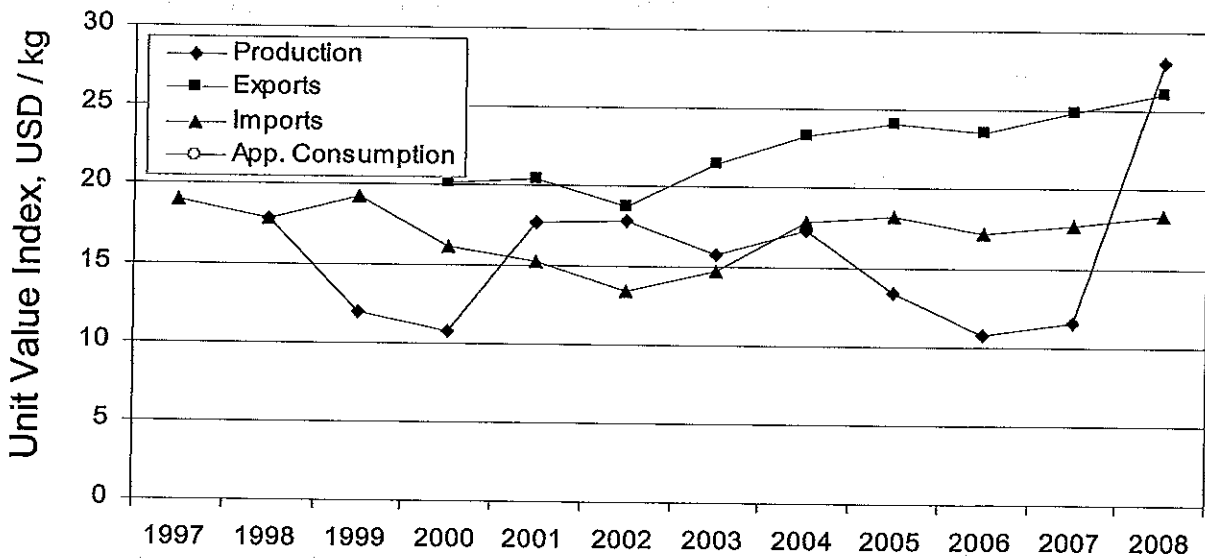
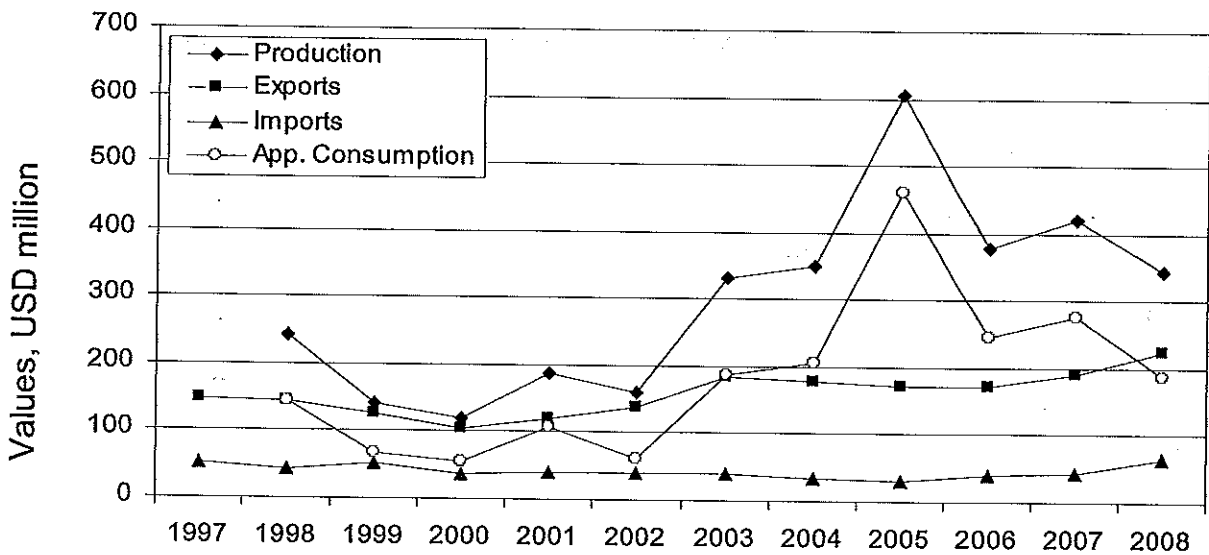
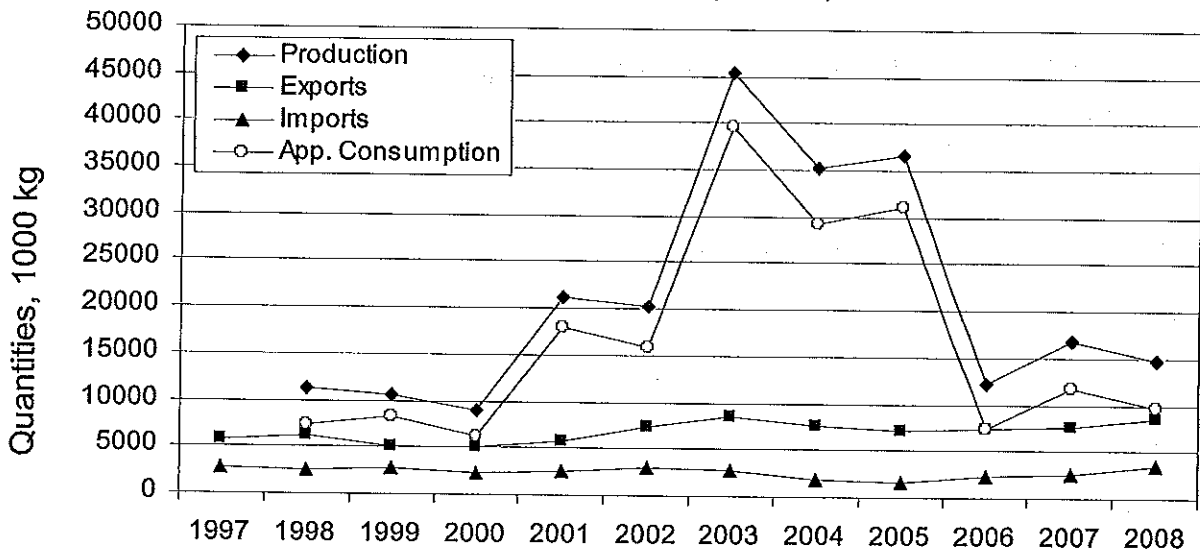
Italy - Injection and compression moulds for plastics (849071+848079)



Italy - Mould tools for metal or metal carbides excluding injection (848049)

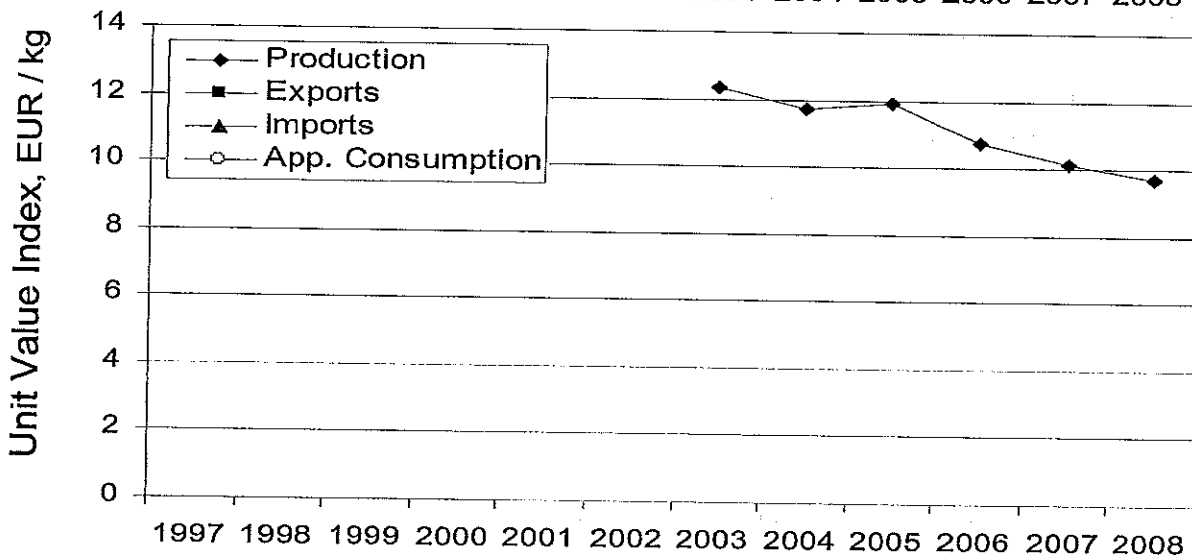
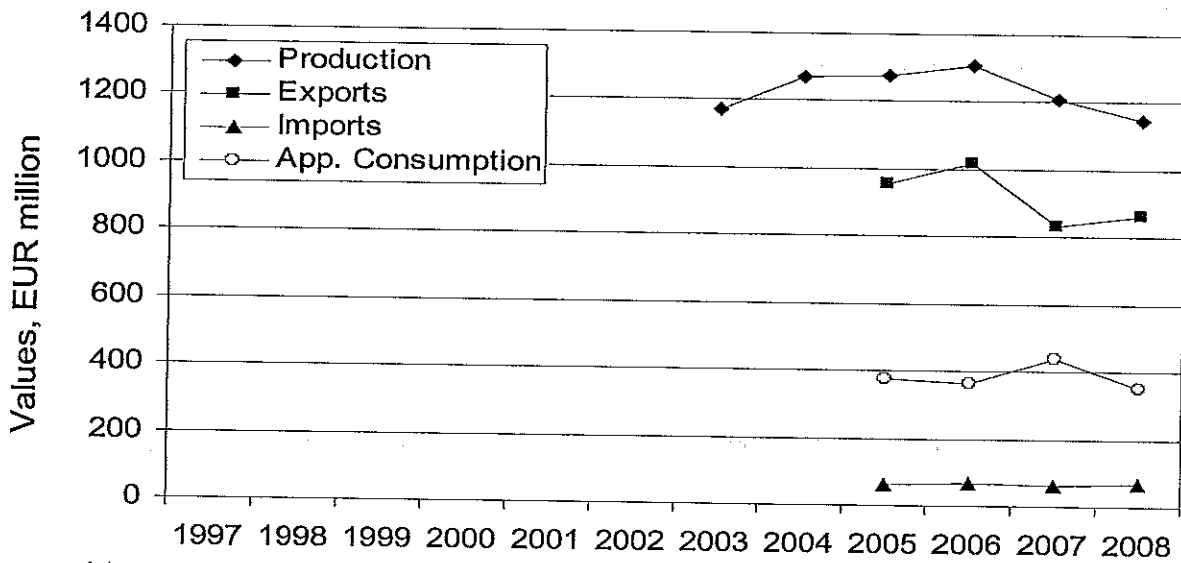
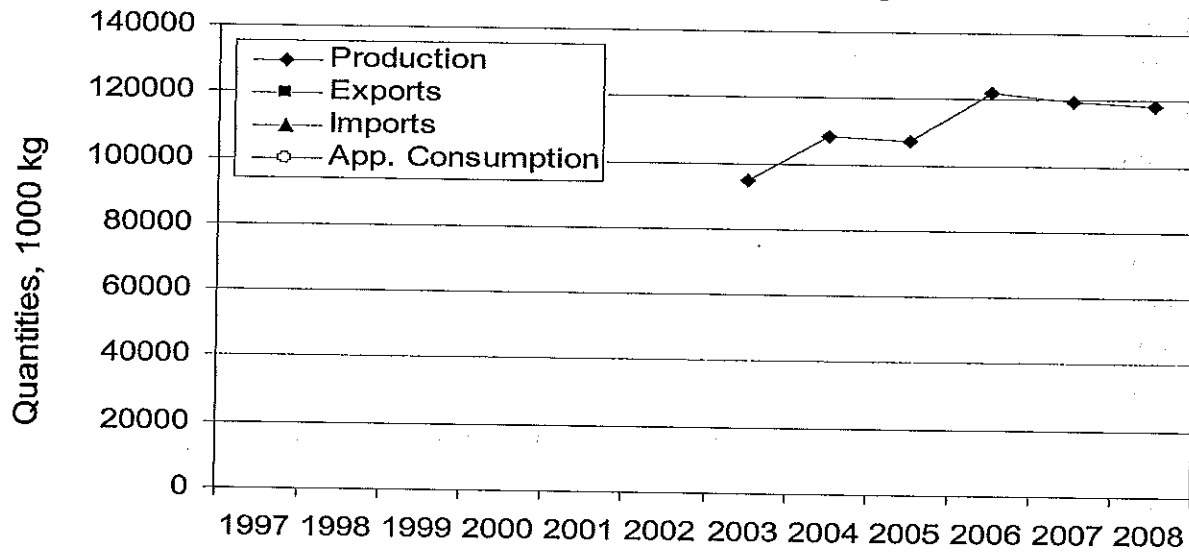


Italy - Mould tools for metal or metal carbides (848041)

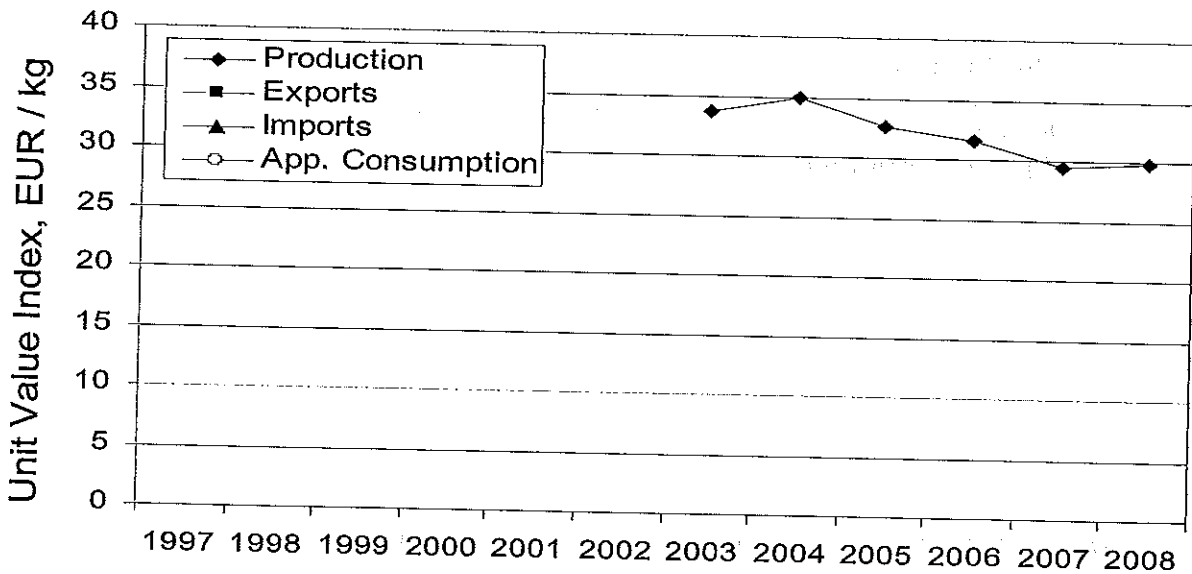
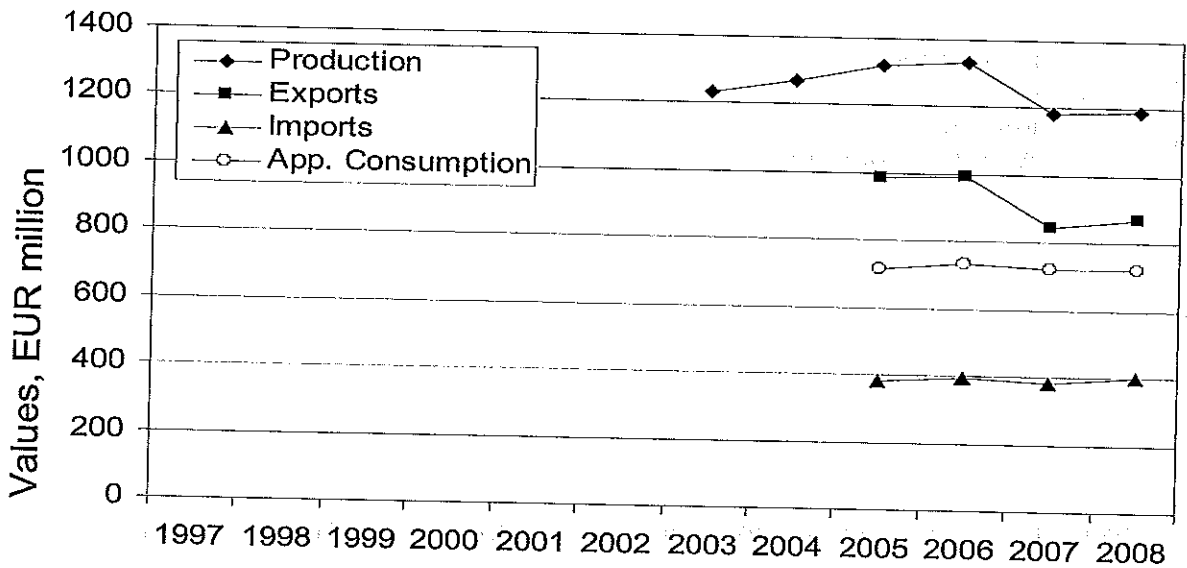
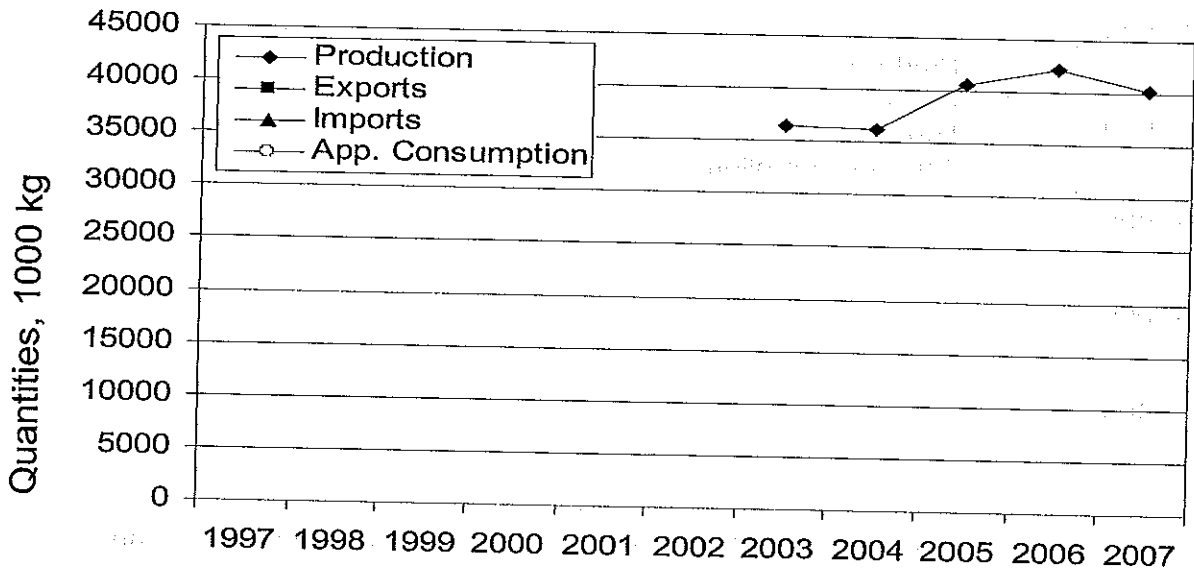


### 4.20. Japan (EUR) Japanese Standards (METI)

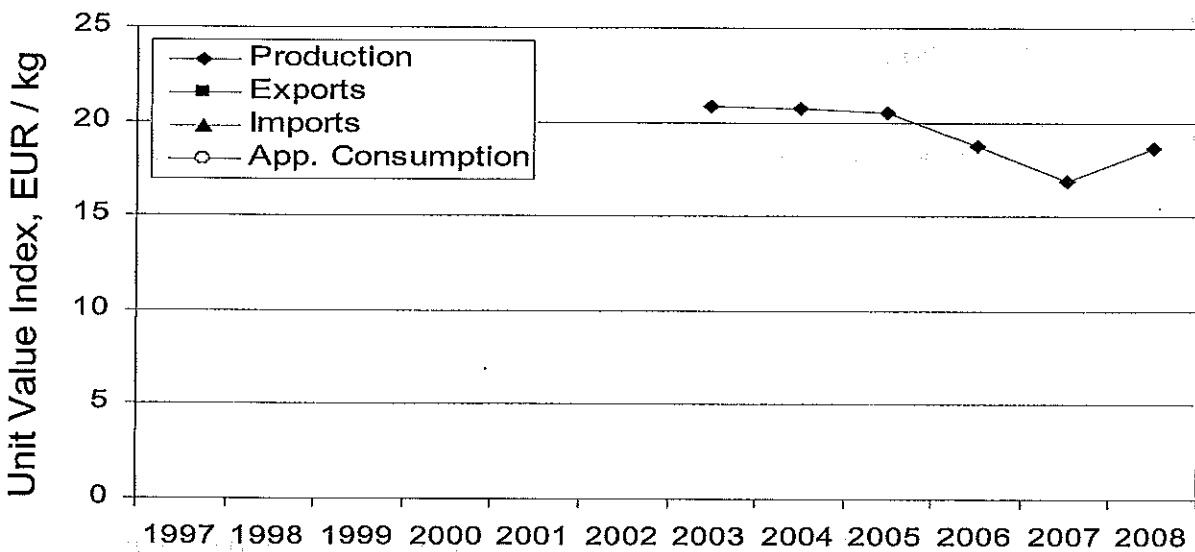
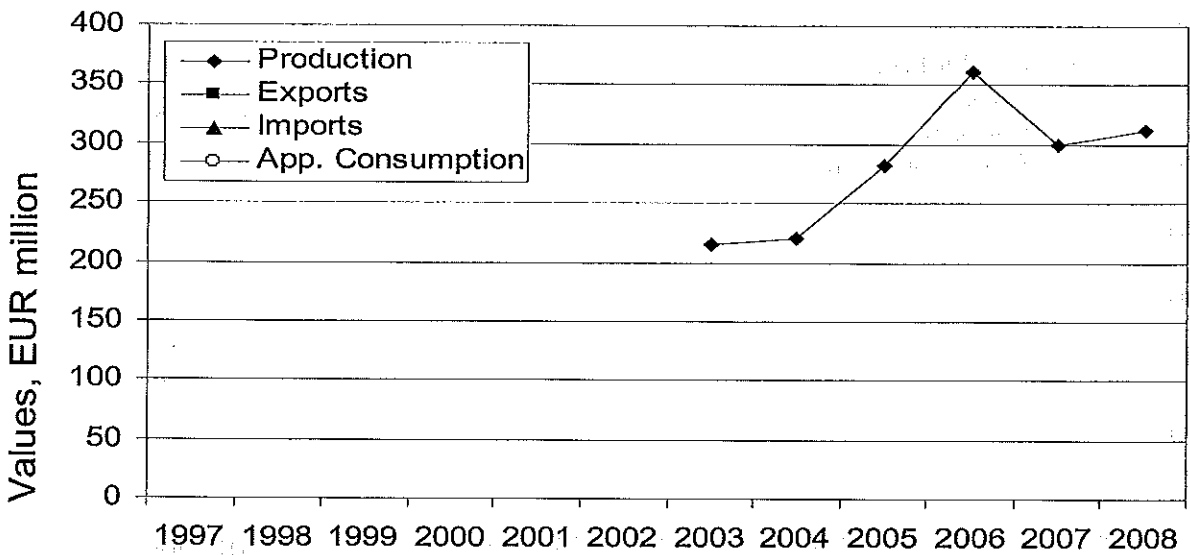
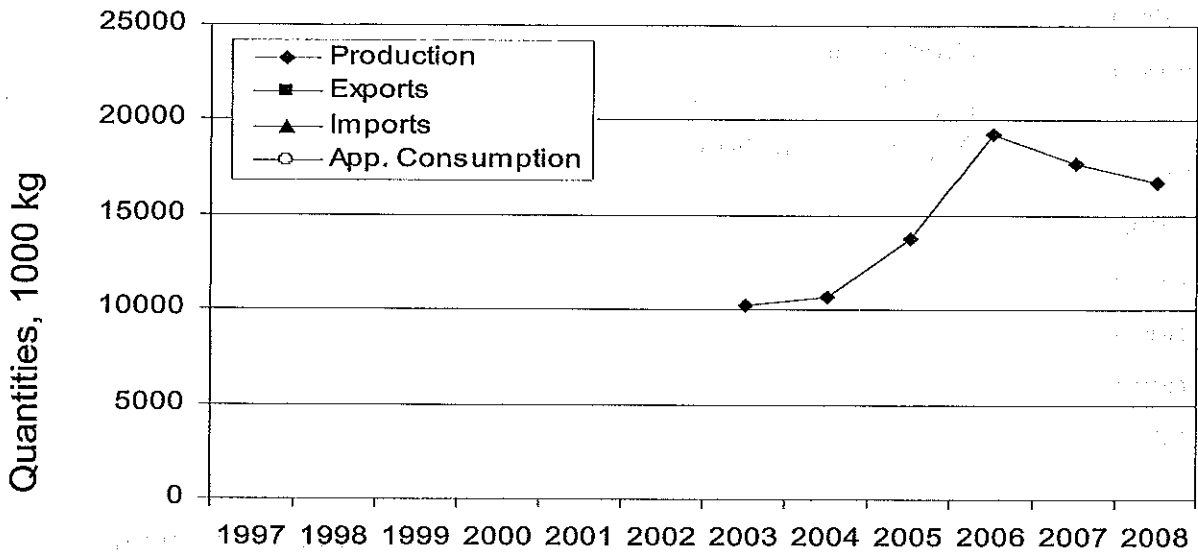
Japan - Tools for pressing, stamping, punching and forming



Japan - Injection and compression moulds for plastics and rubber

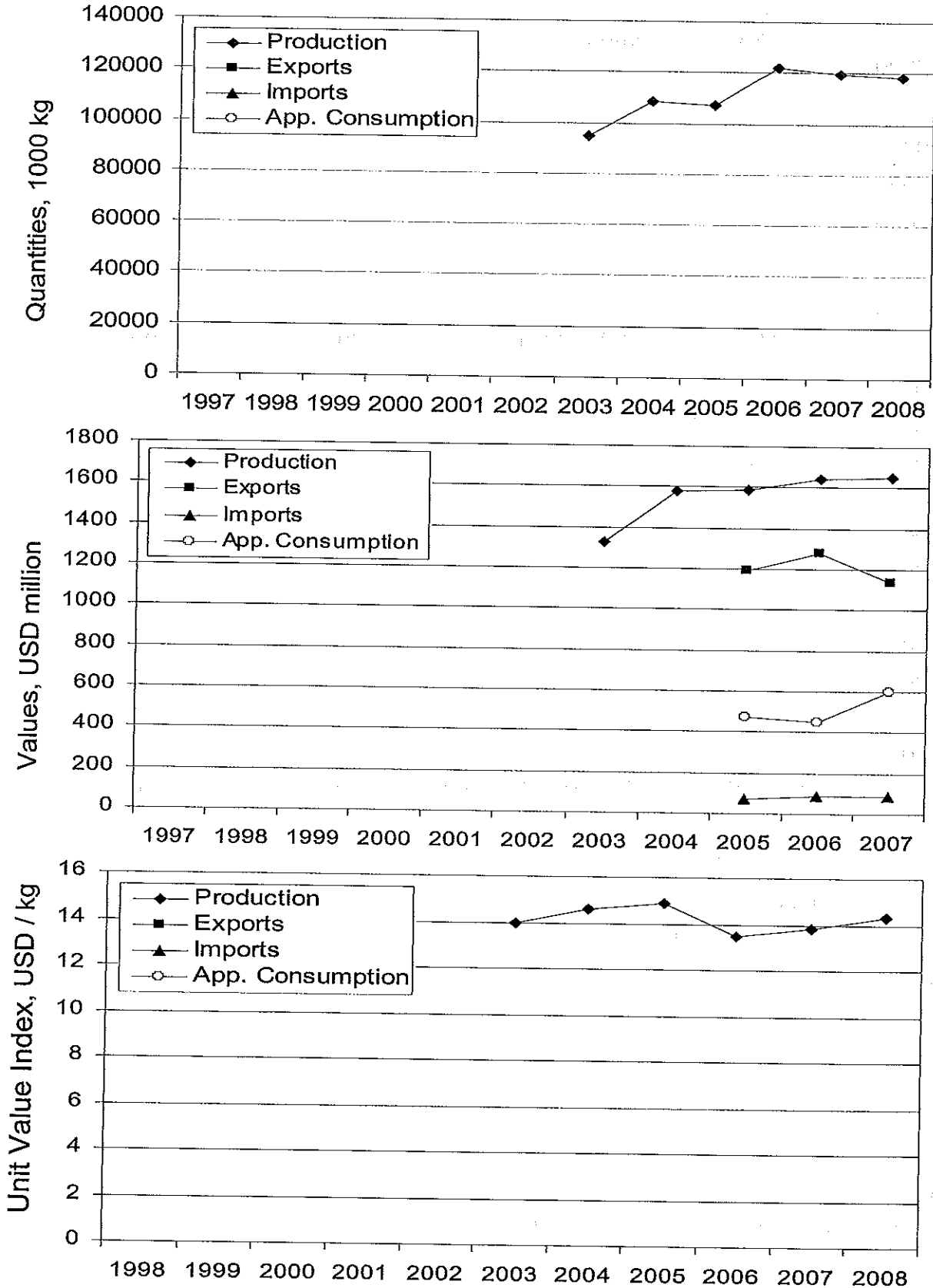


Japan- Die casting dies

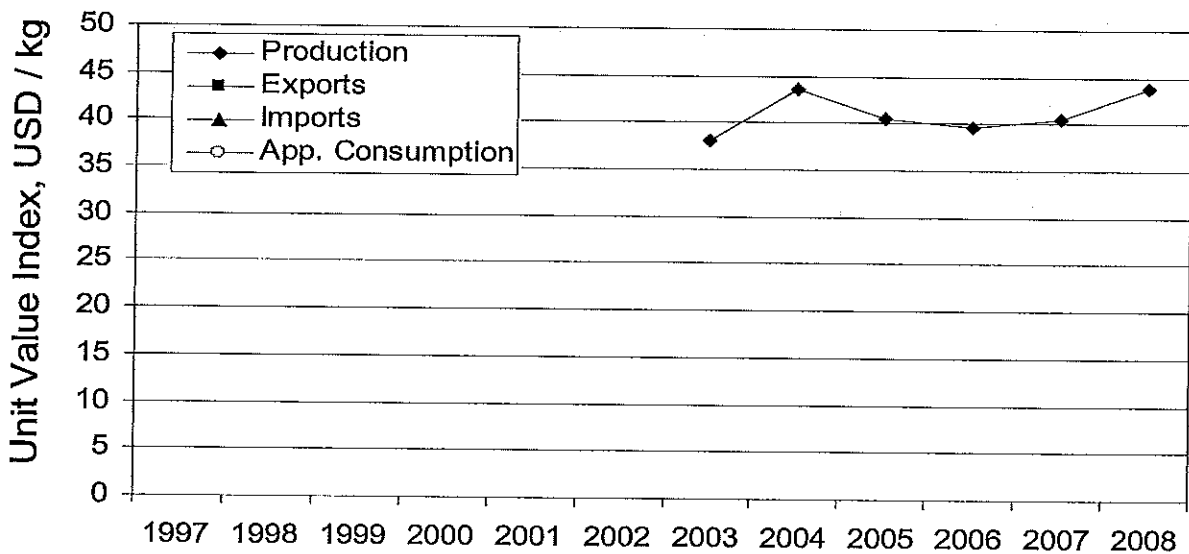
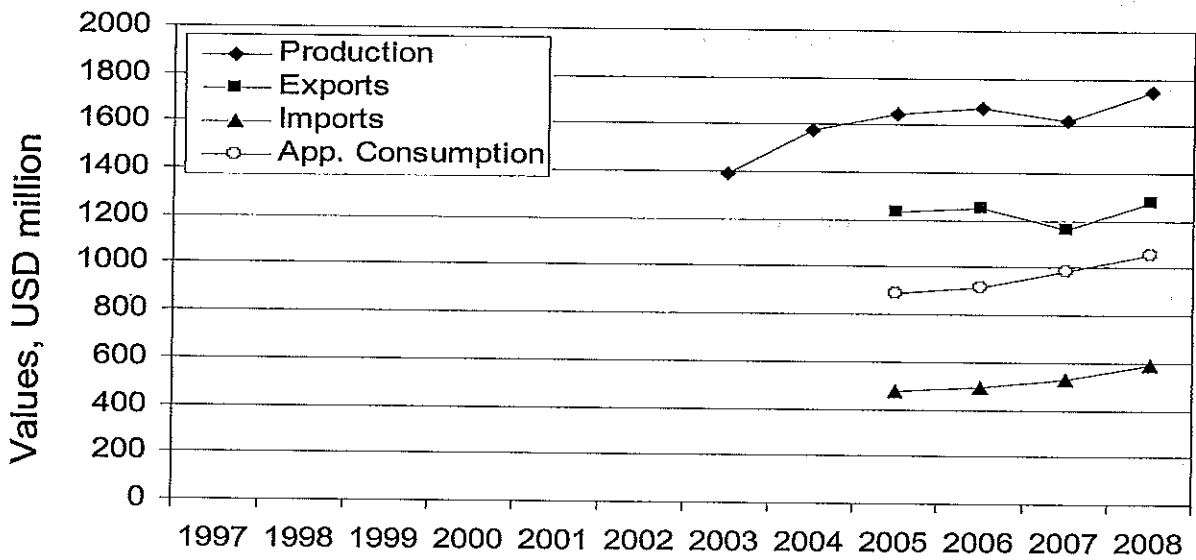
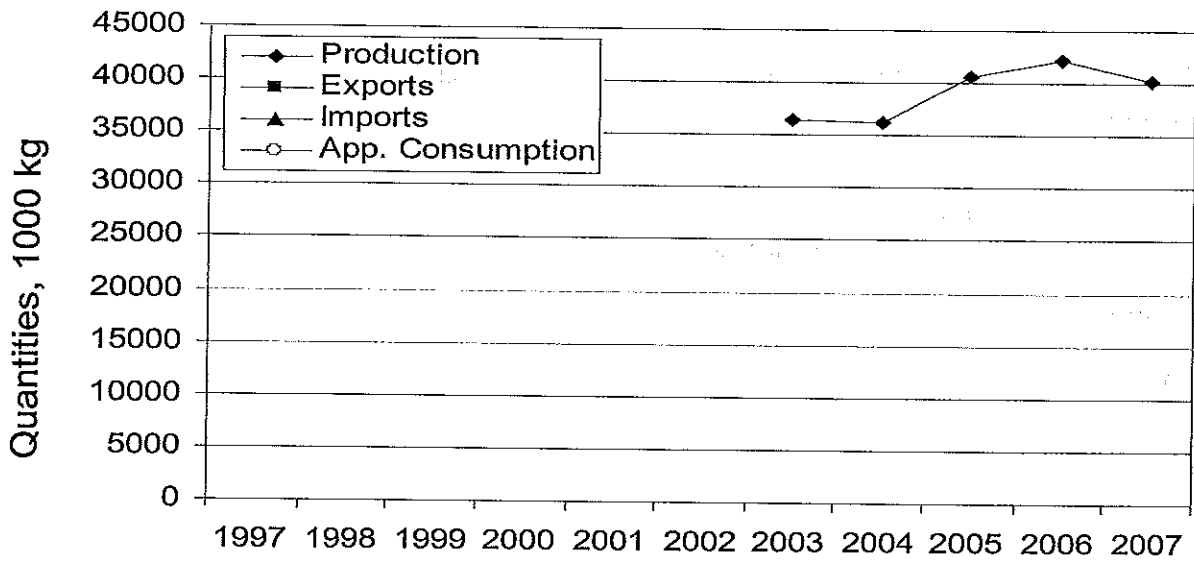


### 4.21. Japan (USD) Japanese Standards (METI)

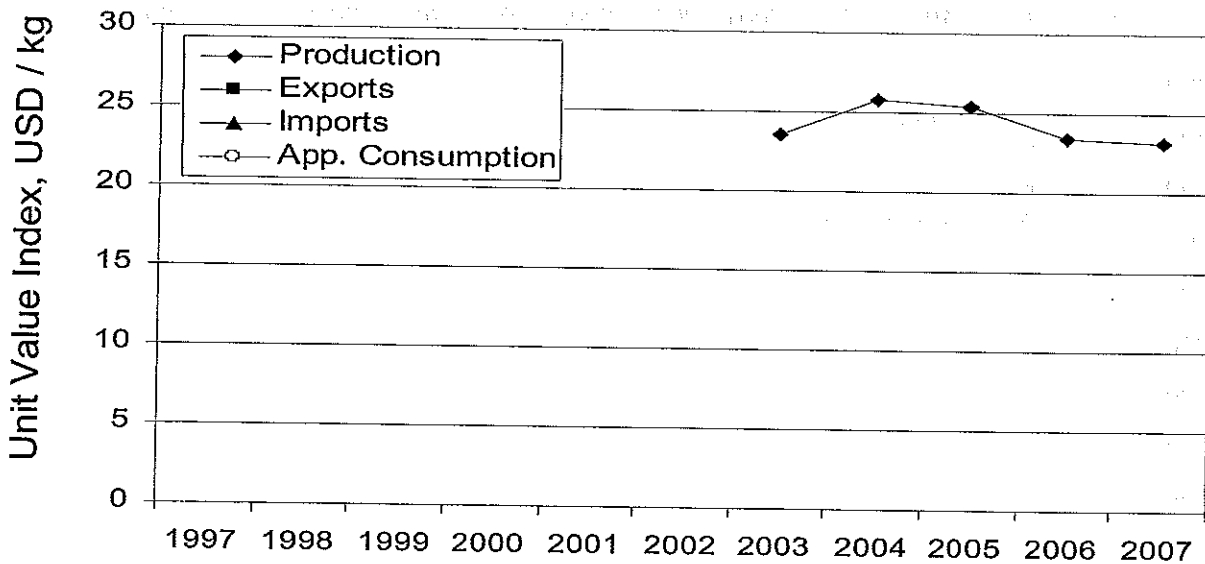
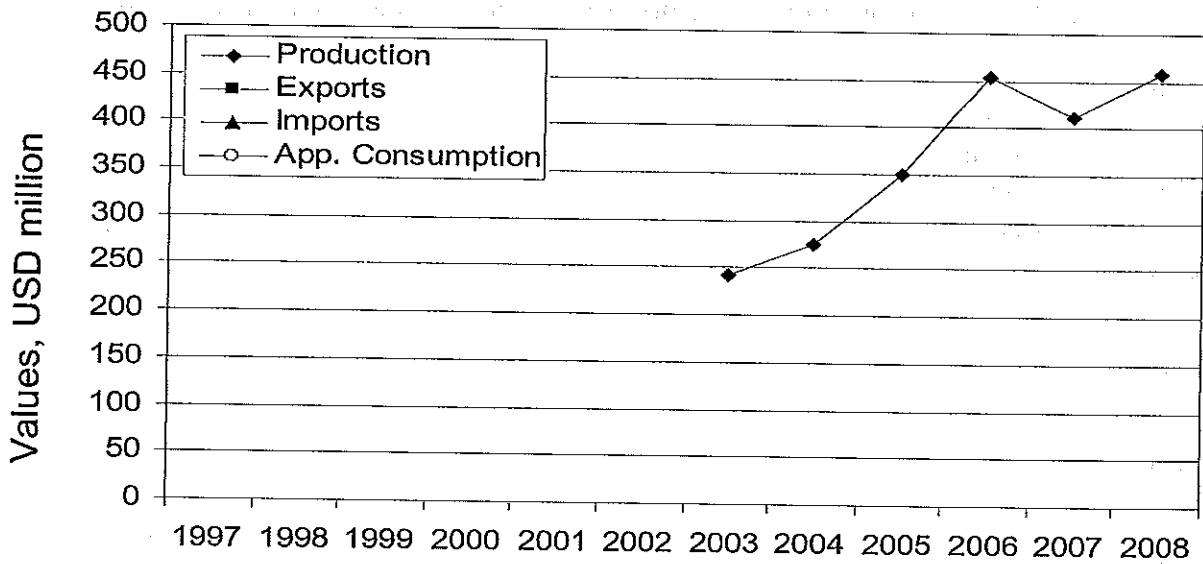
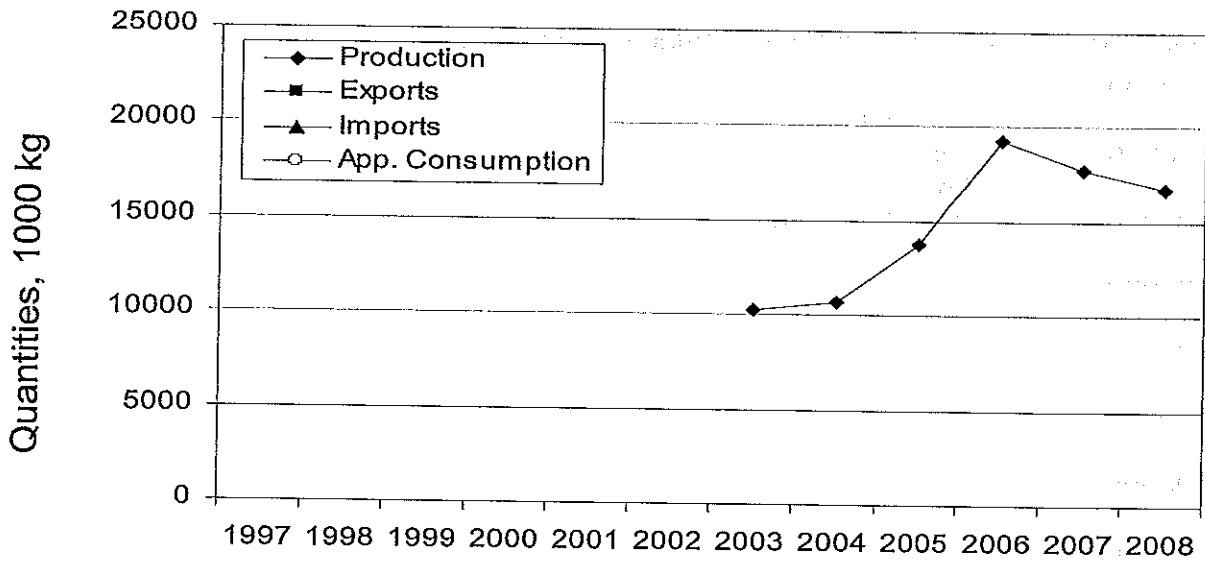
Japan - Tools for pressing, stamping, punching and forming



Japan - Injection and compression moulds for plastics and rubber

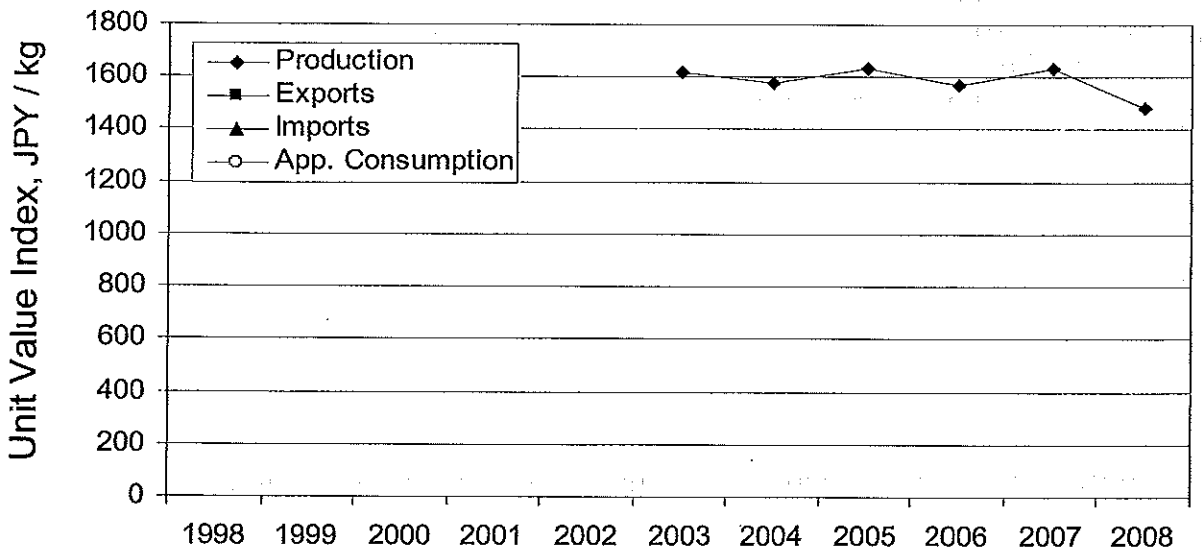
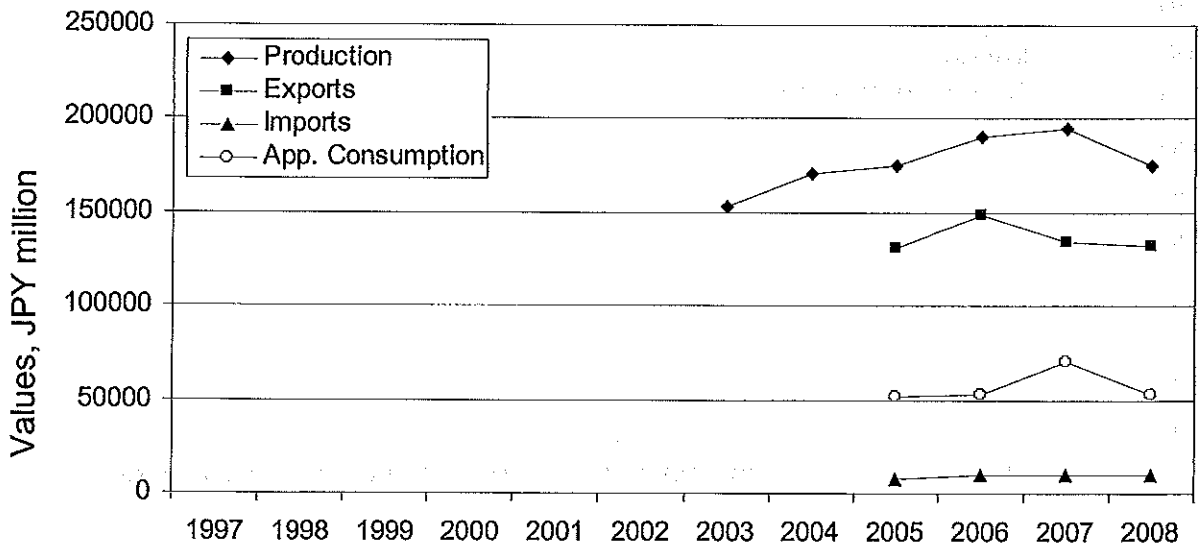
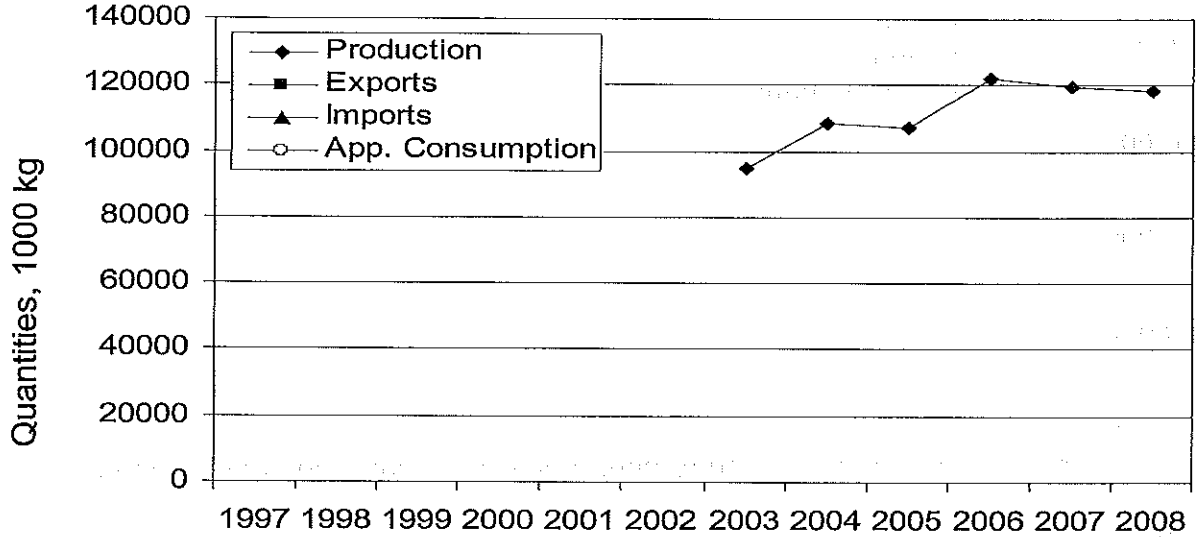


### Japan- Die casting dies

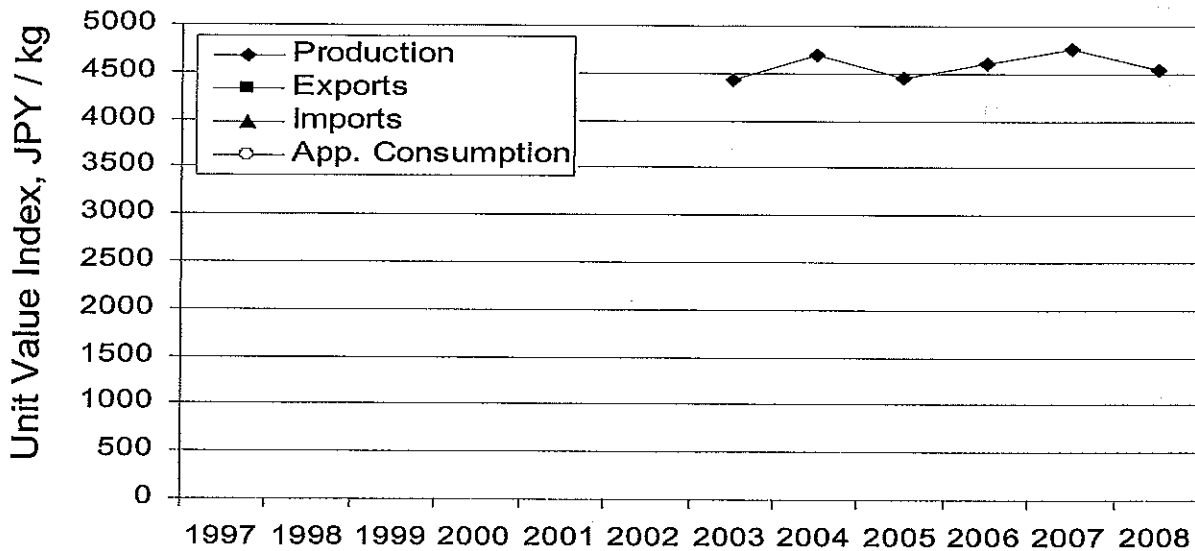
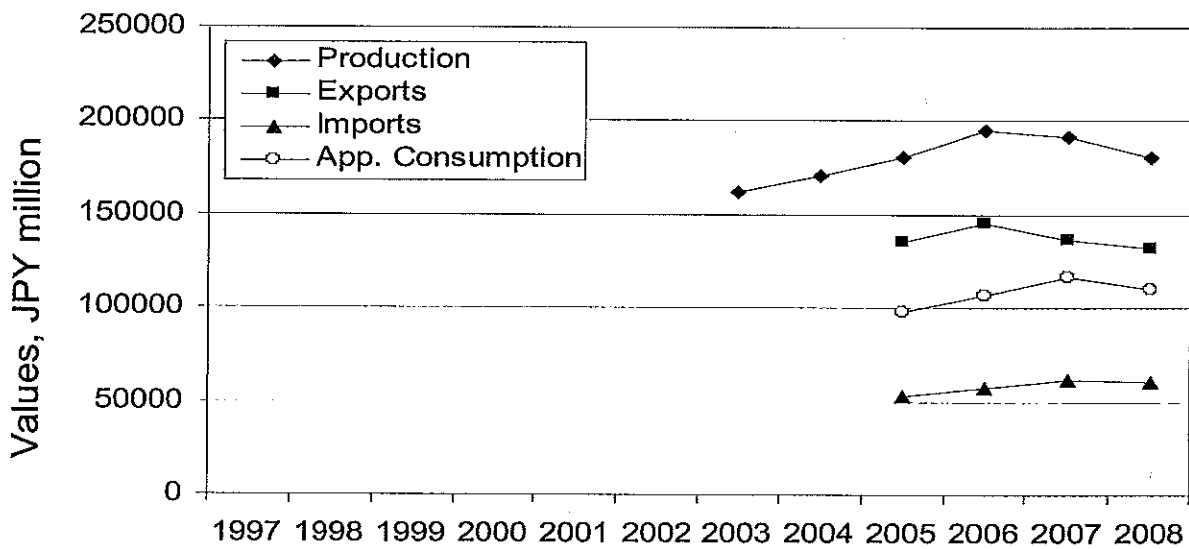
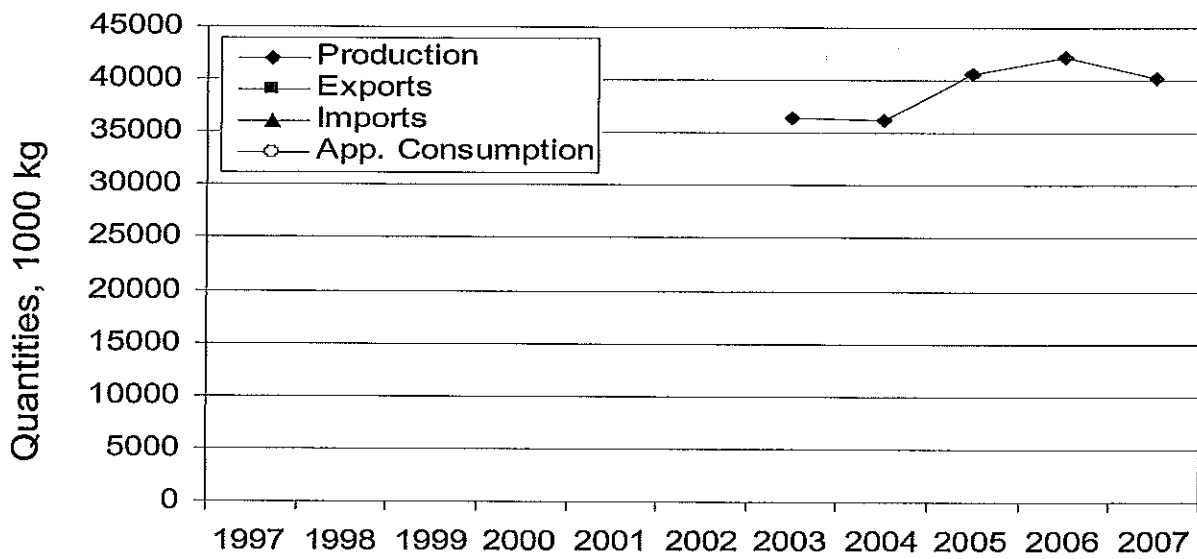


## 4.22. Japan (Yen) Japanese Standards (METI)

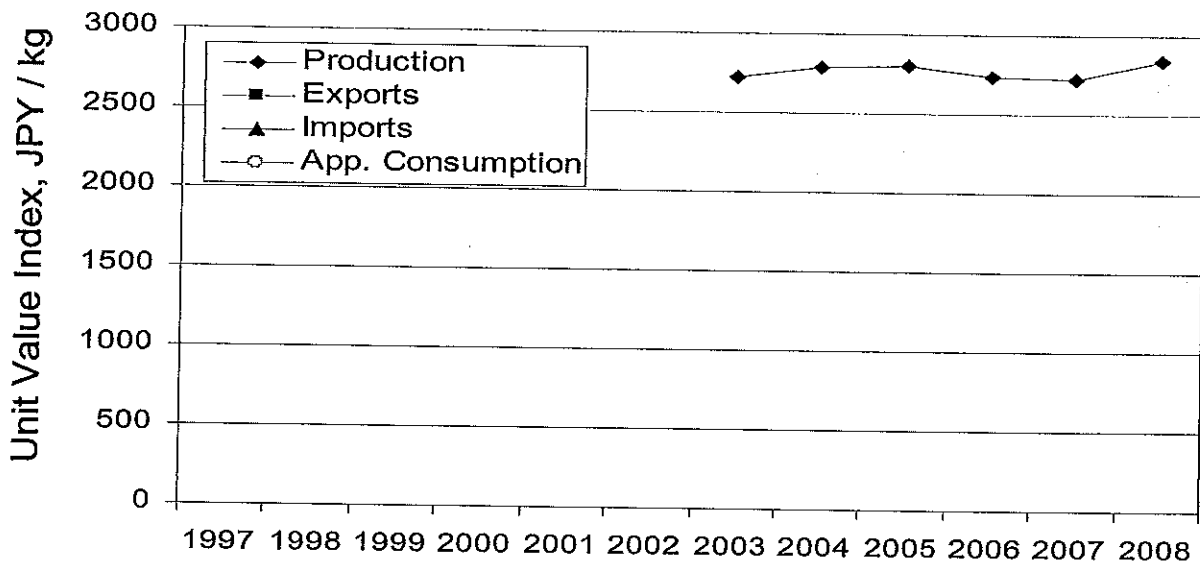
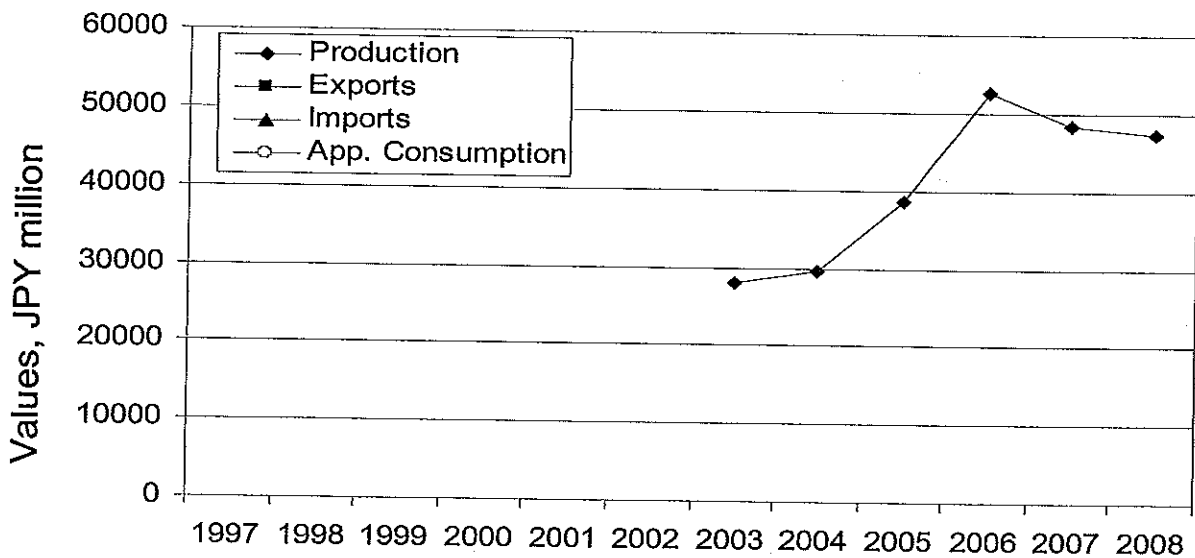
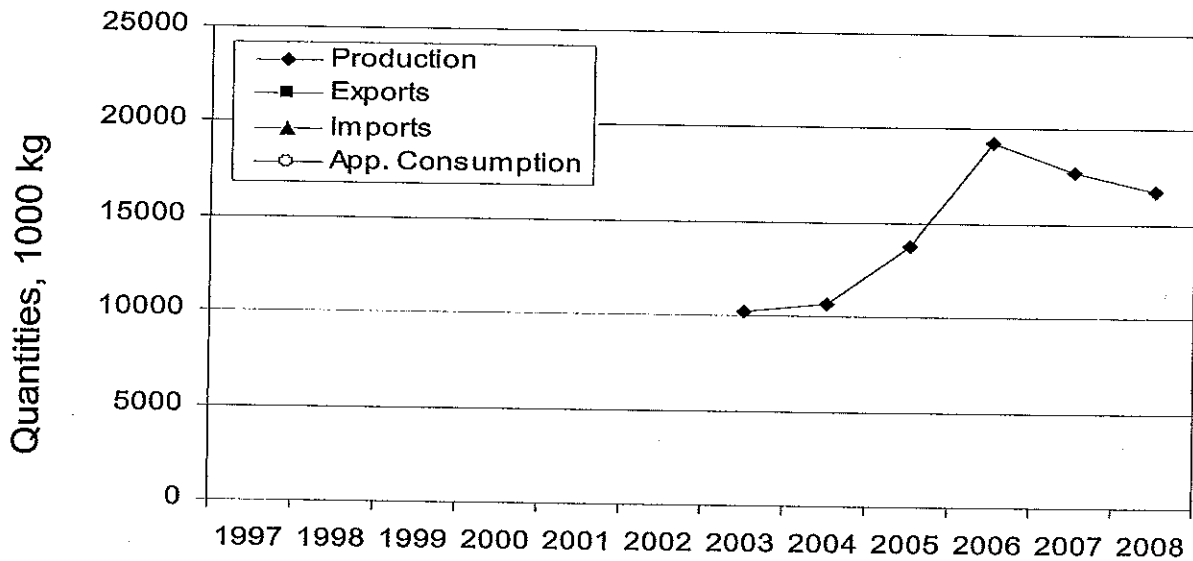
Japan - Tools for pressing, stamping, punching and forming



Japan - Injection and compression moulds for plastics and rubber

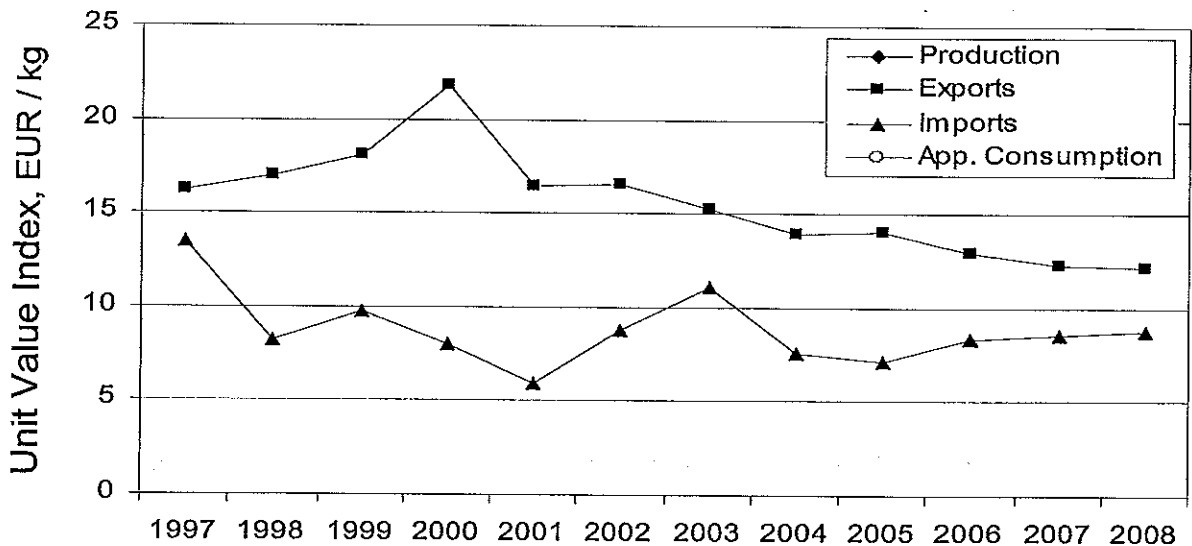
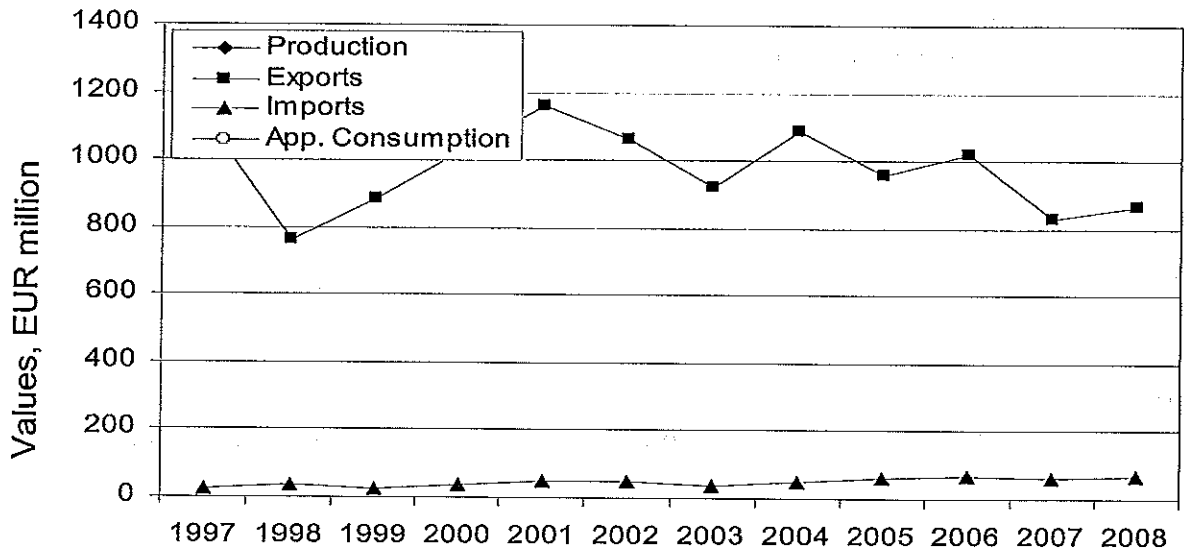
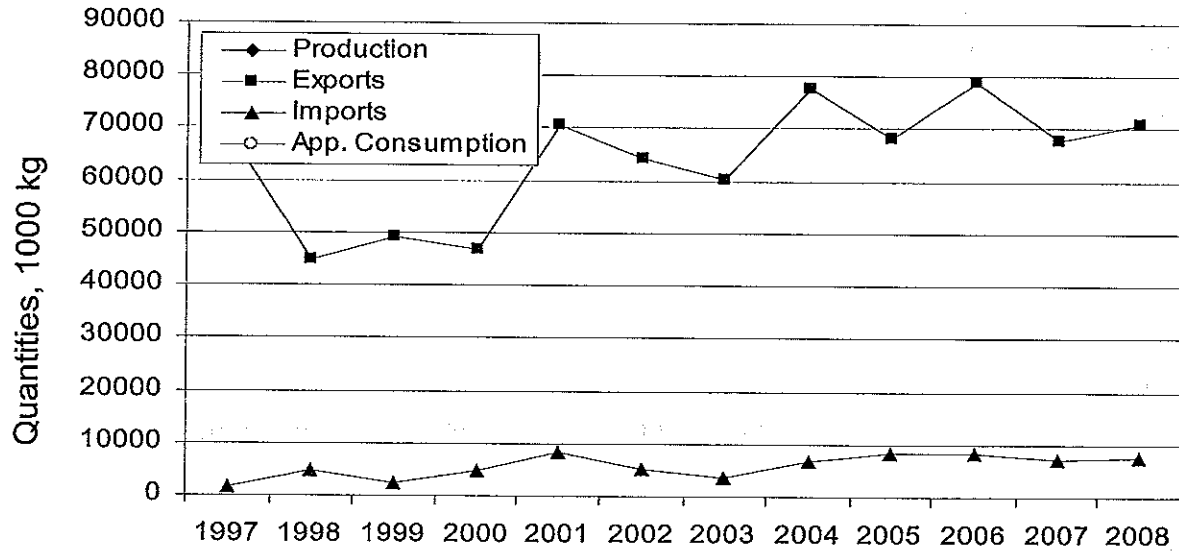


### Japan- Die casting dies

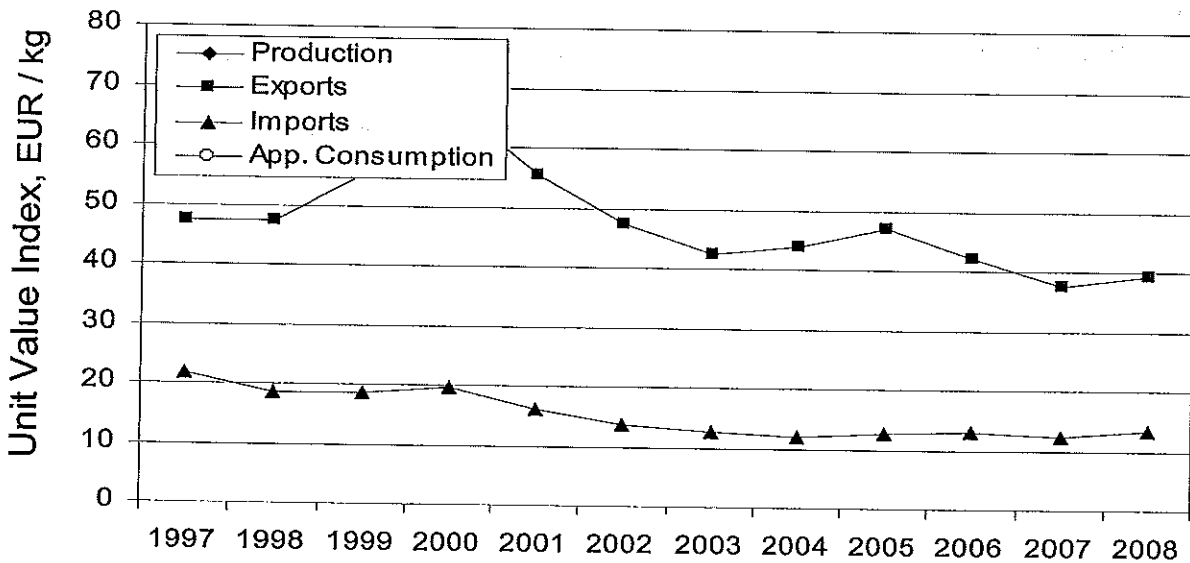
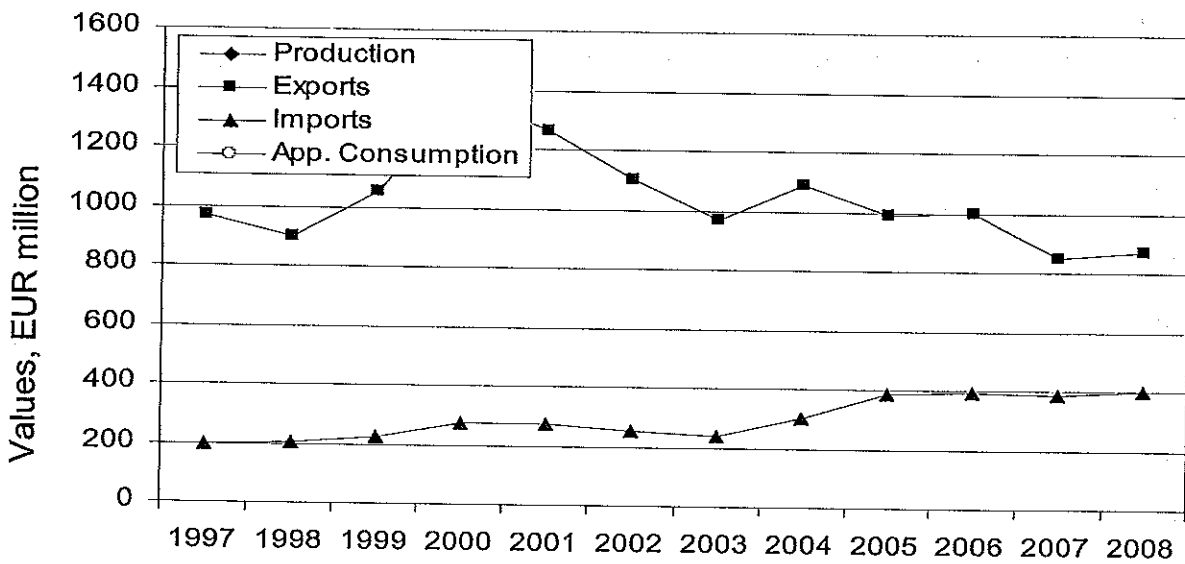
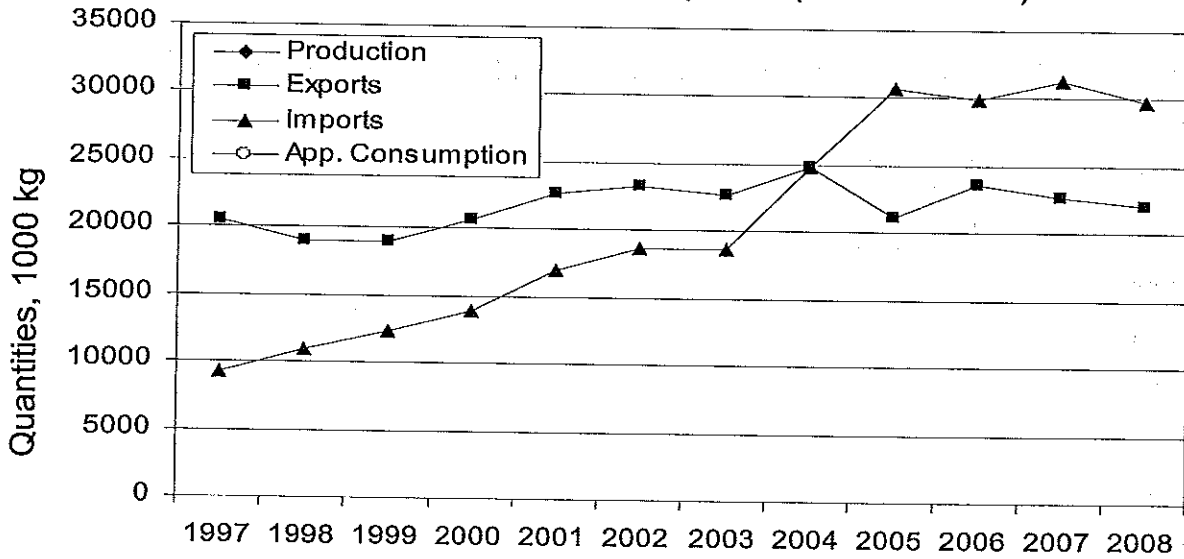


### 4.23. Japan (EUR) HS Standards

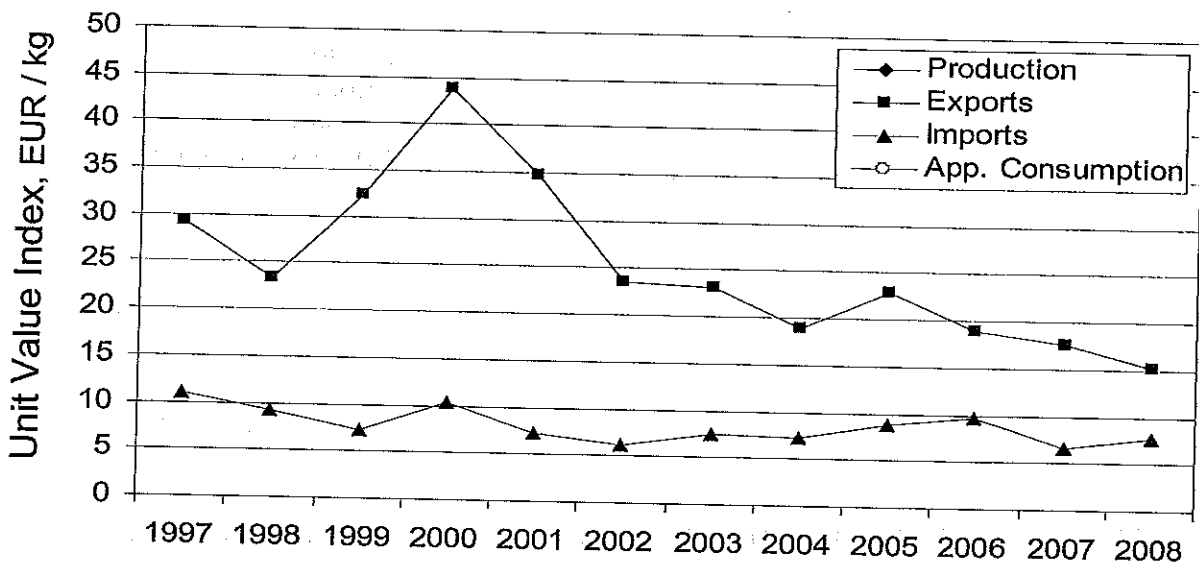
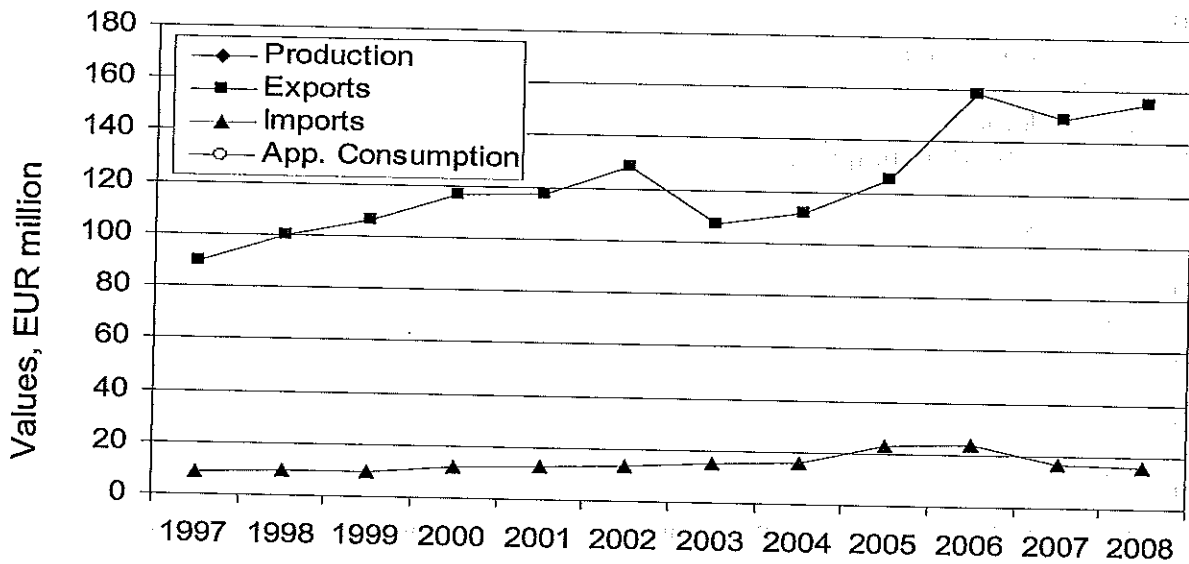
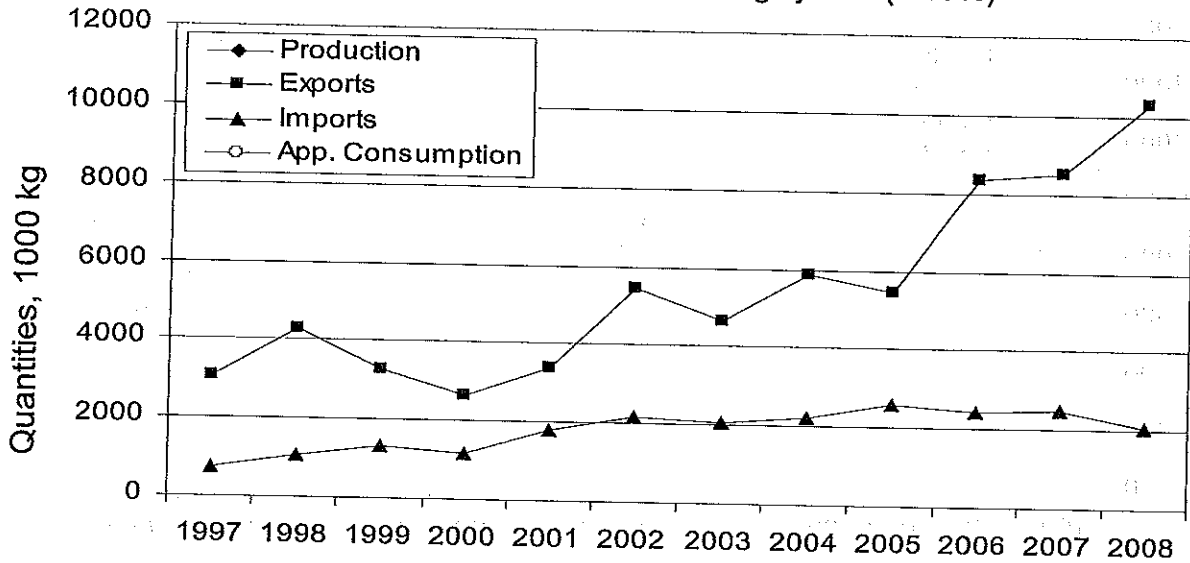
Japan - Tools for pressing, stamping, punching and forming (820730)



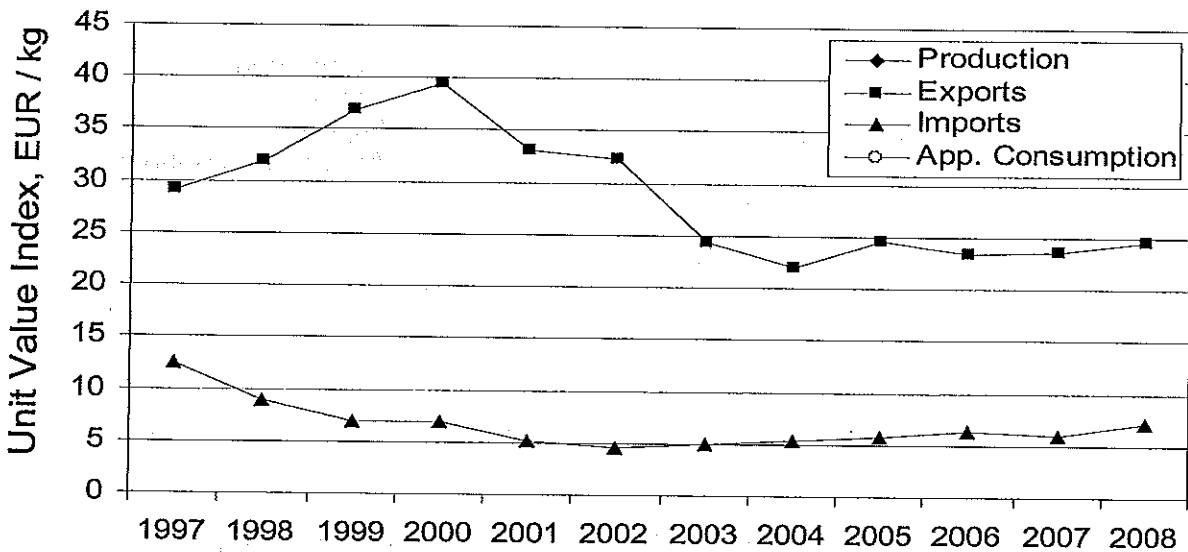
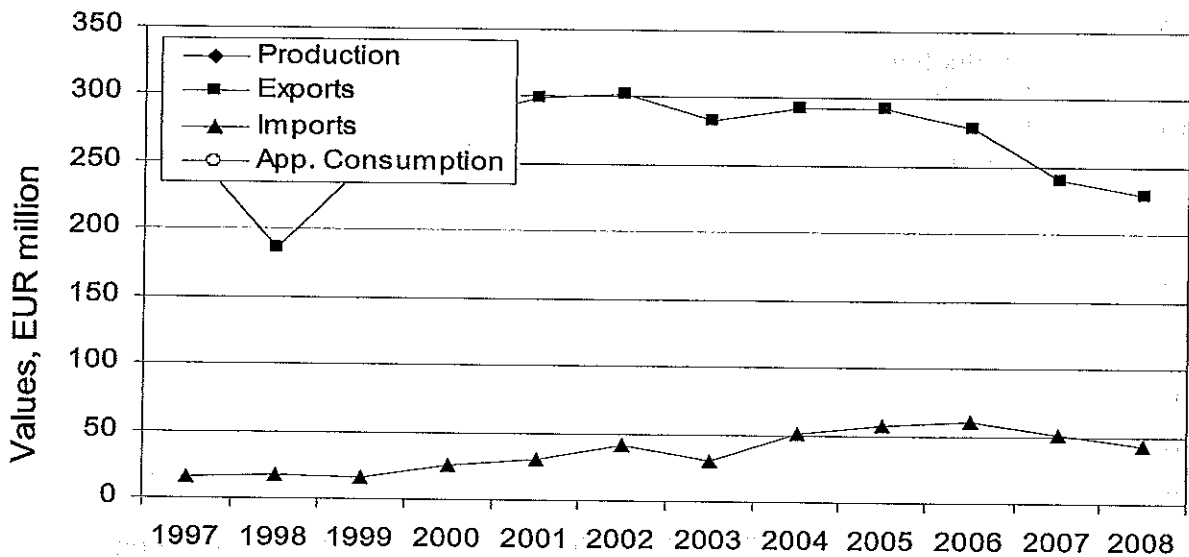
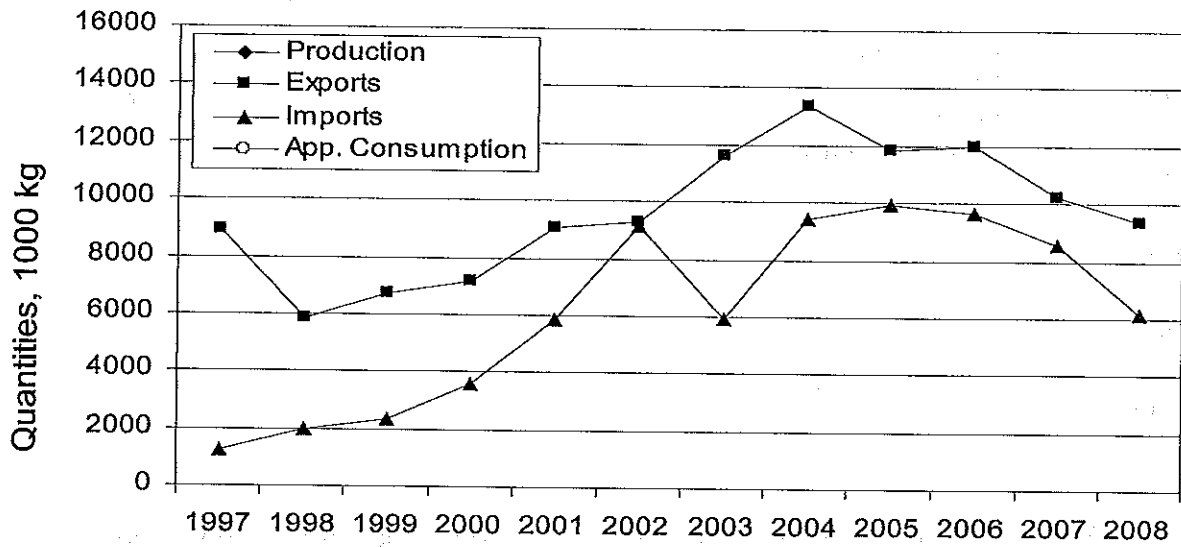
Japan - Injection and compression moulds for plastics (849071+848079)



Japan - Mould tools for metal or metal carbides excluding injection (848049)

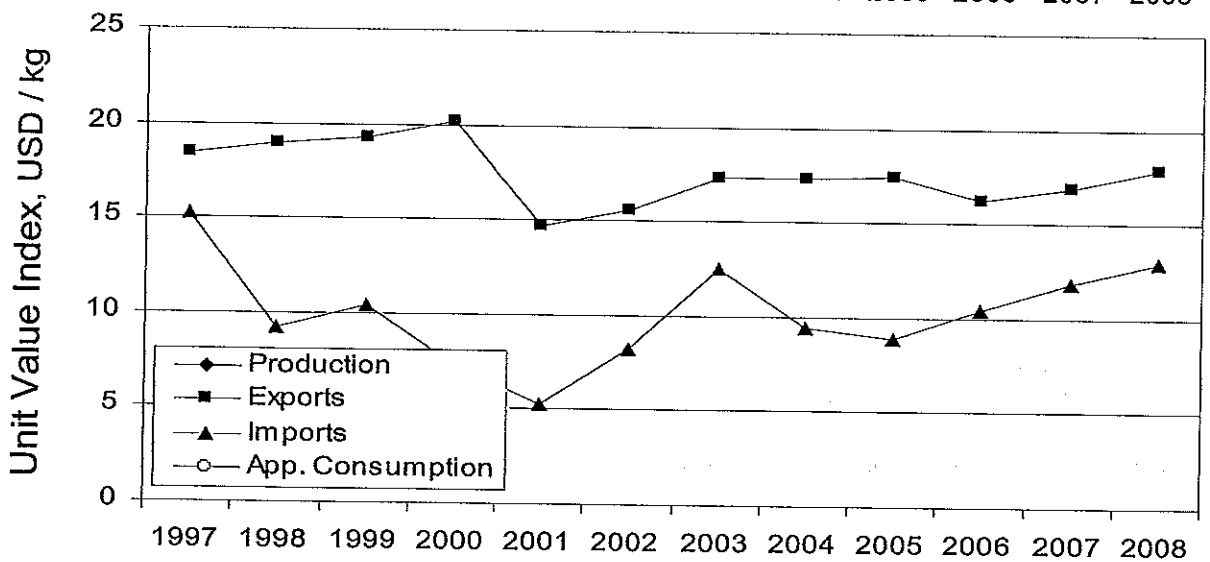
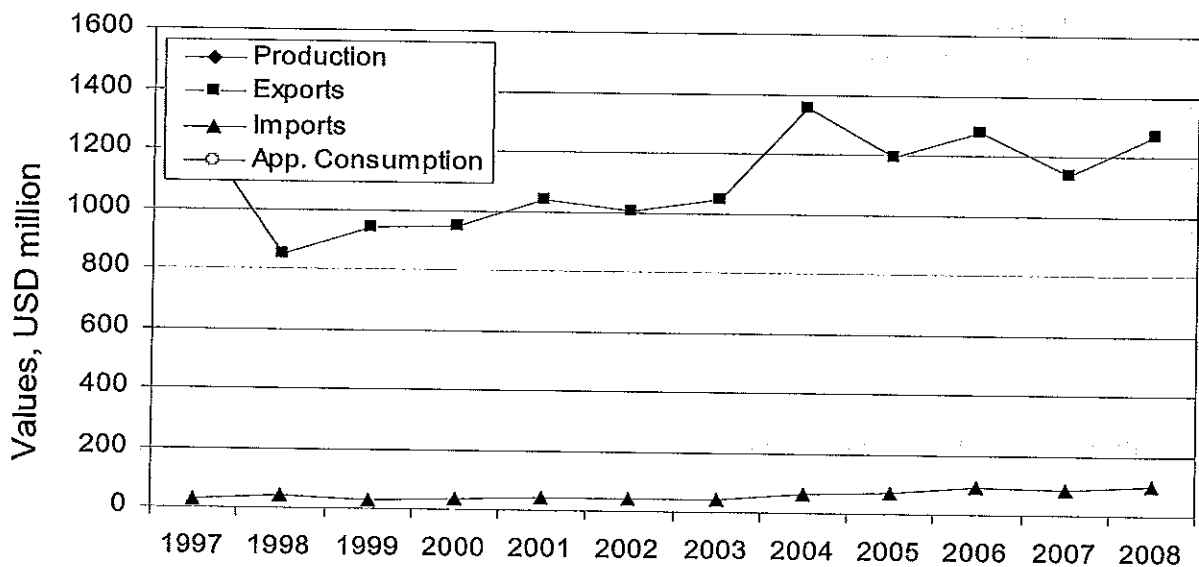
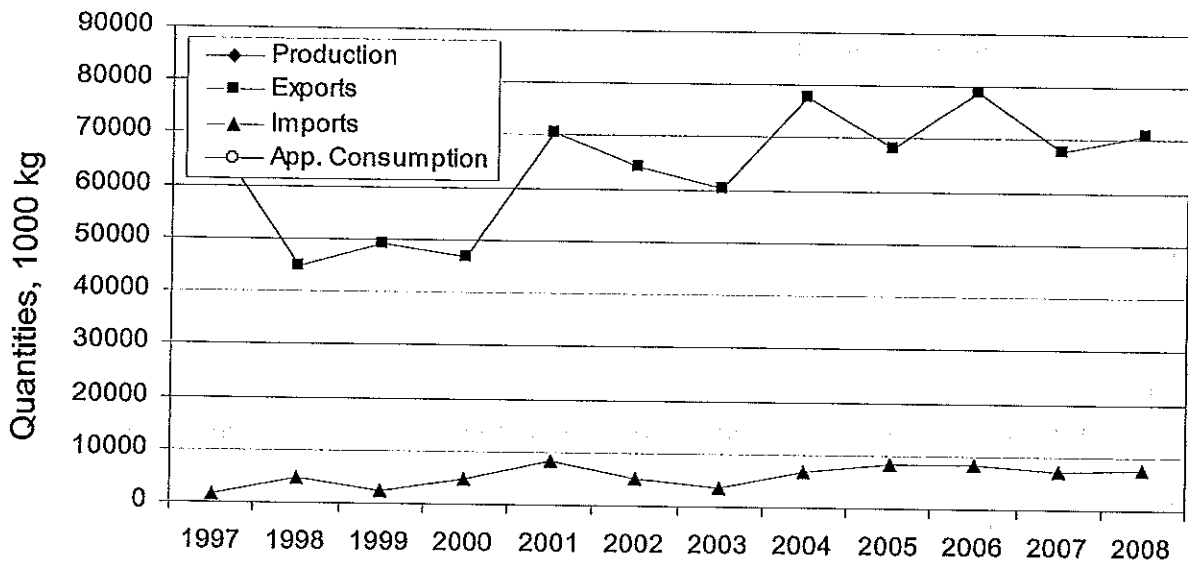


Japan - Mould tools for metal or metal carbides (848041)

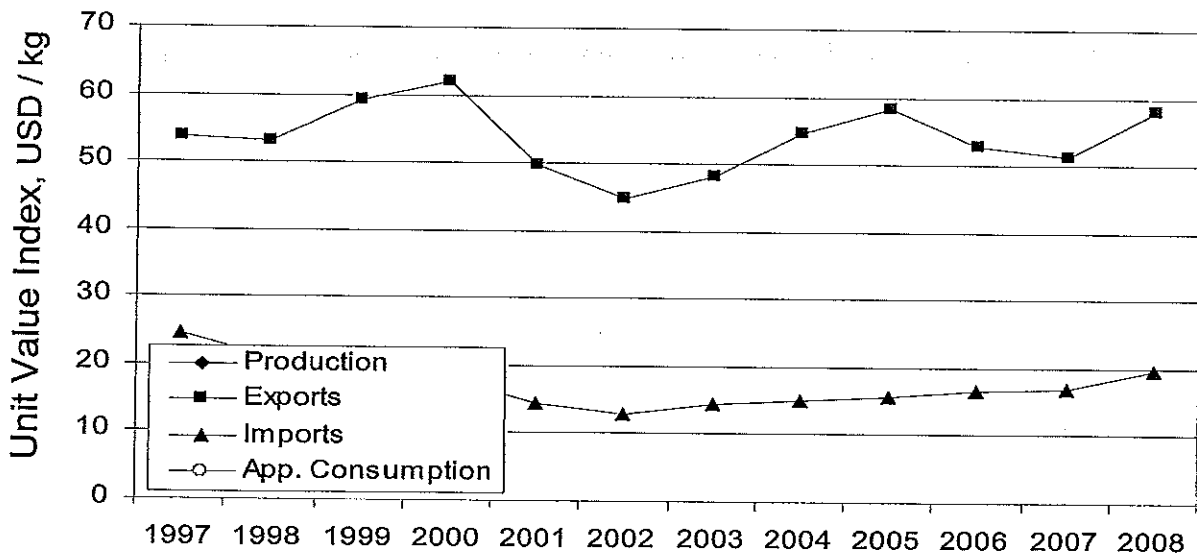
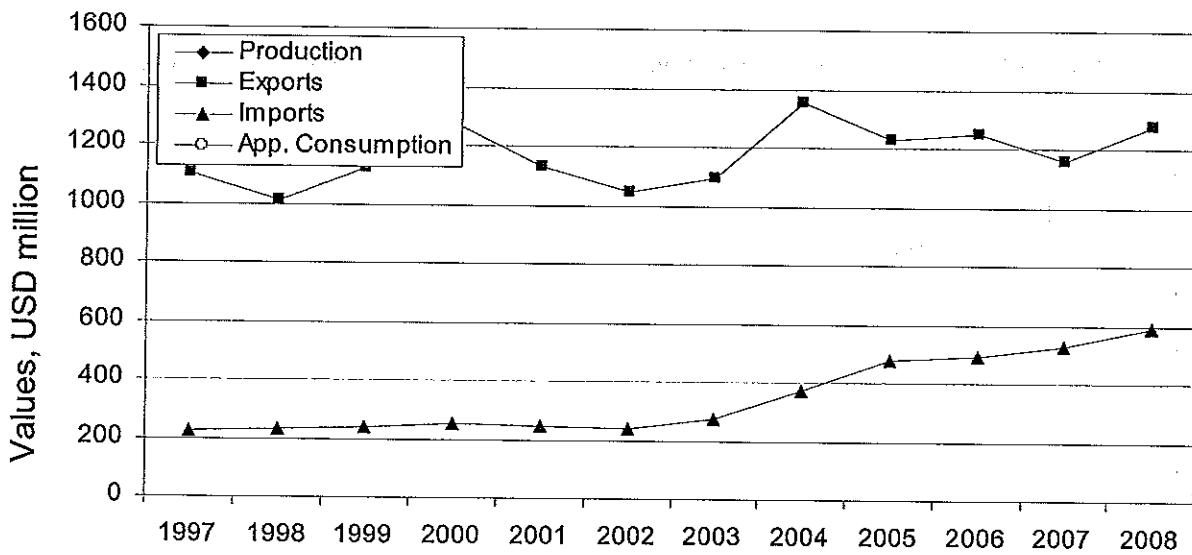
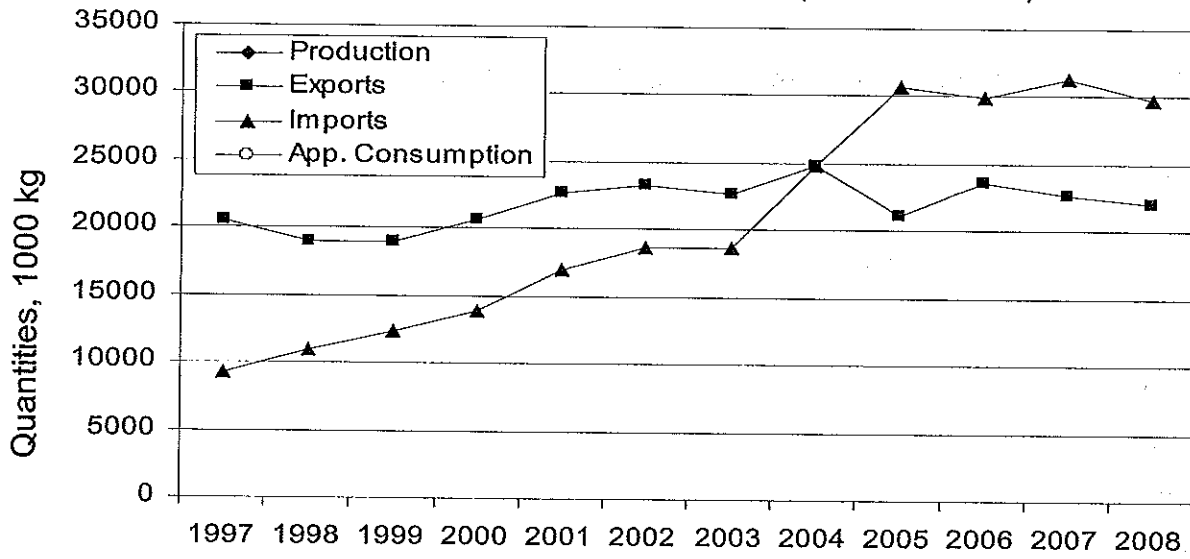


### 4.24. Japan (USD) HS Standards

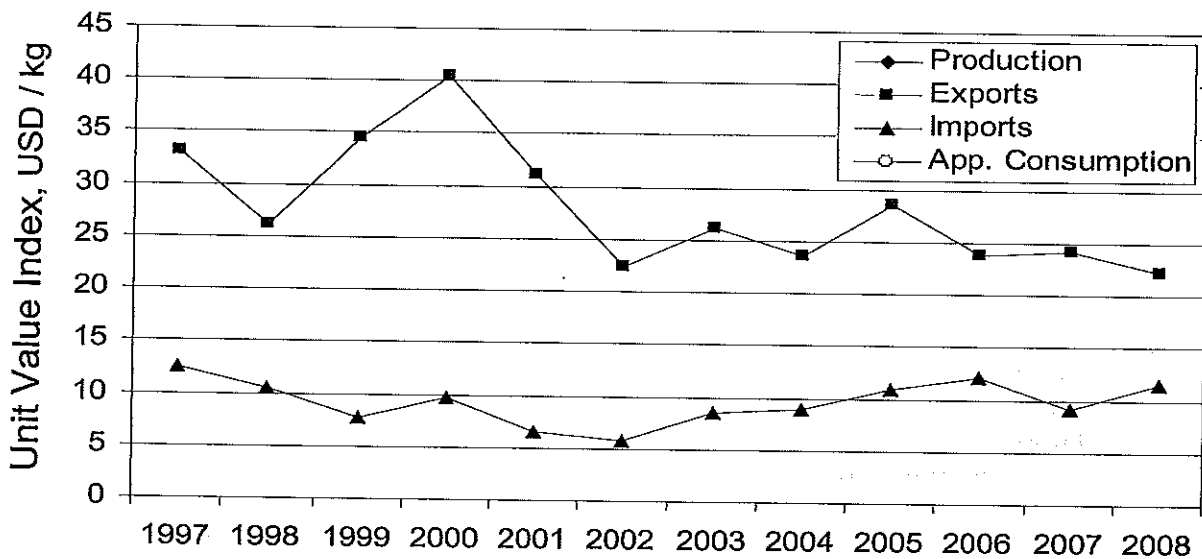
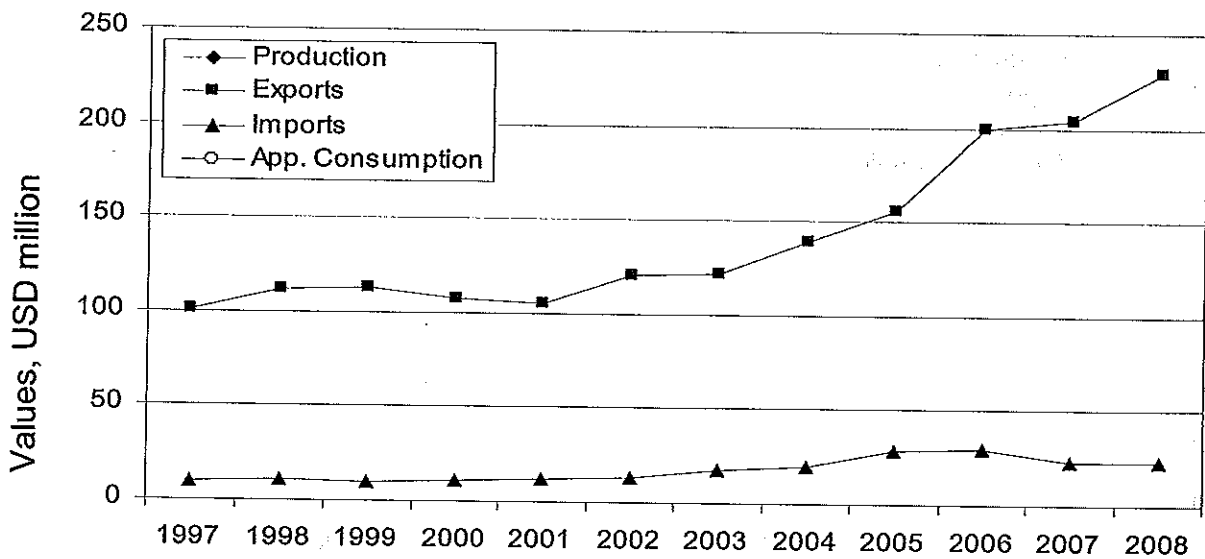
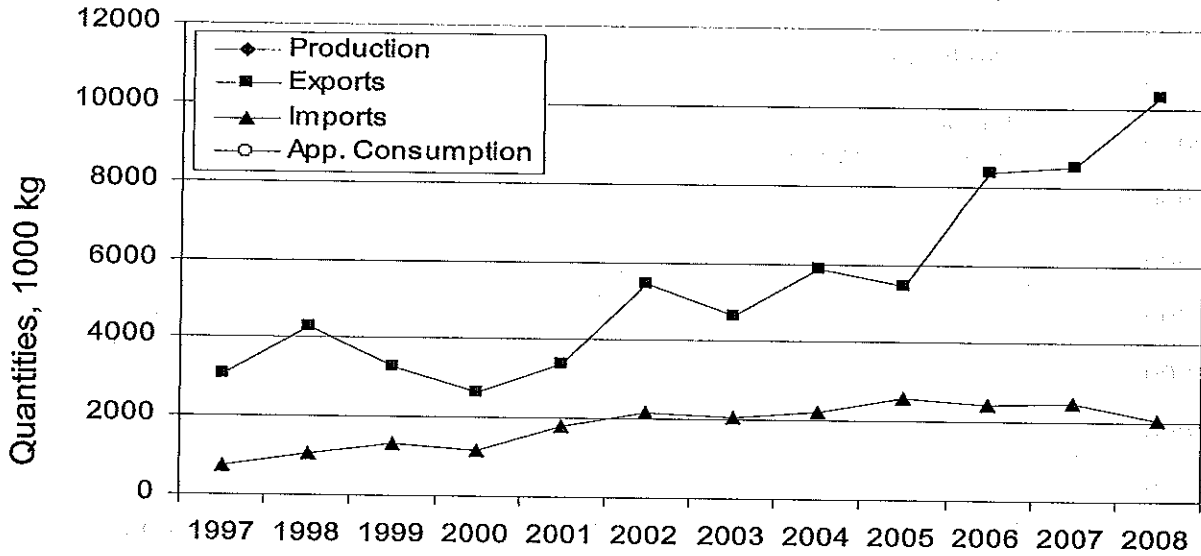
Japan - Tools for pressing, stamping, punching and forming (820730)



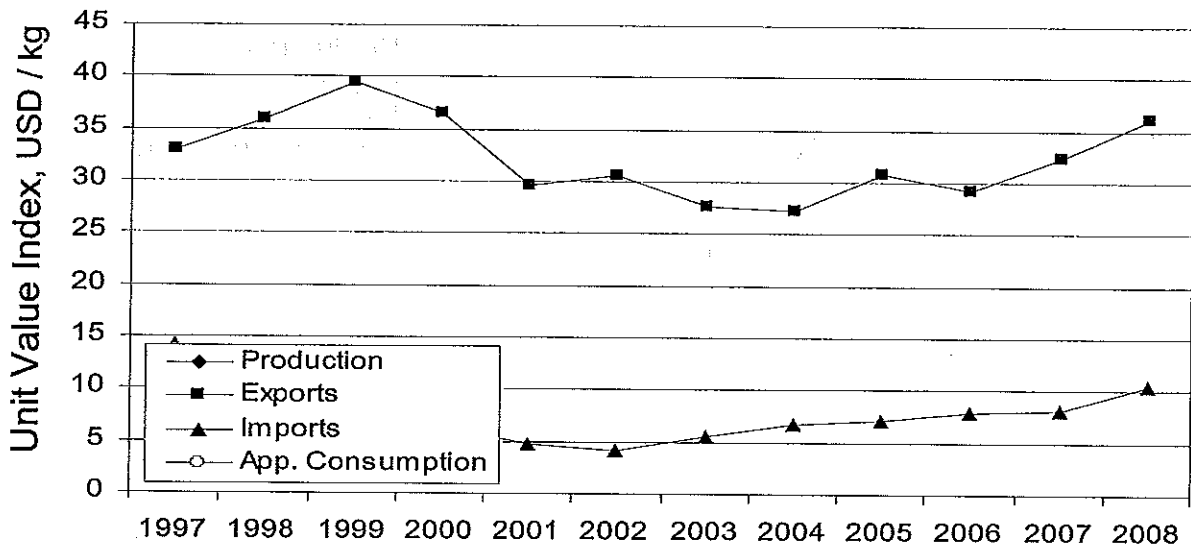
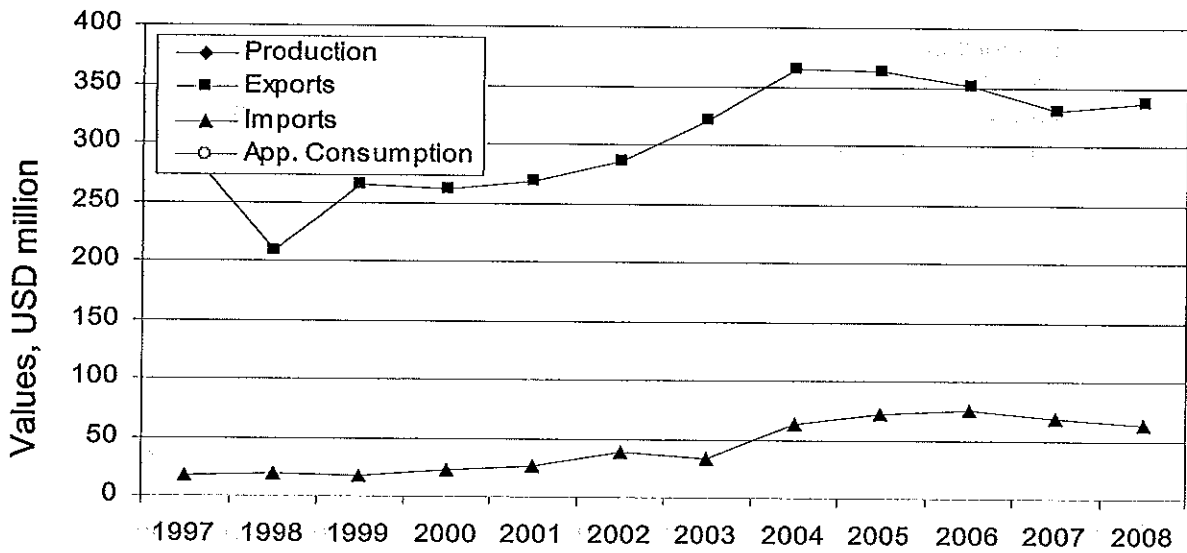
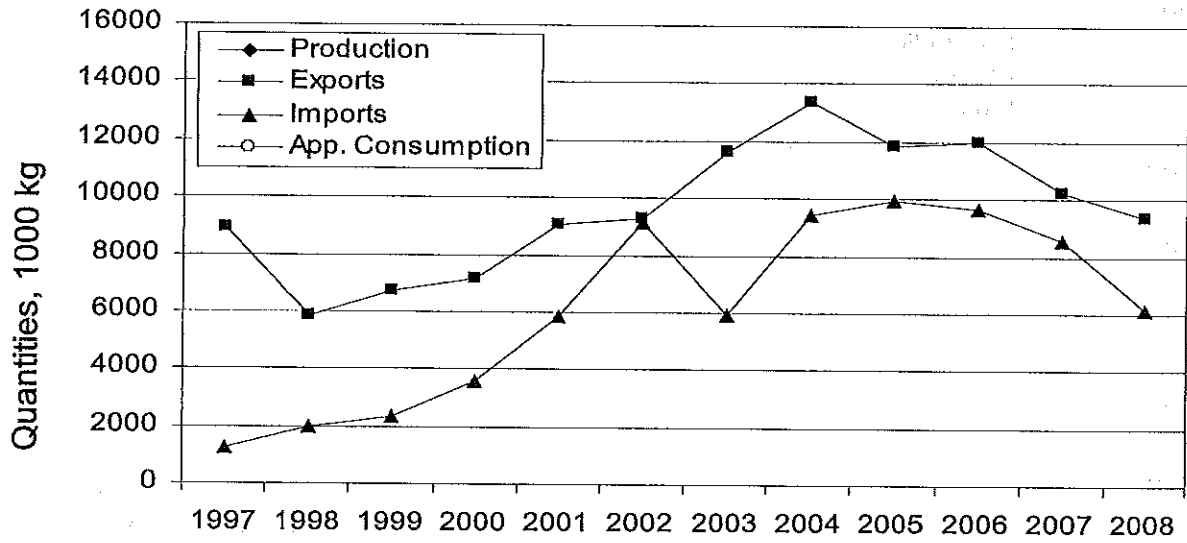
Japan - Injection and compression moulds for plastics (849071+848079)



Japan - Mould tools for metal or metal carbides excluding injection (848049)

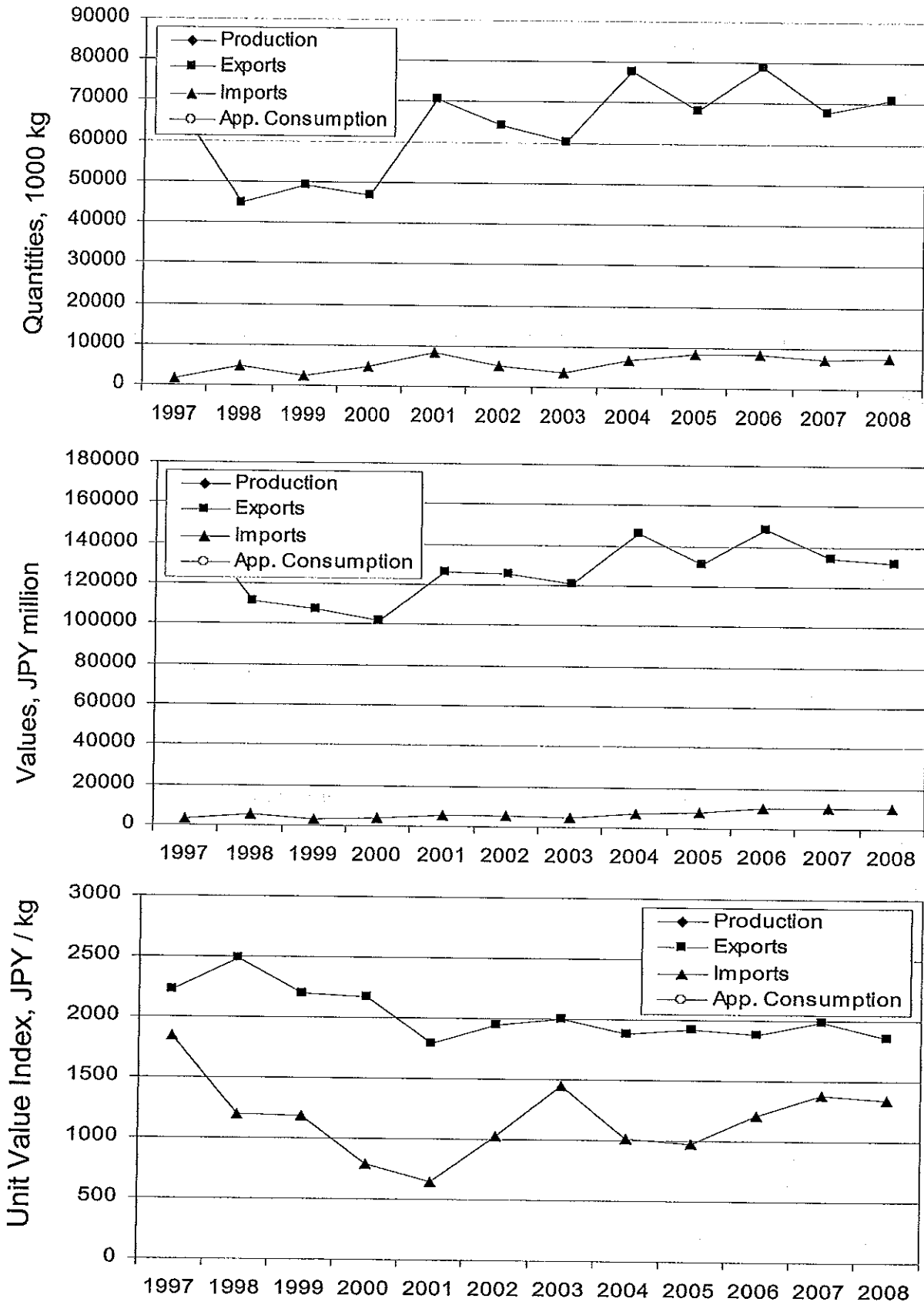


Japan - Mould tools for metal or metal carbides (848041)

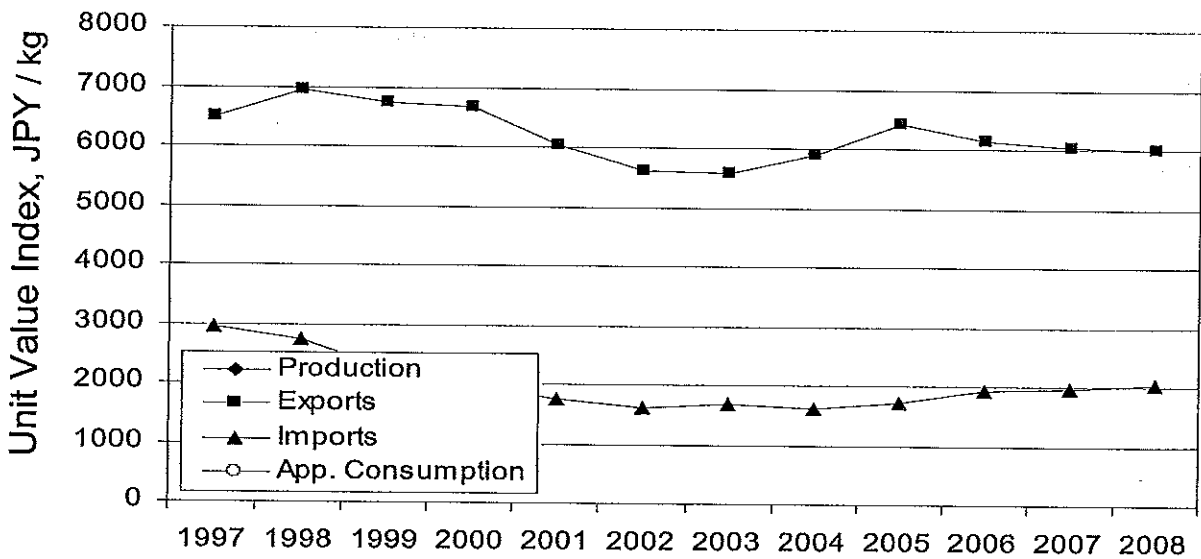
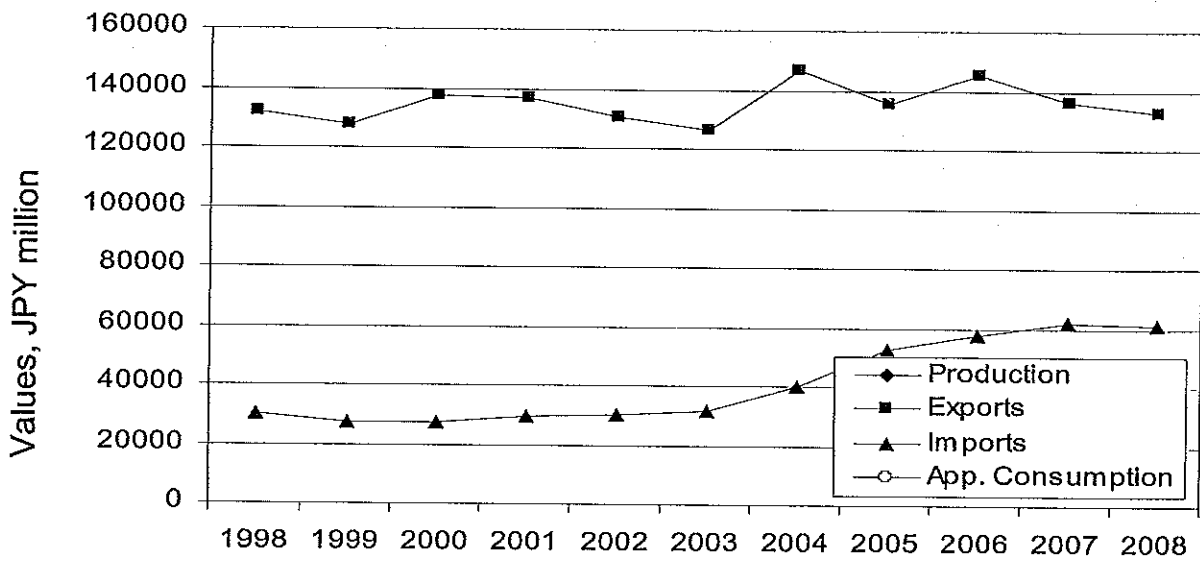
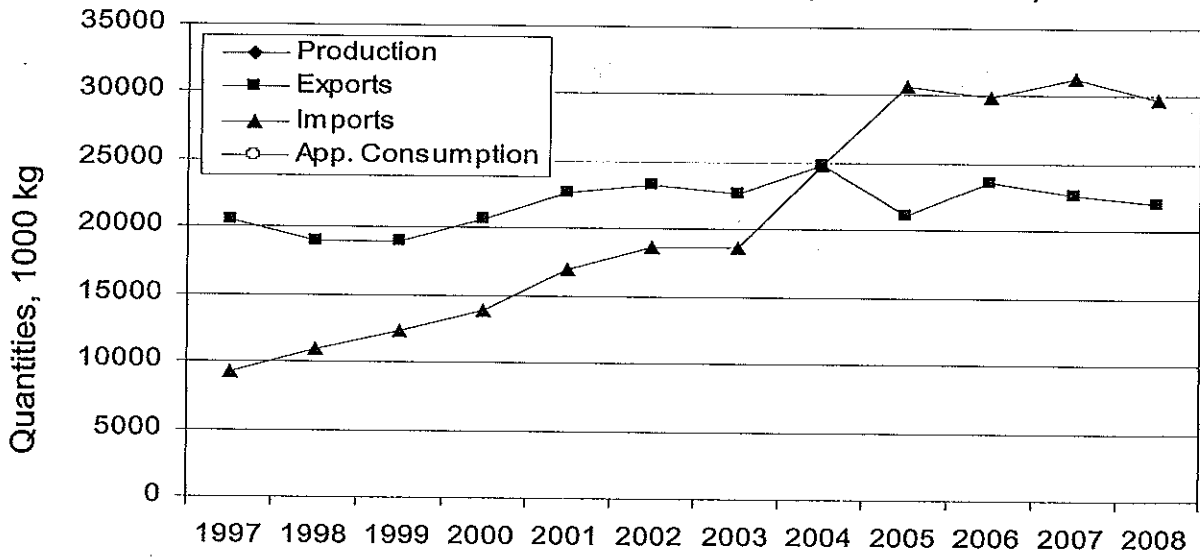


### 4.25. Japan (Yen) HS Standards

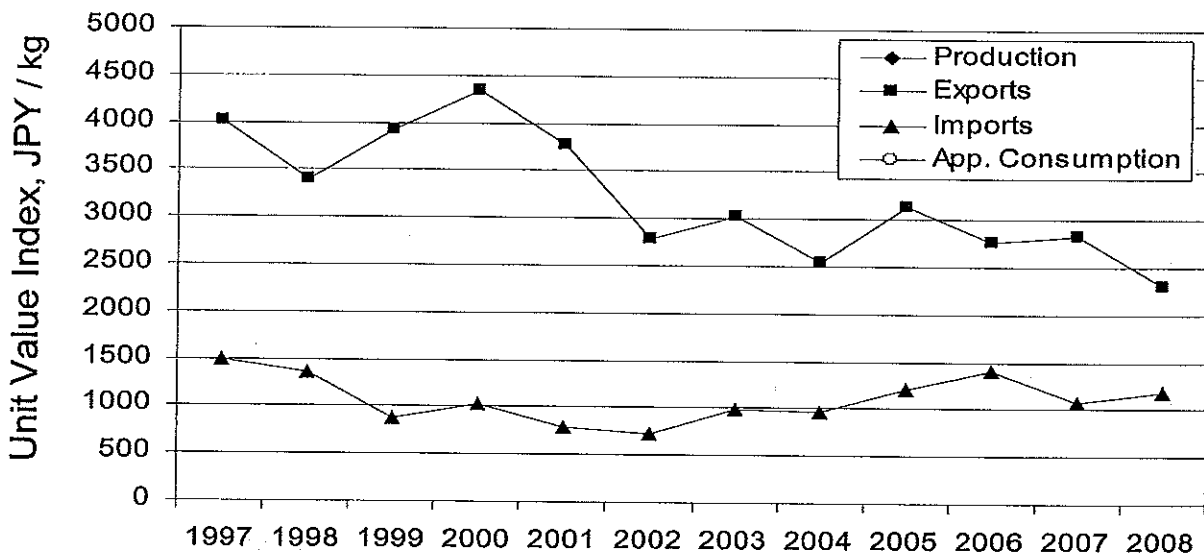
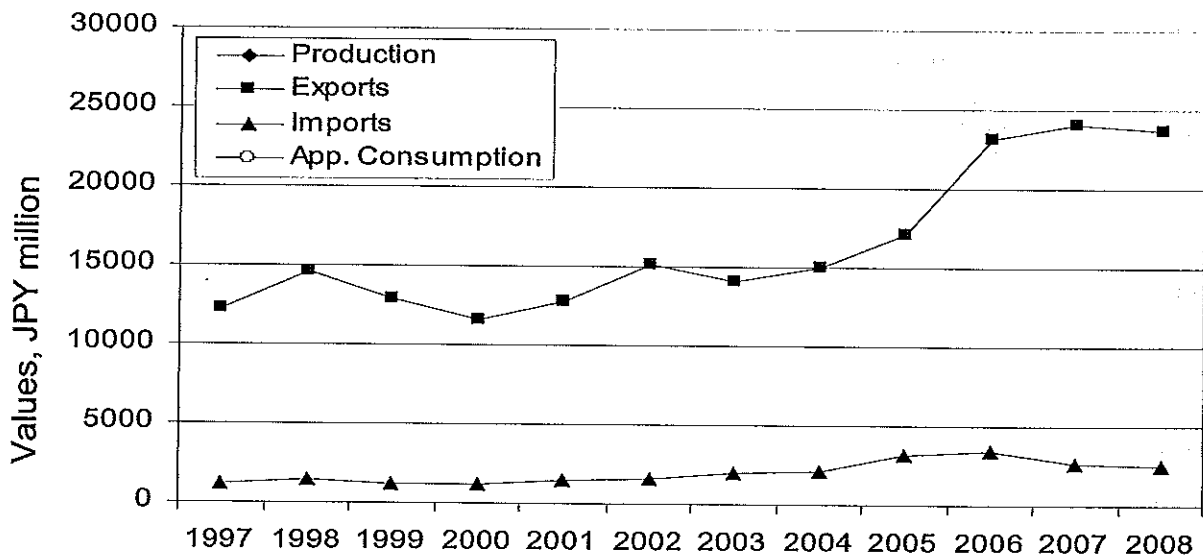
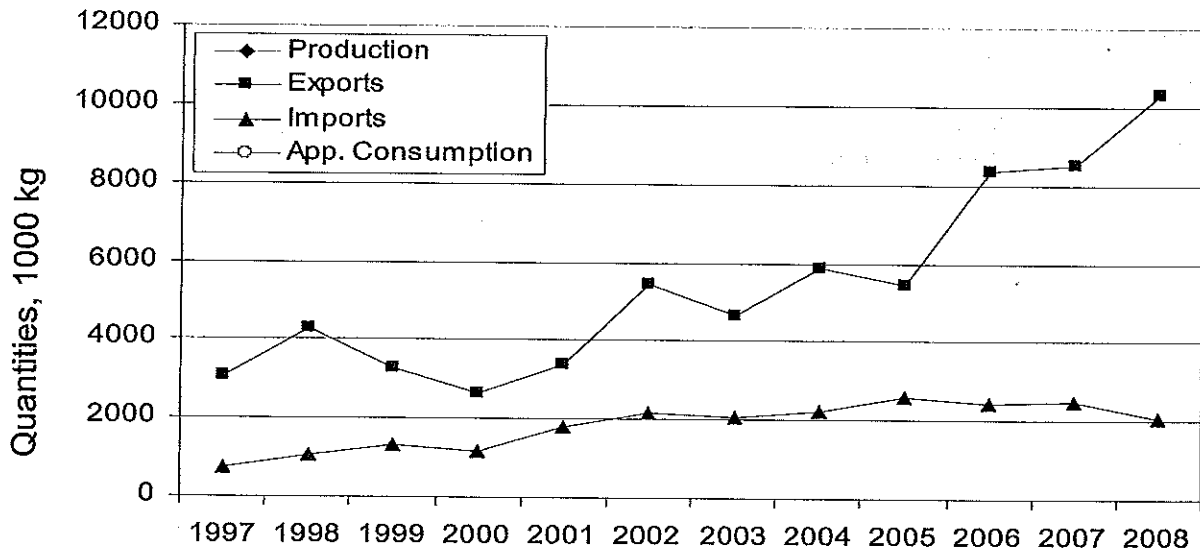
Japan - Tools for pressing, stamping, punching and forming (820730)



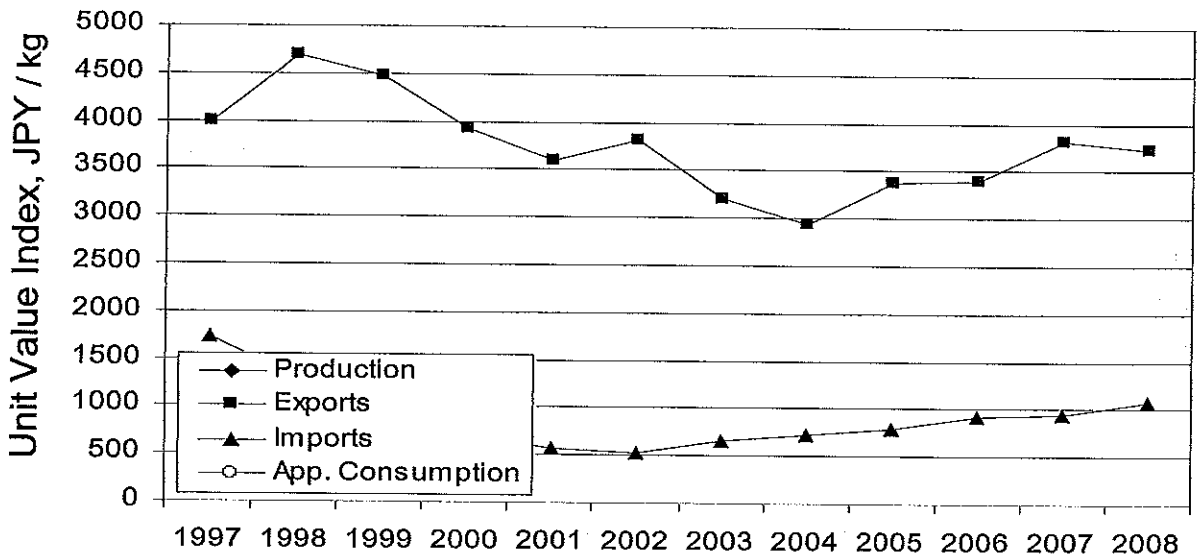
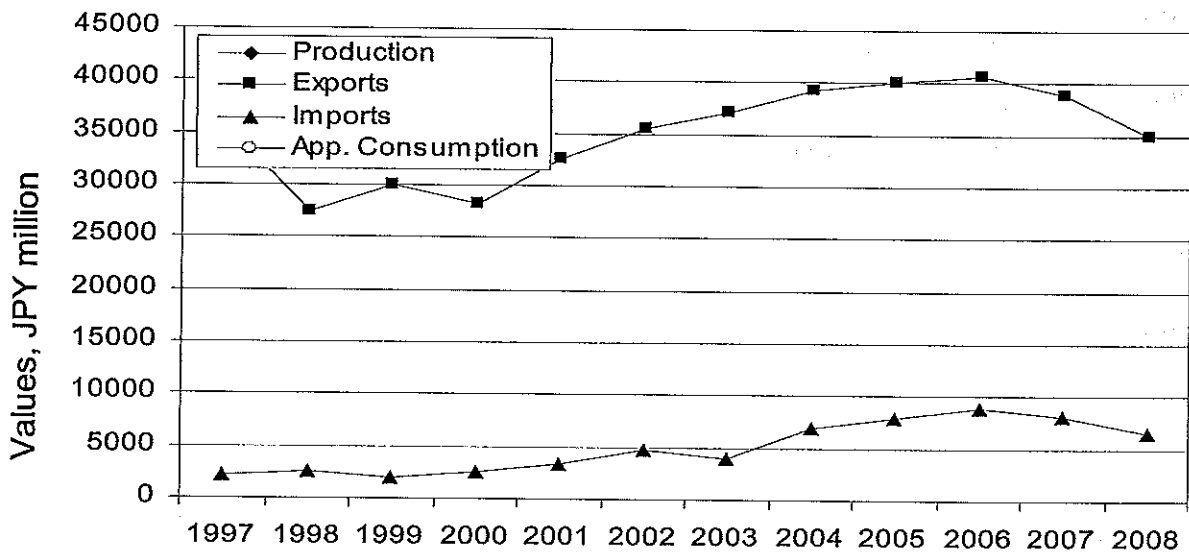
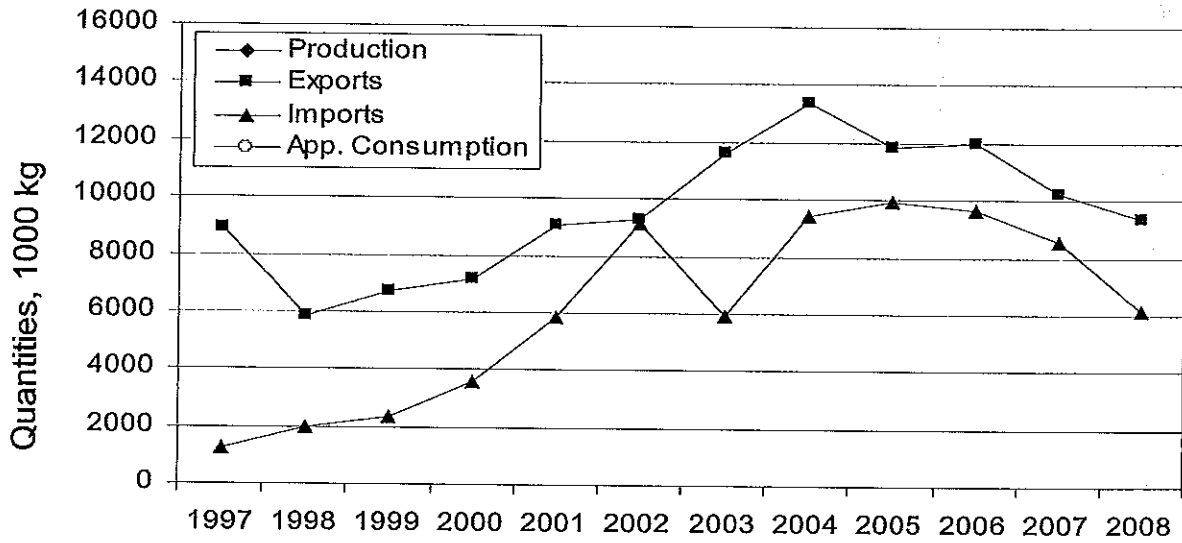
Japan - Injection and compression moulds for plastics (849071+848079)



Japan - Mould tools for metal or metal carbides excluding injection (848049)

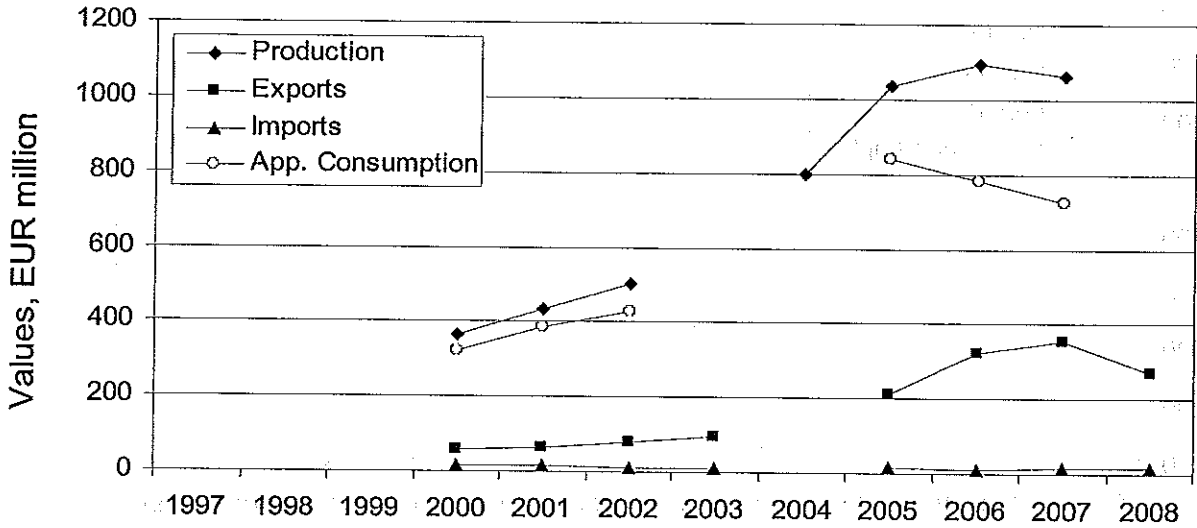


Japan - Mould tools for metal or metal carbides (848041)

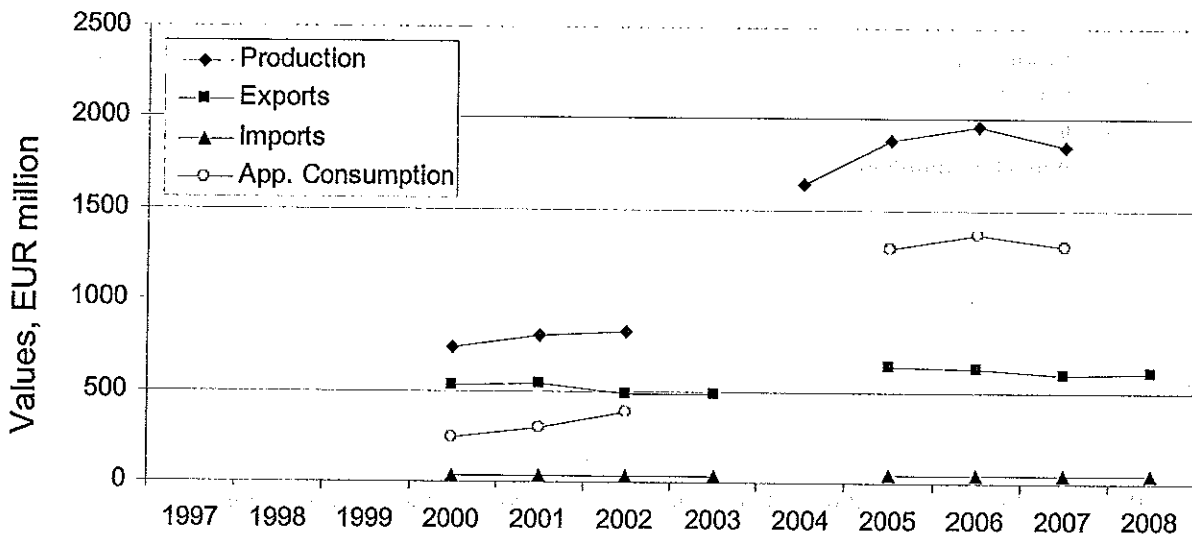


### 4.26. Korea (EUR)

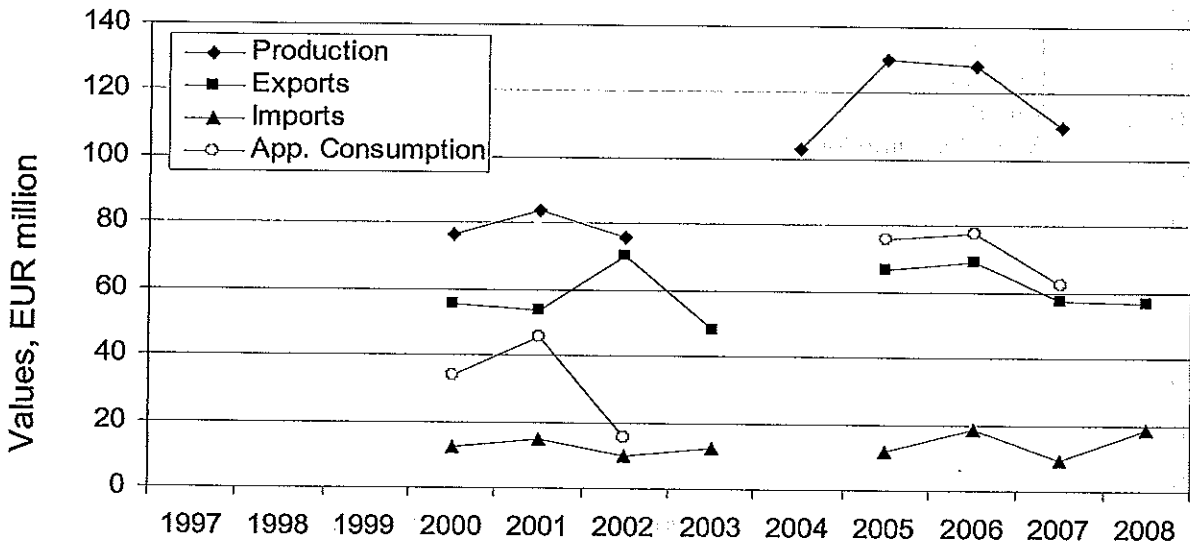
Korea - Tools for pressing, stamping, punching and forming



Korea - Injection and compression moulds for plastics and rubber

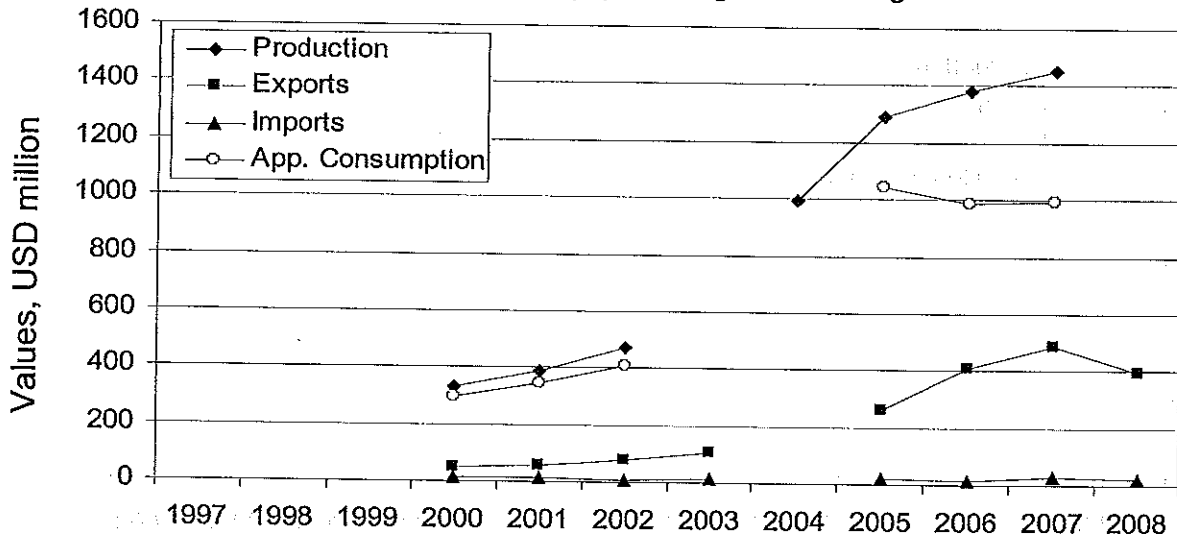


Korea - Die casting mould

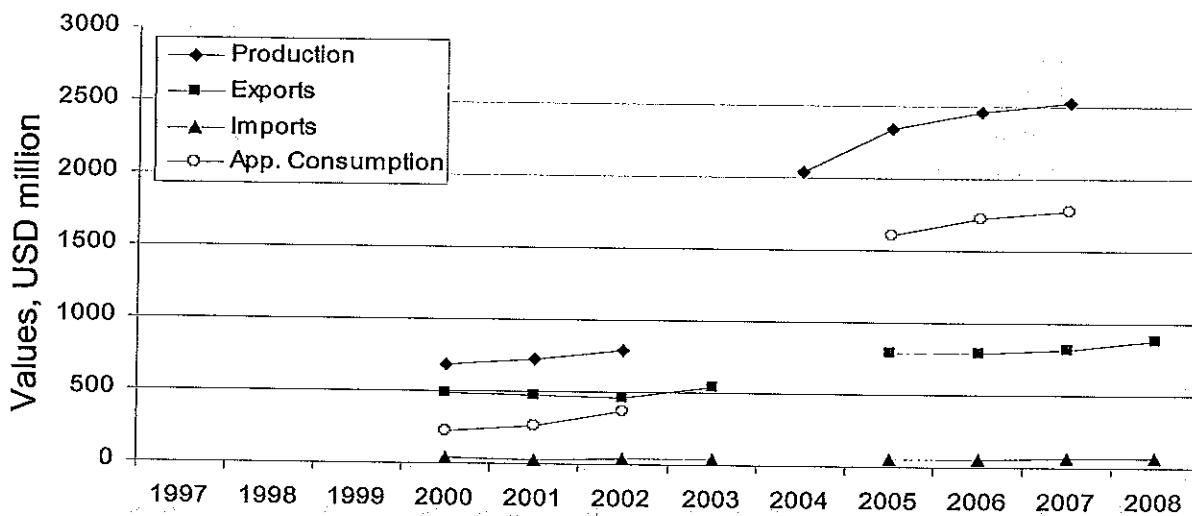


### 4.27. Korea (USD)

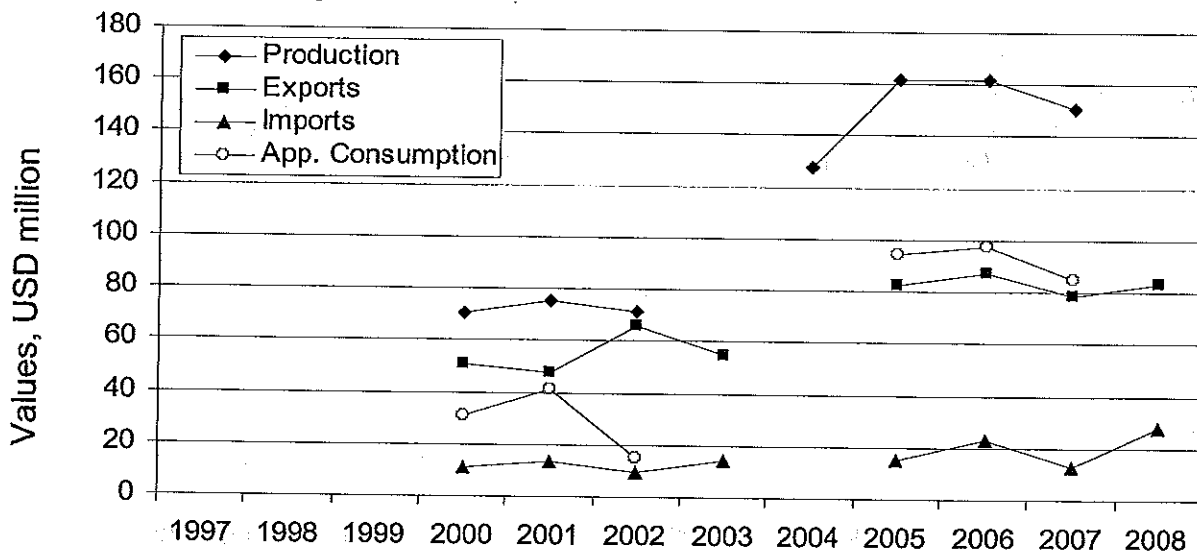
Korea – Tools for pressing, stamping, punching and forming



Korea - Injection and compression moulds for plastics and rubber

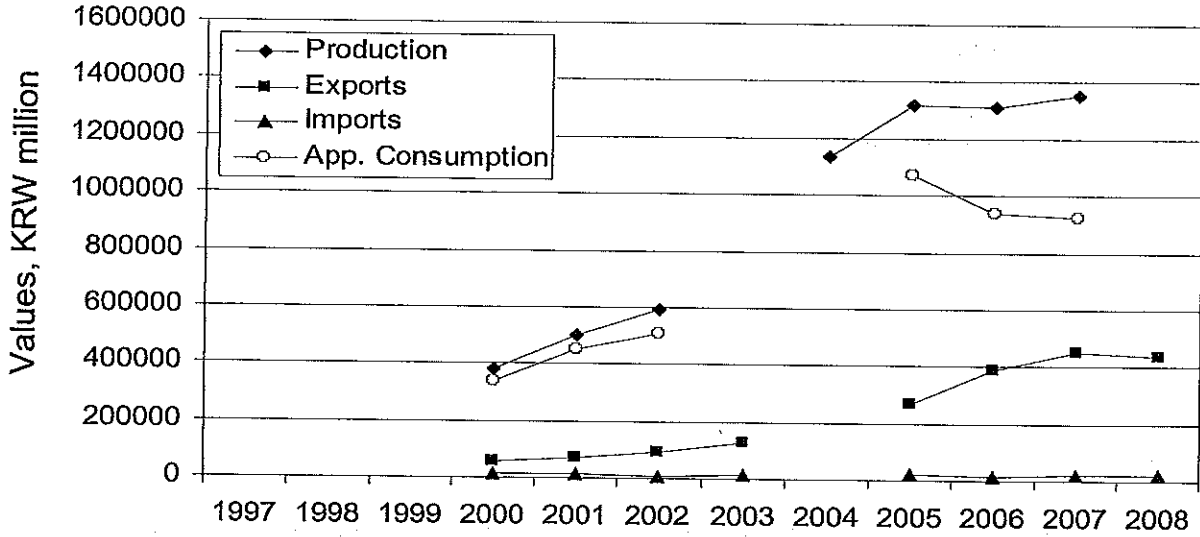


Korea – Die casting mould

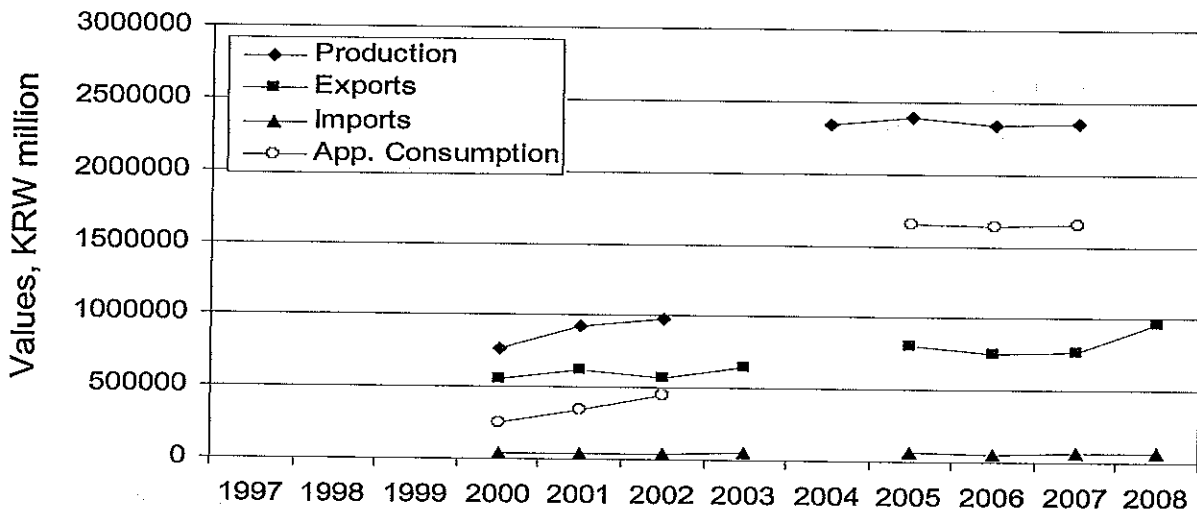


### 4.28. Korea (Won)

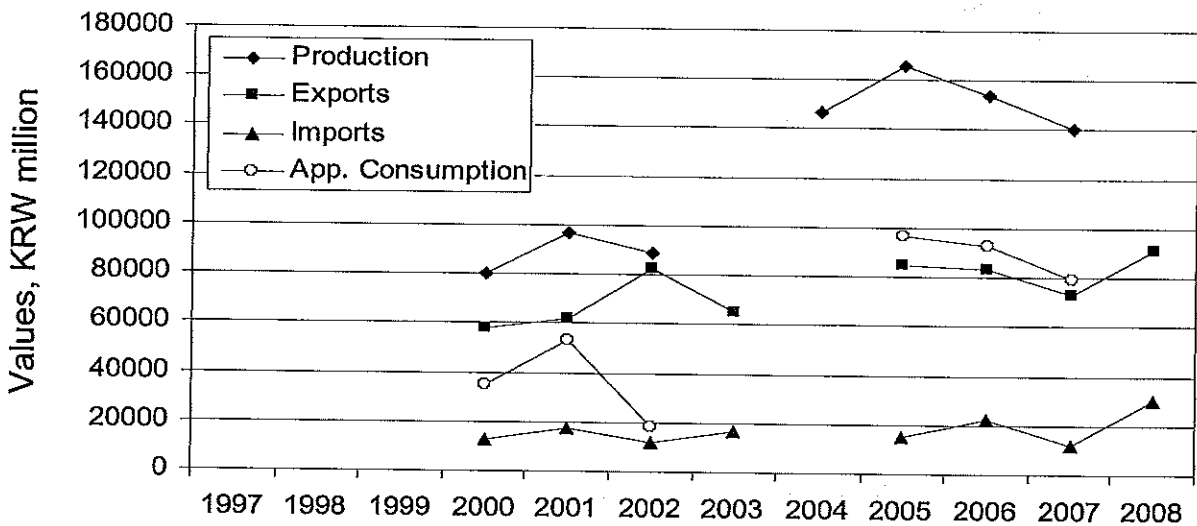
Korea - Tools for pressing, stamping, punching and forming



Korea - Injection and compression moulds for plastics and rubber

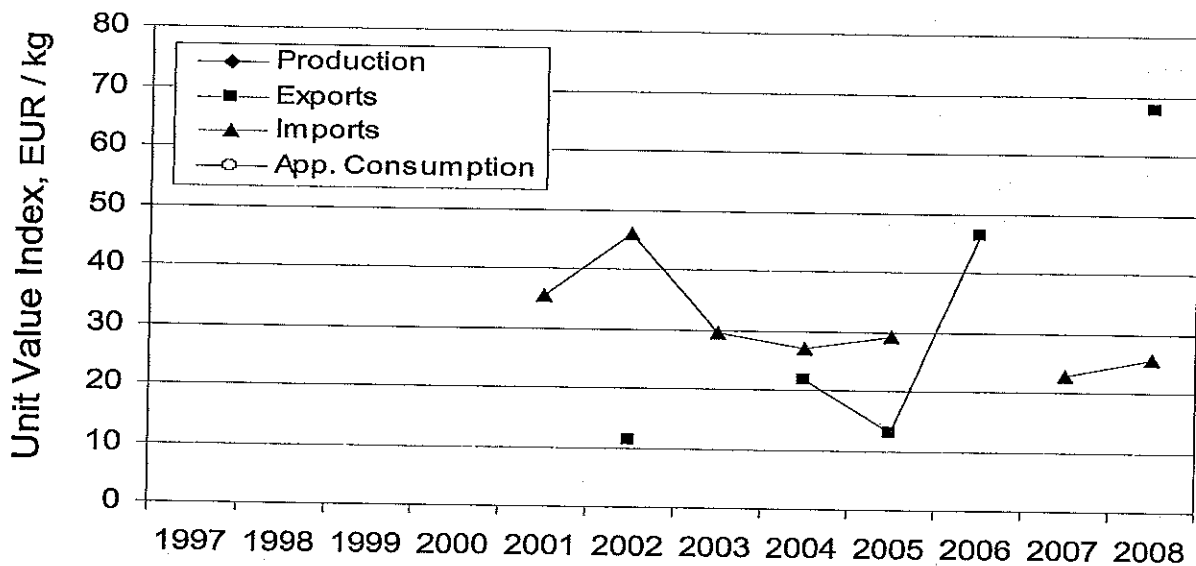
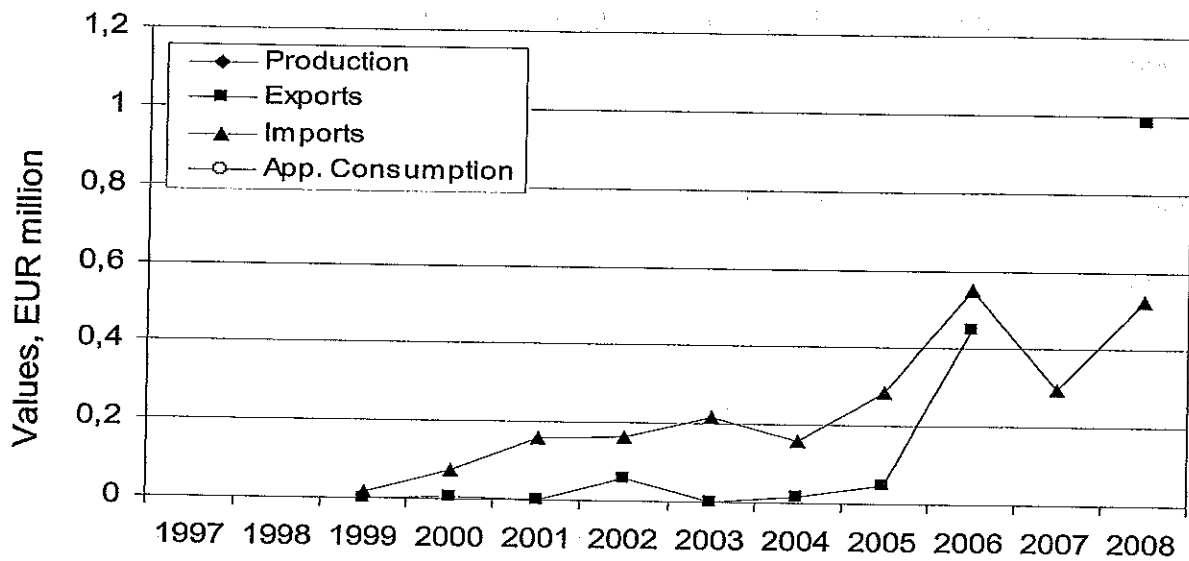
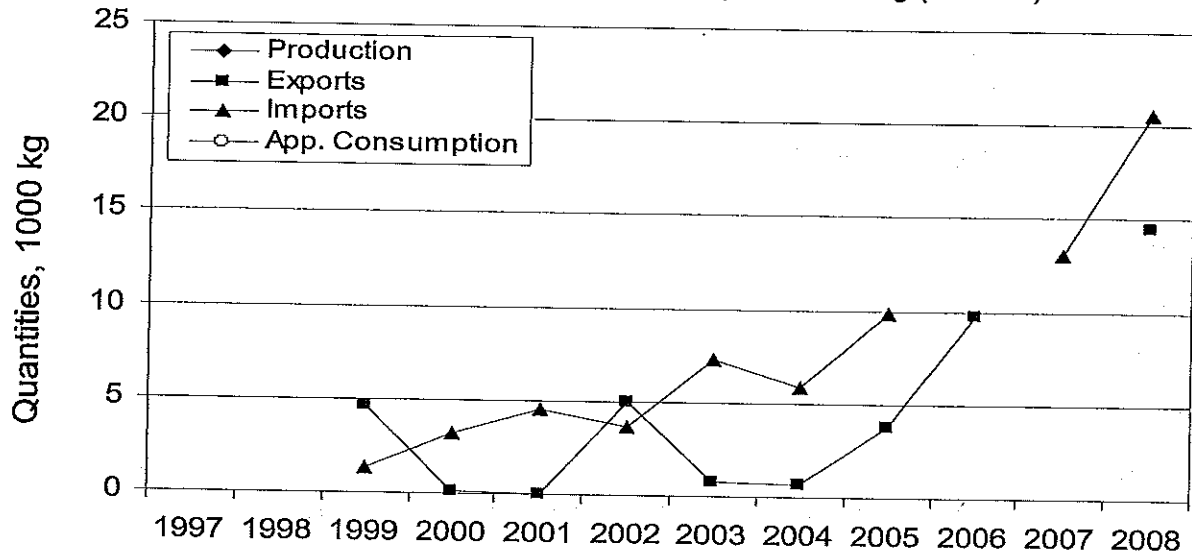


Korea - Die casting moulds

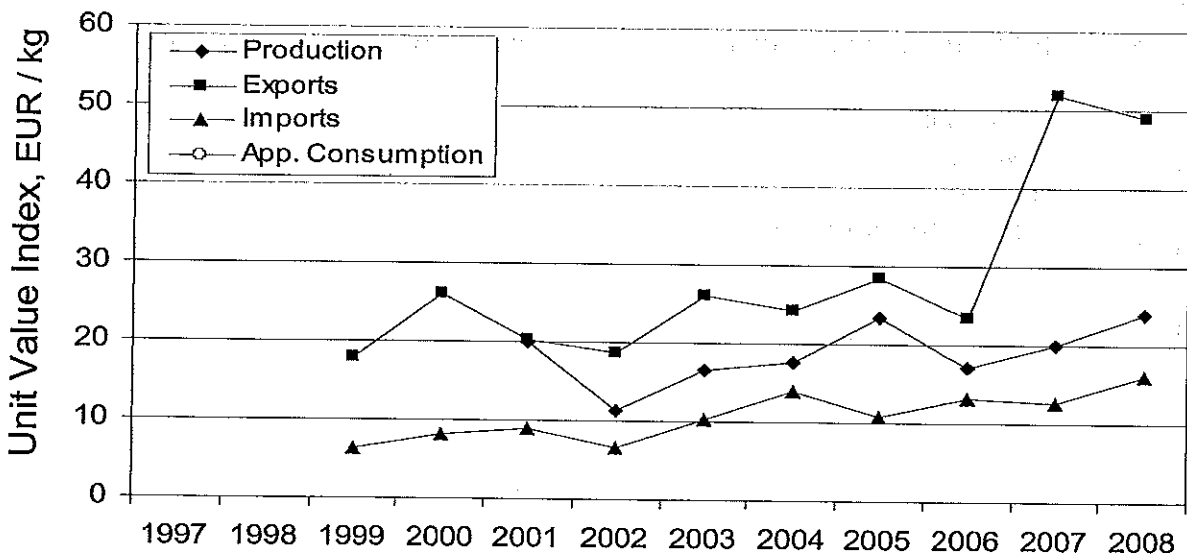
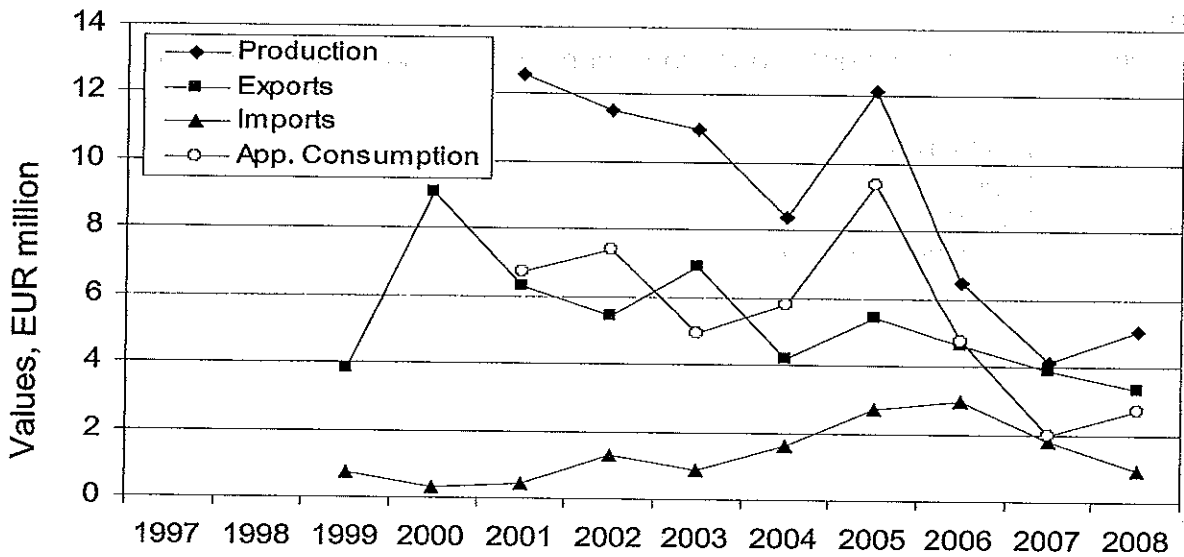
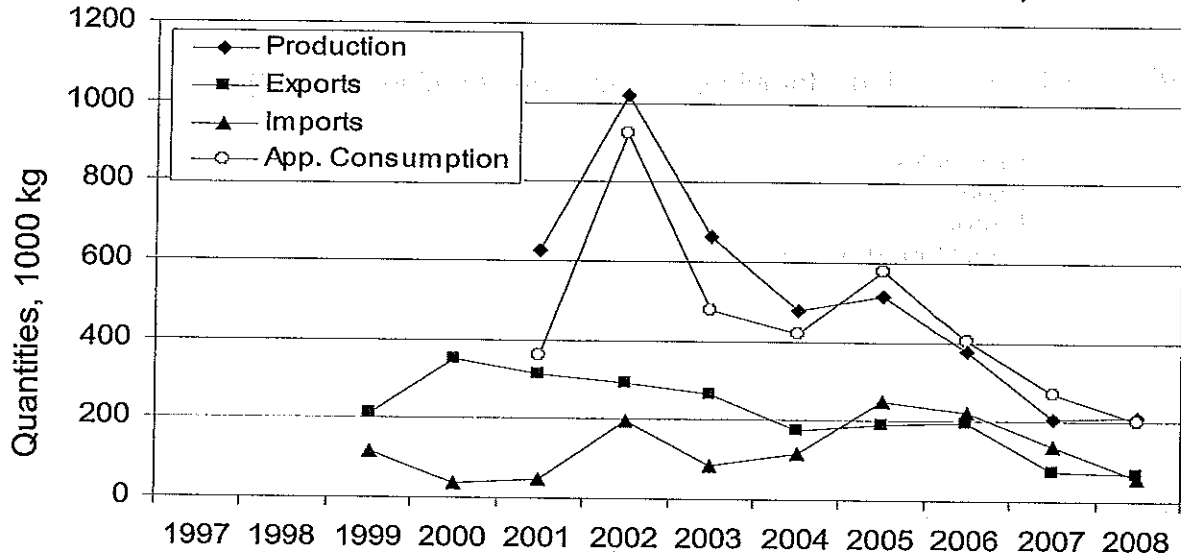


### 4.29. Latvia (EUR)

Latvia - Tools for pressing, stamping, punching and forming (820730)

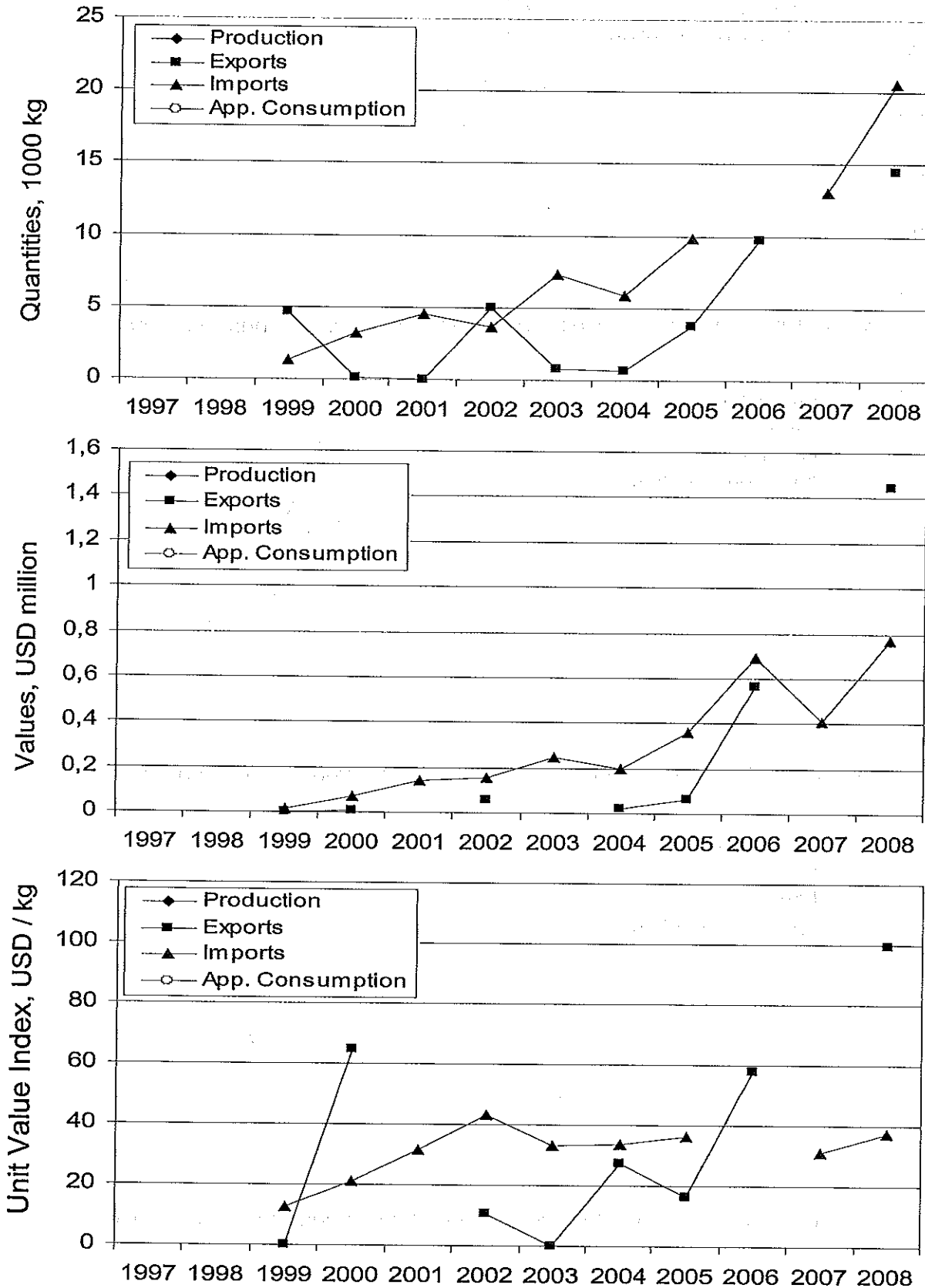


Latvia - Injection and compression moulds for plastics (849071+848079)

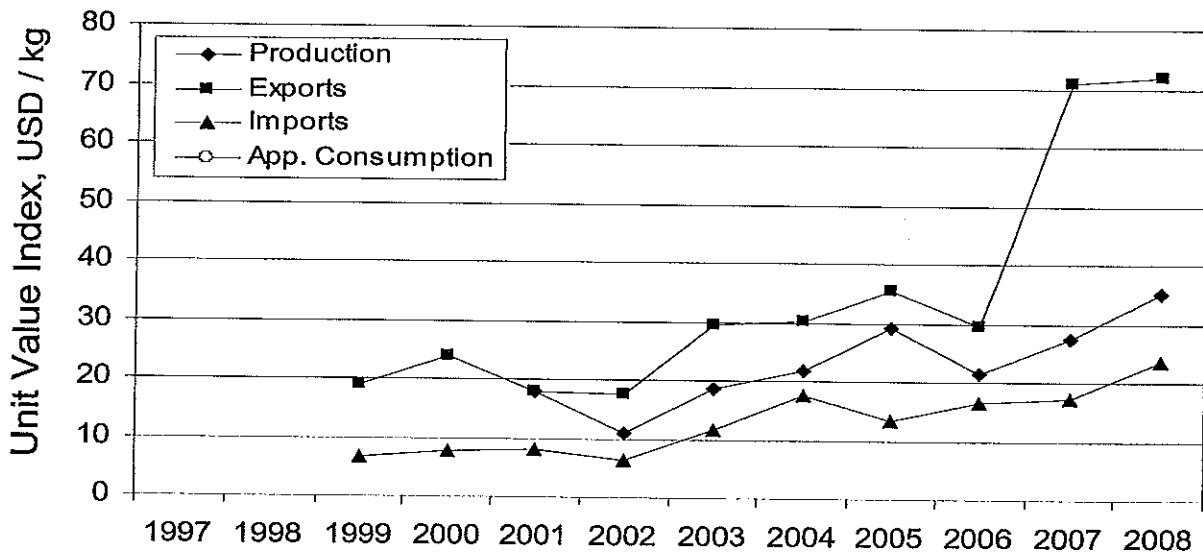
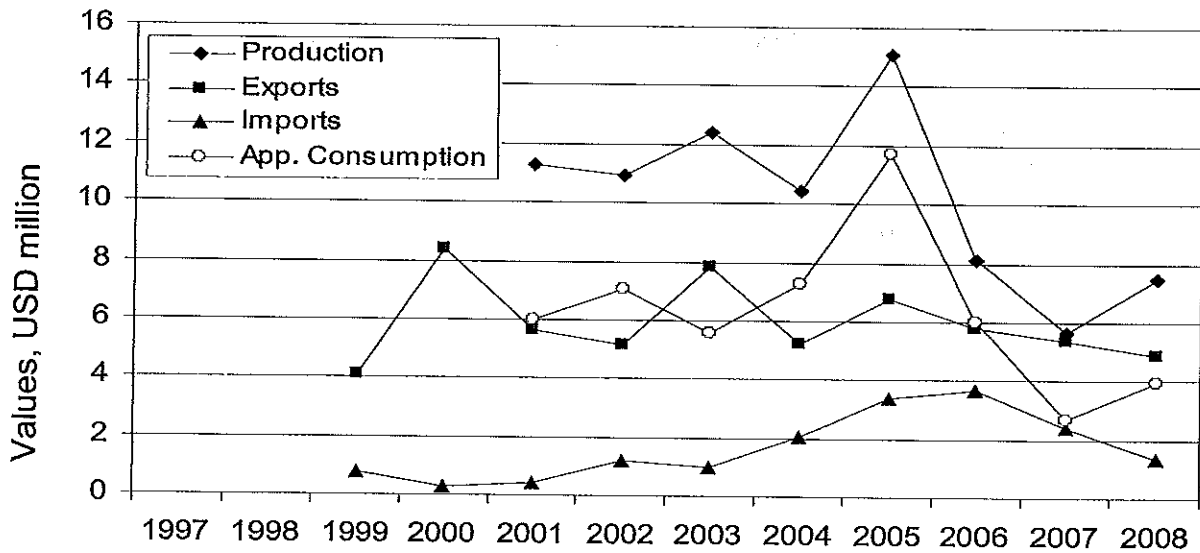
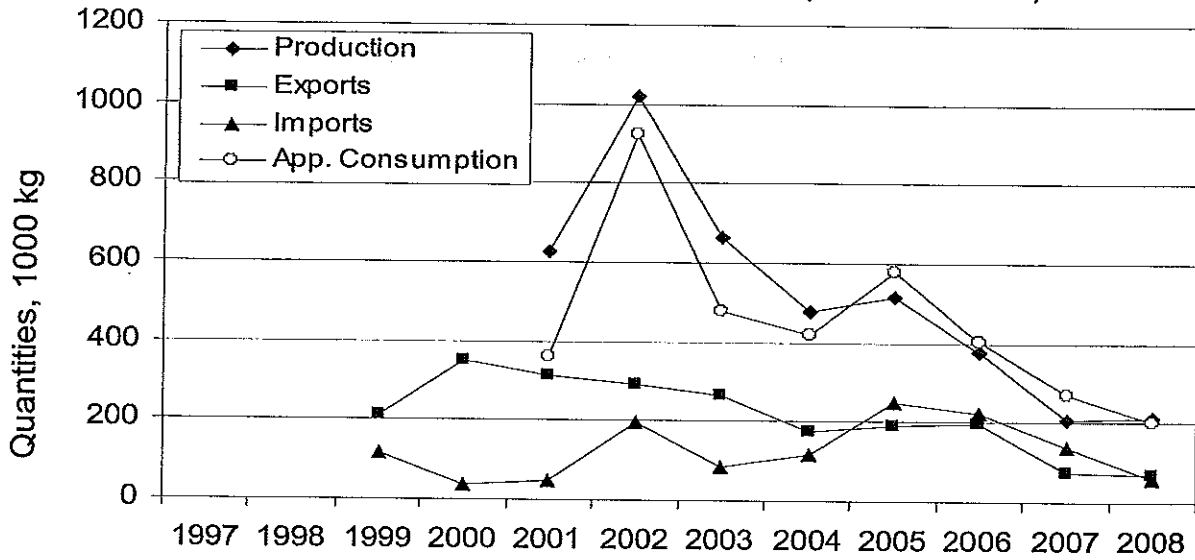


### 4.30. Latvia (USD)

Latvia - Tools for pressing, stamping, punching and forming (820730)

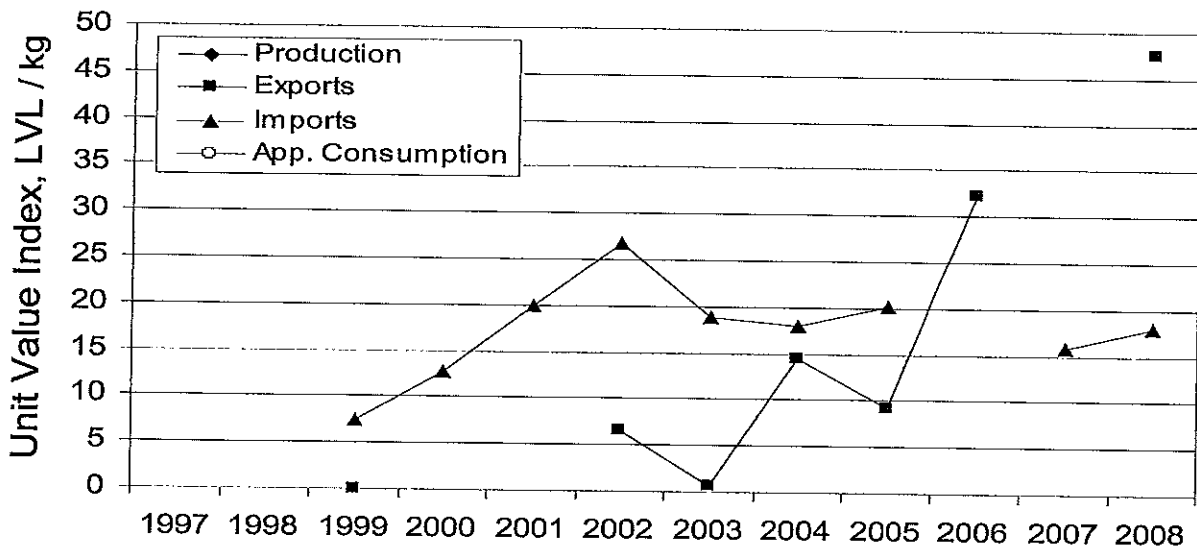
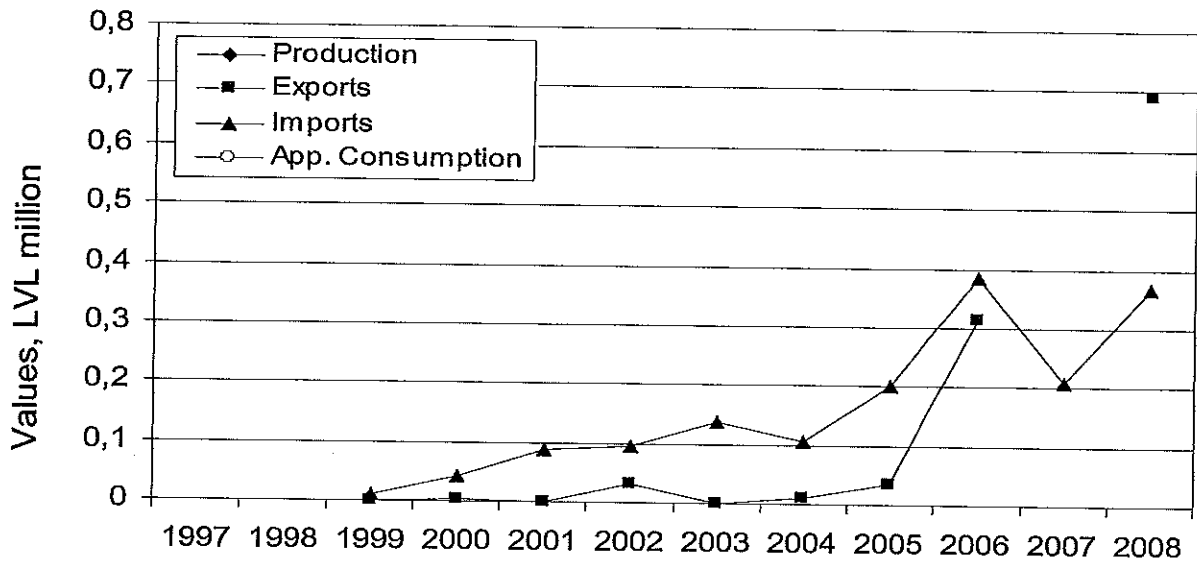
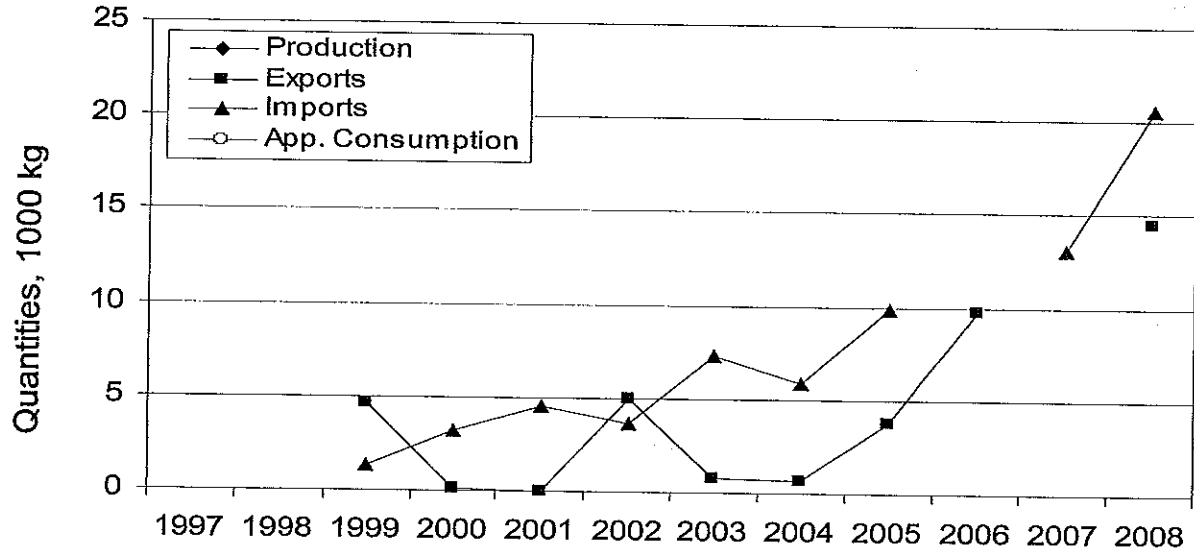


Latvia - Injection and compression moulds for plastics (849071+848079)

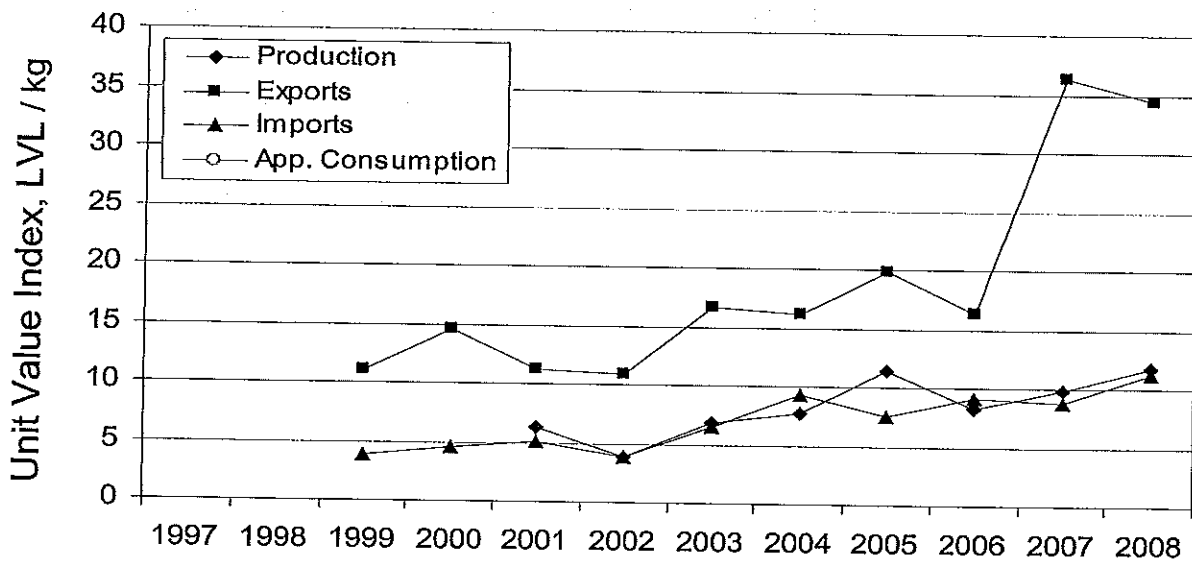
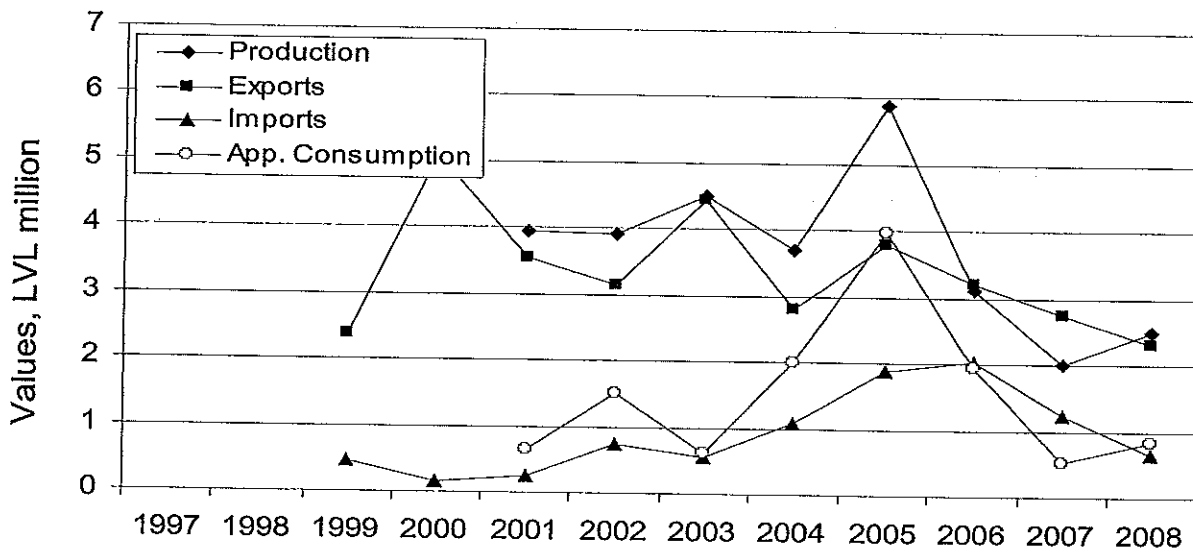
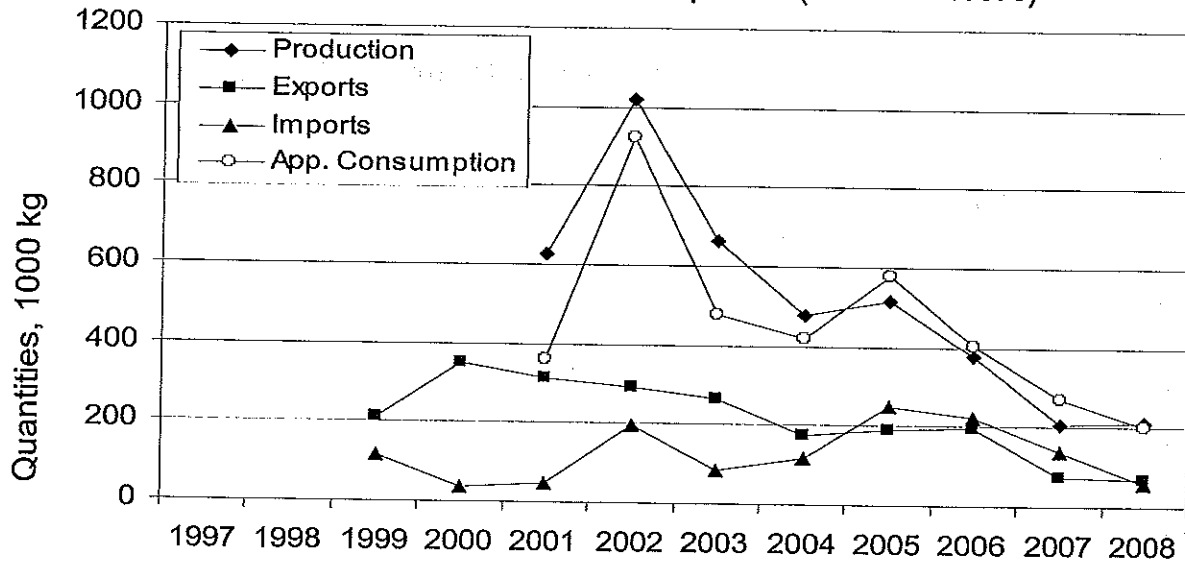


### 4.31. Latvia (Lats)

Latvia - Tools for pressing, stamping, punching and forming (820730)

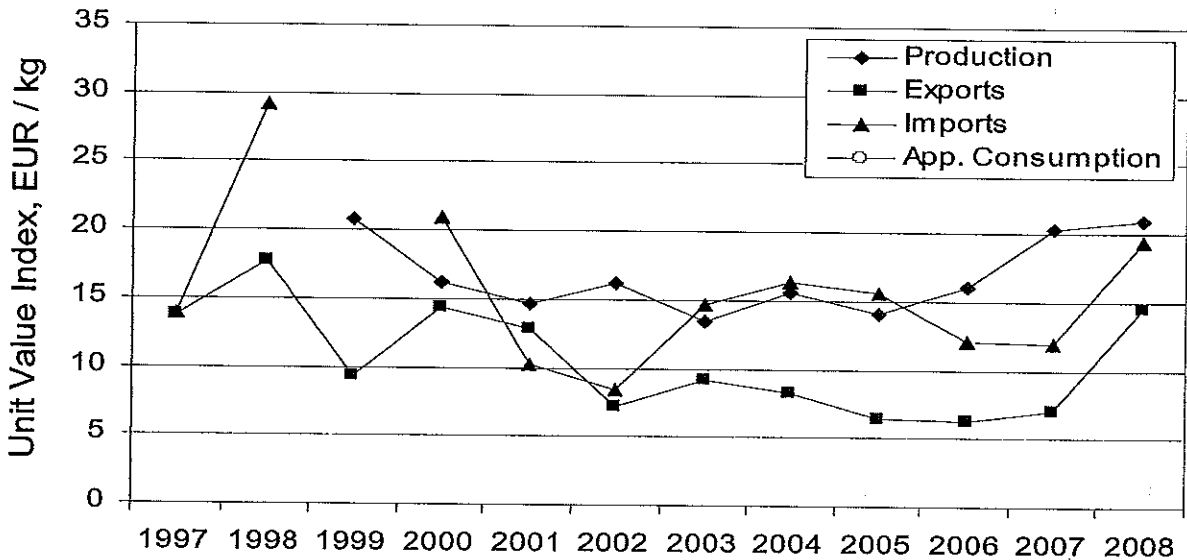
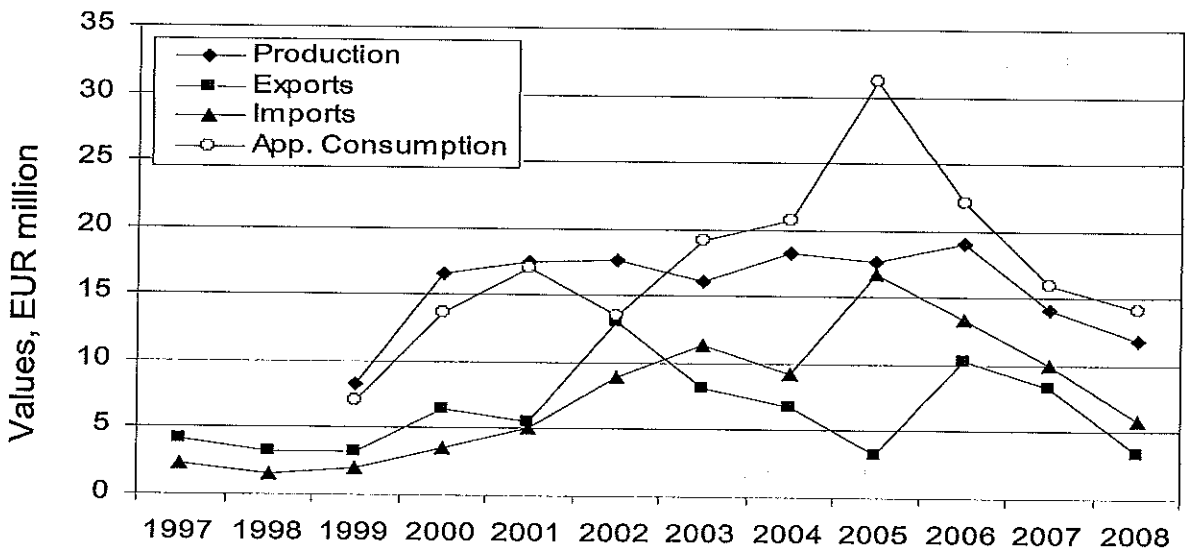
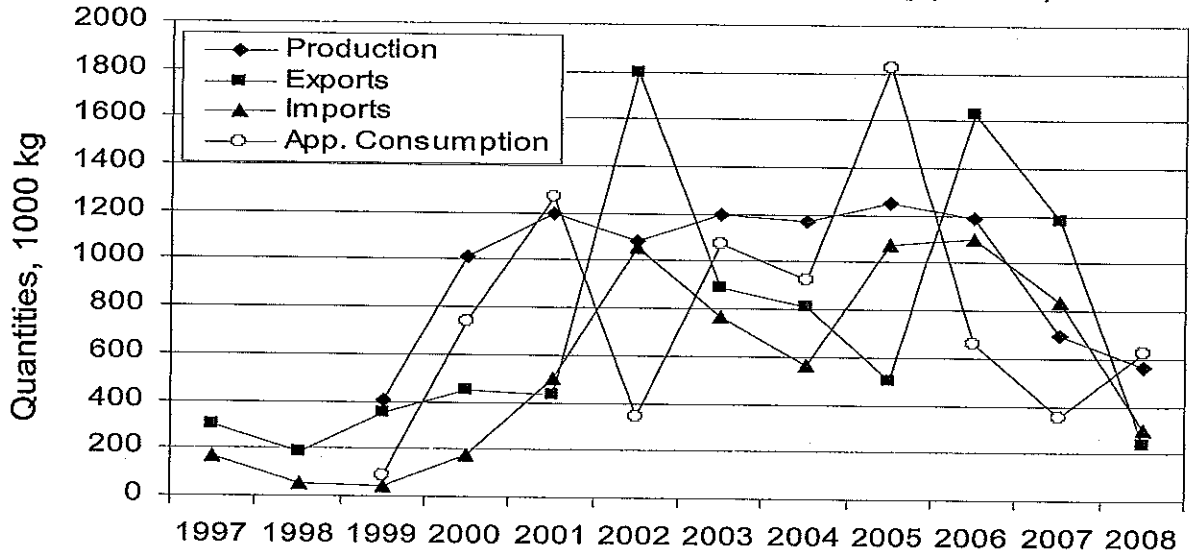


Latvia - Injection and compression moulds for plastics (849071+848079)

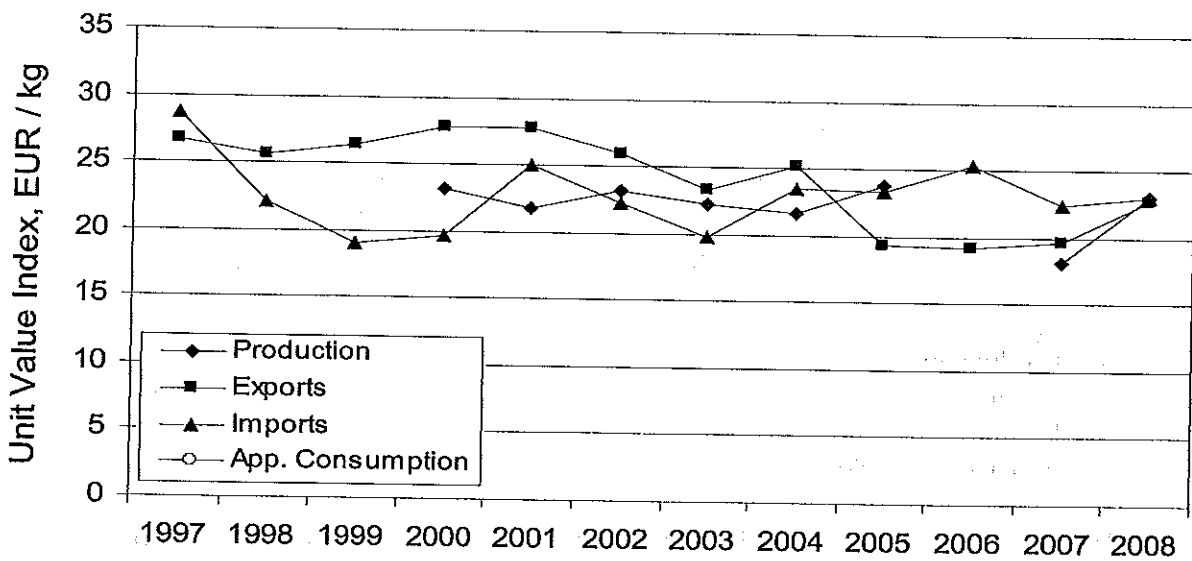
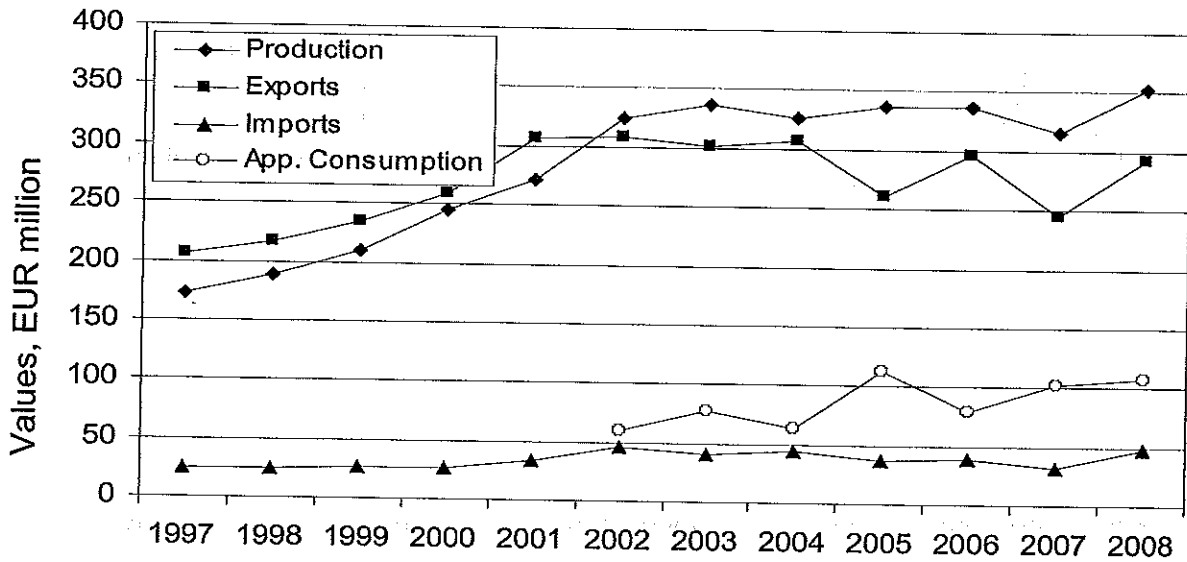
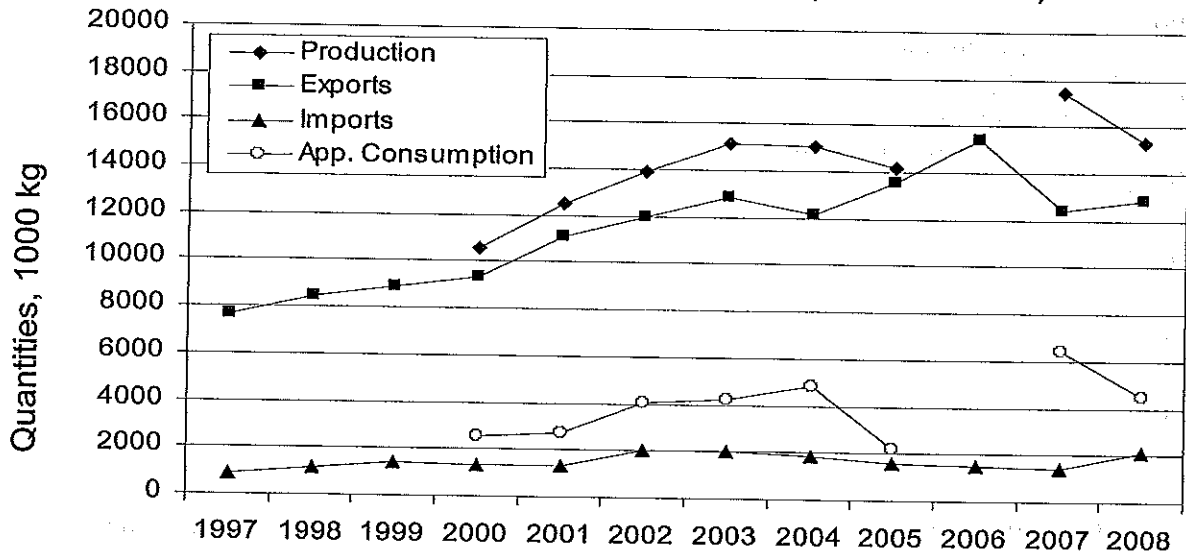


### 4.32. Portugal (EUR)

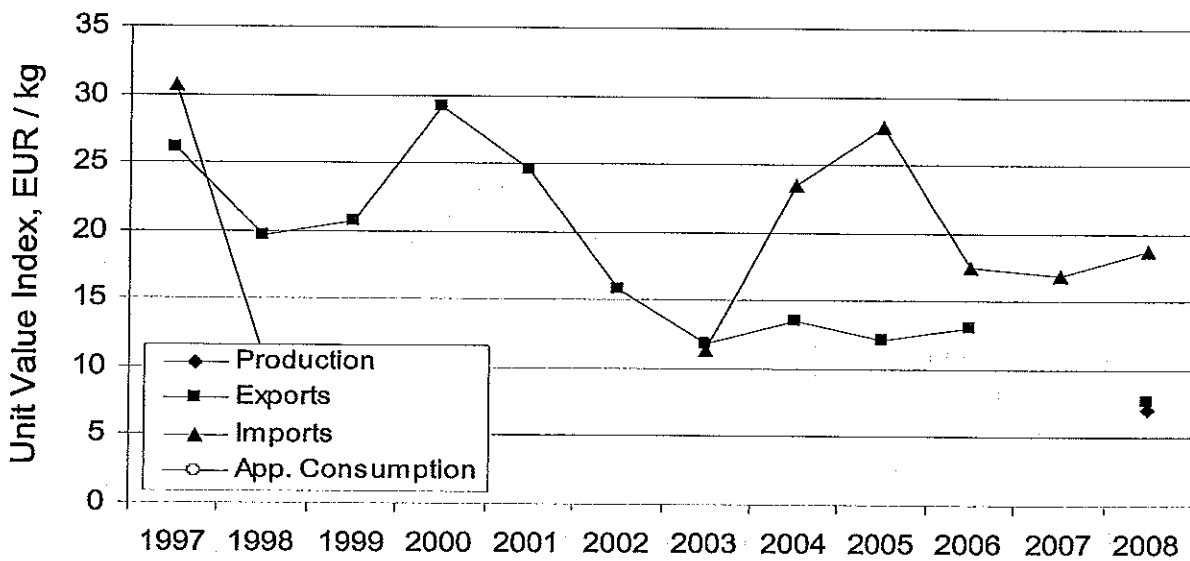
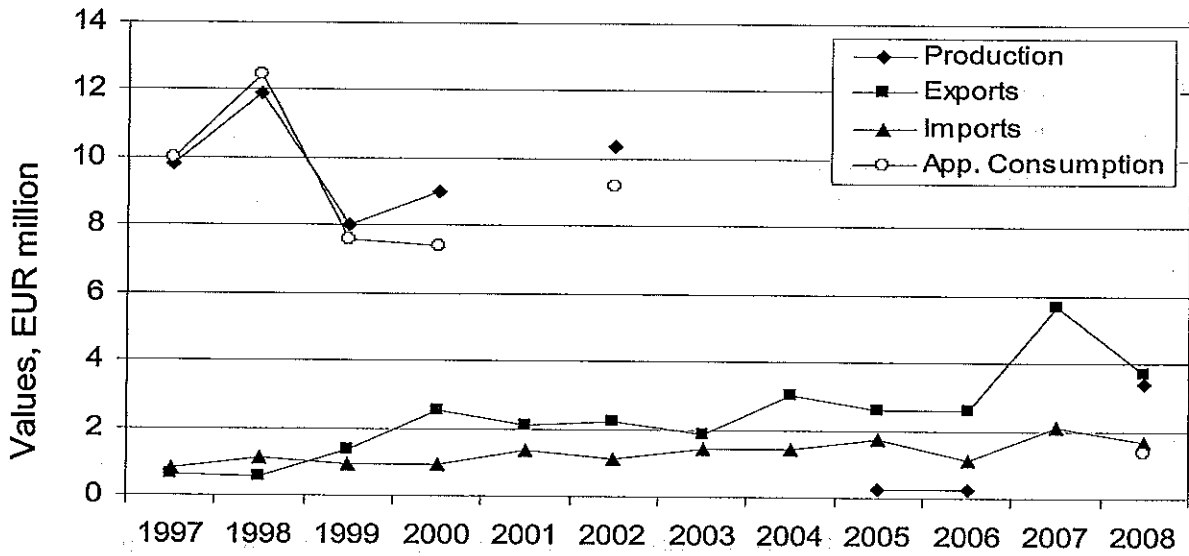
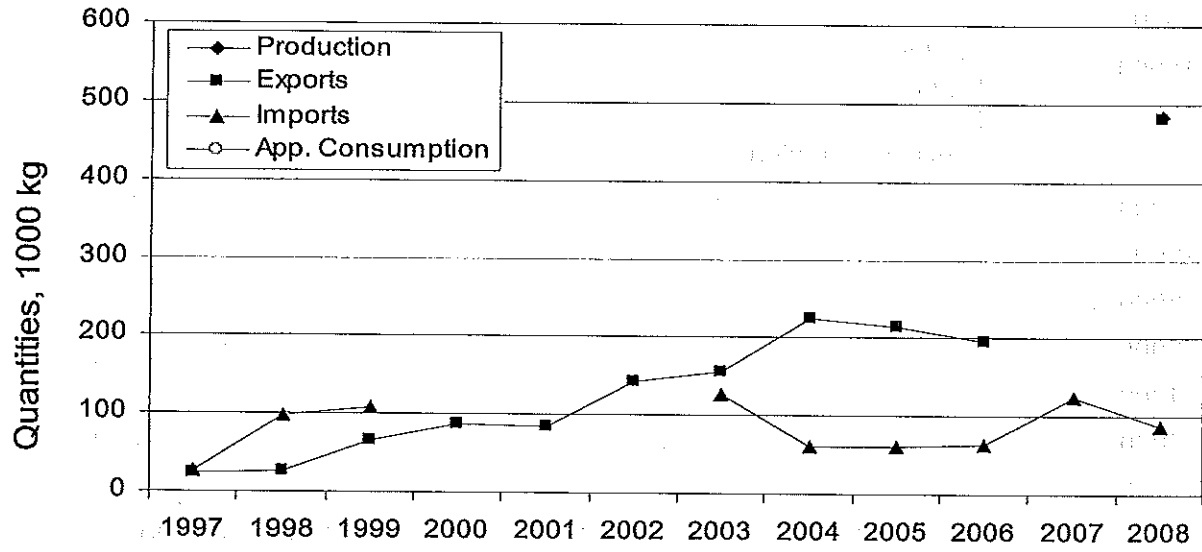
Portugal - Tools for pressing, stamping, punching and forming (820730)



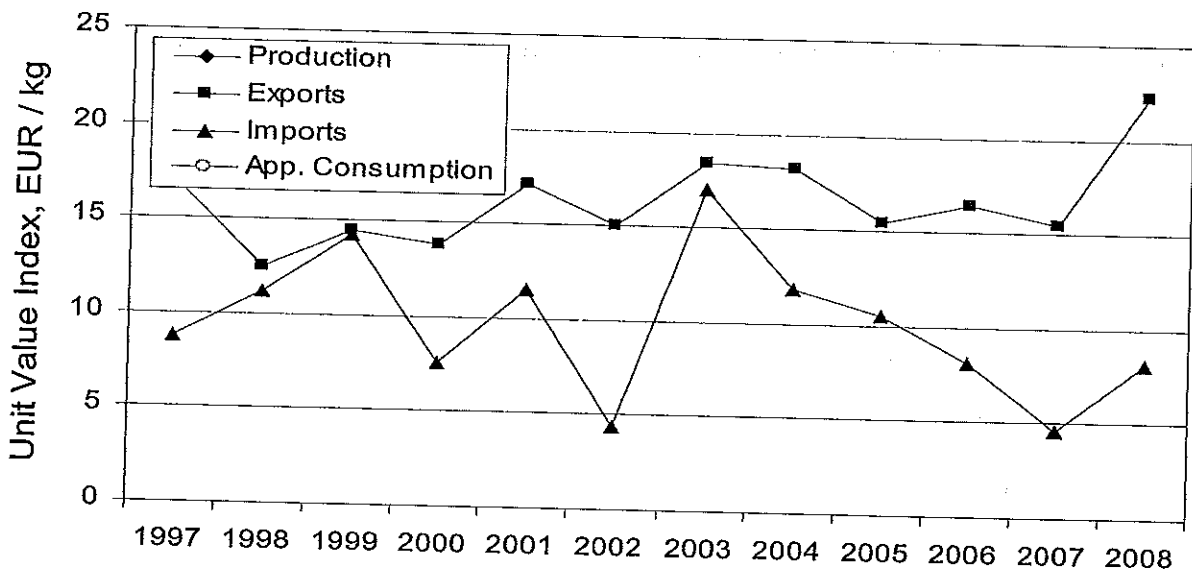
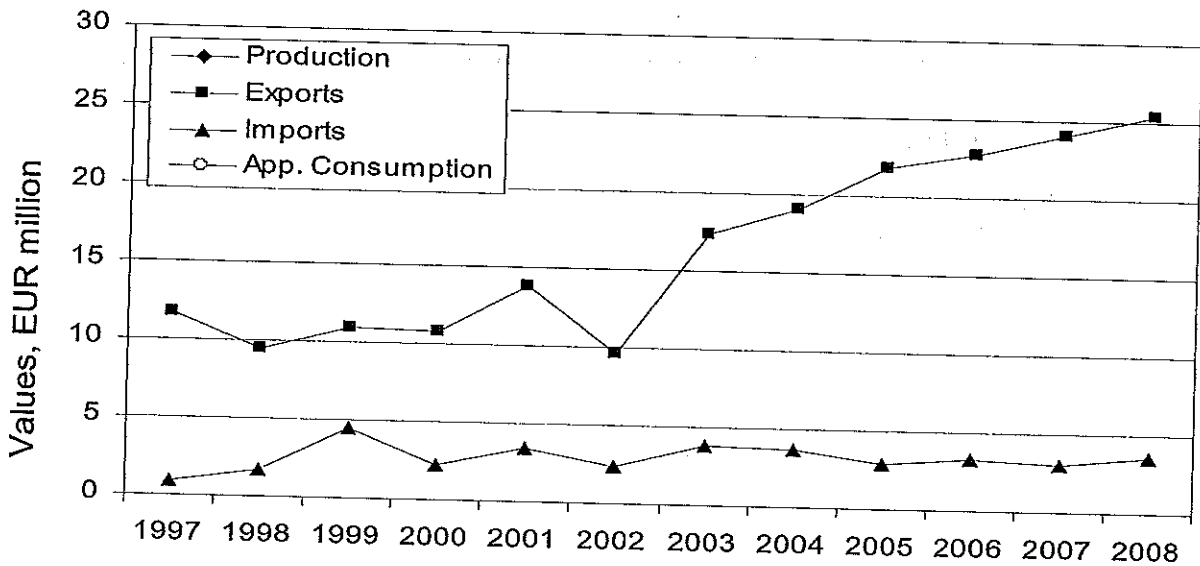
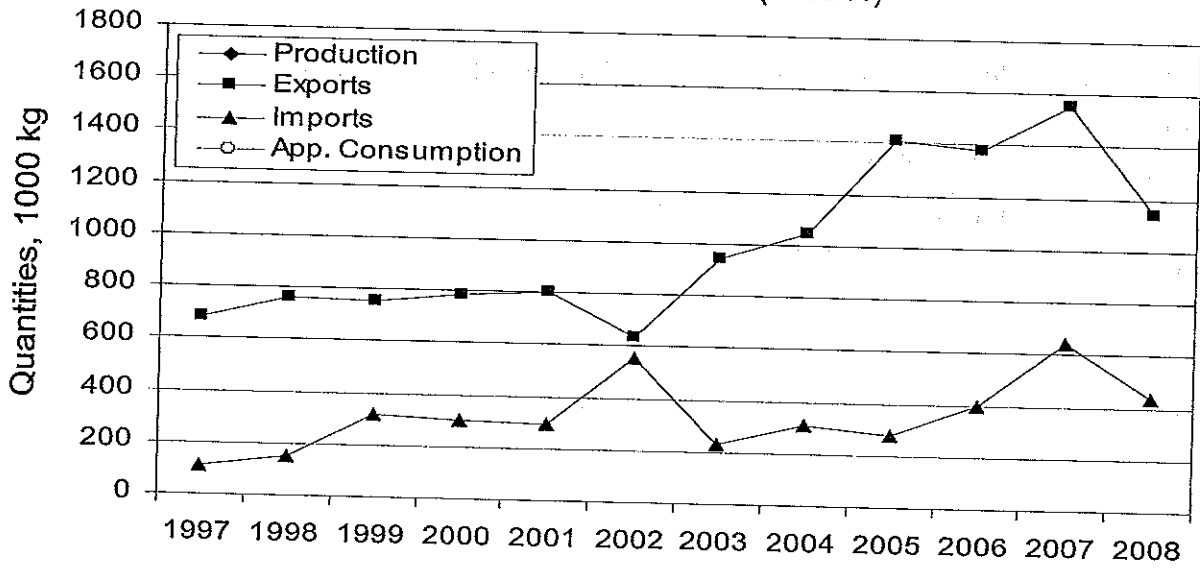
Portugal - Injection and compression moulds for plastics (849071+848079)



Portugal - Mould tools for metal or metal carbides excluding injection(848049)

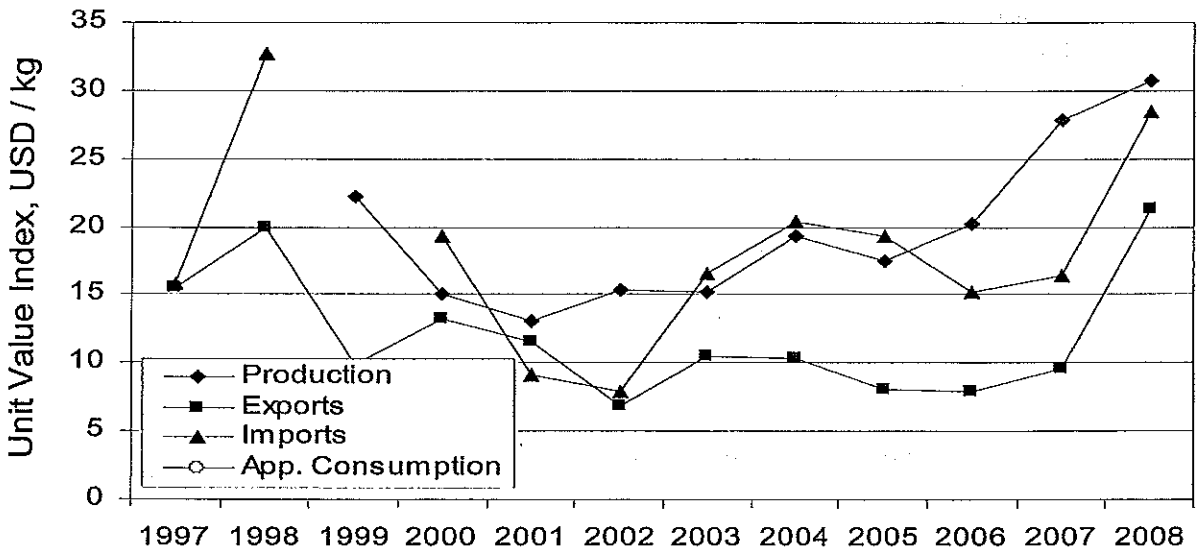
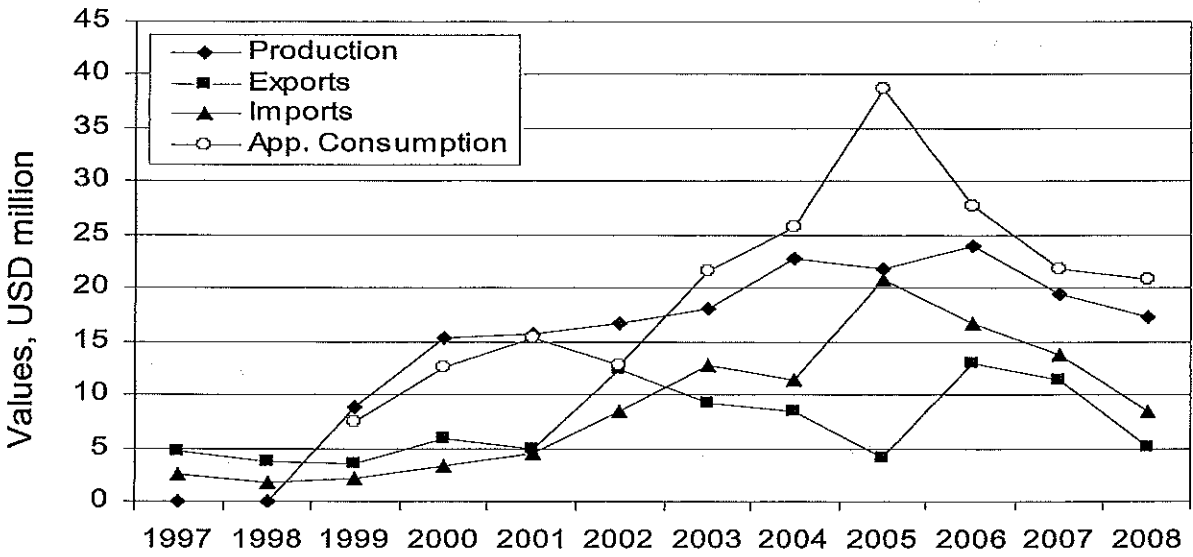
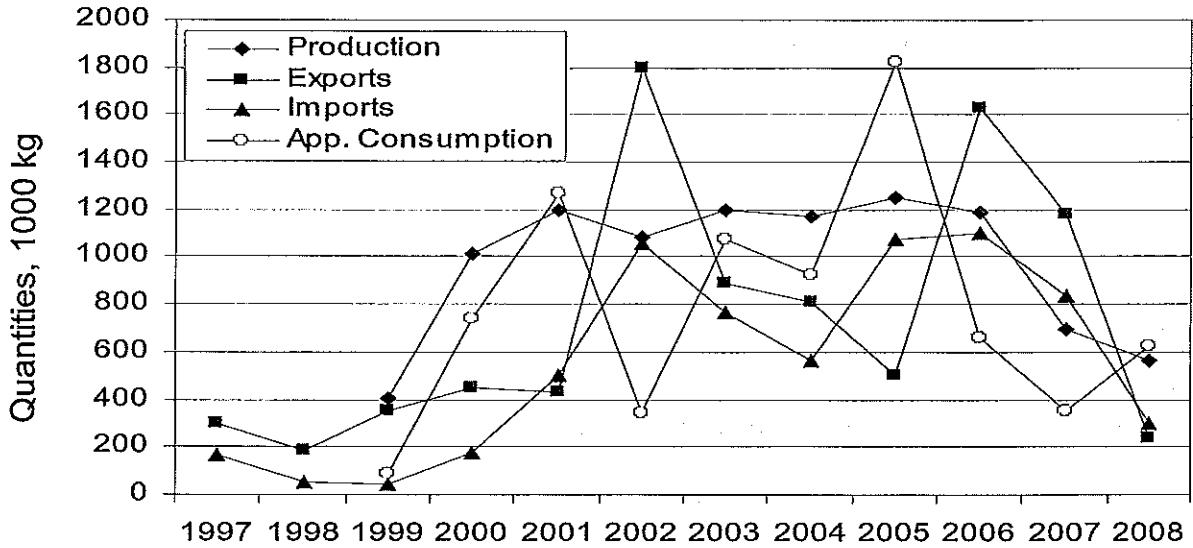


Portugal - Mould tools for metal or metal carbides (848041)

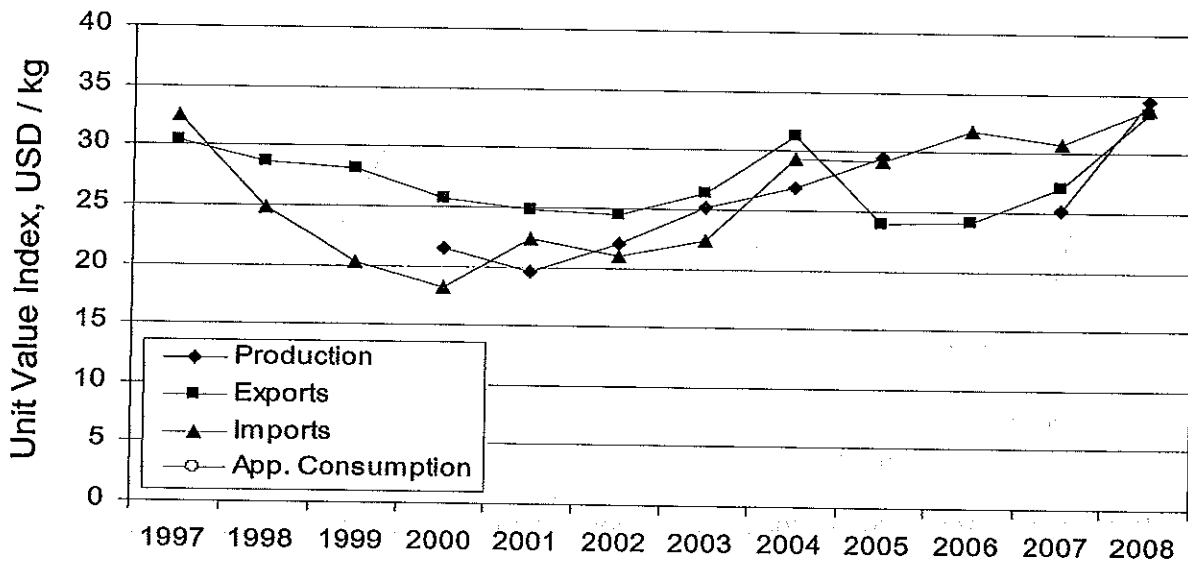
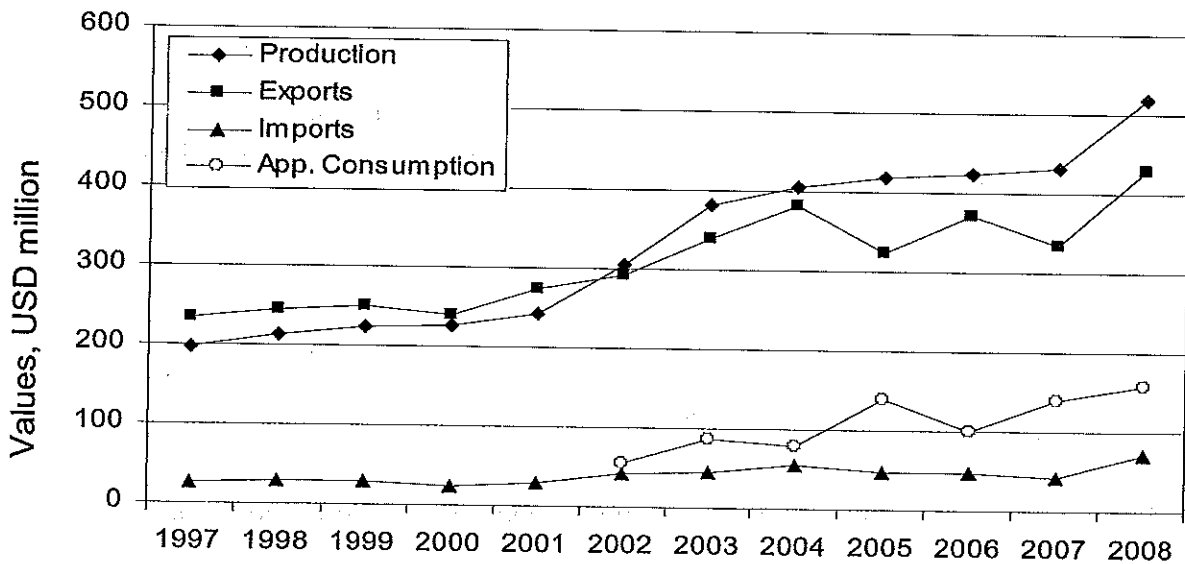
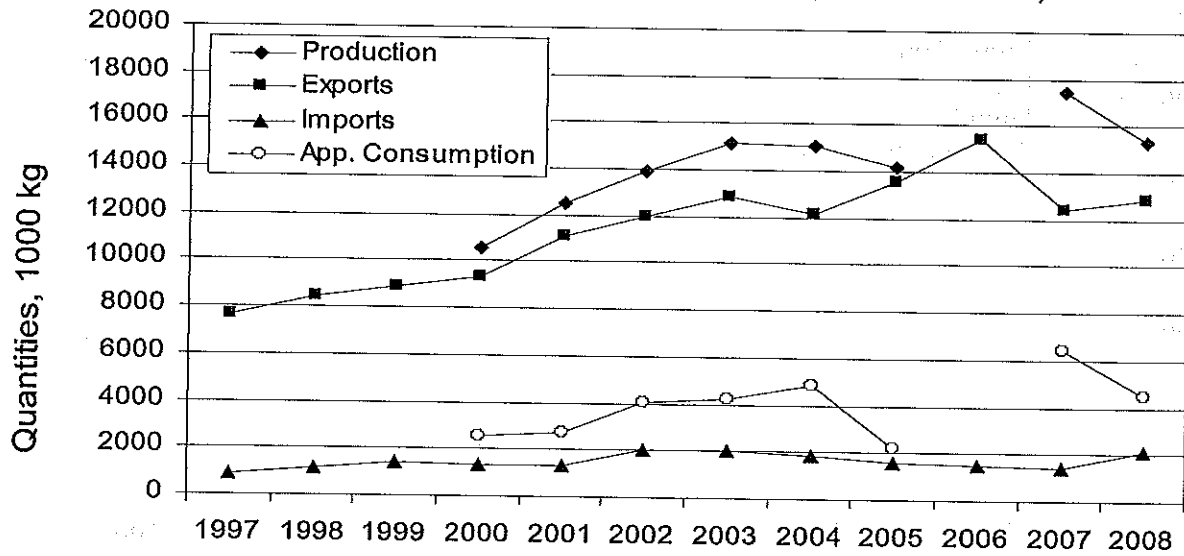


### 4.33. Portugal (USD)

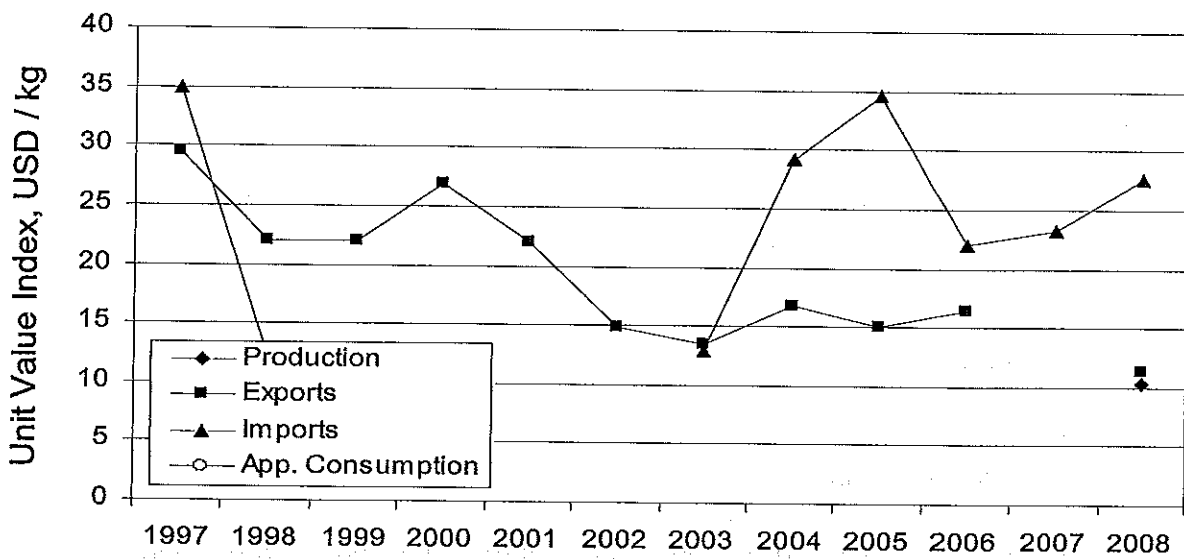
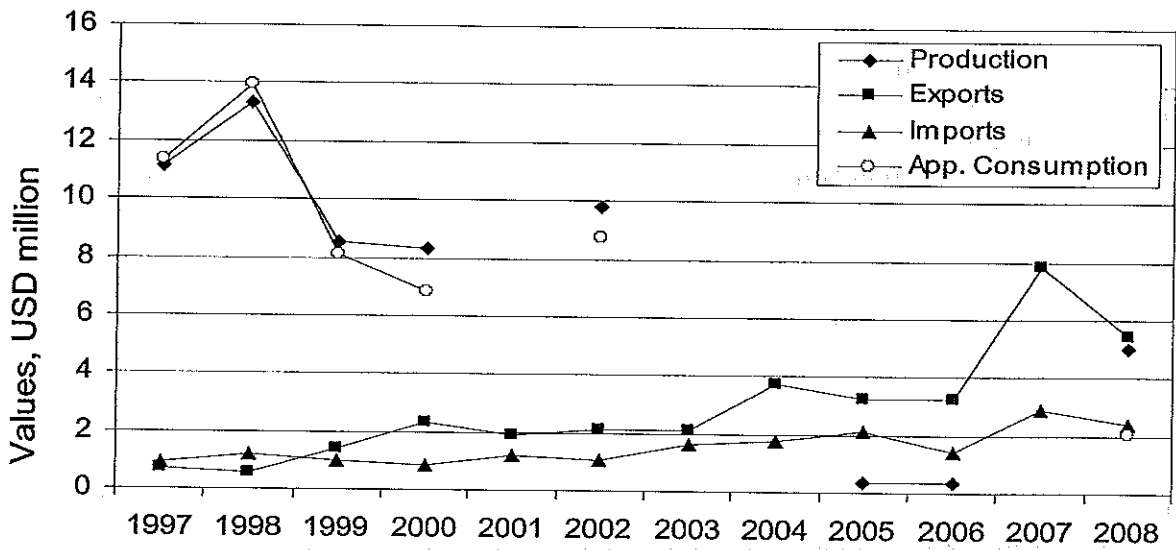
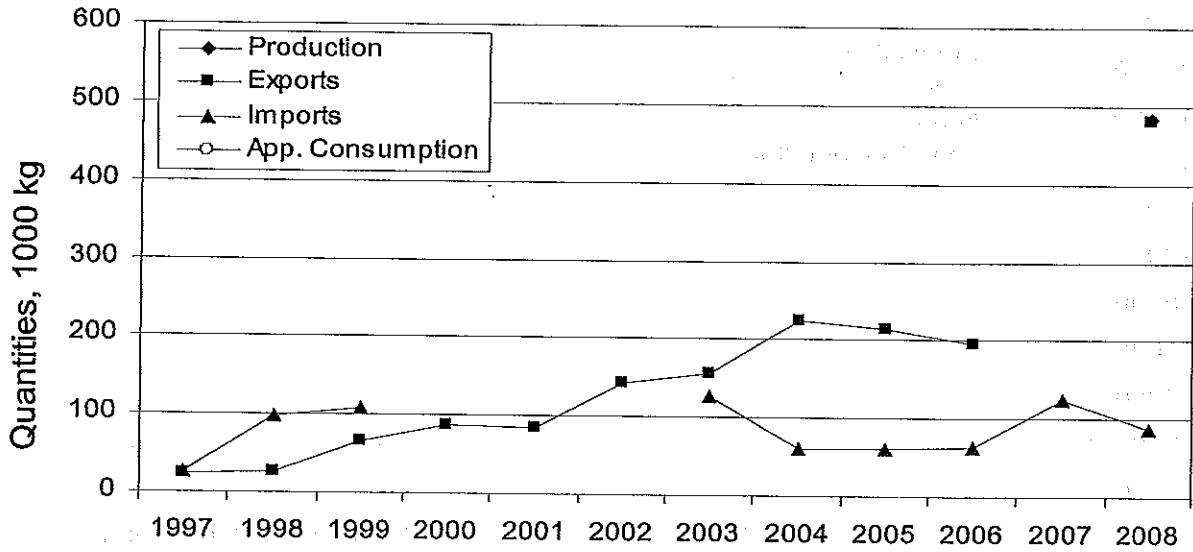
Portugal - Tools for pressing, stamping, punching and forming (820730)



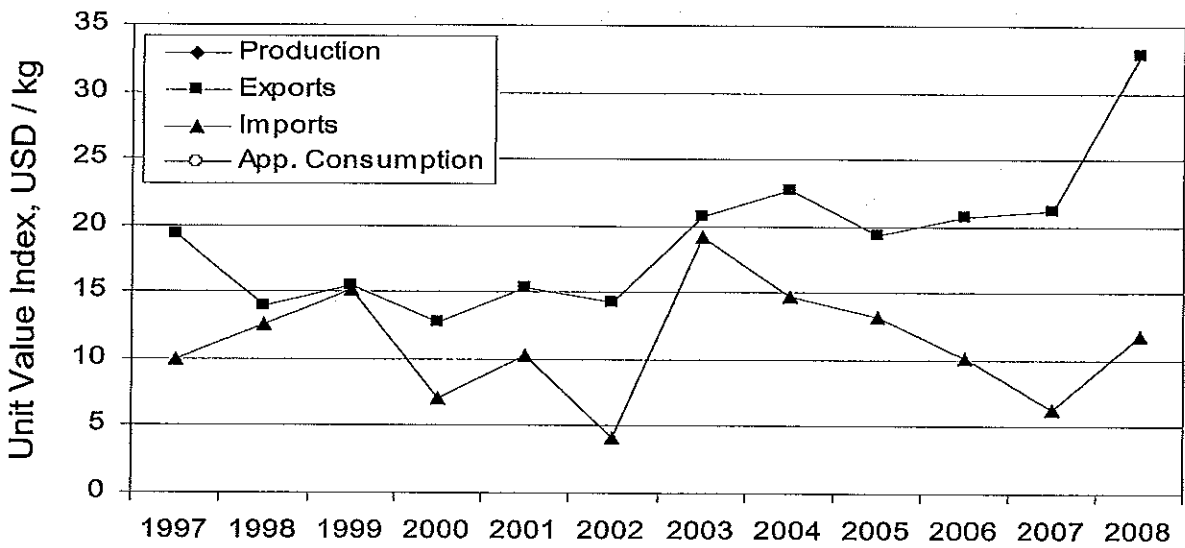
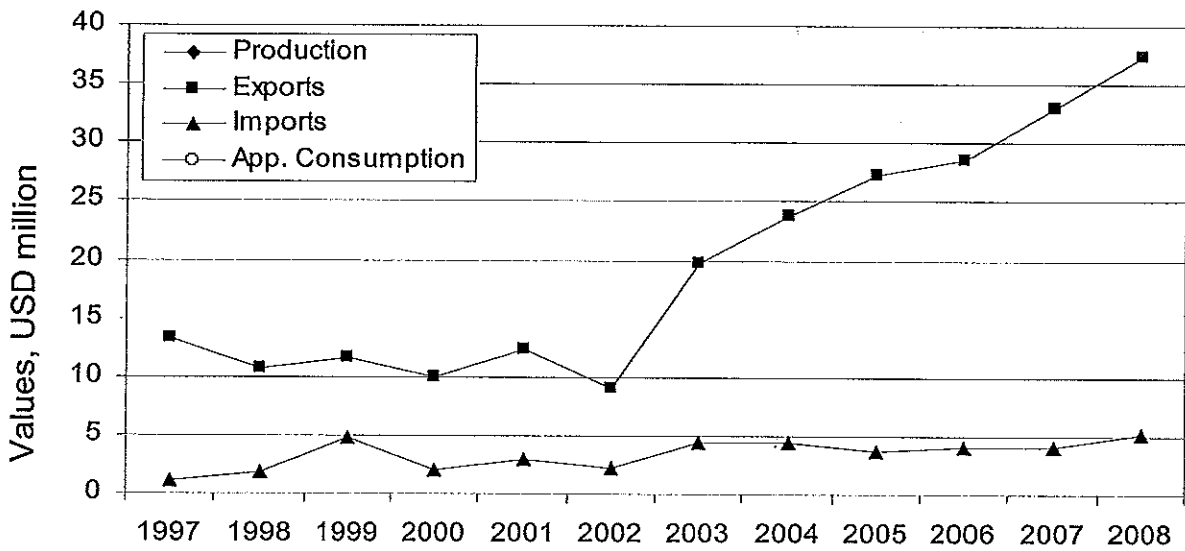
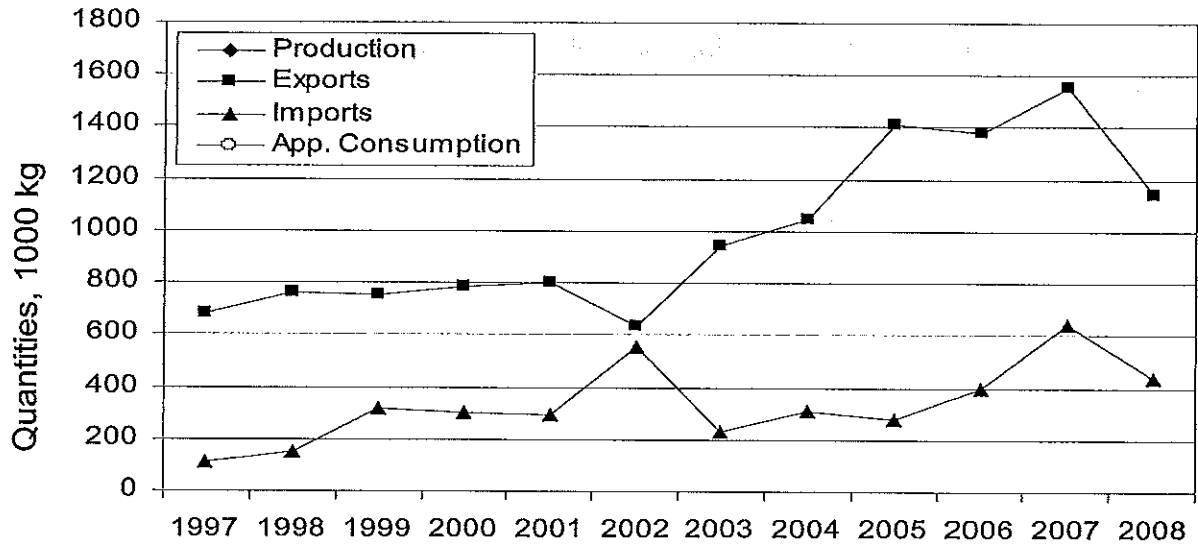
Portugal - Injection and compression moulds for plastics (849071+848079)



Portugal - Mould tools for metal or metal carbides excluding injection(848049)

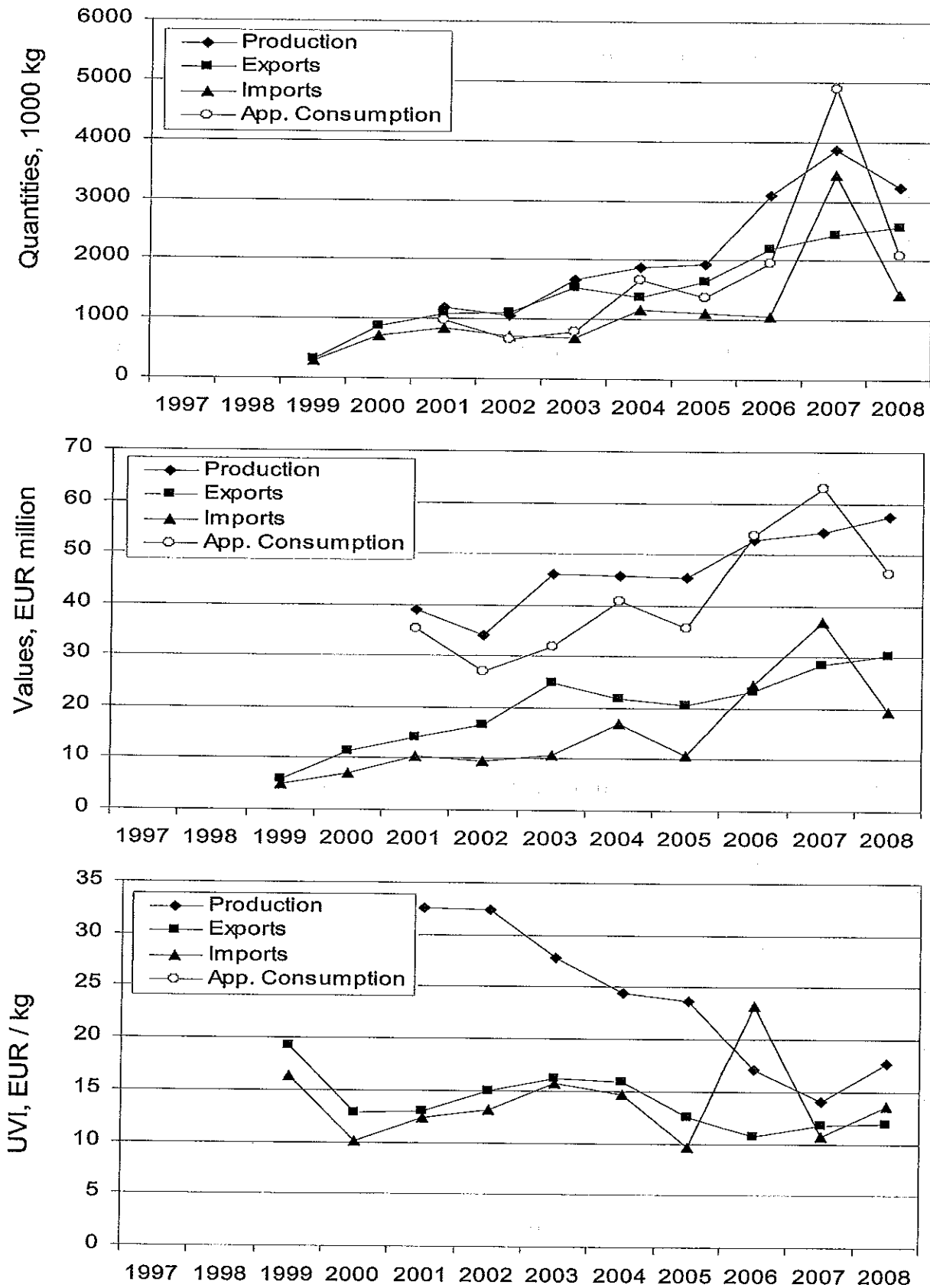


Portugal - Mould tools for metal or metal carbides (848041)

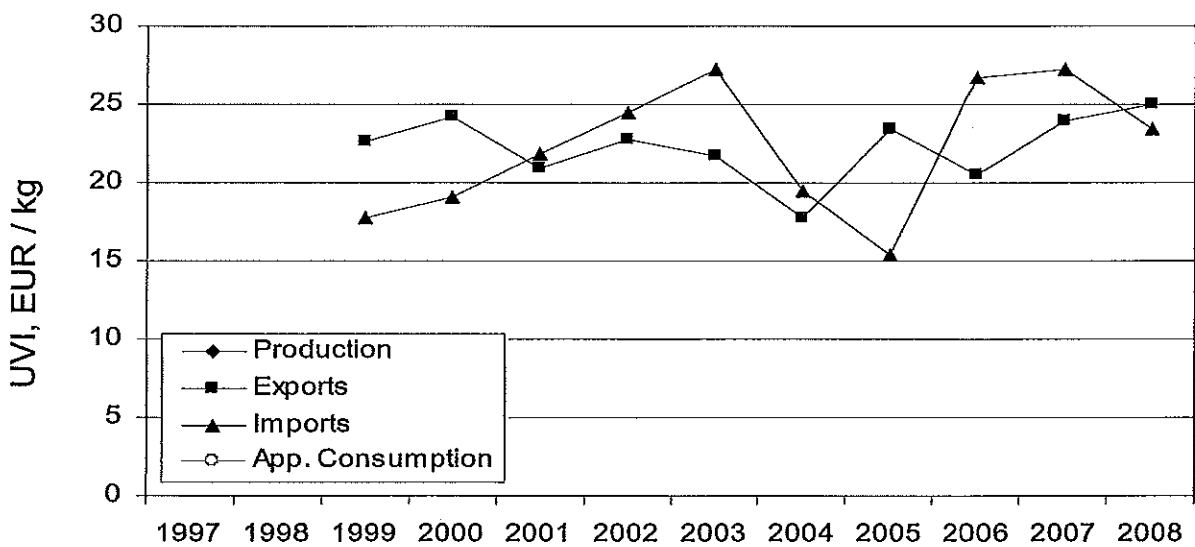
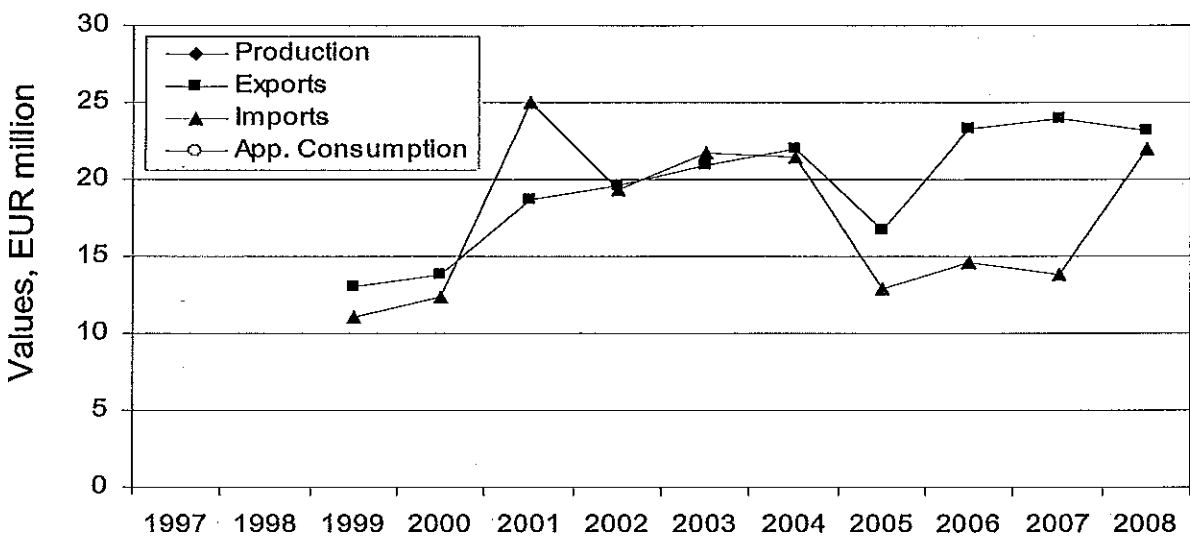
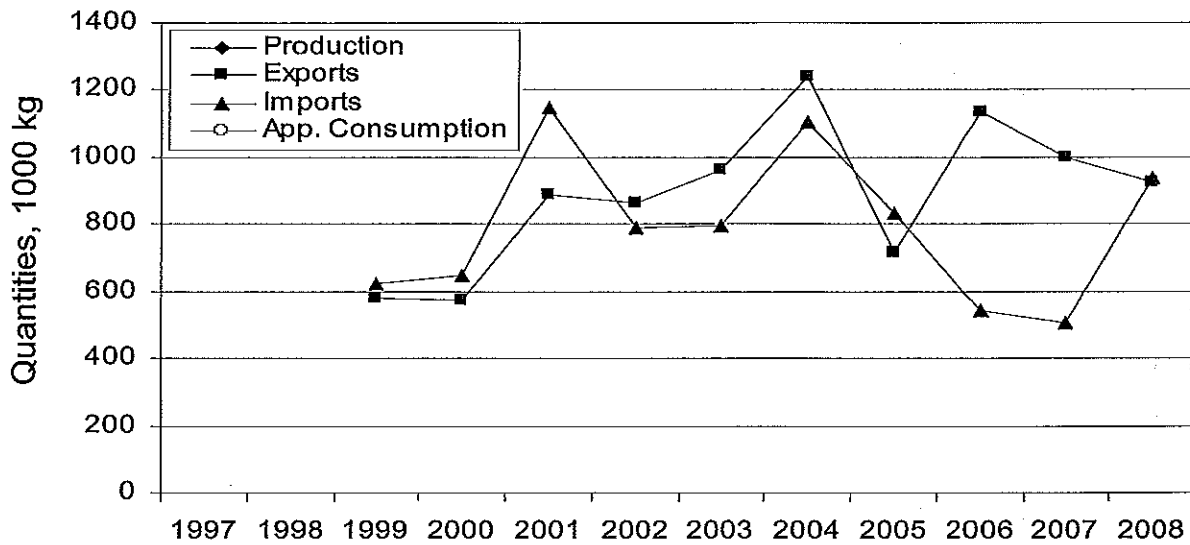


### 4.34. Slovenia (EUR)

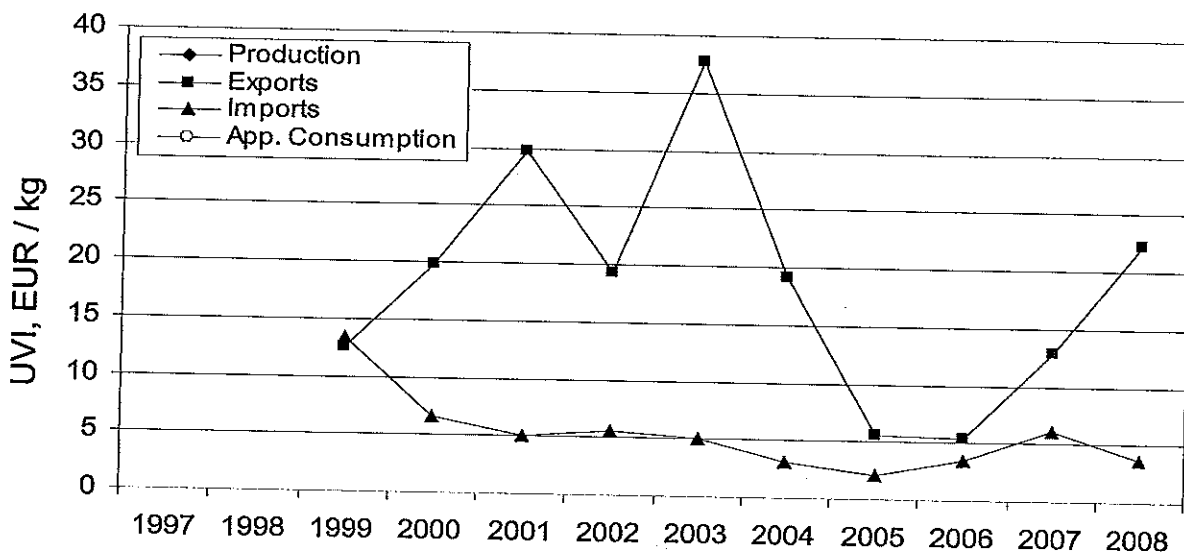
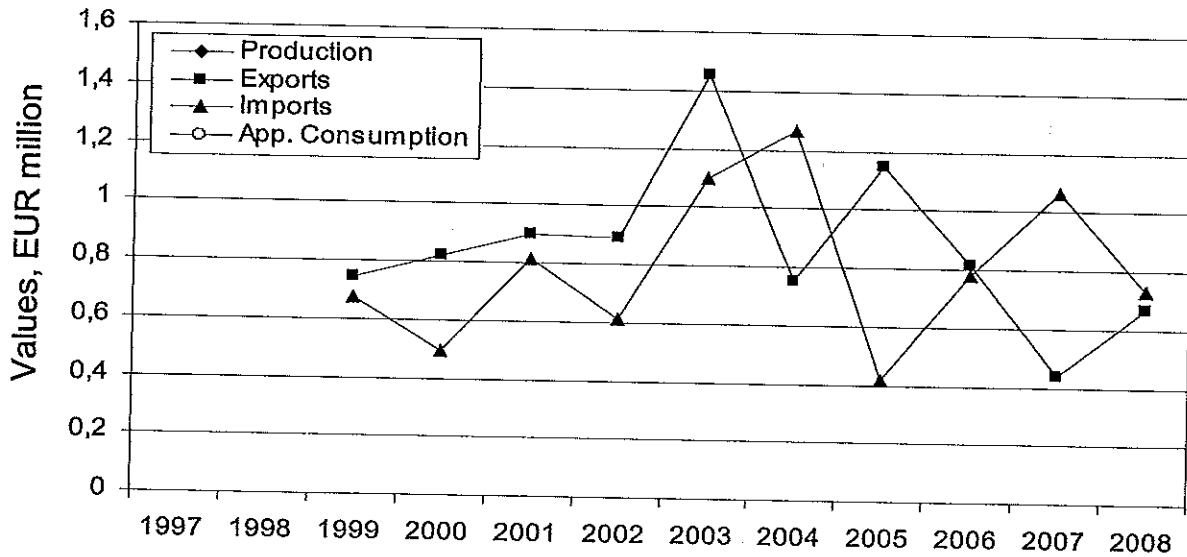
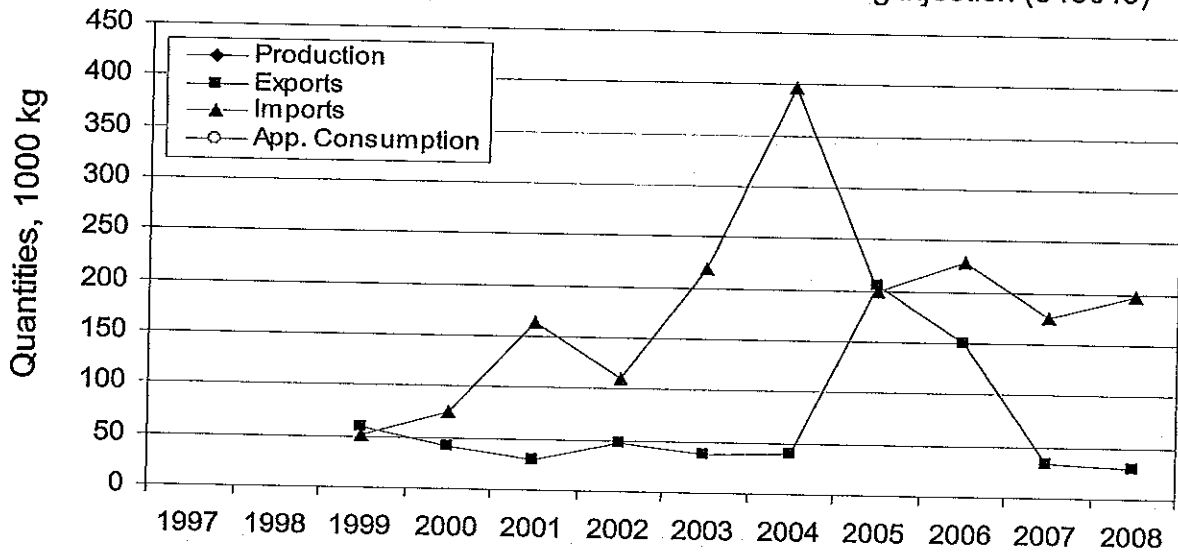
Slovenia - Tools for pressing, stamping, punching and forming (820730)



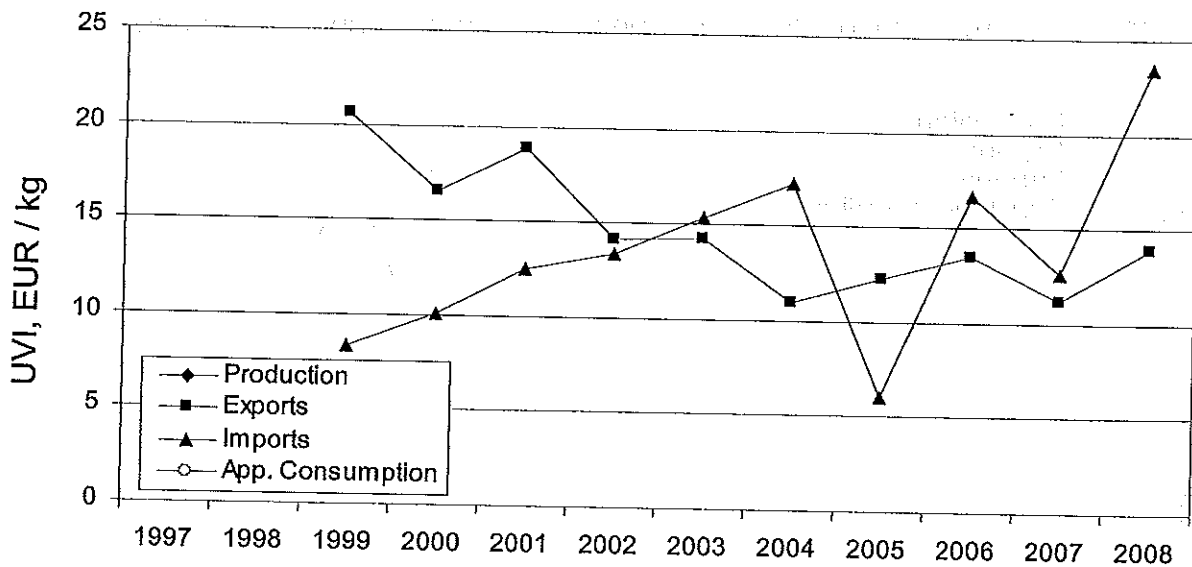
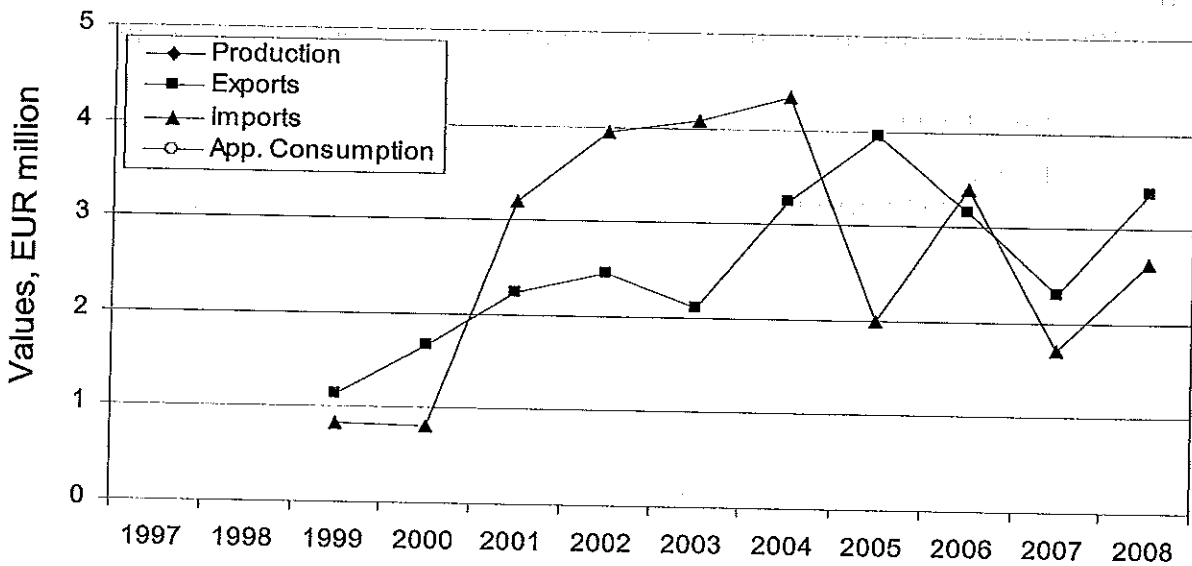
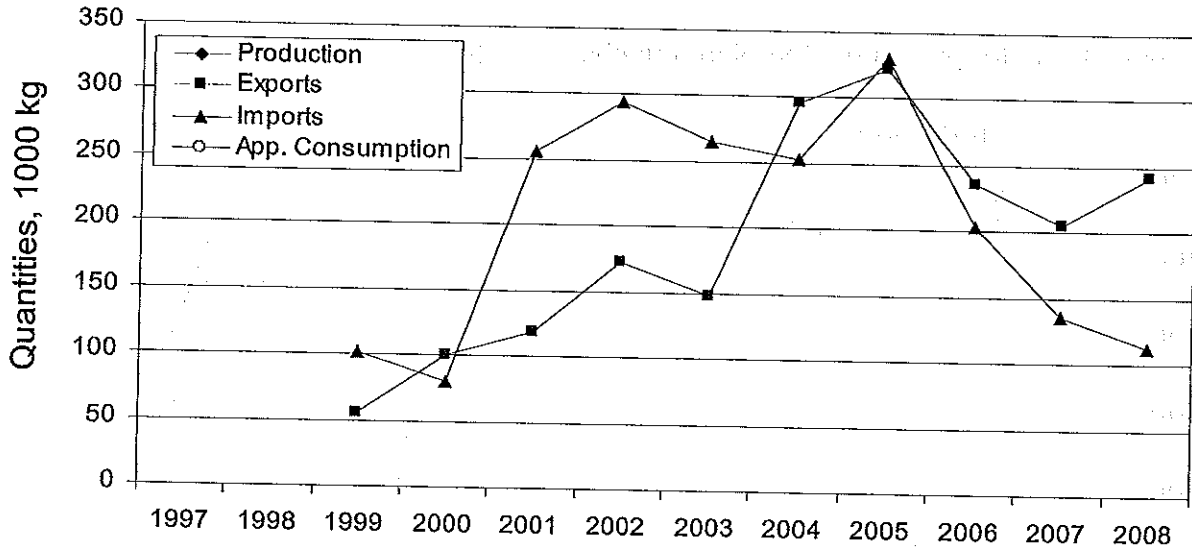
Slovenia - Injection and compression moulds for plastics (849071+848079)



Slovenia - Mould tools for metal or metal carbides excluding injection (848049)

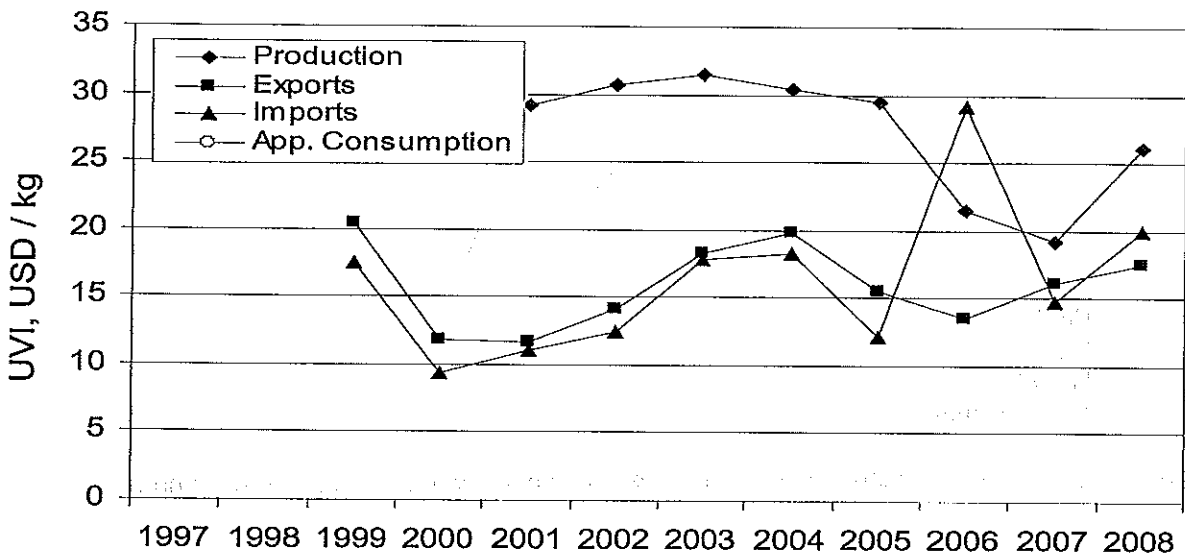
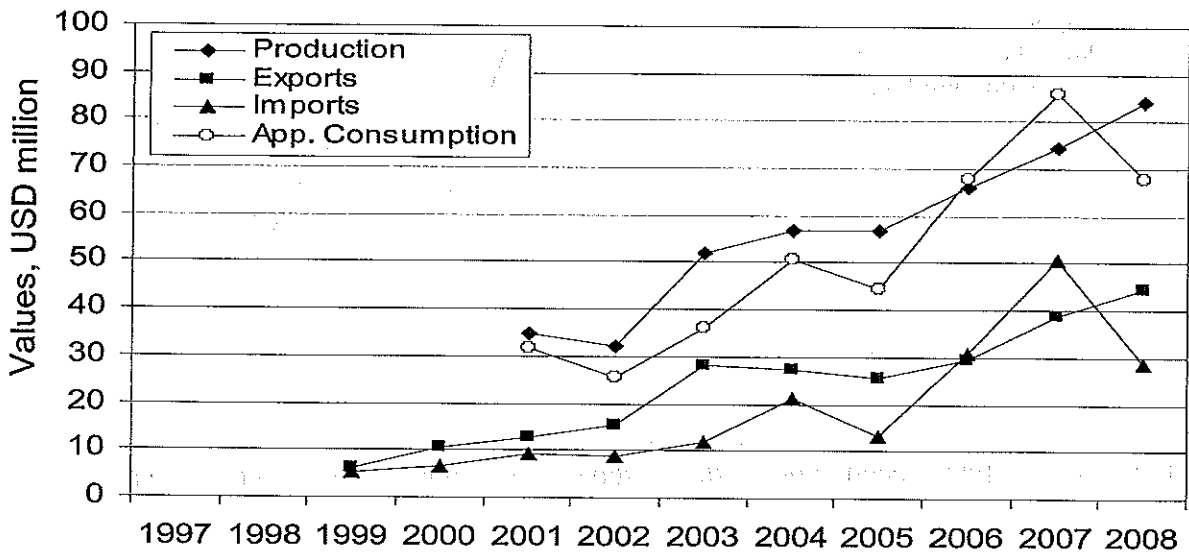
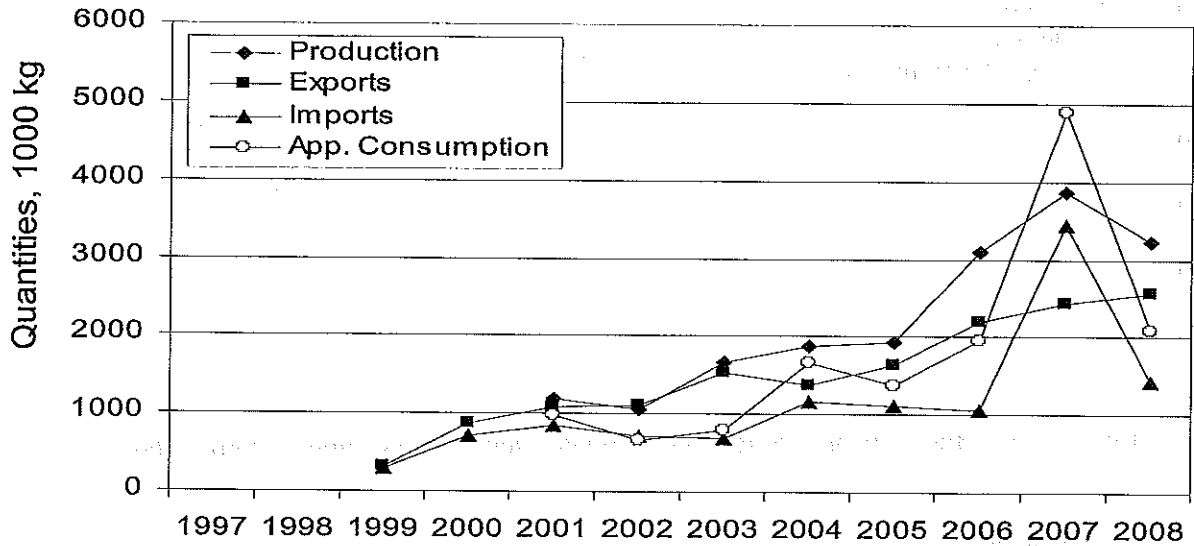


Slovenia - Mould tools for metal or metal carbides (848041)

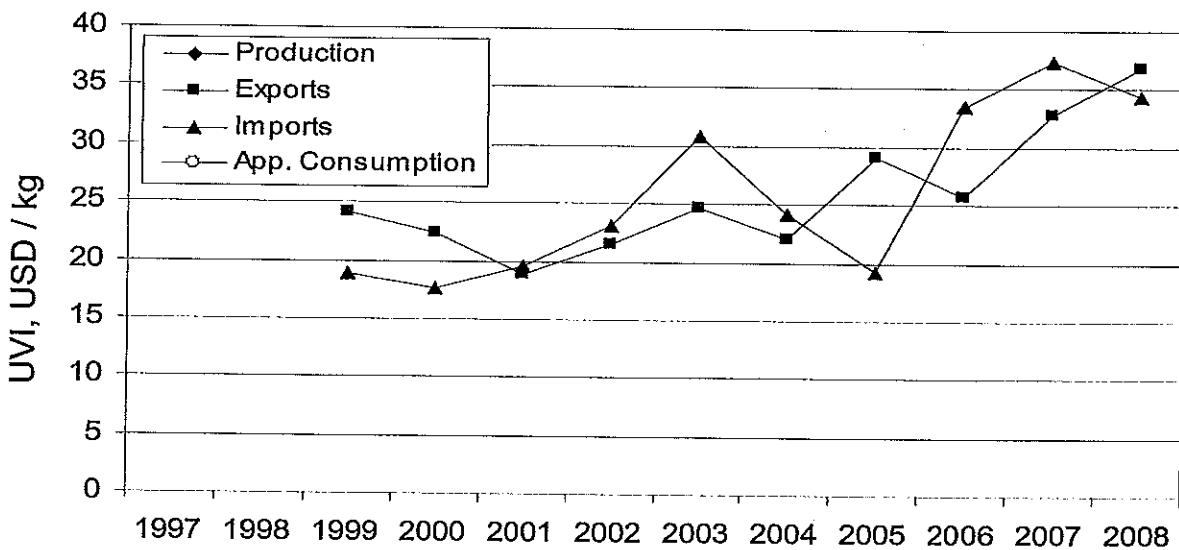
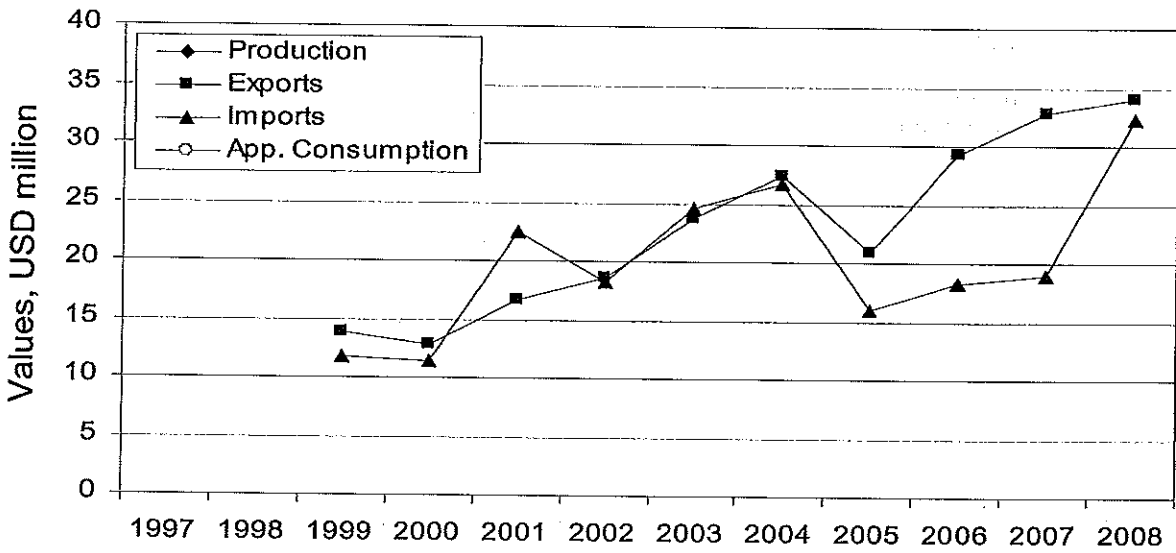
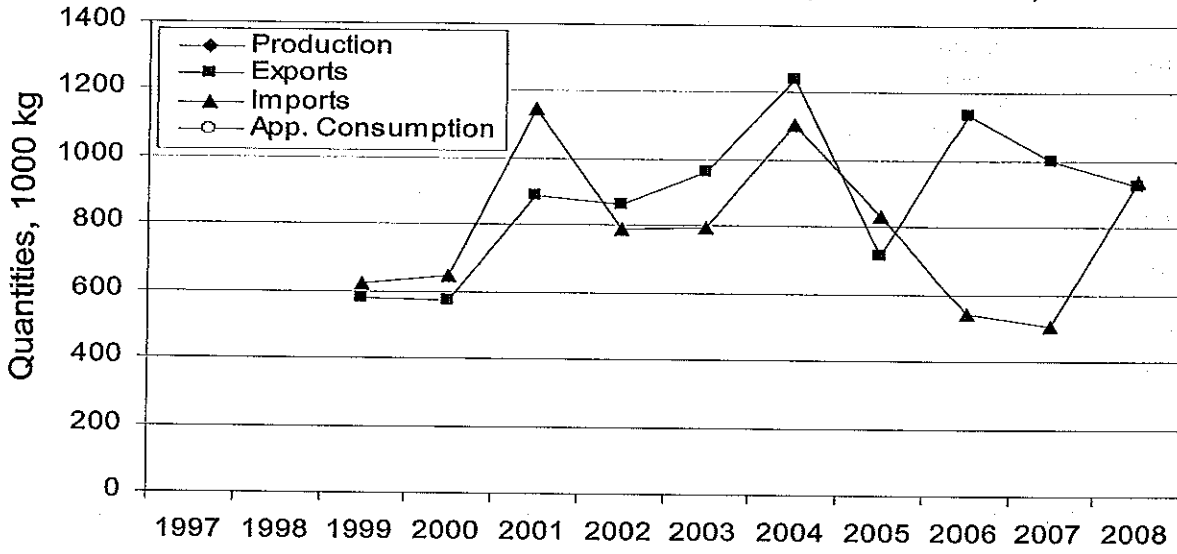


### 4.35. Slovenia (USD)

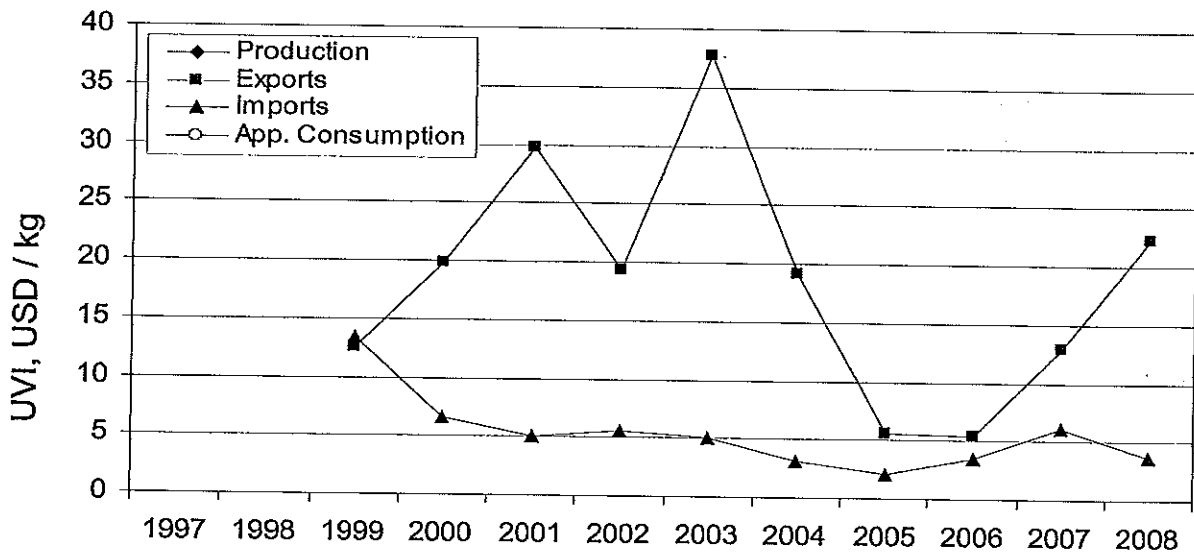
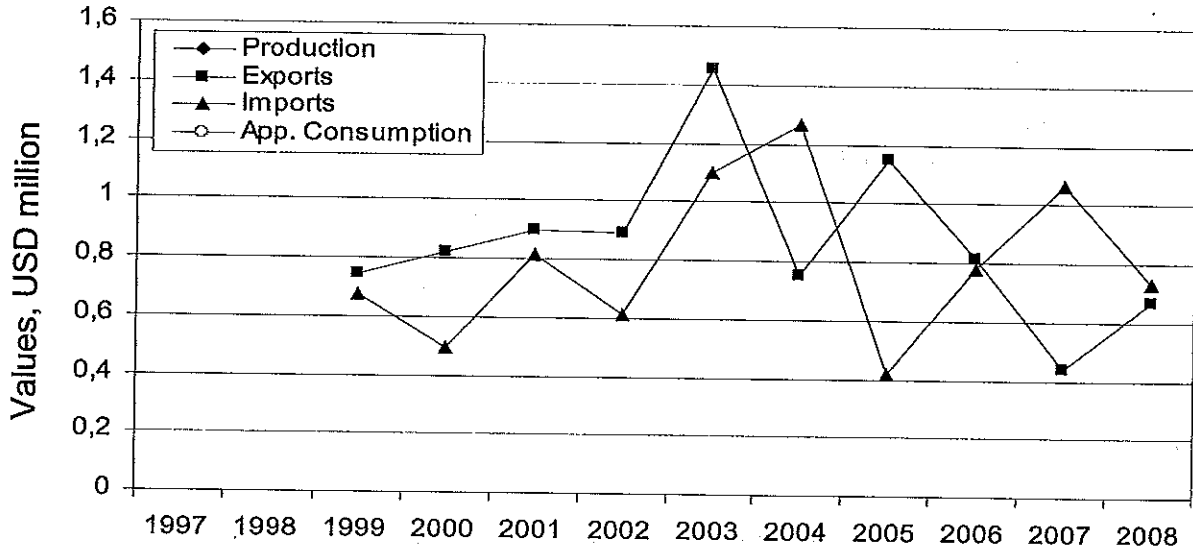
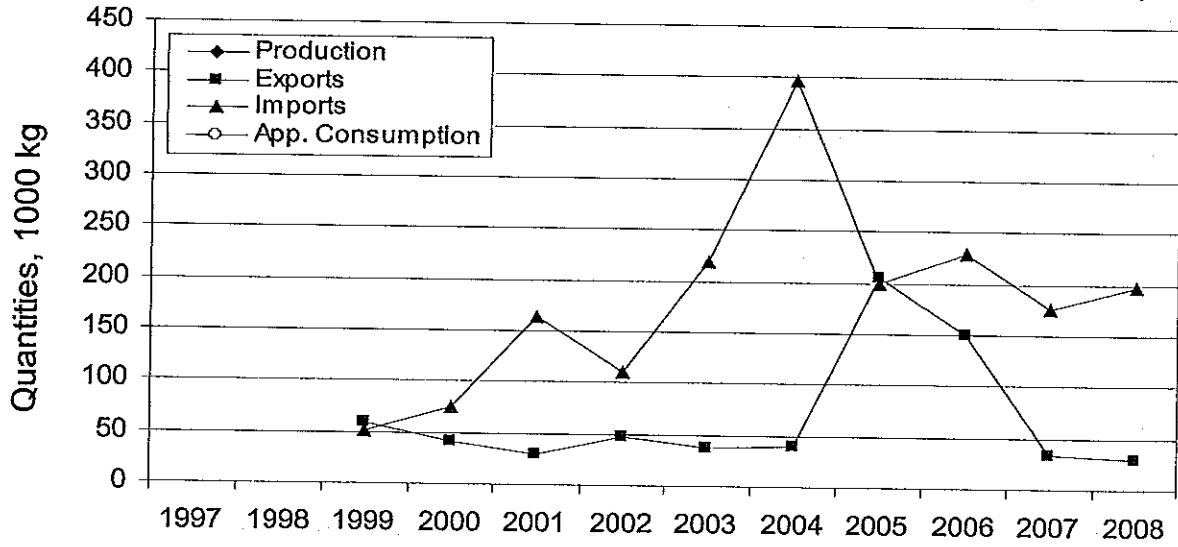
Slovenia - Tools for pressing, stamping, punching and forming (820730)



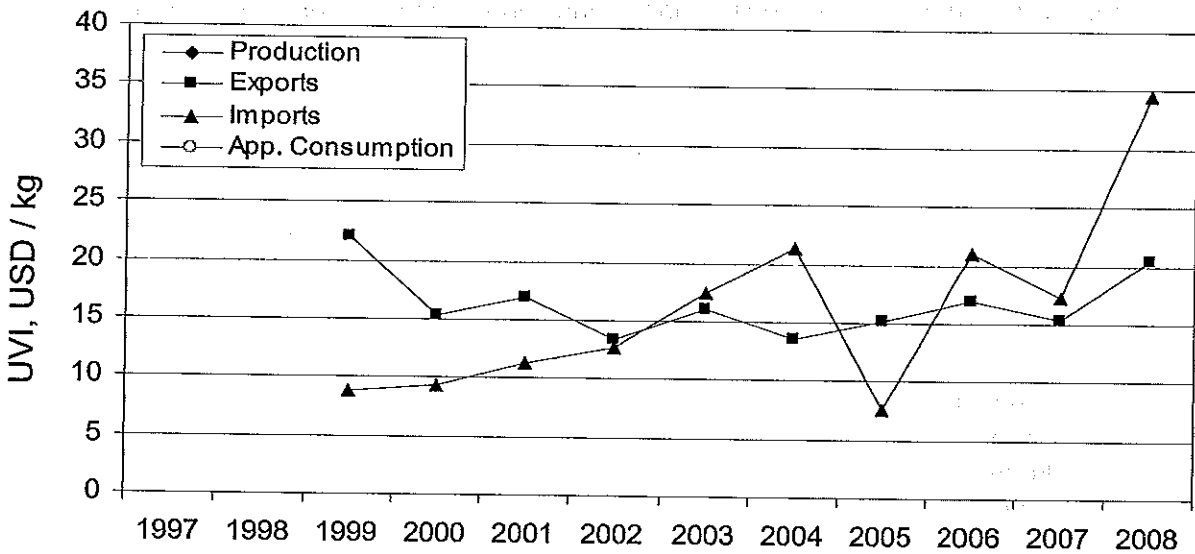
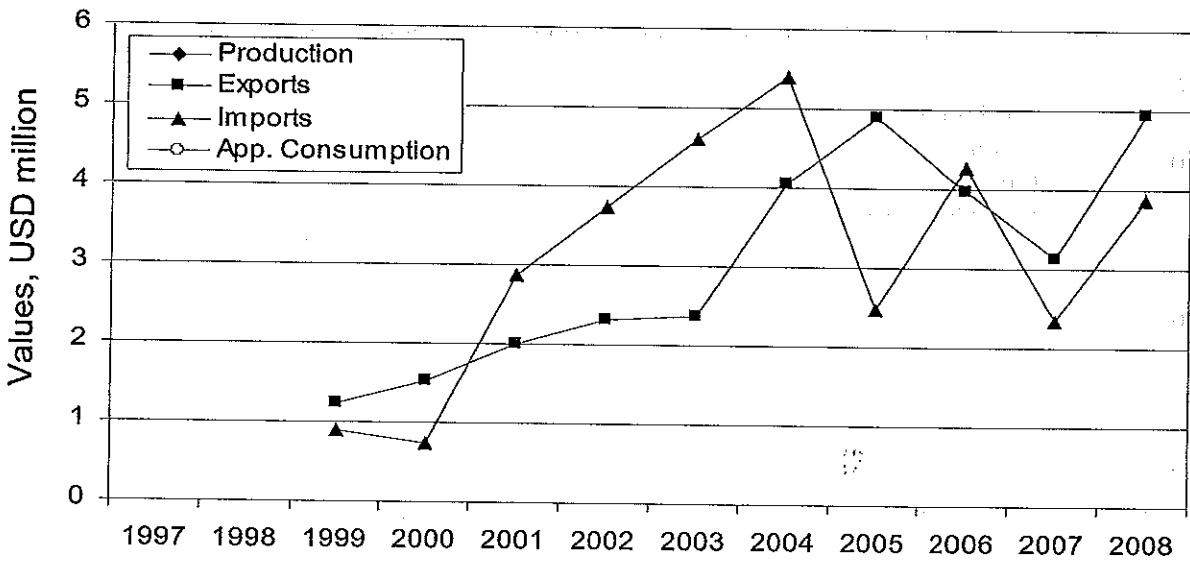
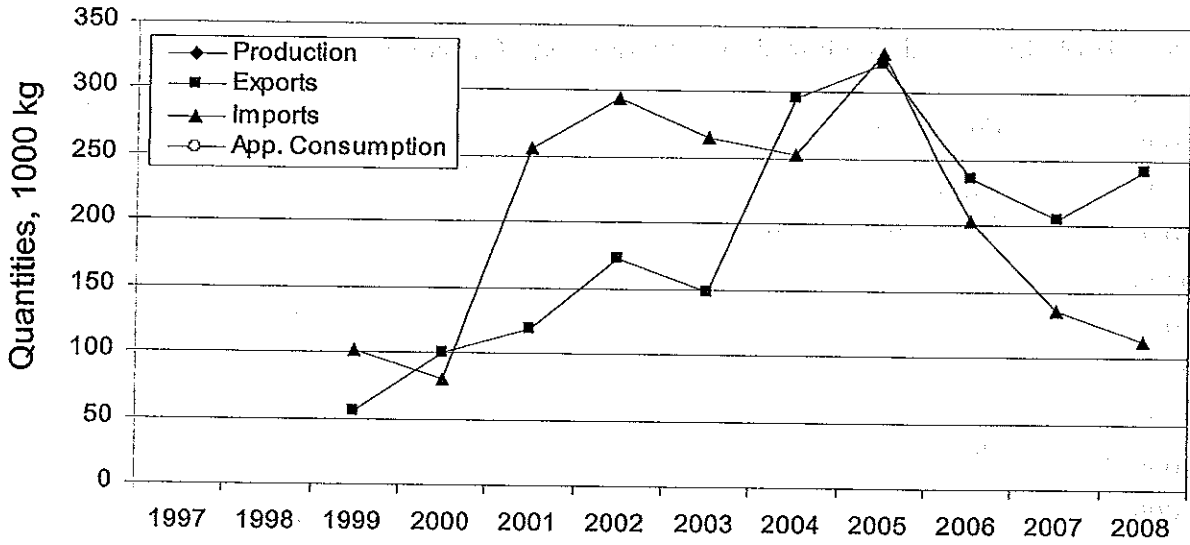
Slovenia - Injection and compression moulds for plastics (849071+848079)



Slovenia - Mould tools for metal or metal carbides excluding injection (848049)

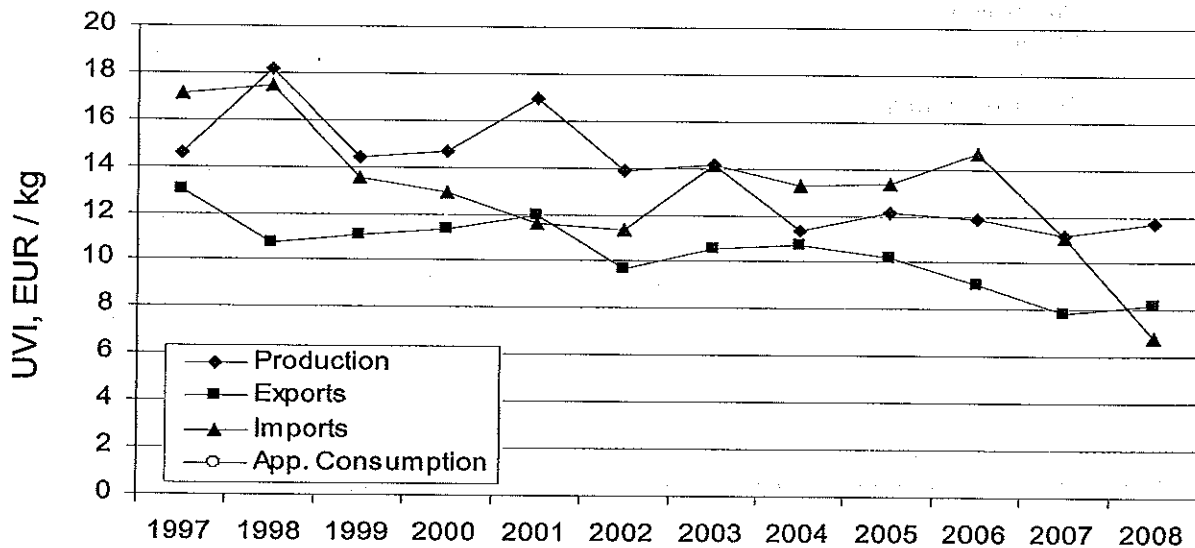
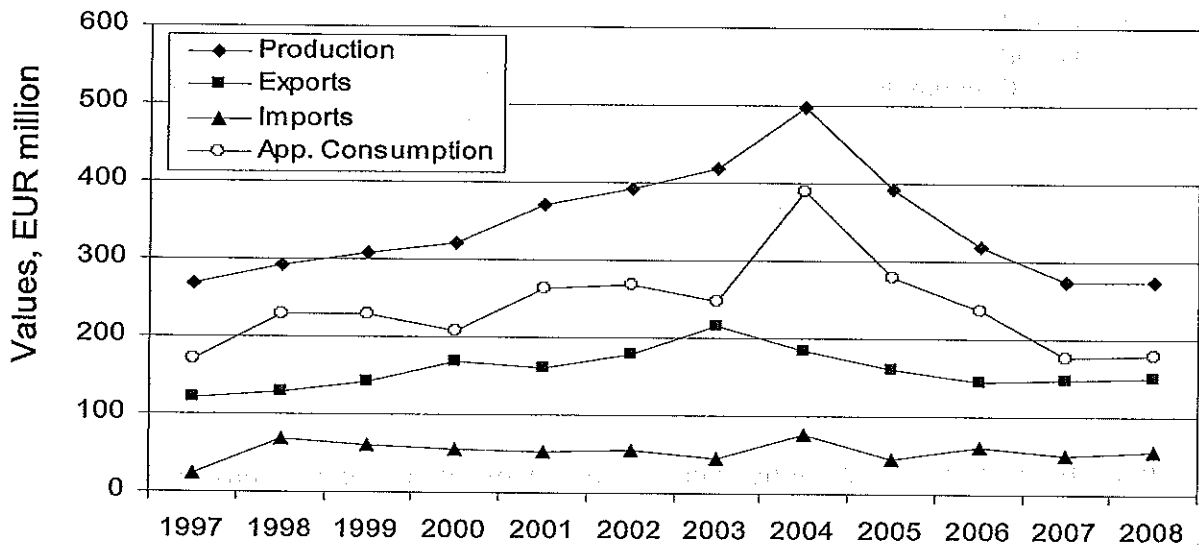
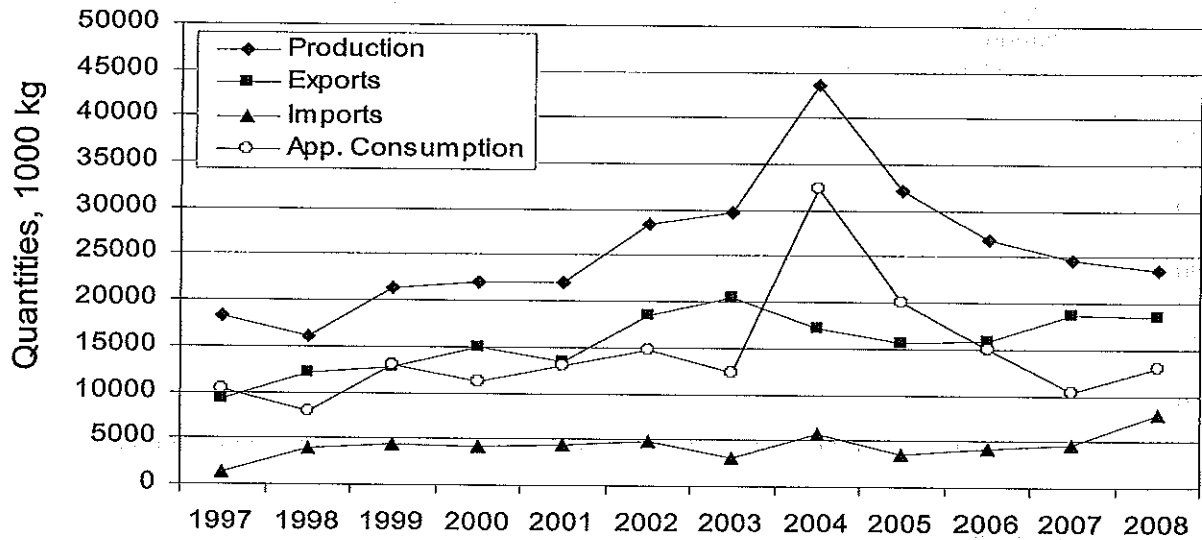


Slovenia - Mould tools for metal or metal carbides (848041)

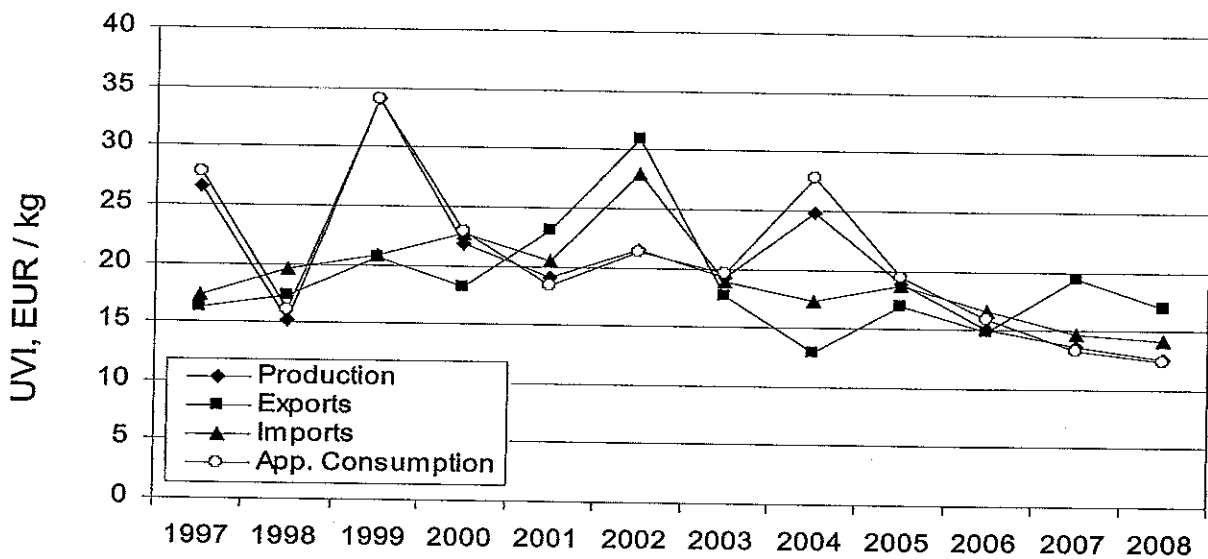
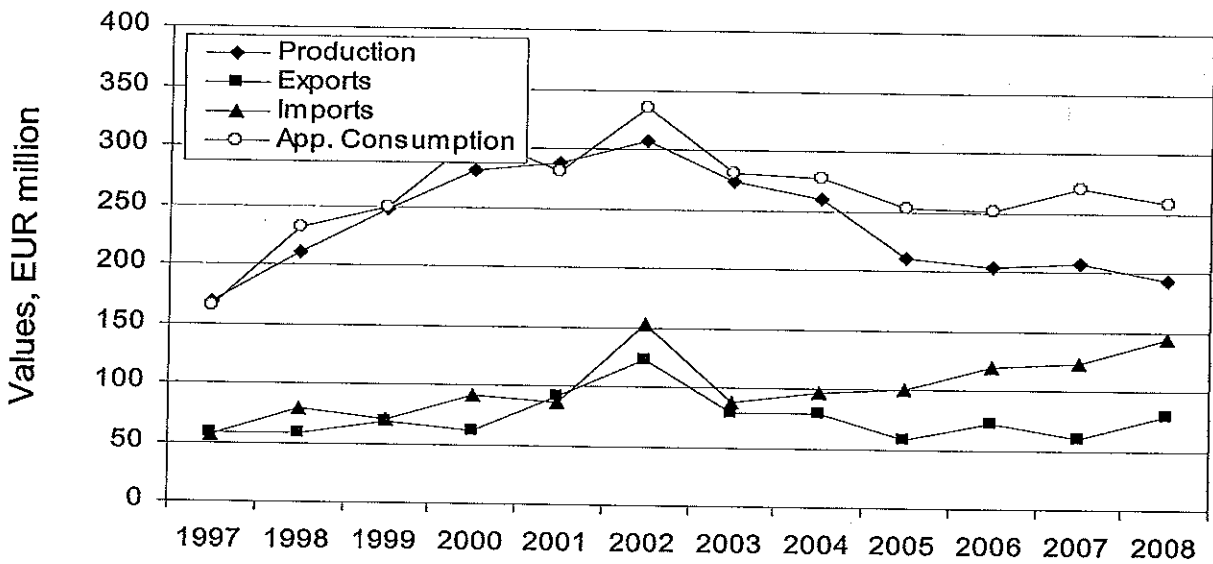
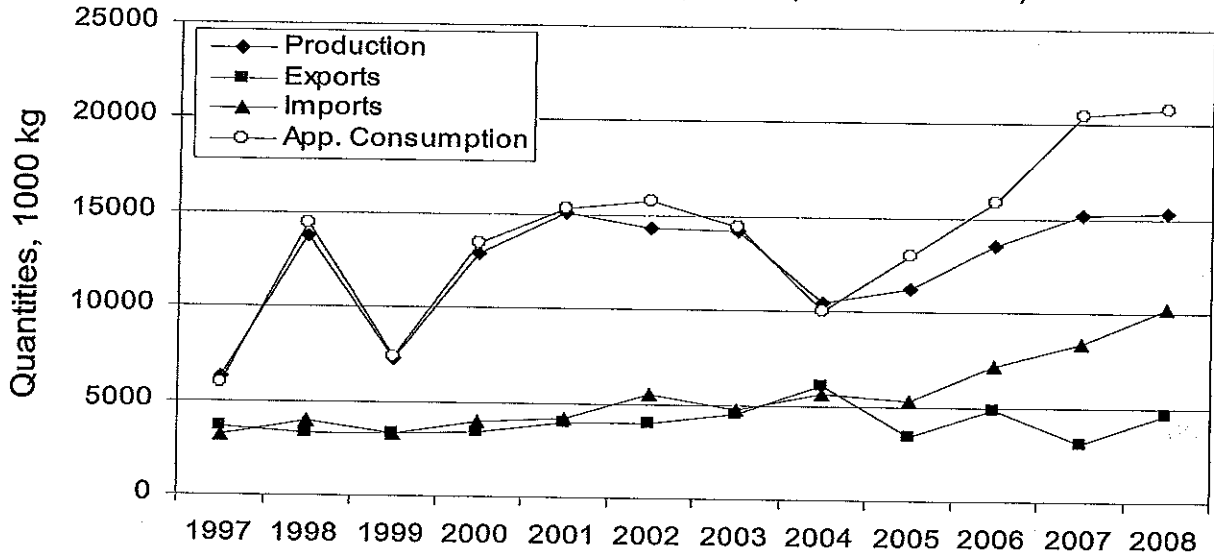


### 4.36. Spain (EUR)

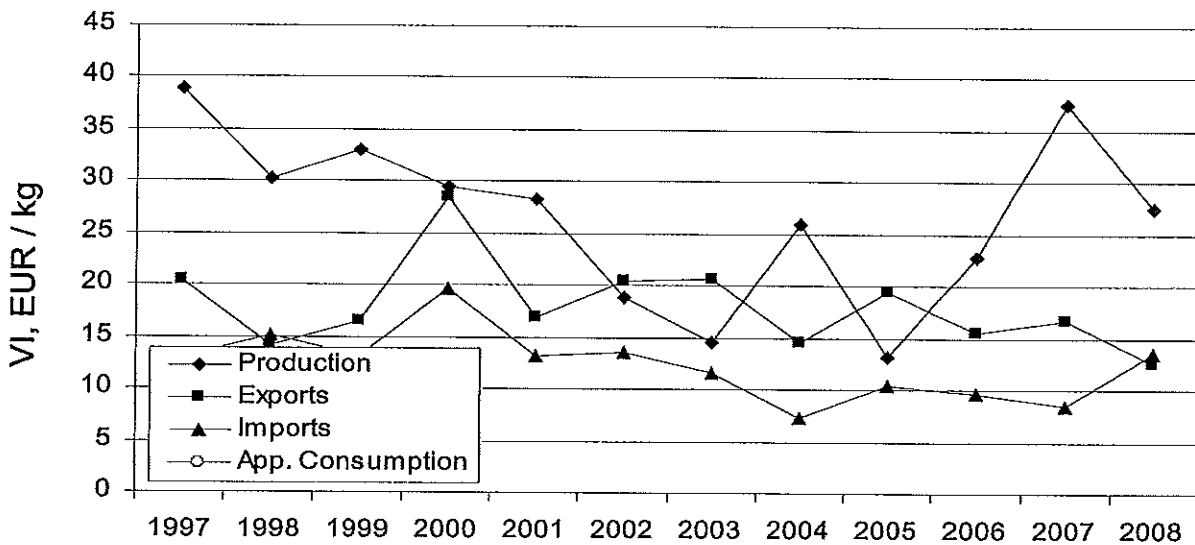
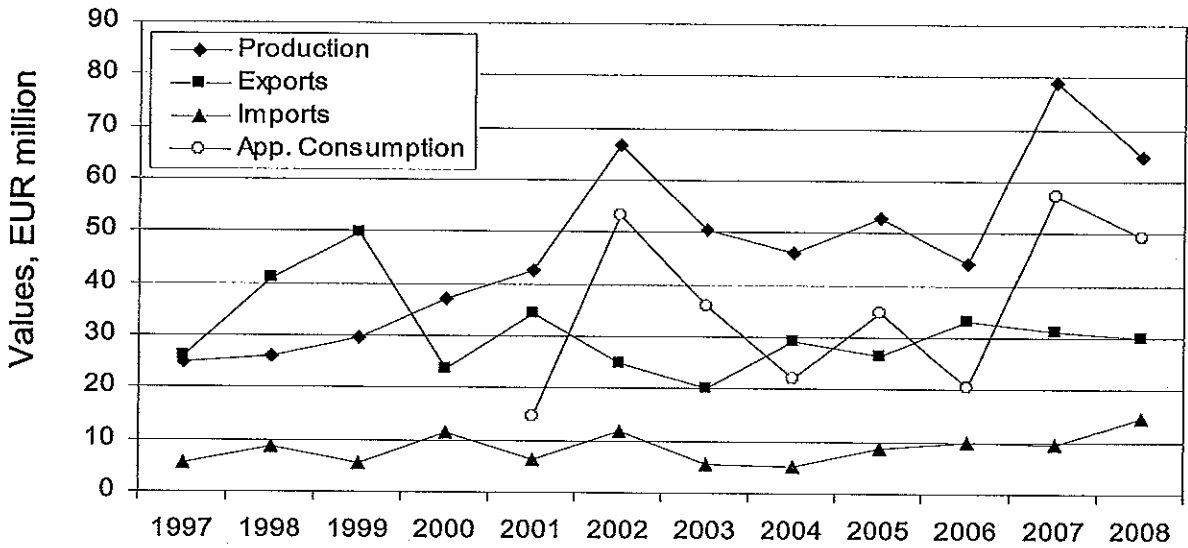
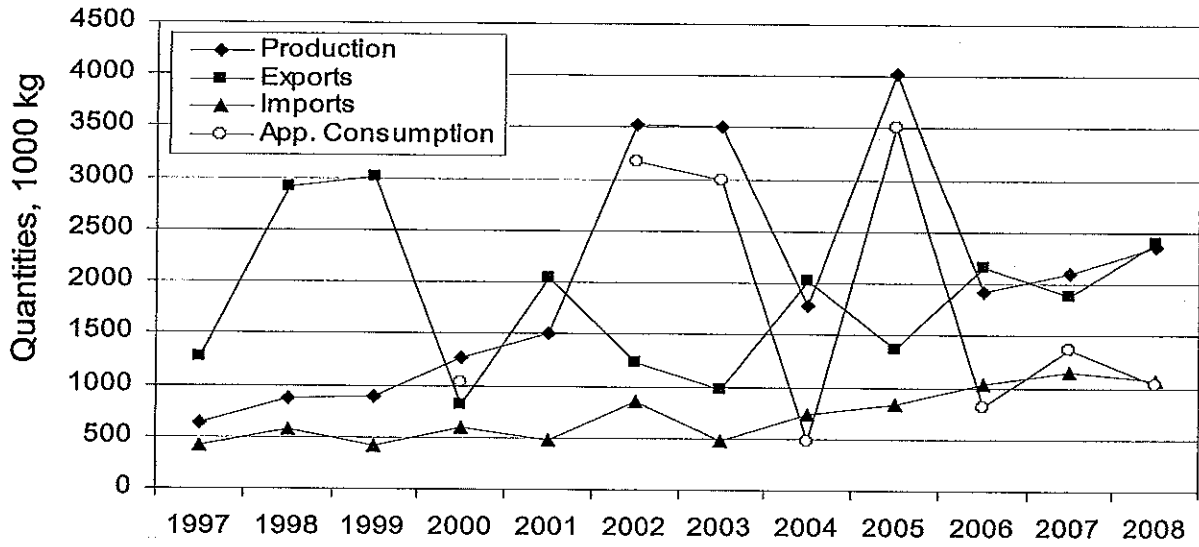
Spain - Tools for pressing, stamping, punching and forming (820730)



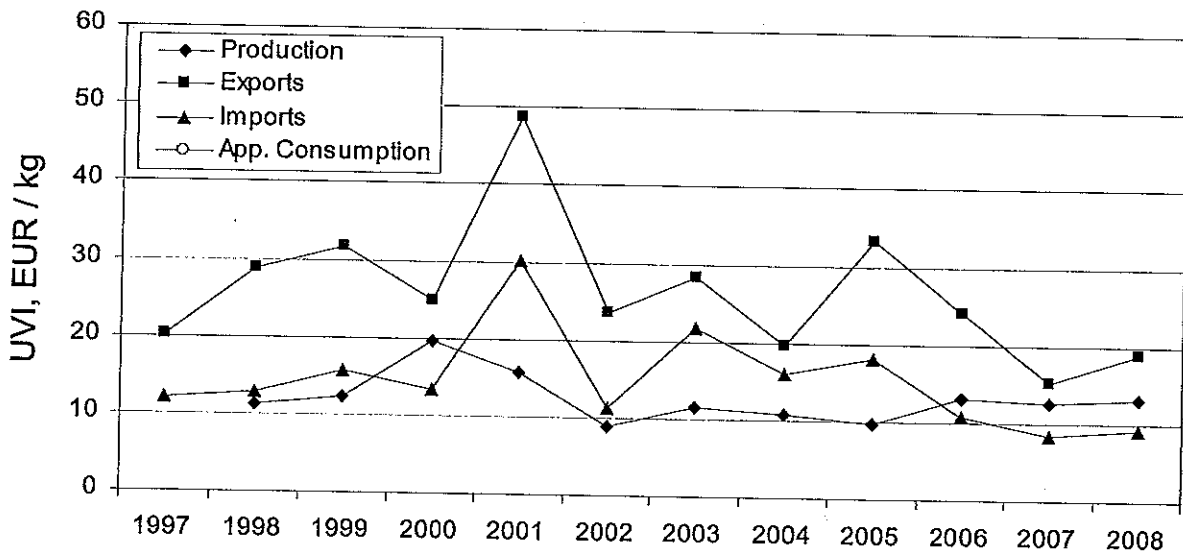
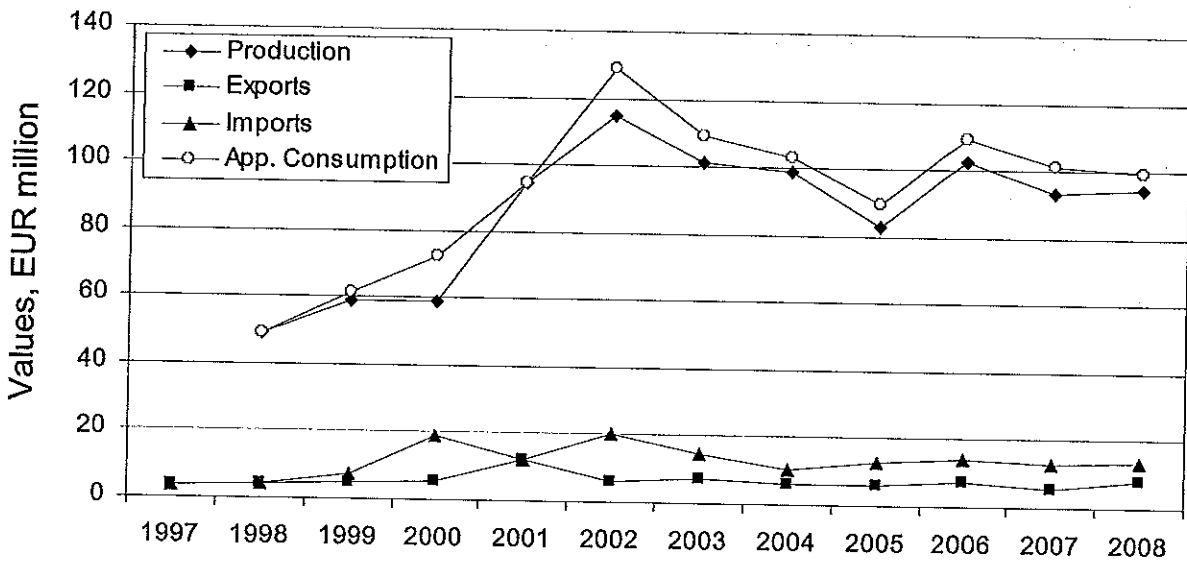
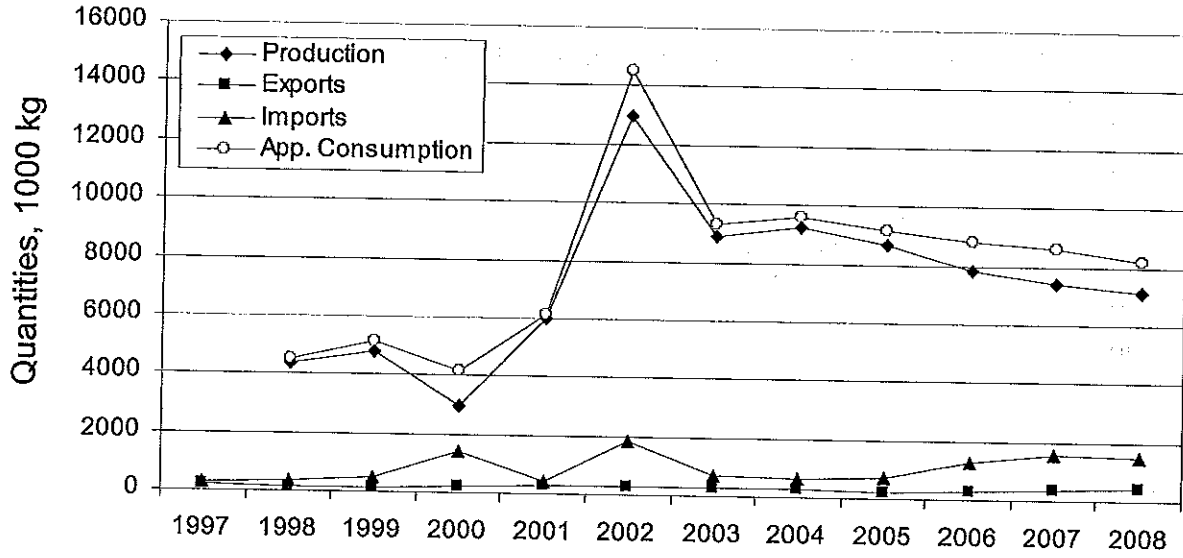
Spain - Injection and compression moulds for plastics (849071+848079)



Spain - Mould tools for metal or metal carbides (848049)

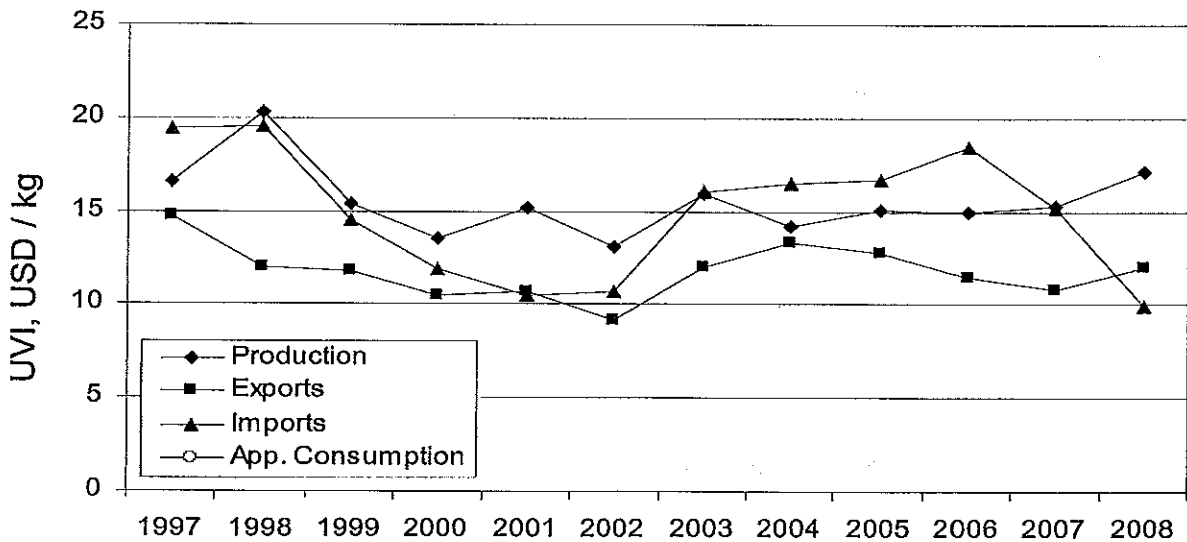
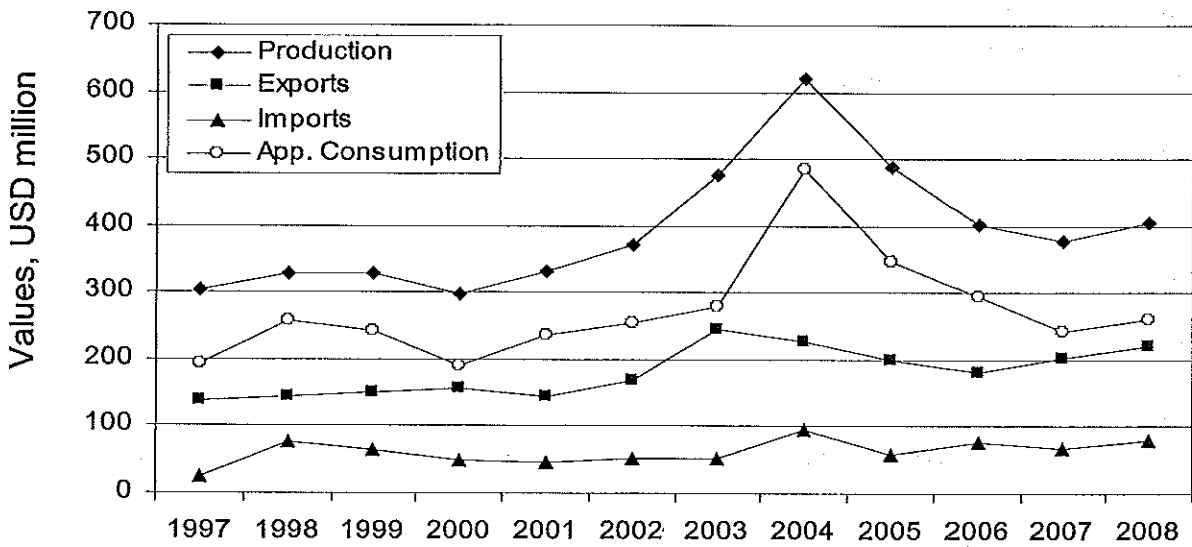
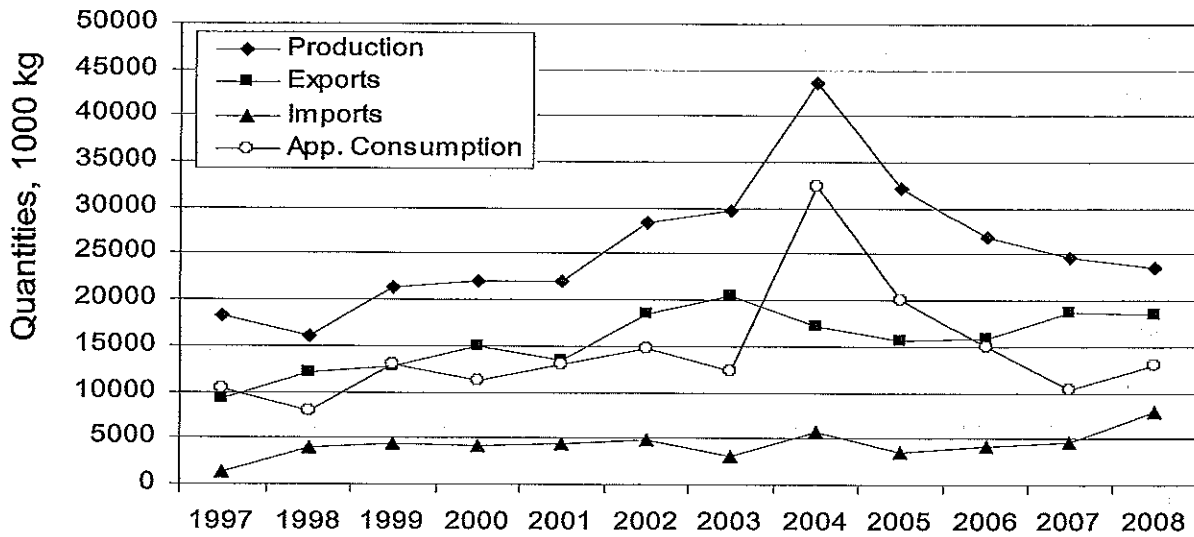


Spain - Mould tools for metal or metal carbides (848041)

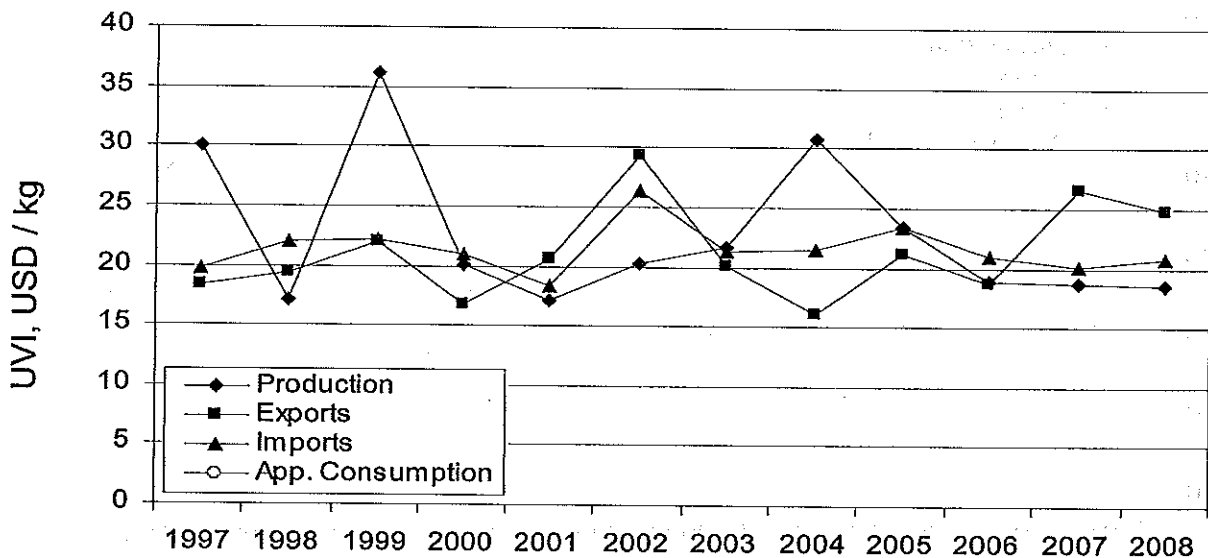
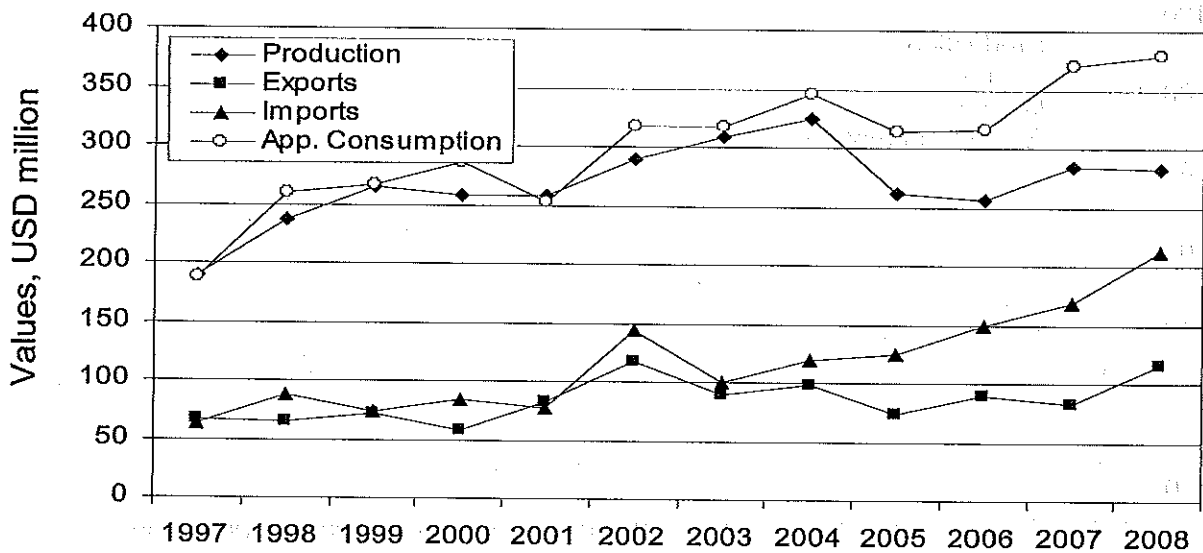
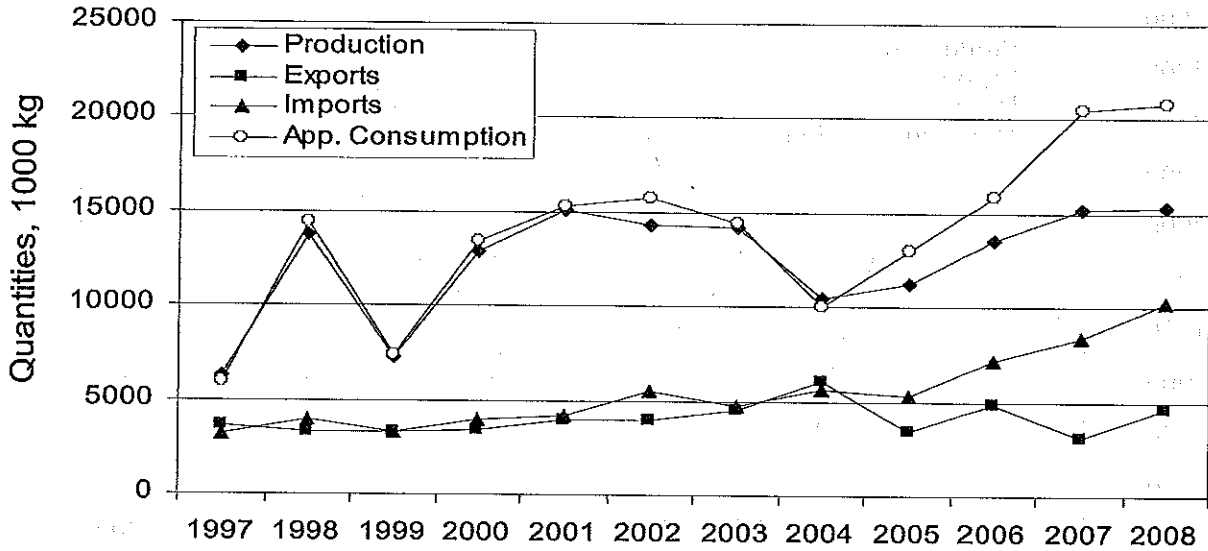


### 4.37. Spain (USD)

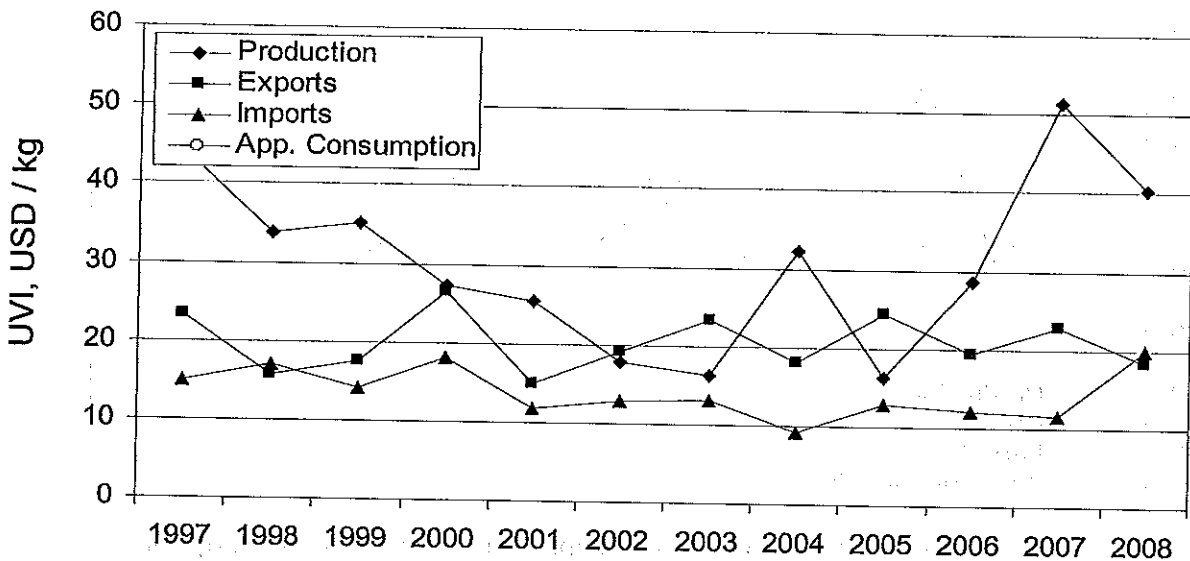
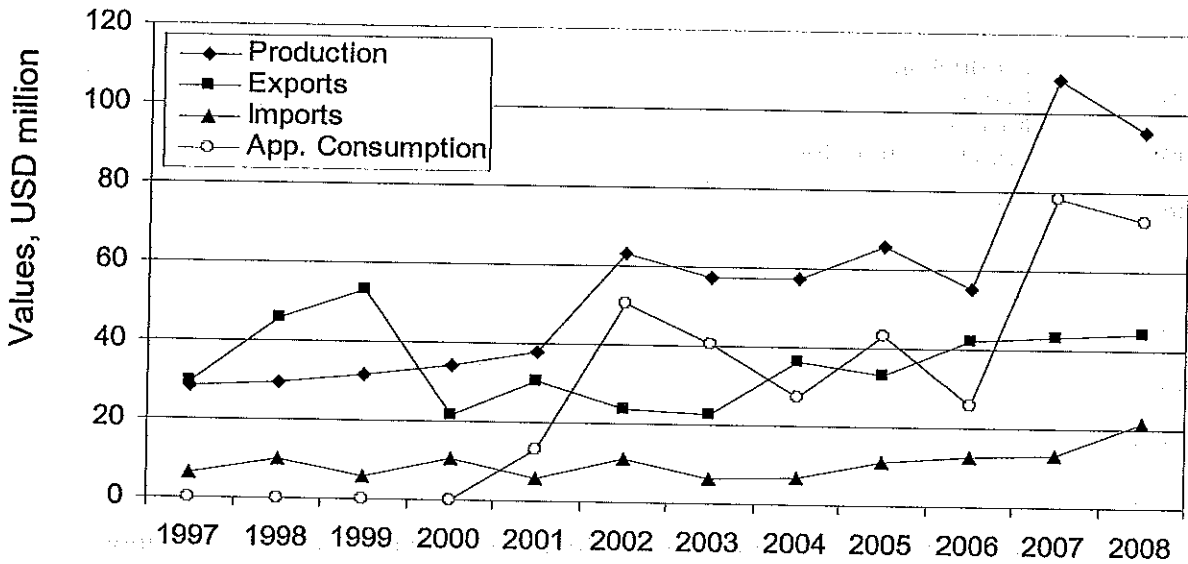
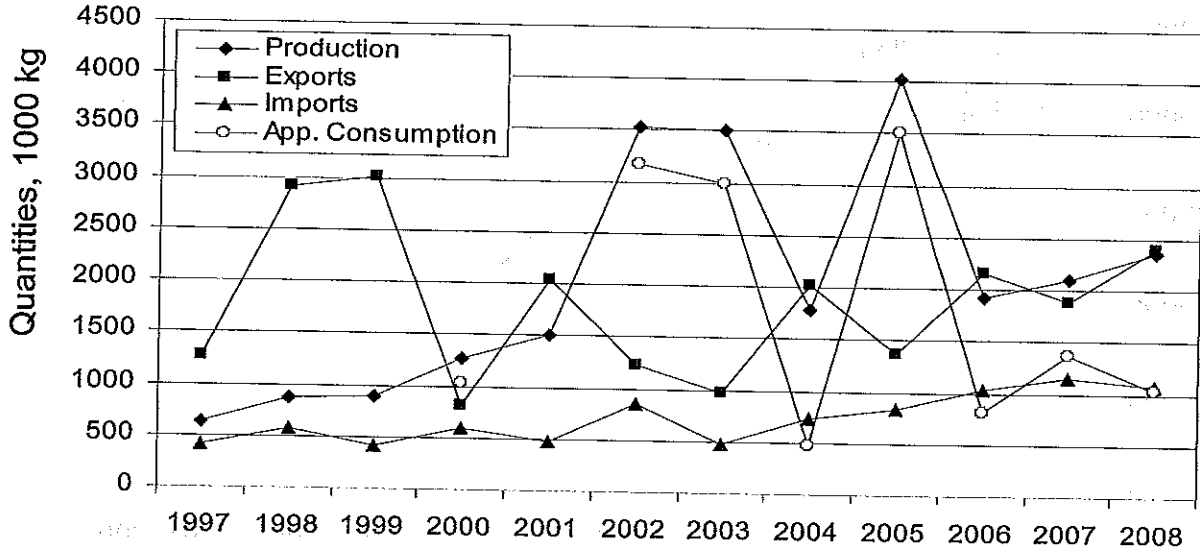
Spain - Tools for pressing, stamping, punching and forming (820730)



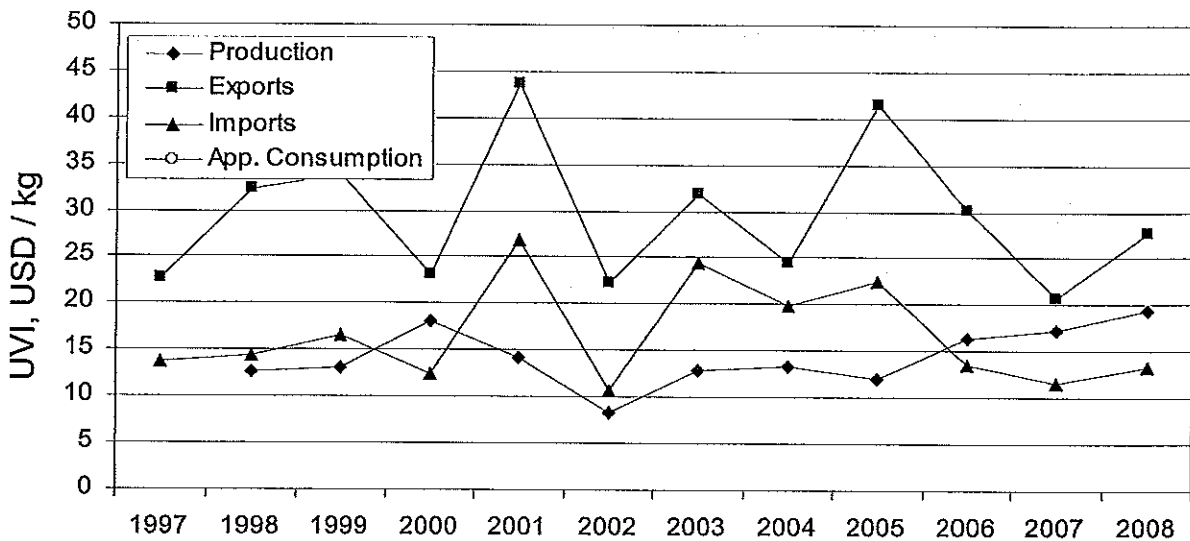
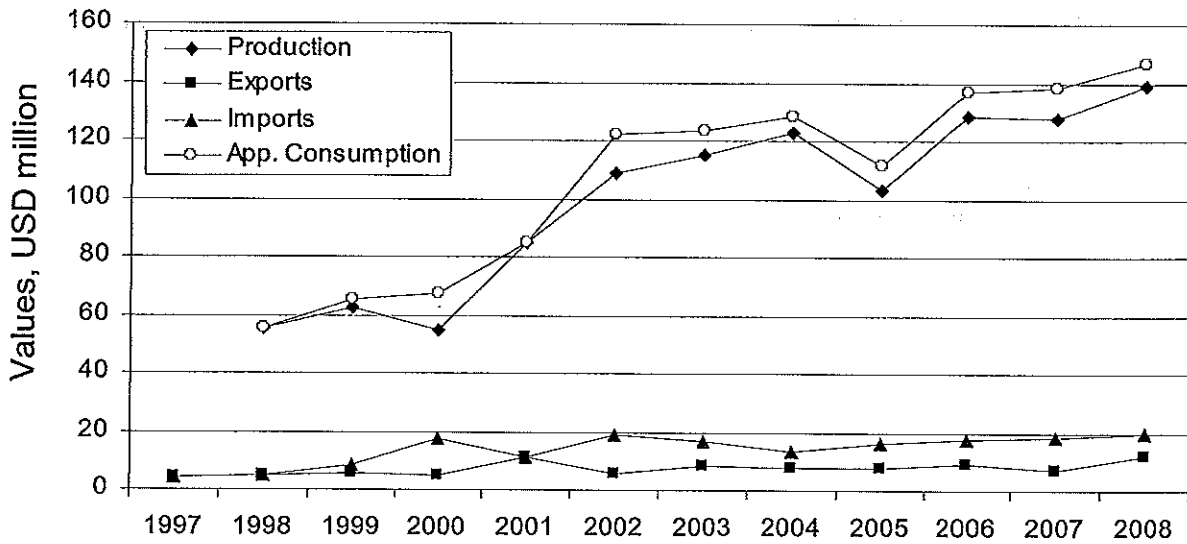
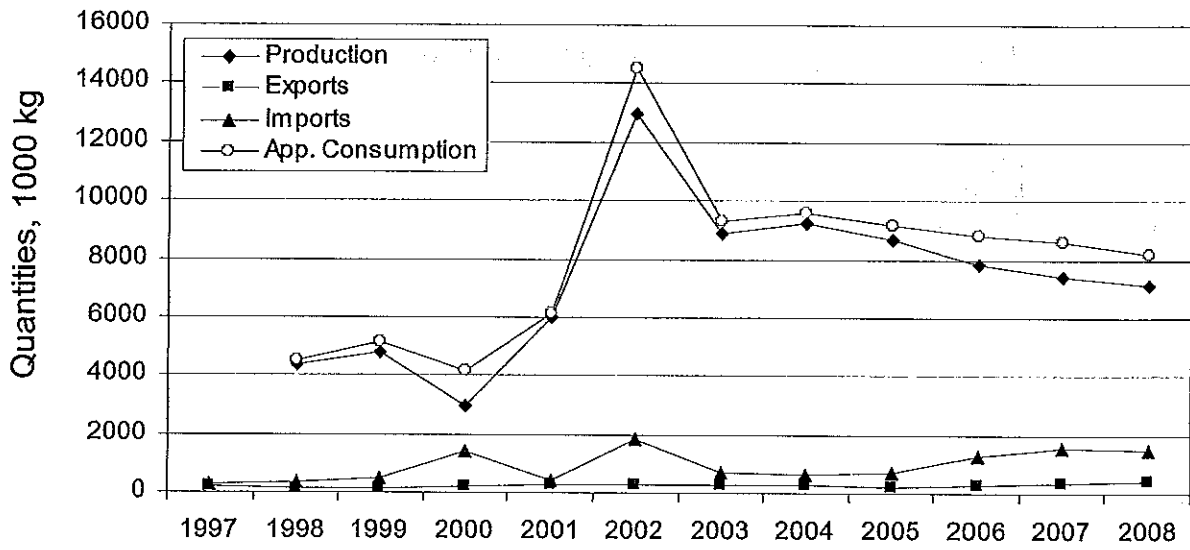
Spain - Injection and compression moulds for plastics (849071+848079)



Spain - Mould tools for metal or metal carbides (848049)

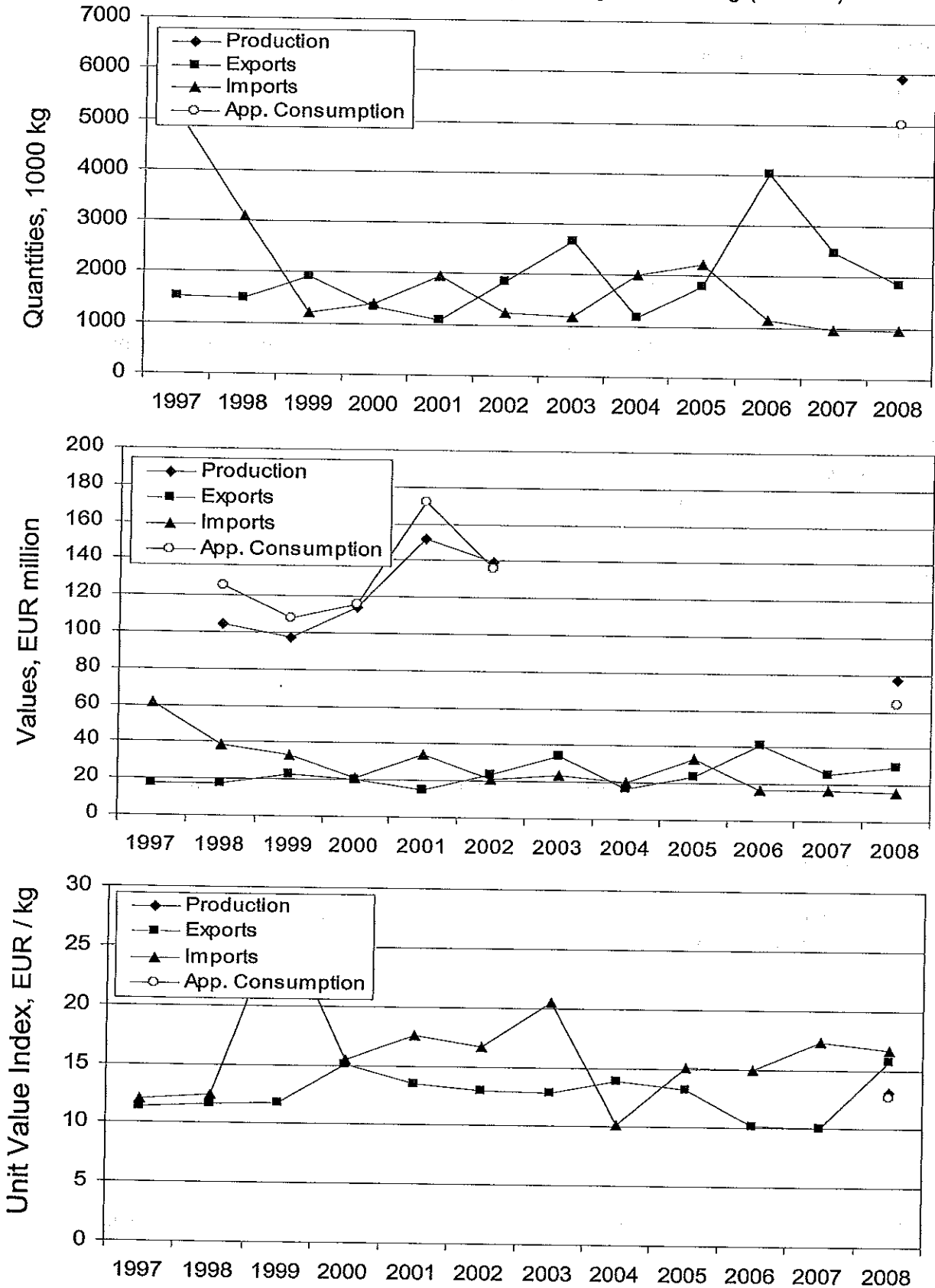


Spain - Mould tools for metal or metal carbides (848041)

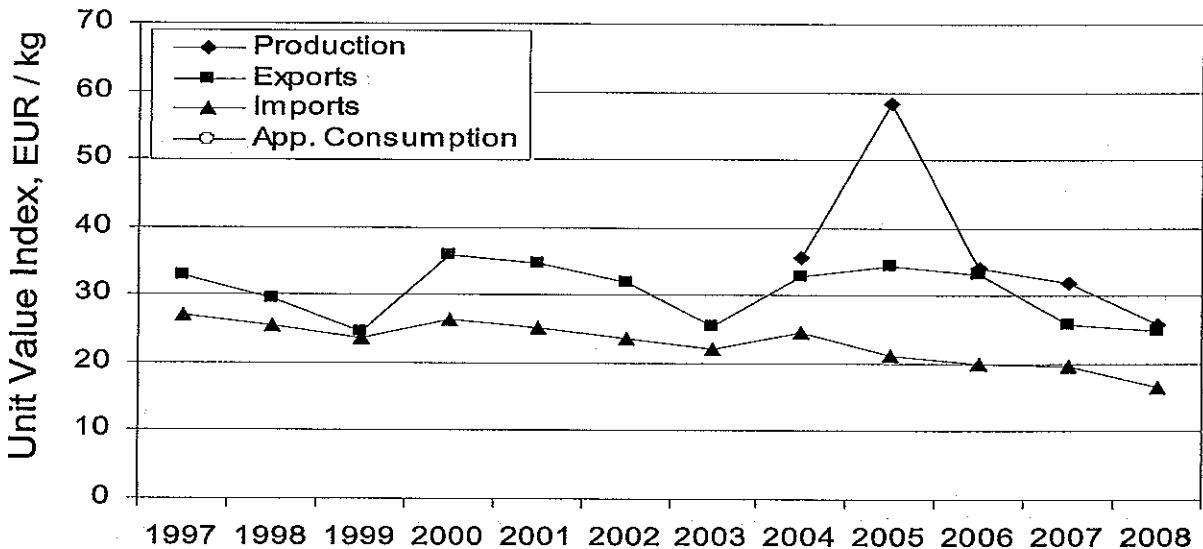
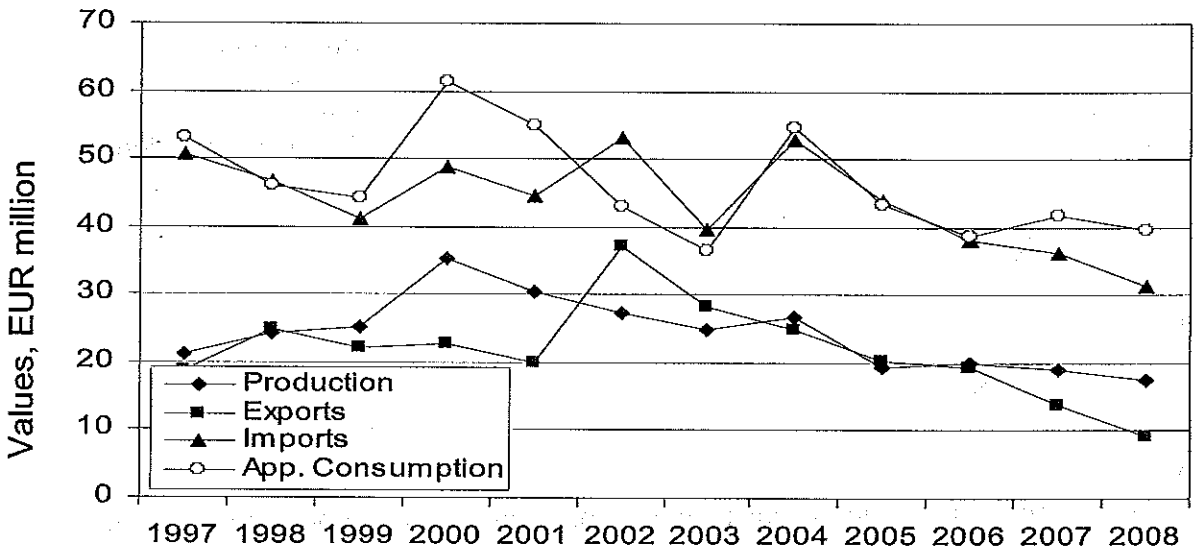
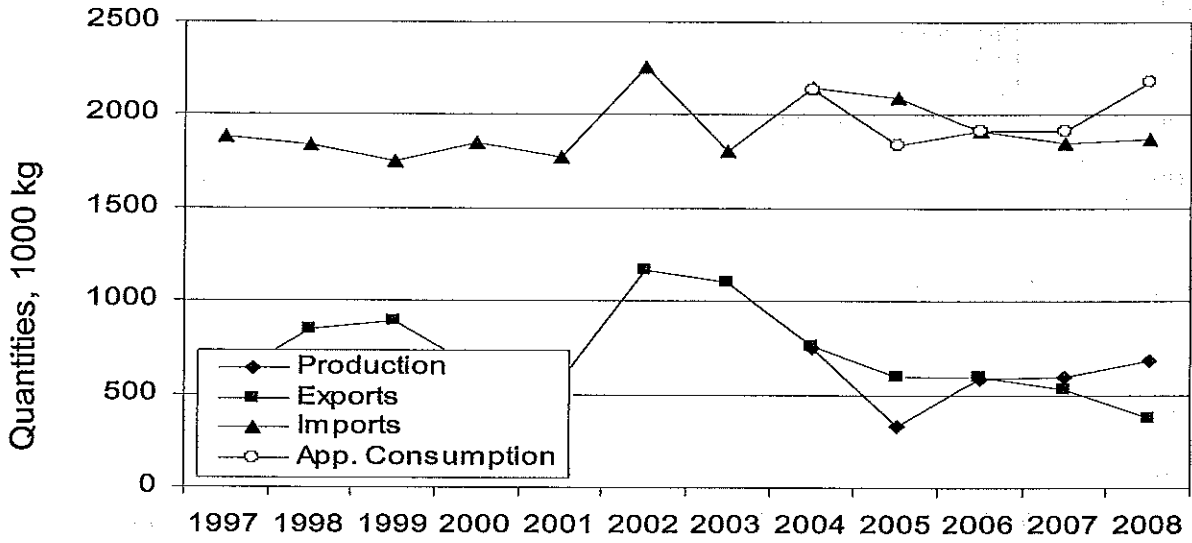


### 4.38. Sweden (EUR)

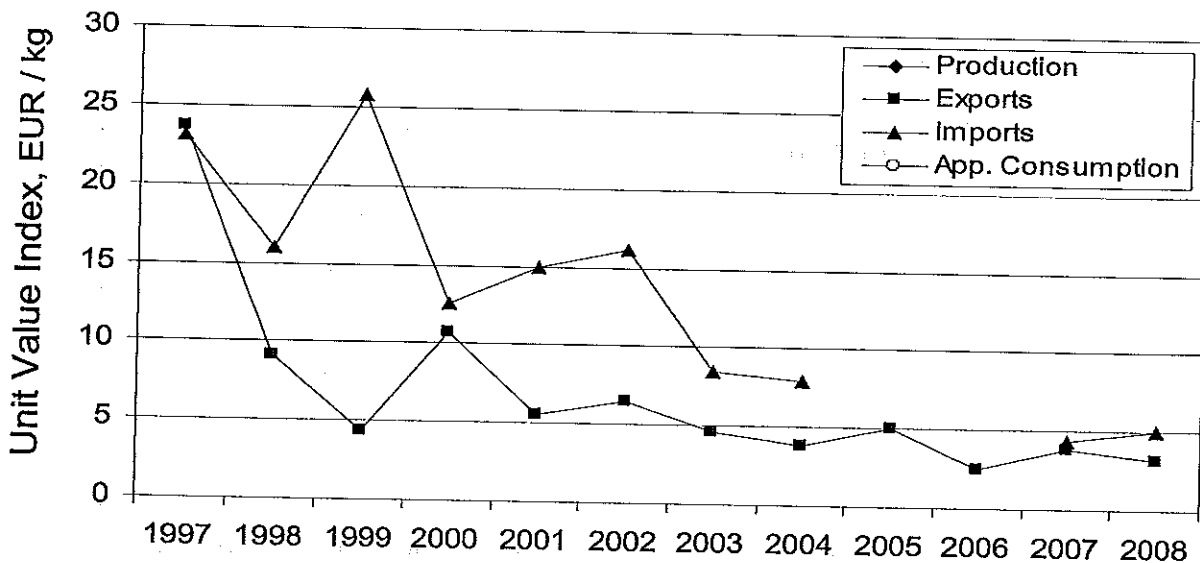
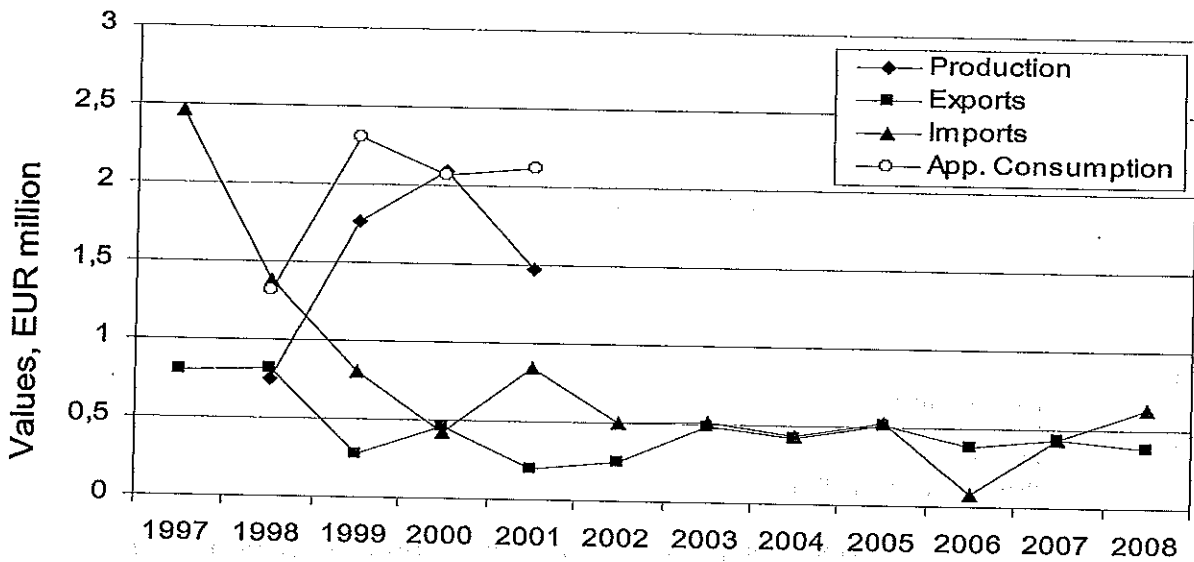
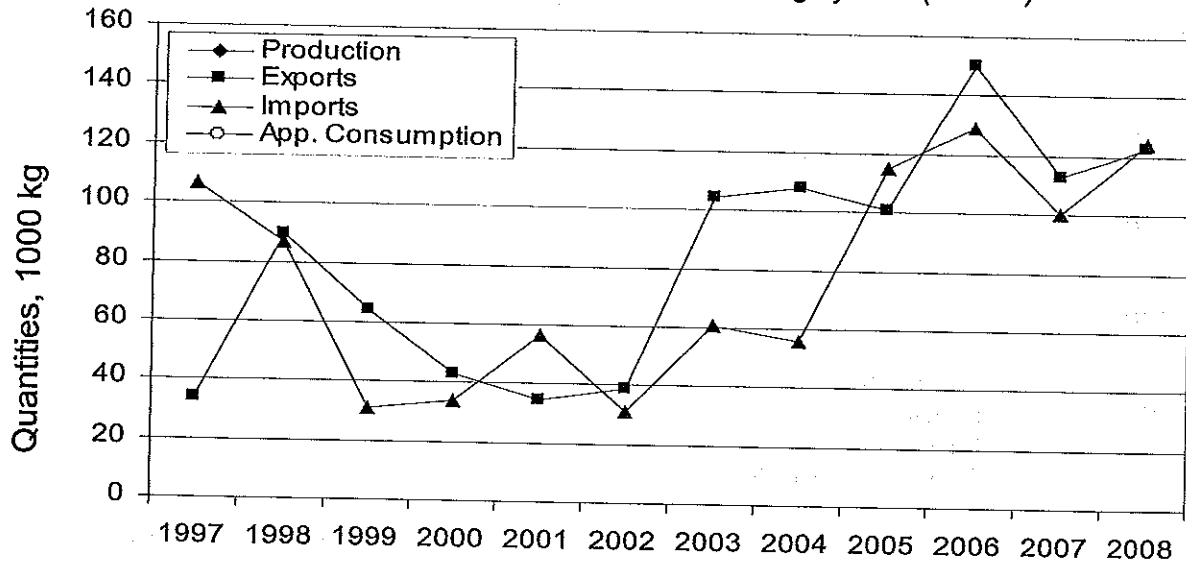
Sweden - Tools for pressing, stamping, punching and forming (820730)



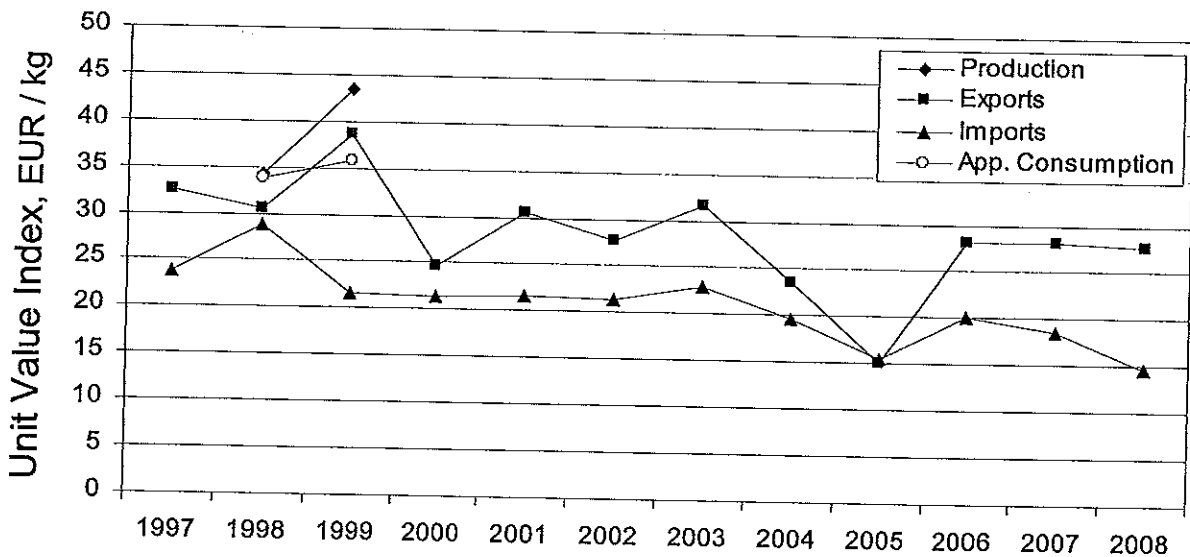
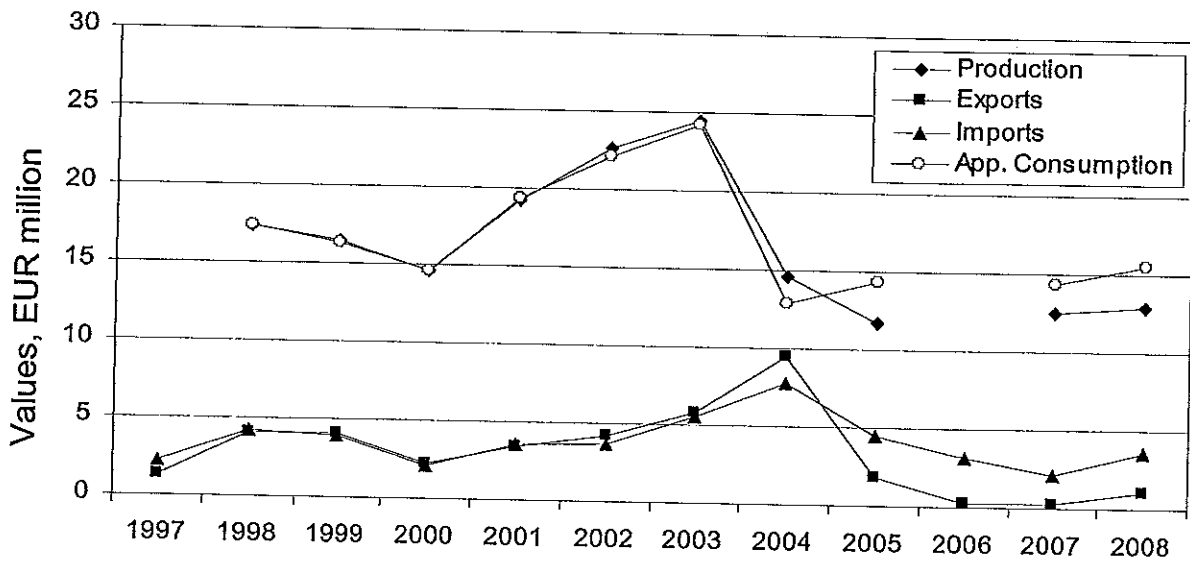
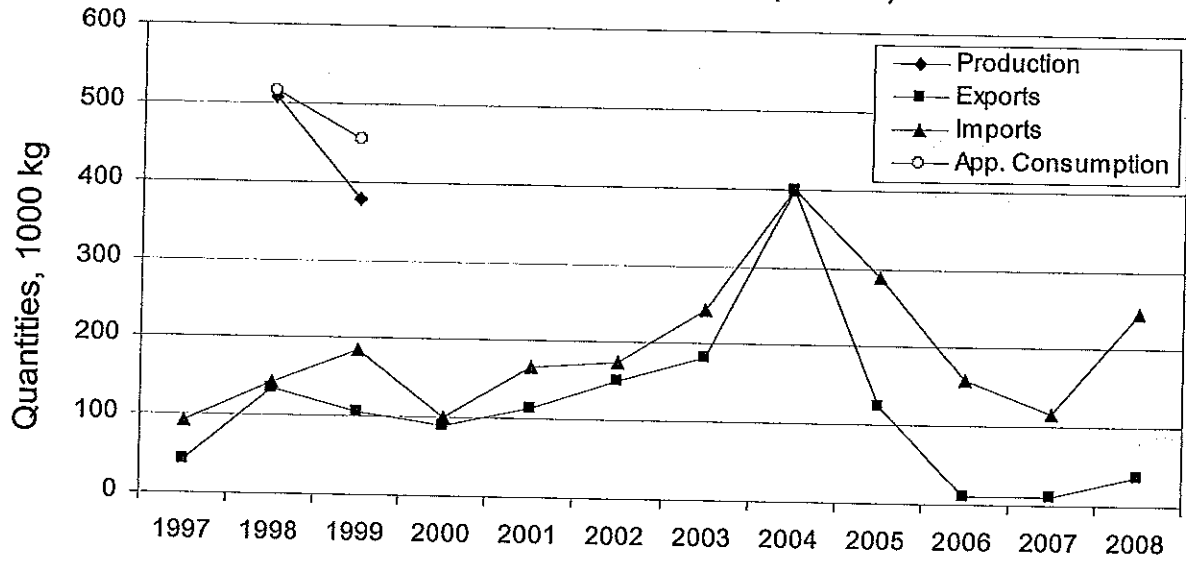
Sweden - Injection and compression moulds for plastics (849071+848079)



Sweden - Mould tools for metal or metal carbides excluding injection (848049)

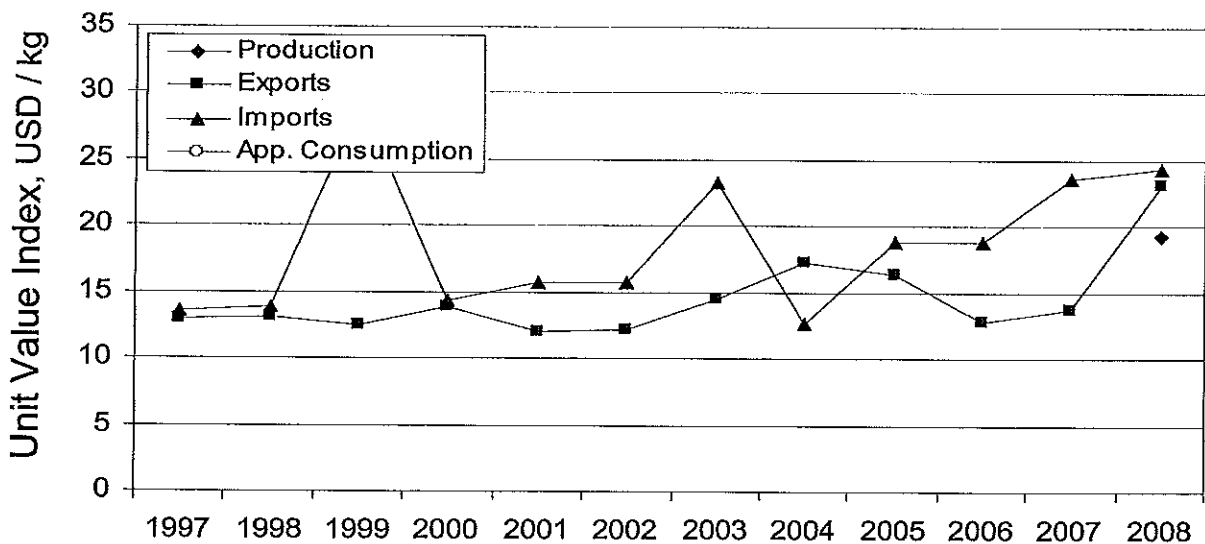
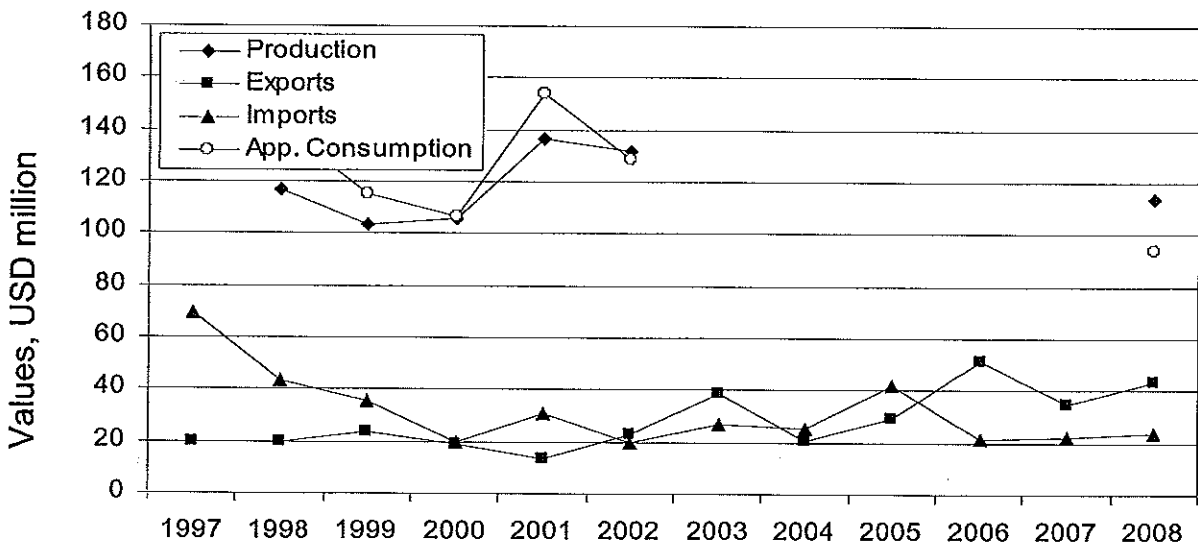
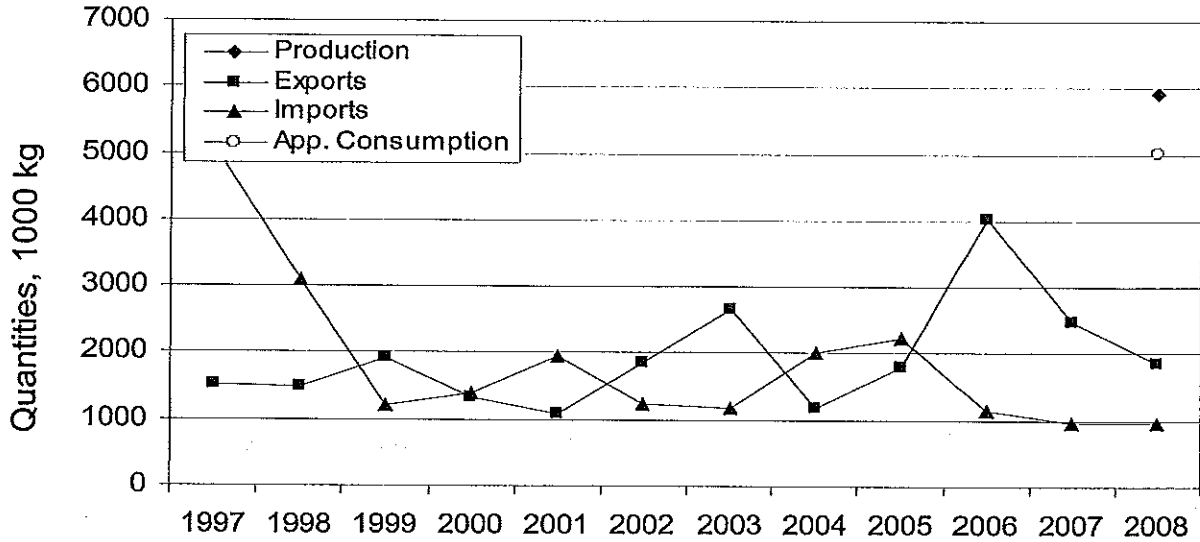


Sweden - Mould tools for metal or metal carbides (848041)

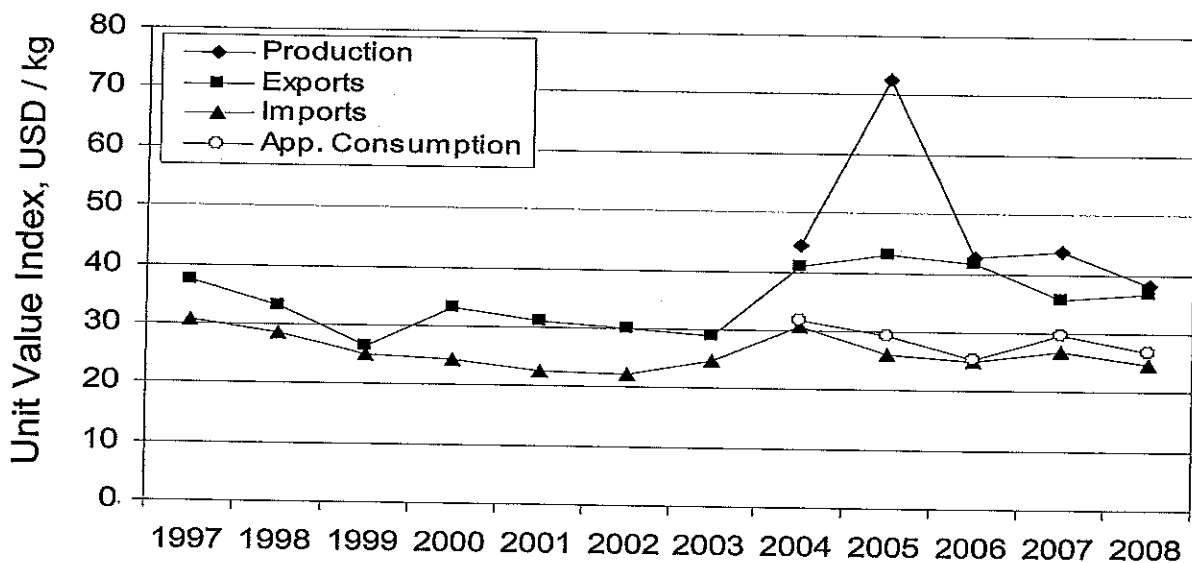
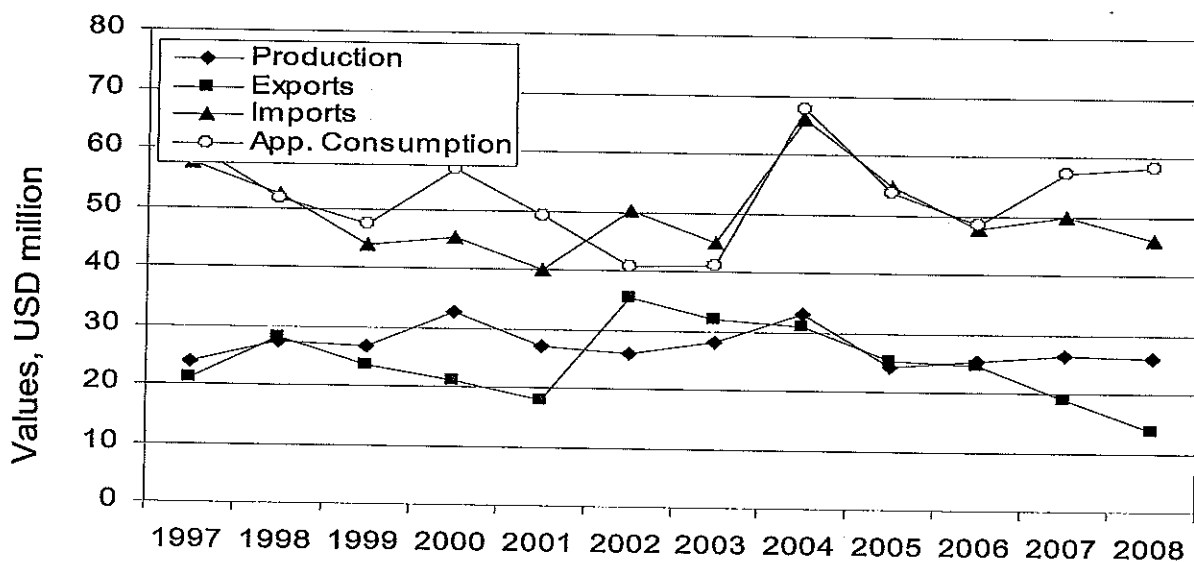
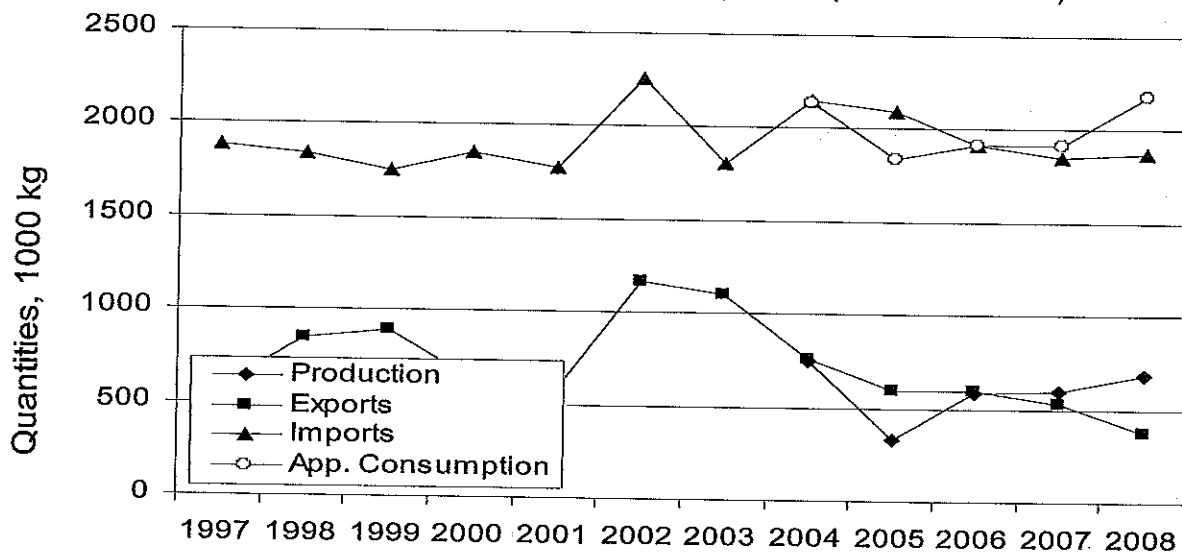


### 4.39. Sweden (USD)

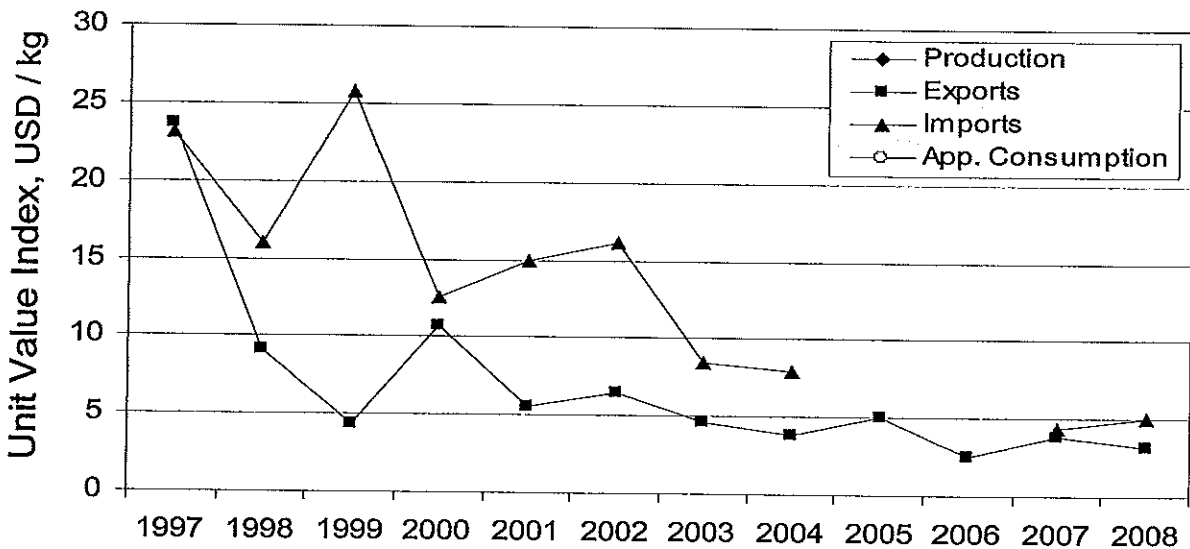
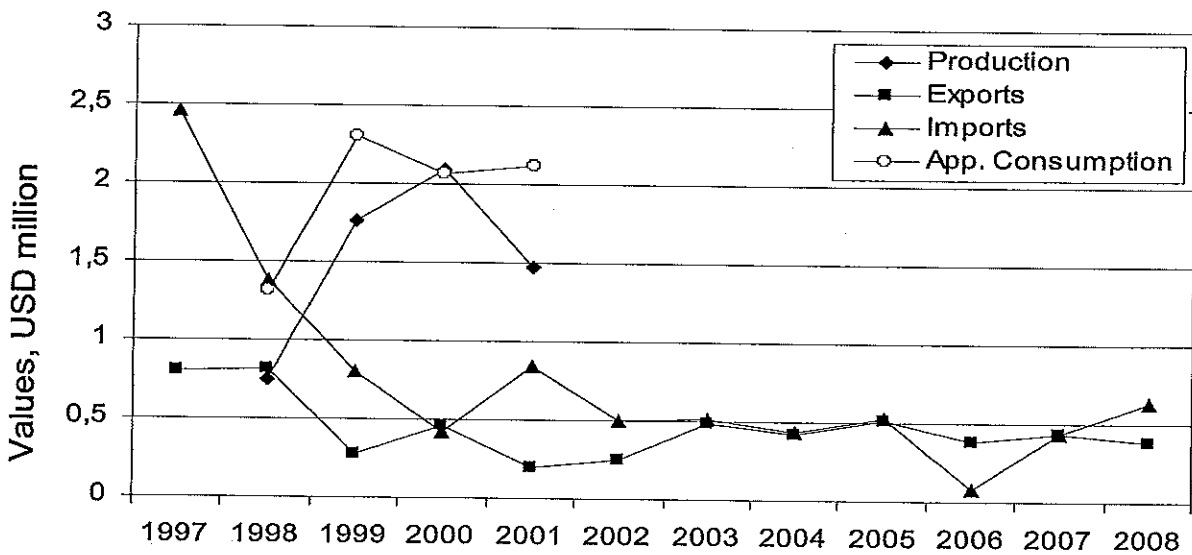
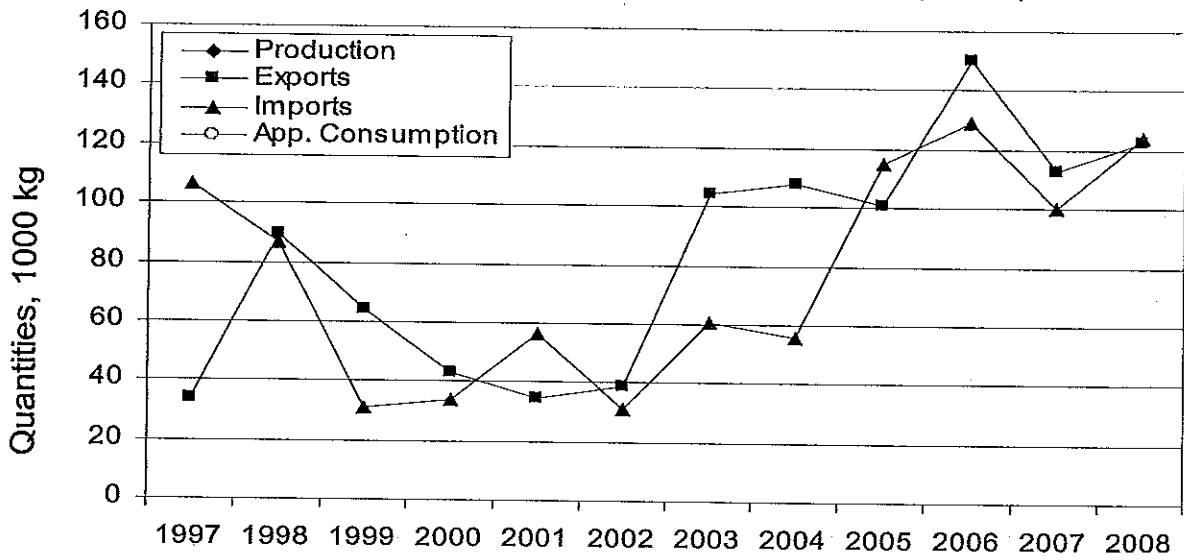
Sweden - Tools for pressing, stamping, punching and forming (820730)



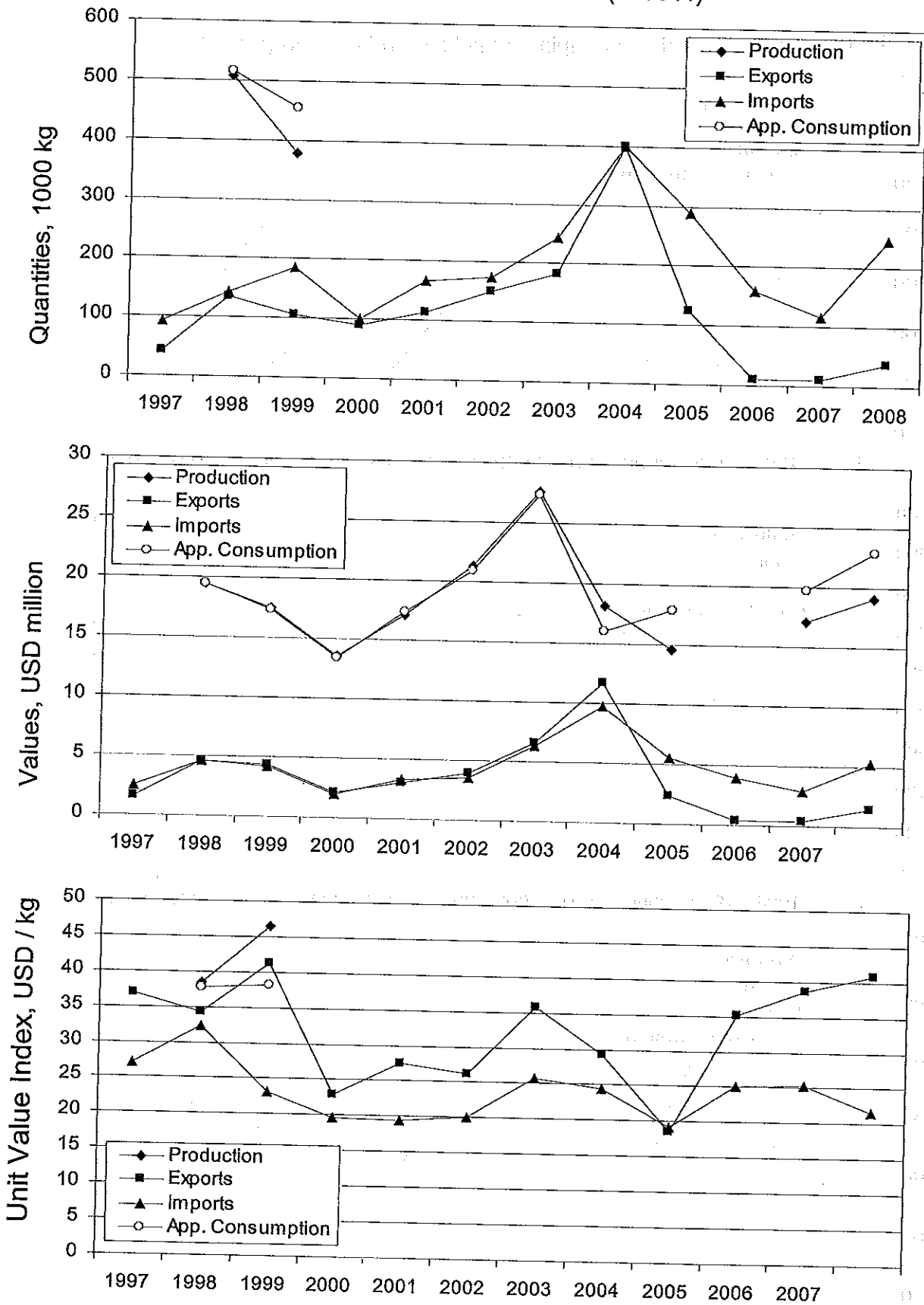
Sweden - Injection and compression moulds for plastics (849071+848079)



Sweden - Mould tools for metal or metal carbides excluding injection (848049)

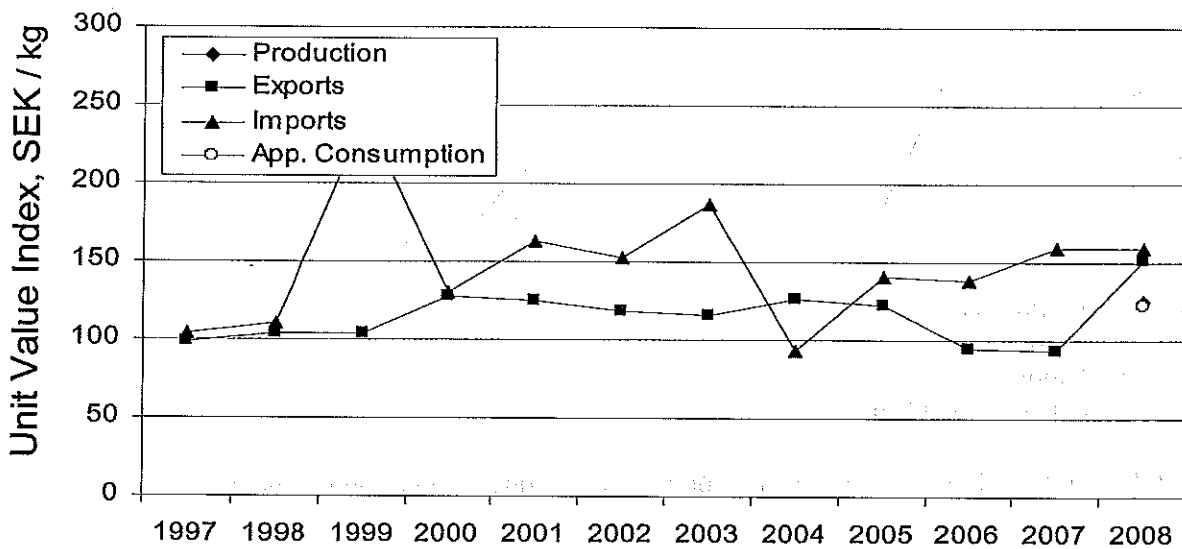
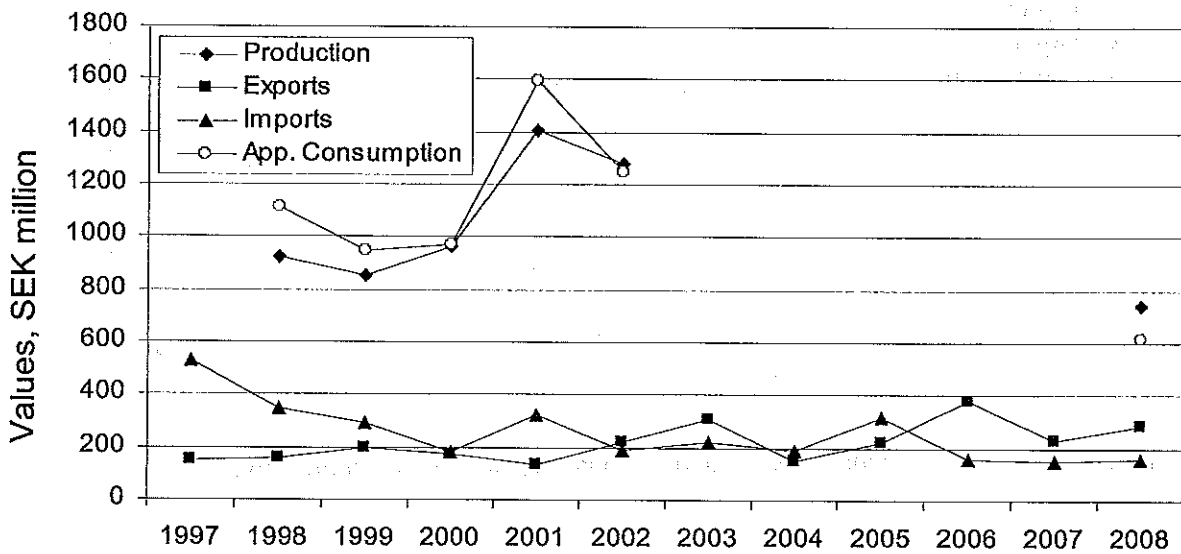
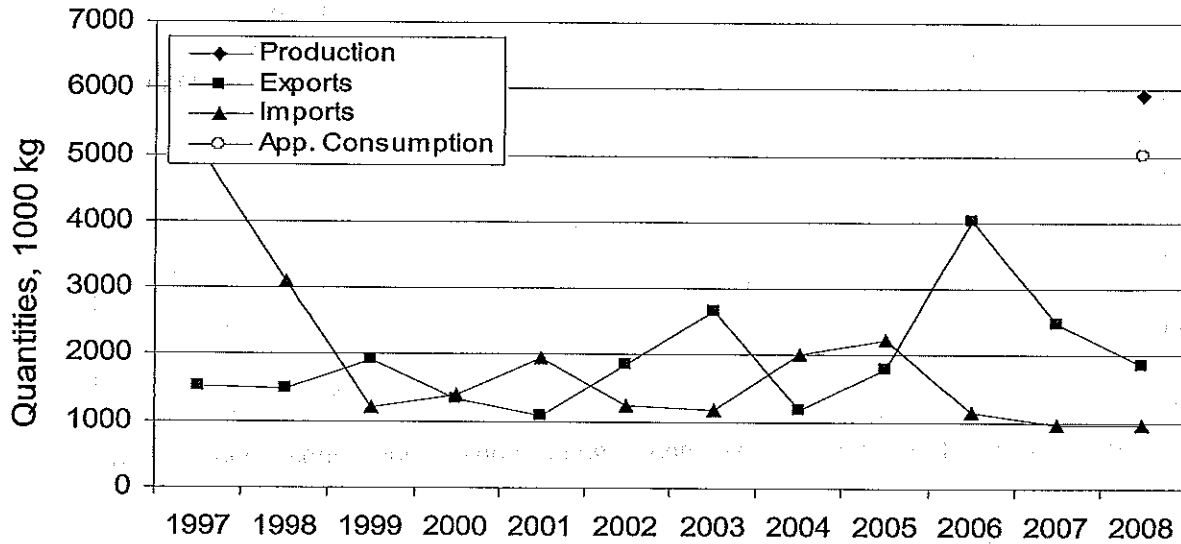


Sweden - Mould tools for metal or metal carbides (848041)

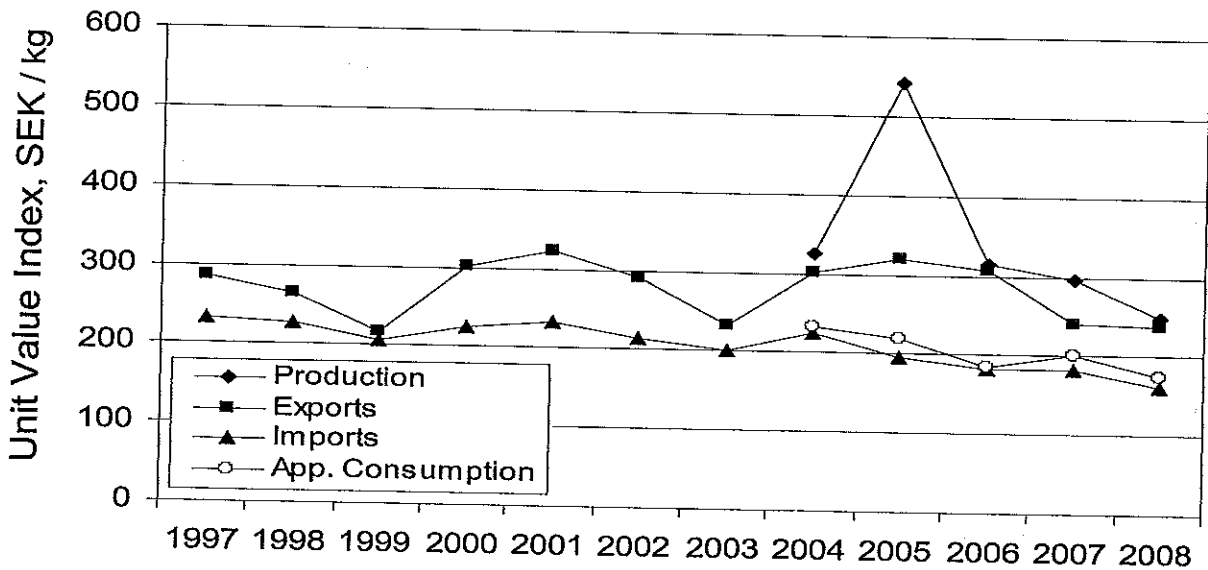
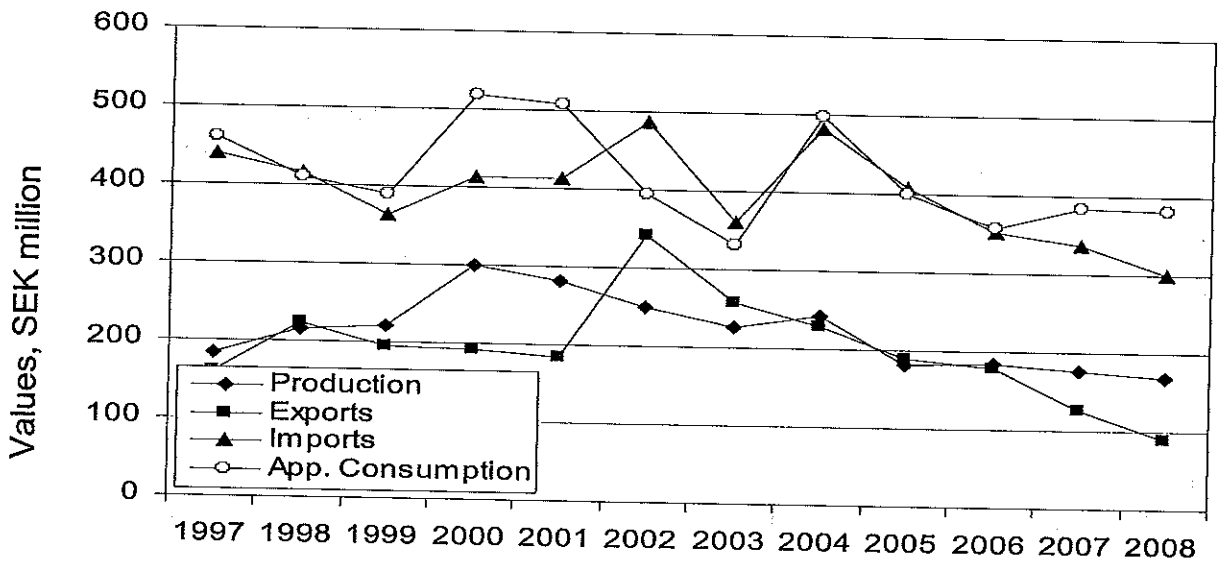
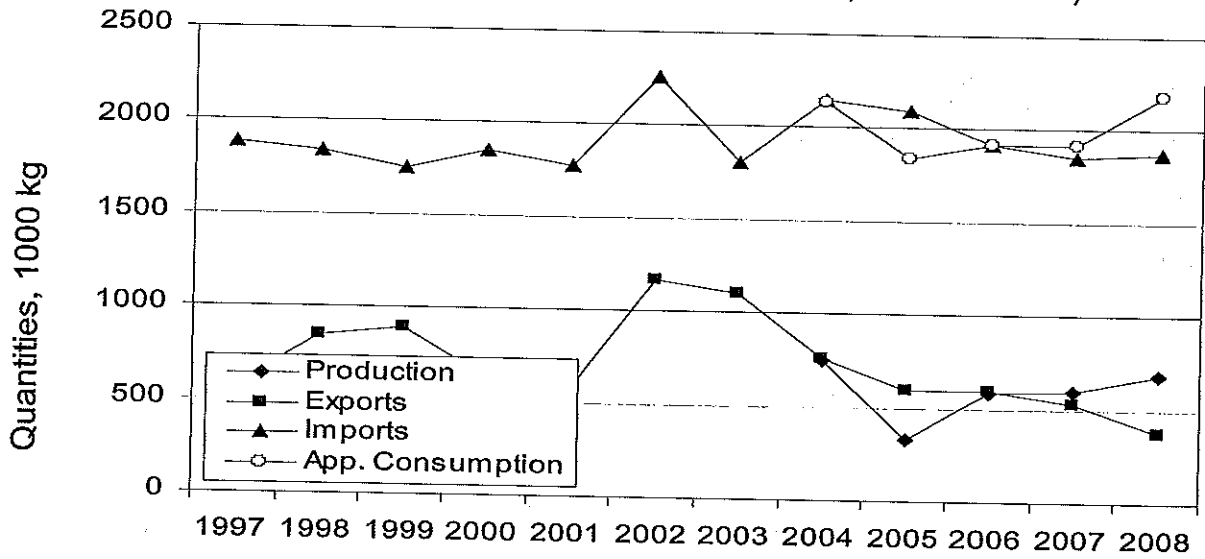


### 4.40. Sweden (Swedish Krona)

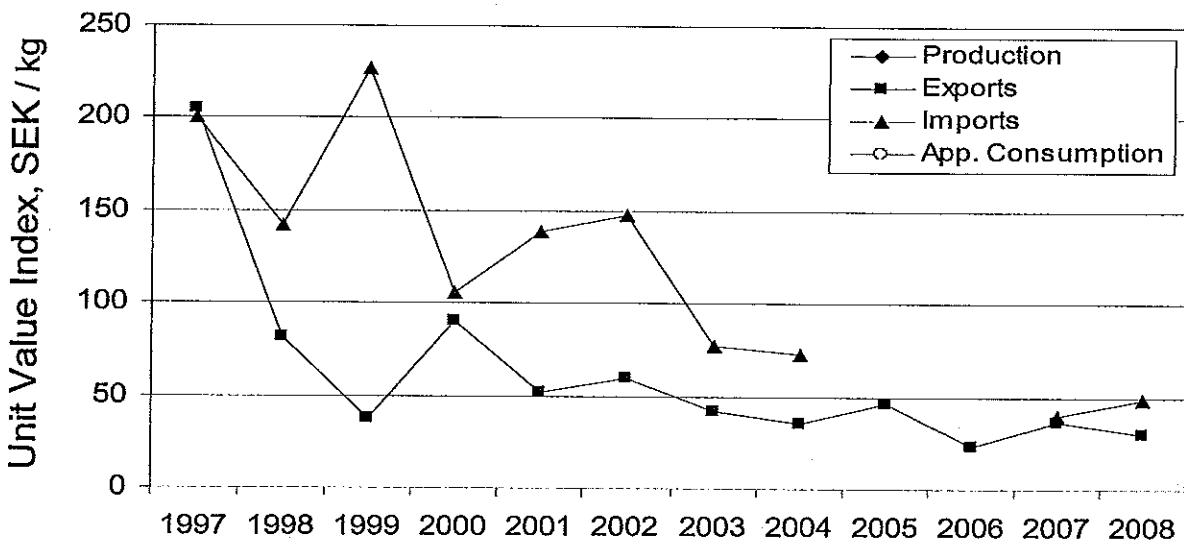
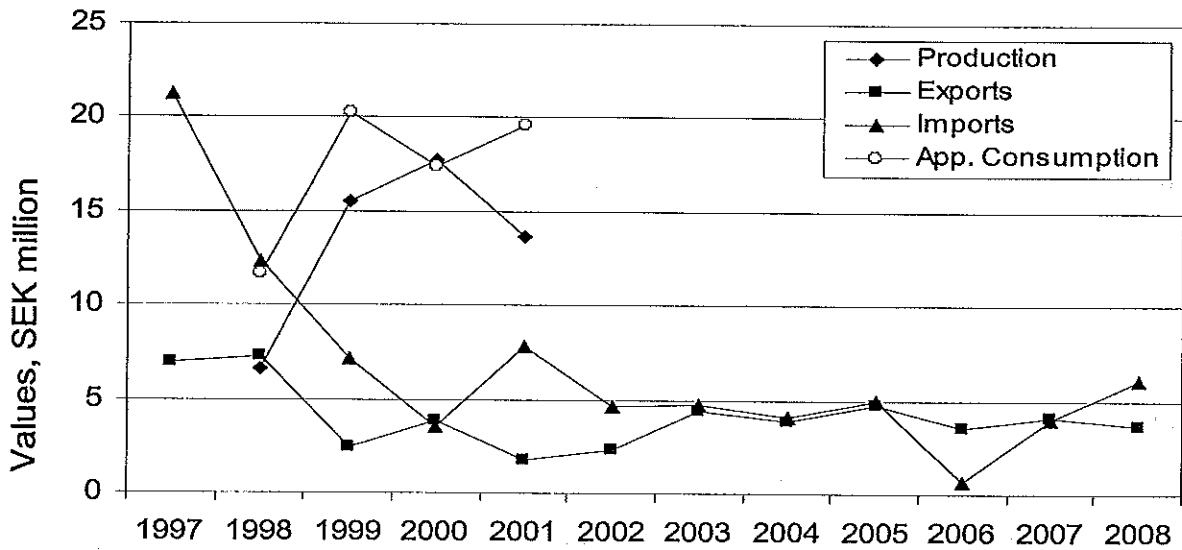
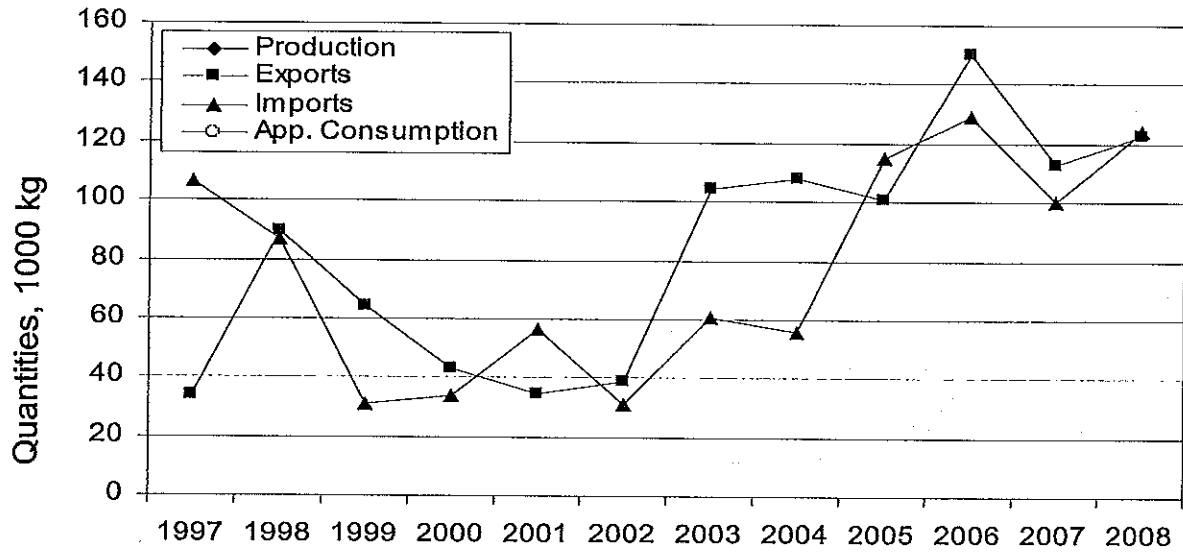
Sweden - Tools for pressing, stamping, punching and forming (820730)



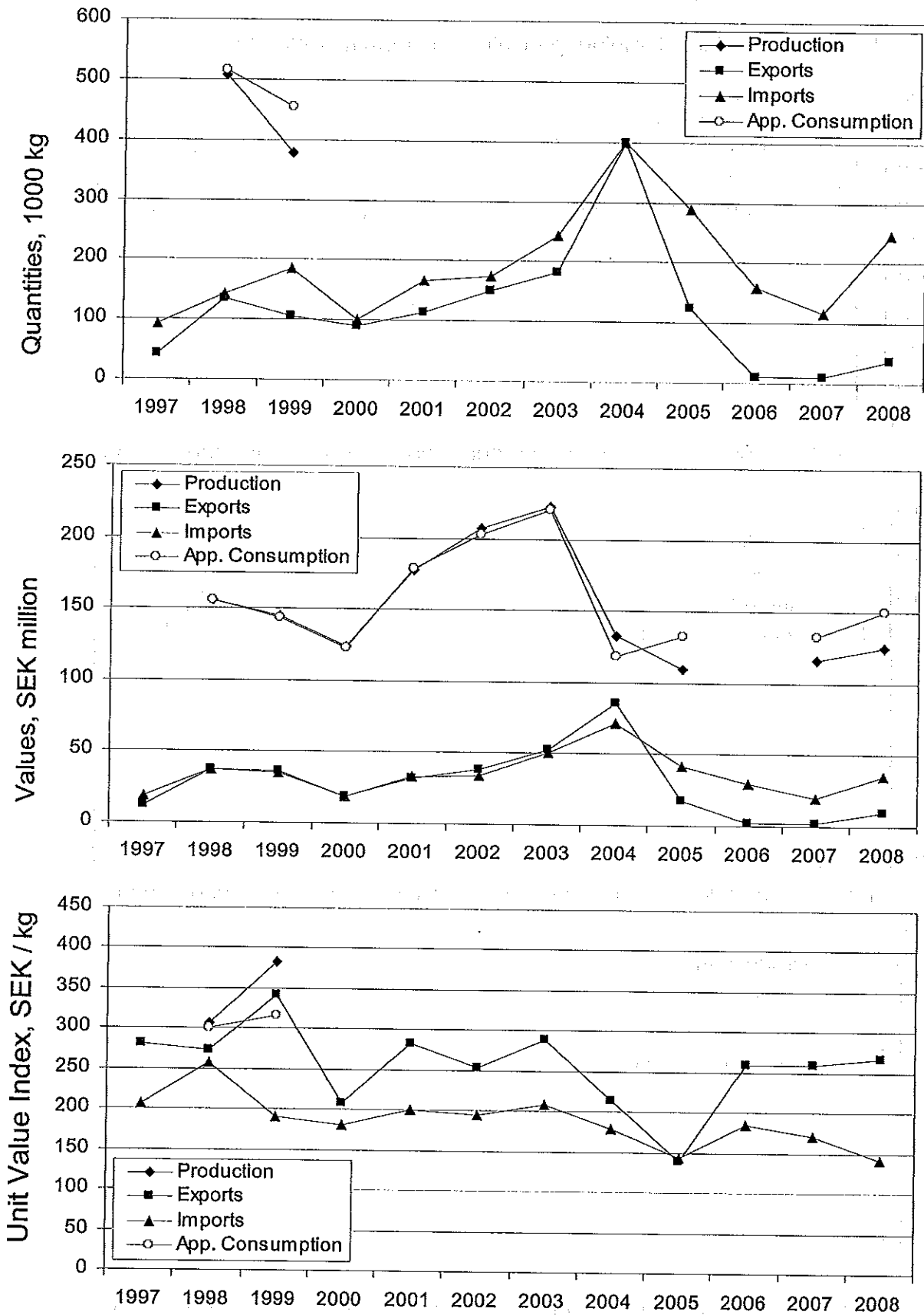
Sweden - Injection and compression moulds for plastics (849071+848079)



Sweden - Mould tools for metal or metal carbides excluding injection (848049)

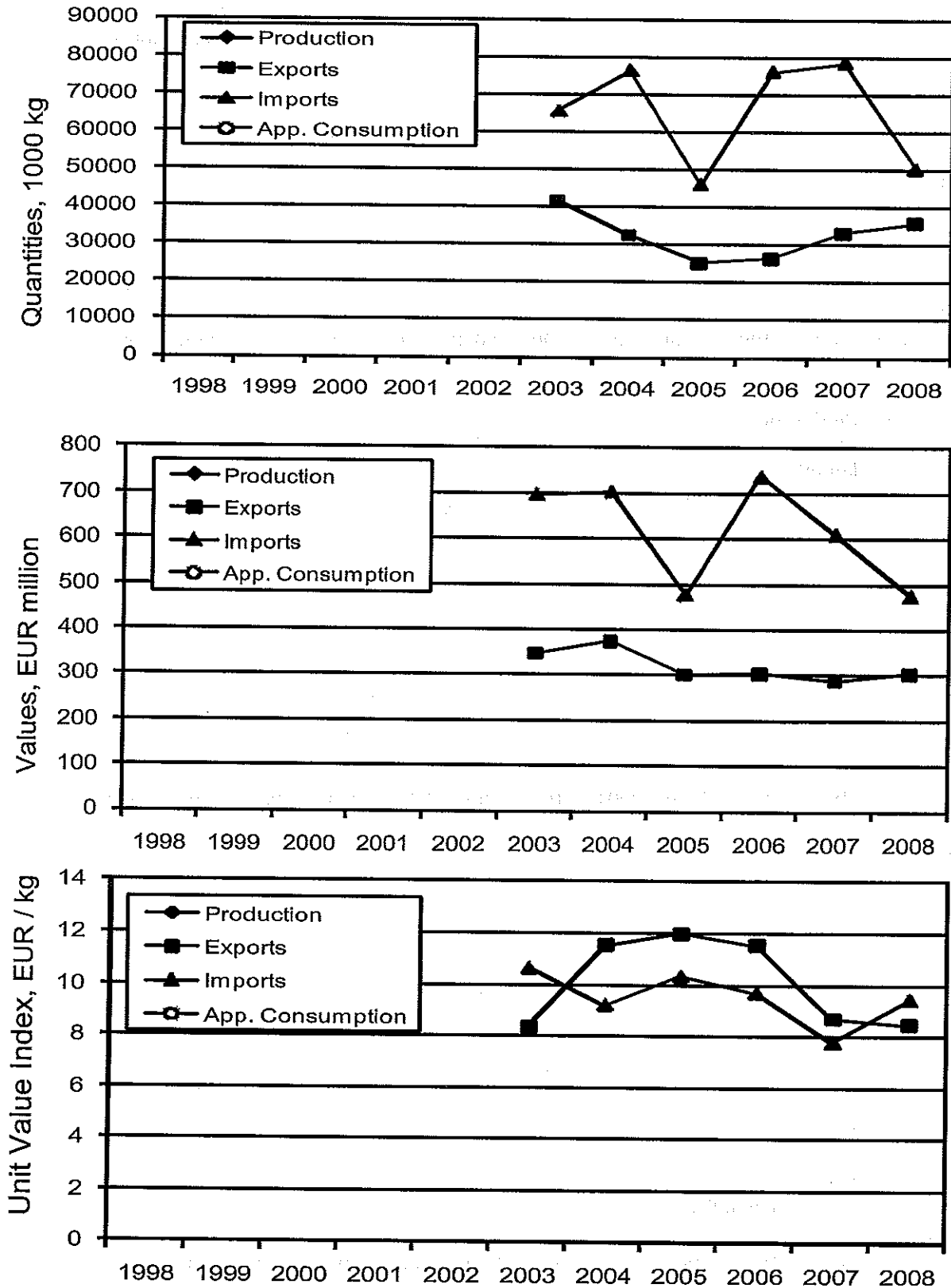


Sweden - Mould tools for metal or metal carbides (848041)

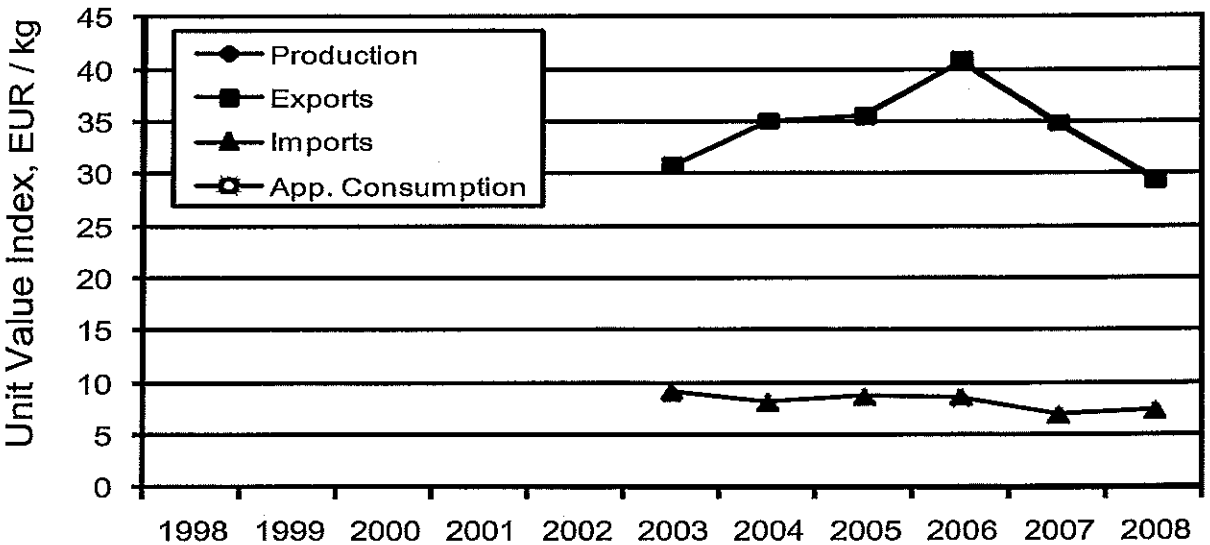
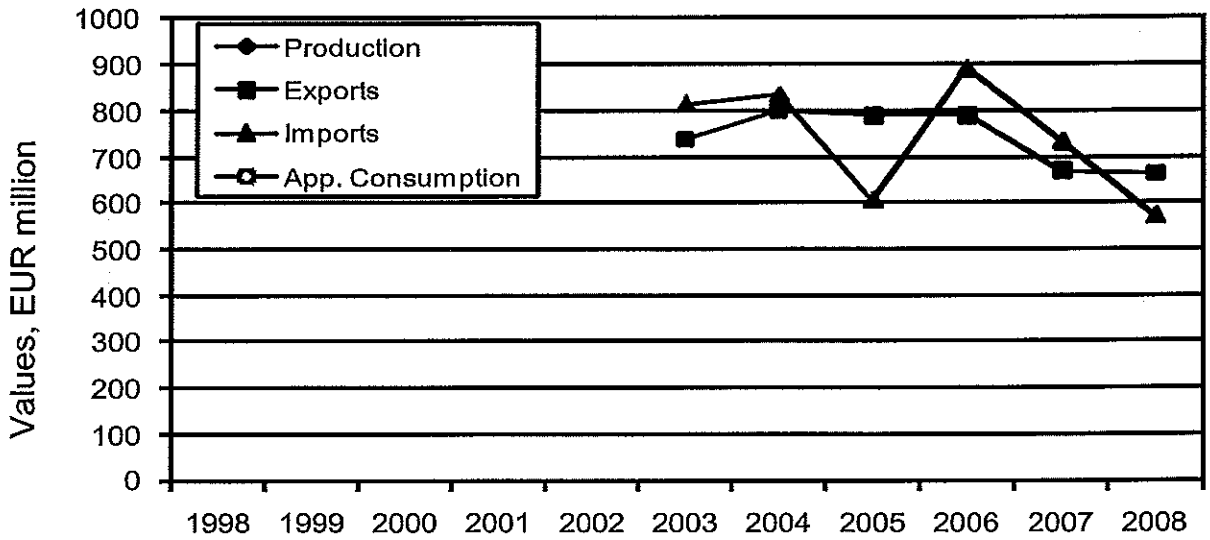
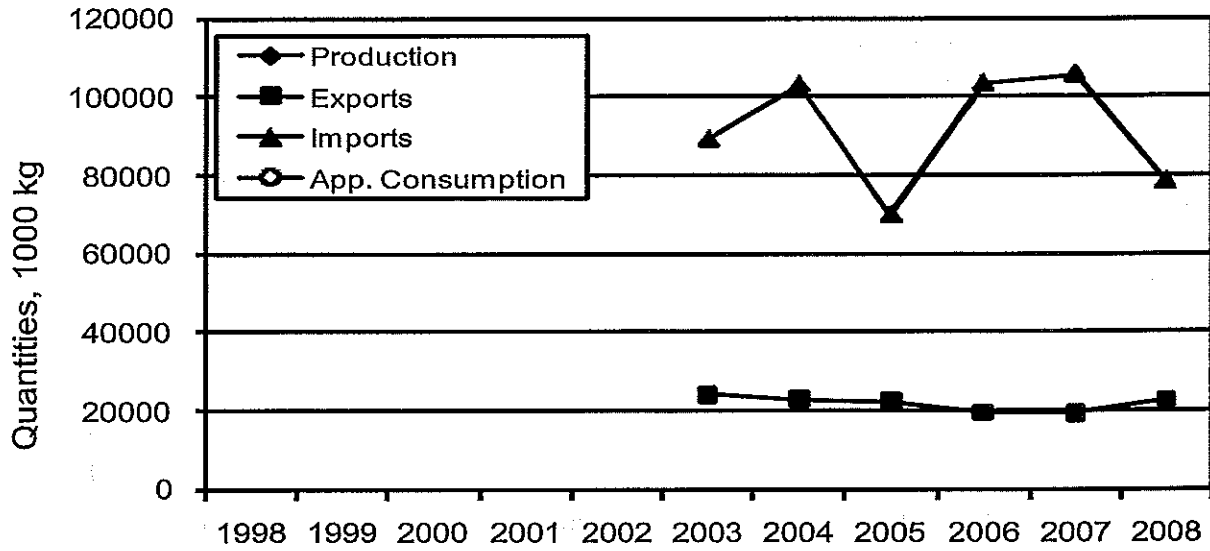


### 4.41. USA (EUR) HS Standards

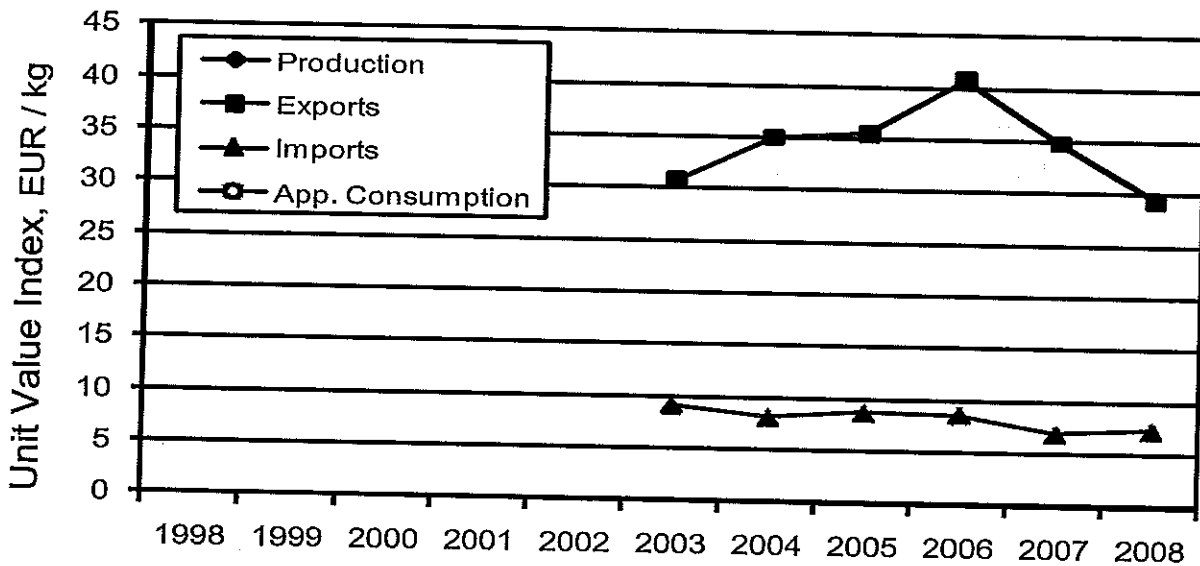
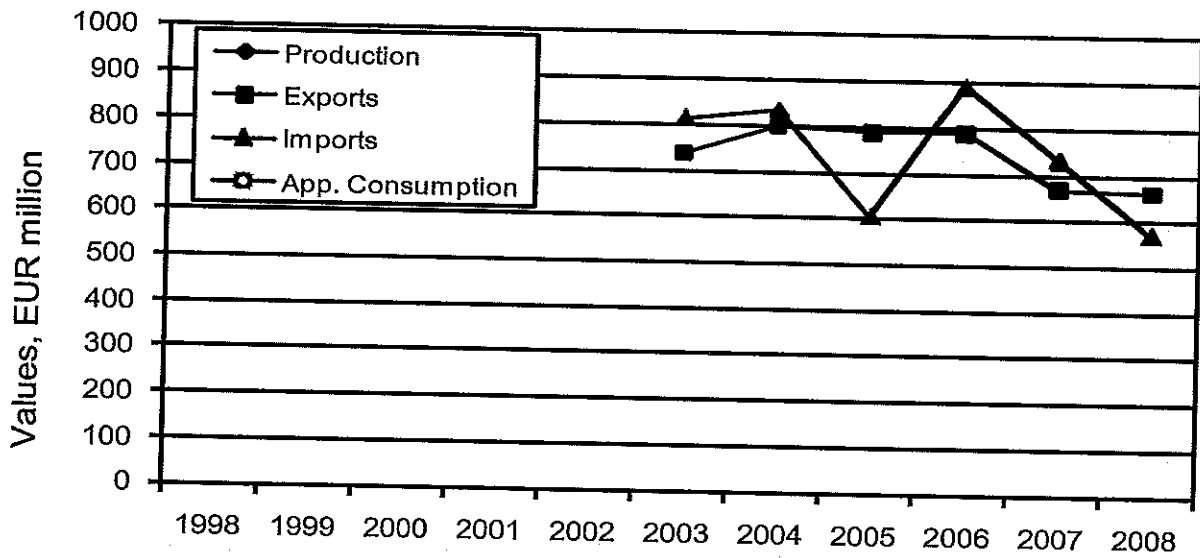
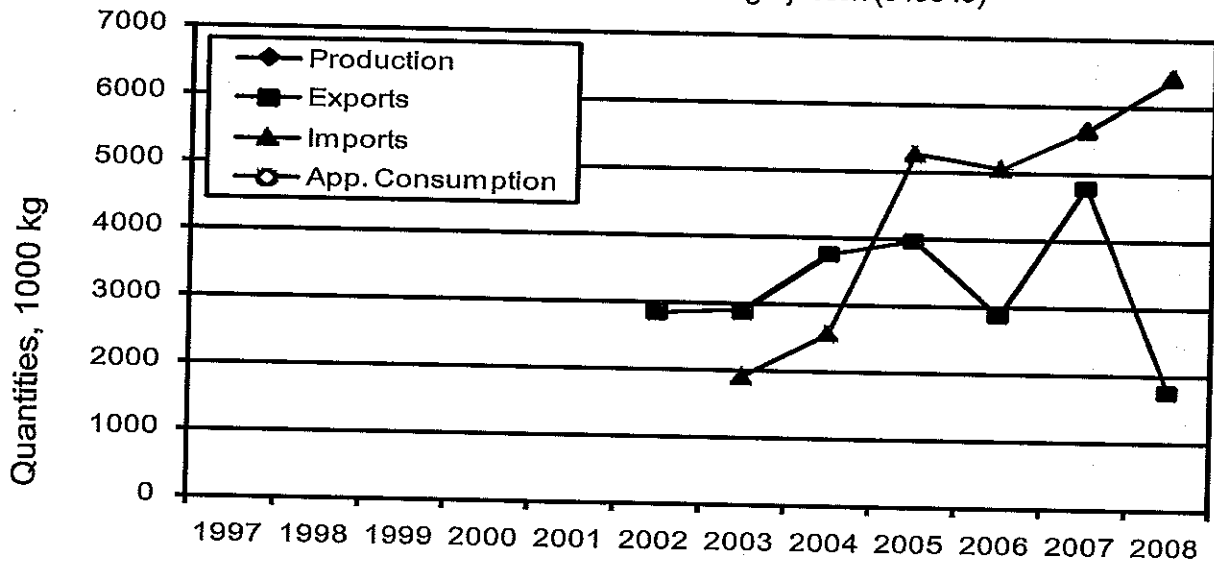
USA - Tools for pressing, stamping, punching and forming (820730)



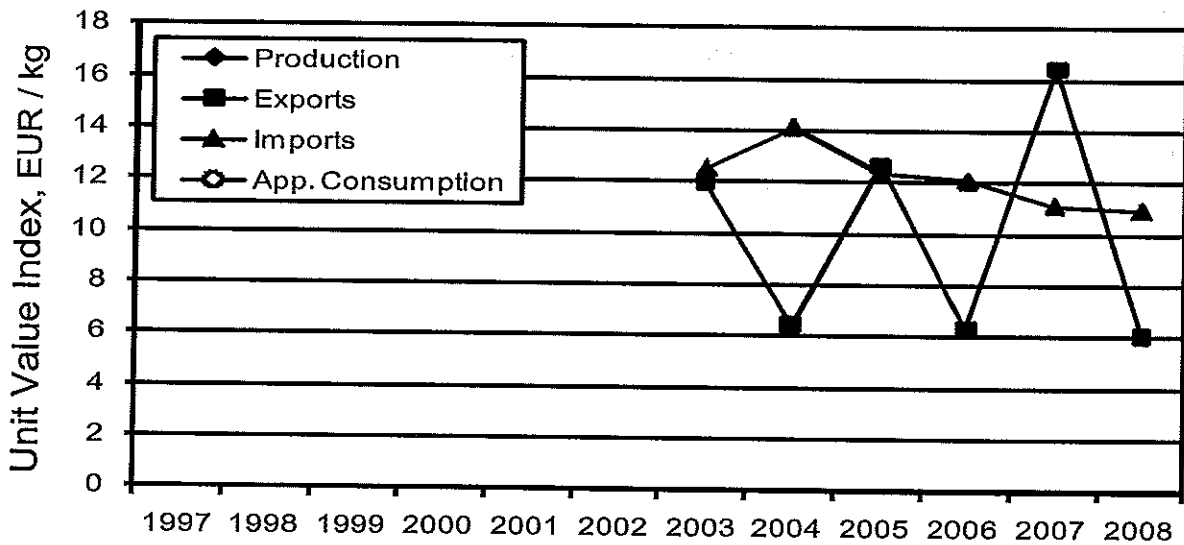
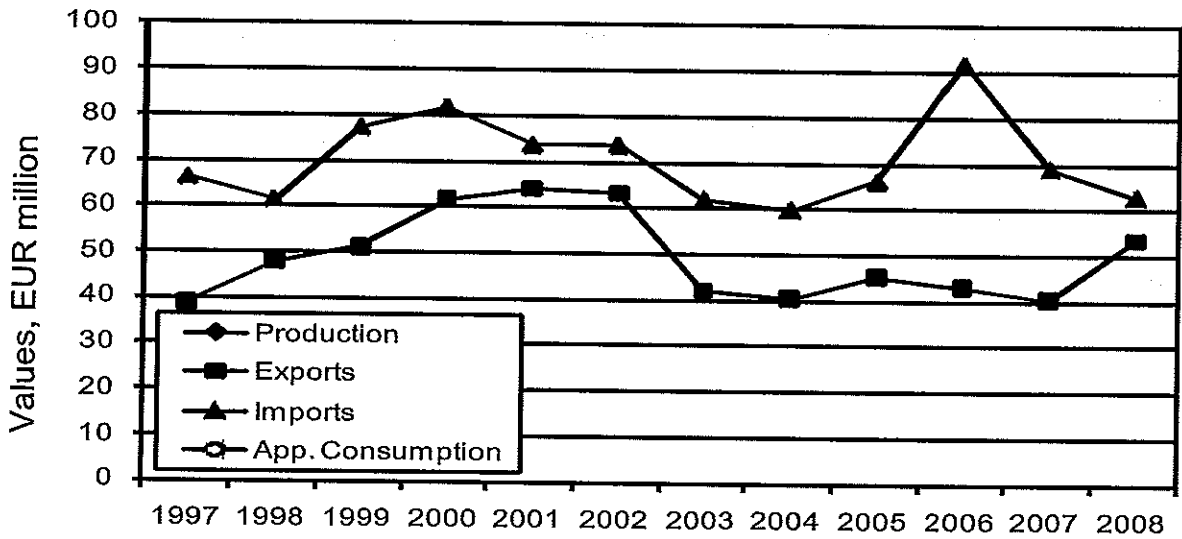
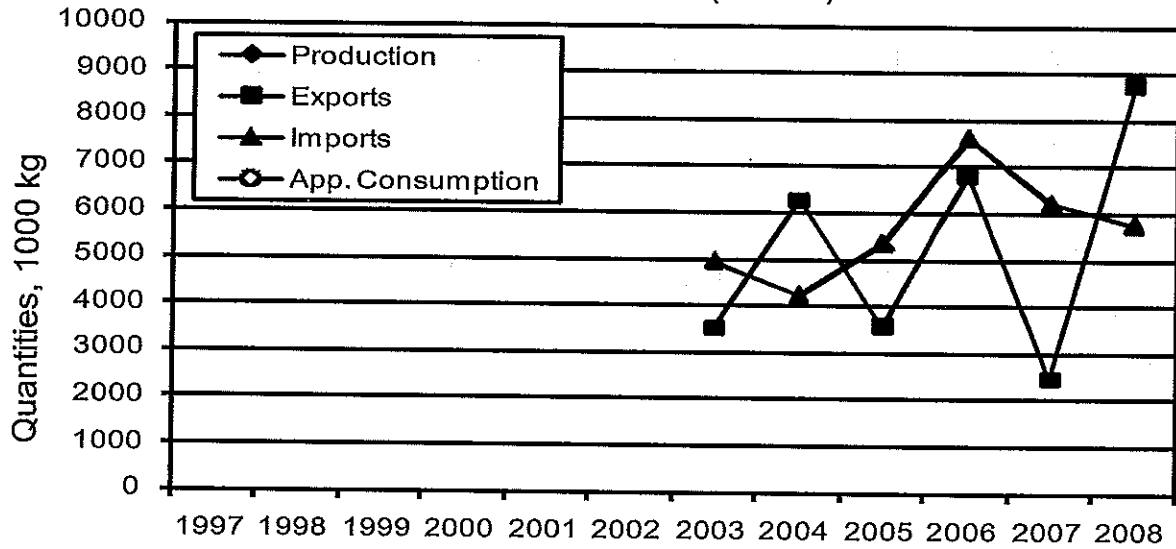
USA - Injection and compression moulds for plastics (849071+848079)



USA - Mould tools for metal or metal carbides excluding injection (848049)

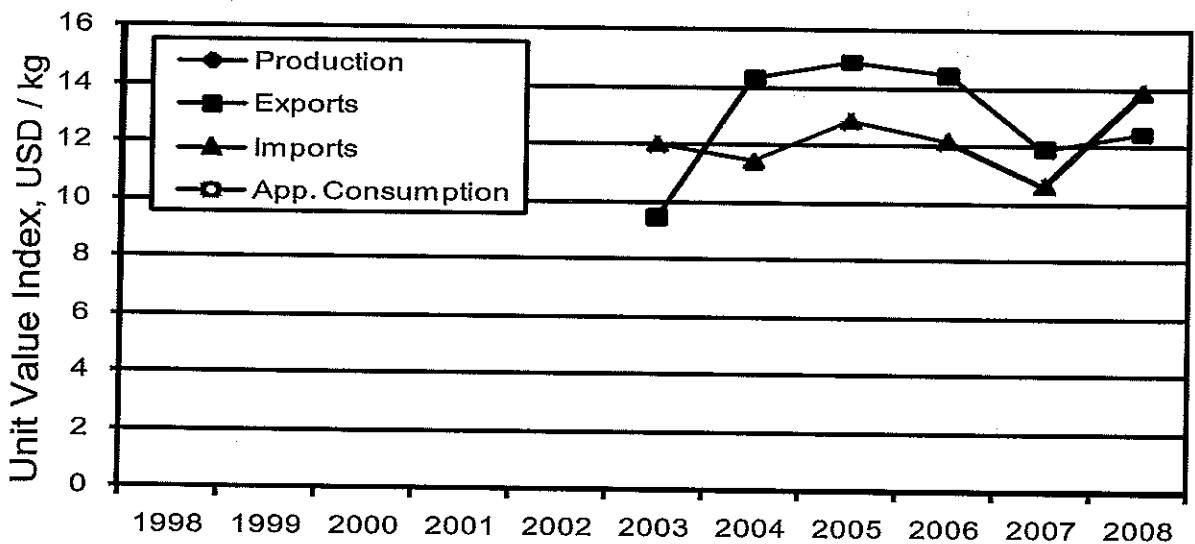
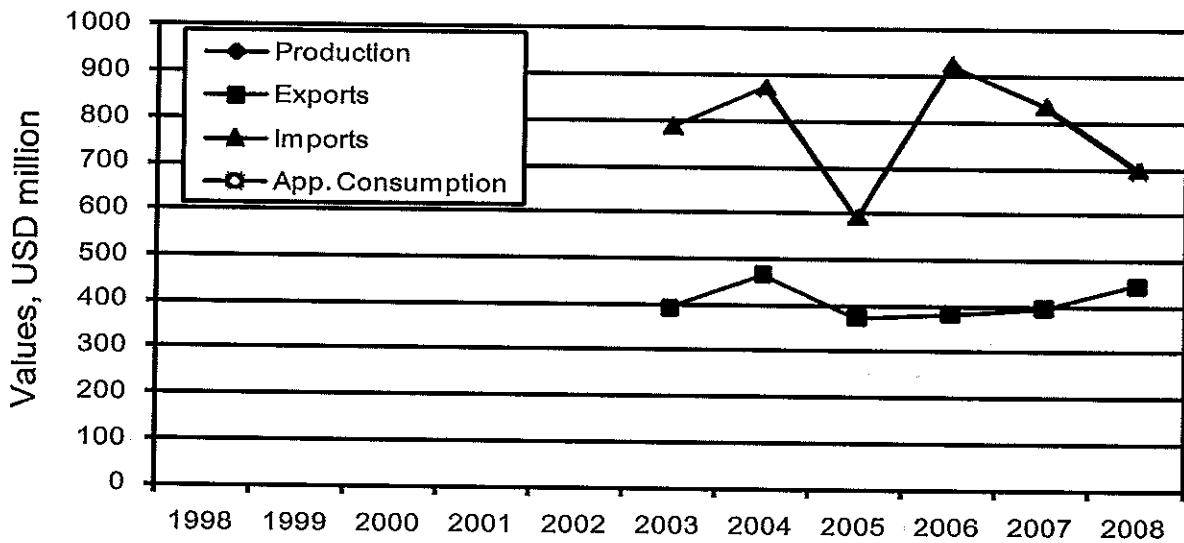
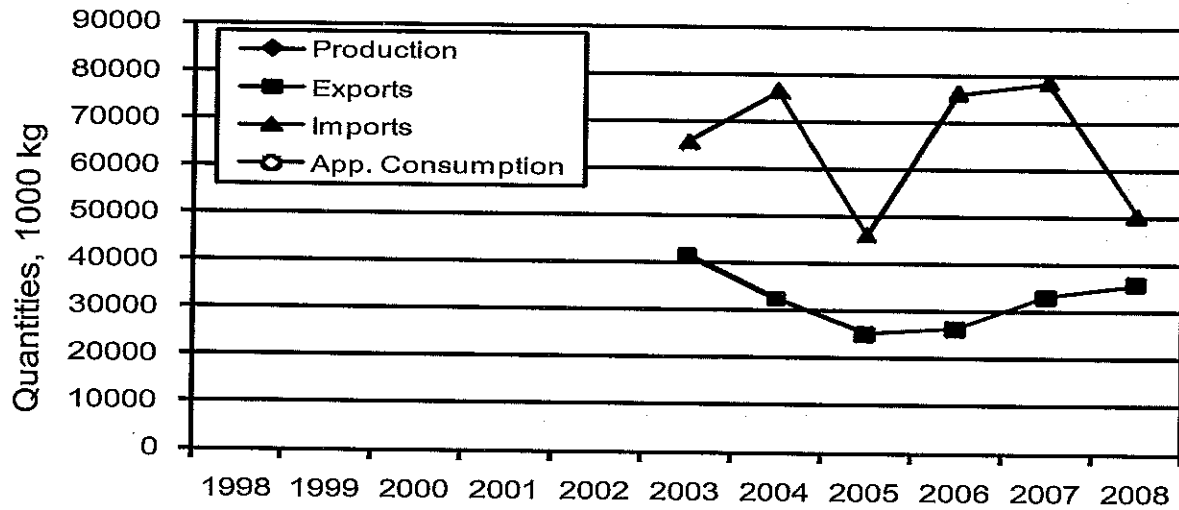


USA - Mould tools for metal or metal carbides (848041)

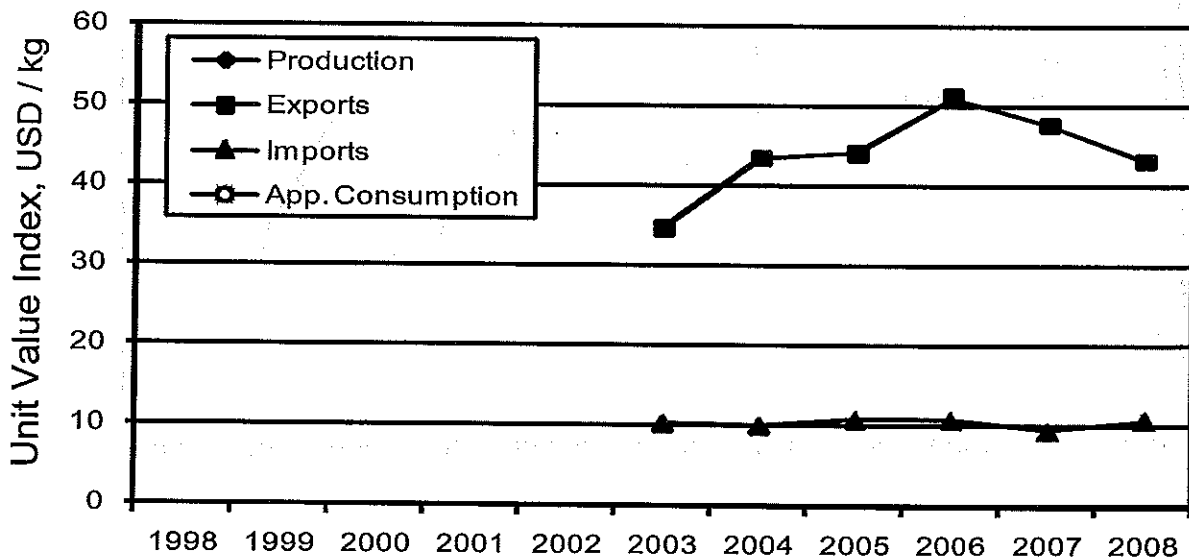
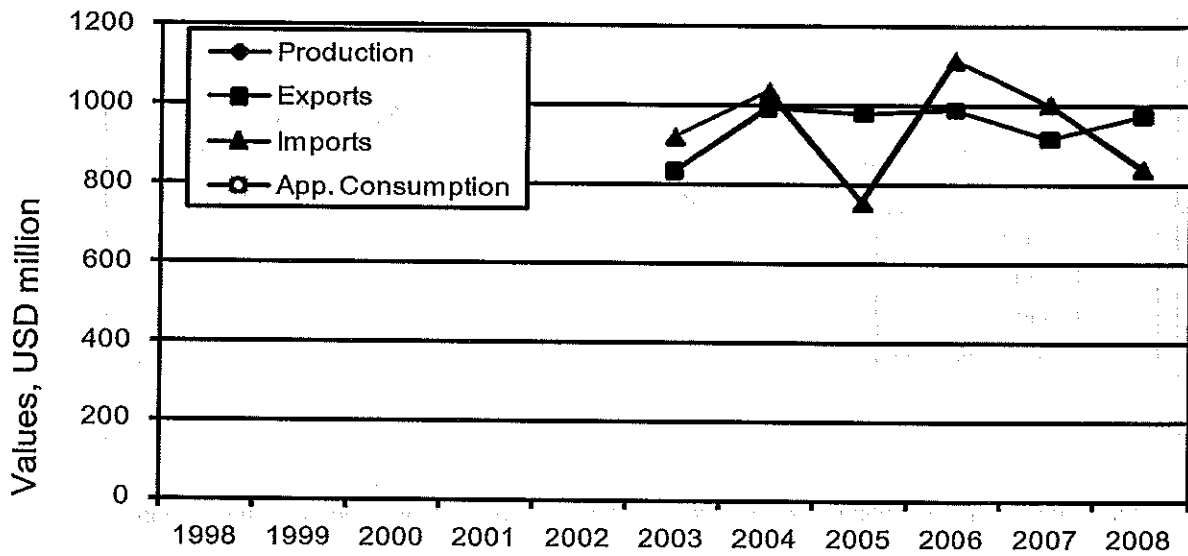
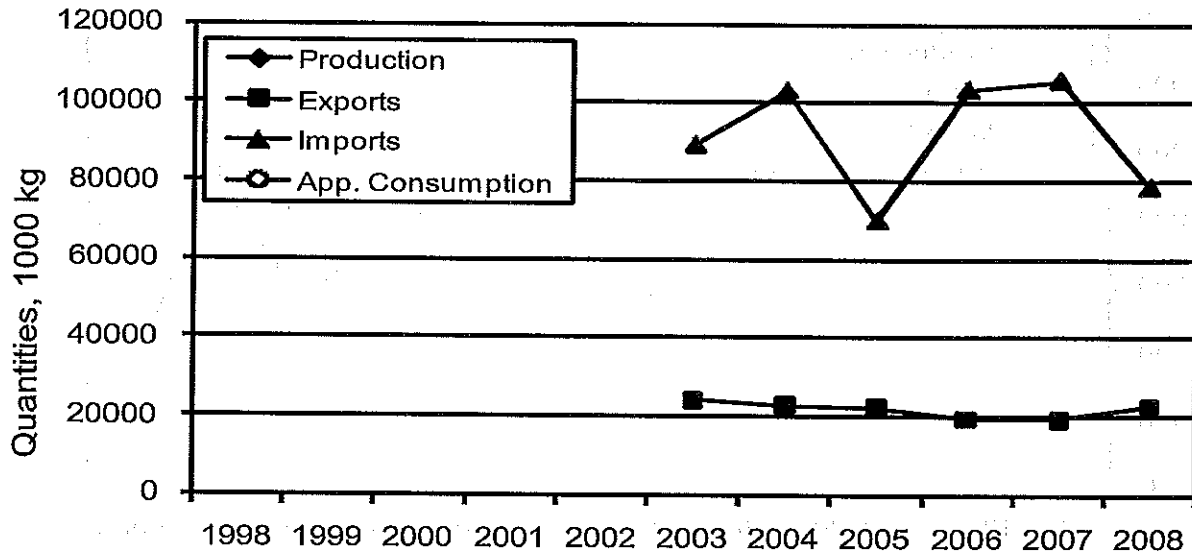


### 4.42. USA (USD) HS Standards

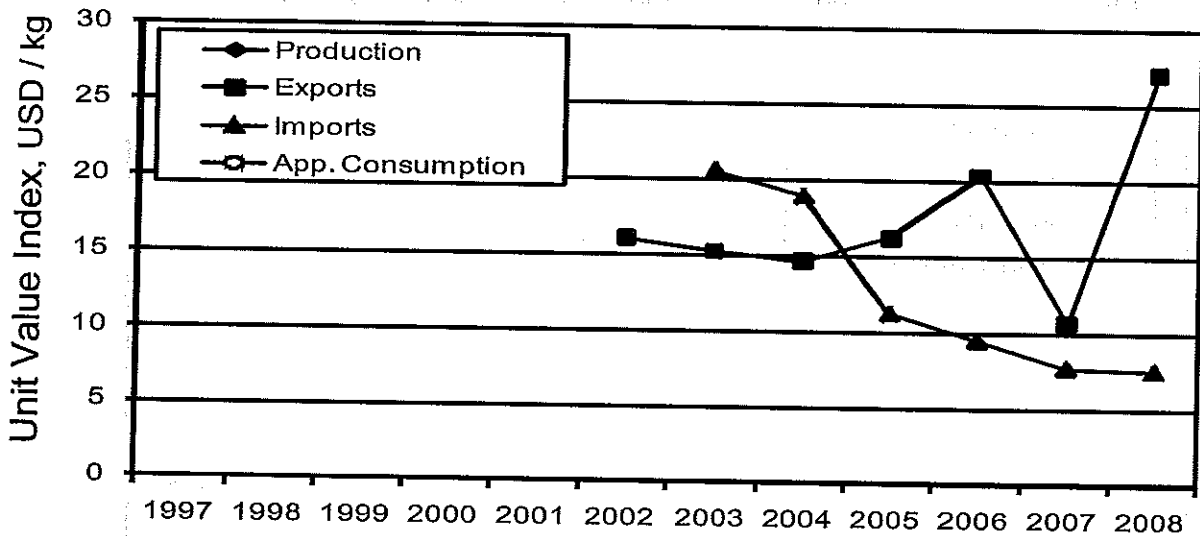
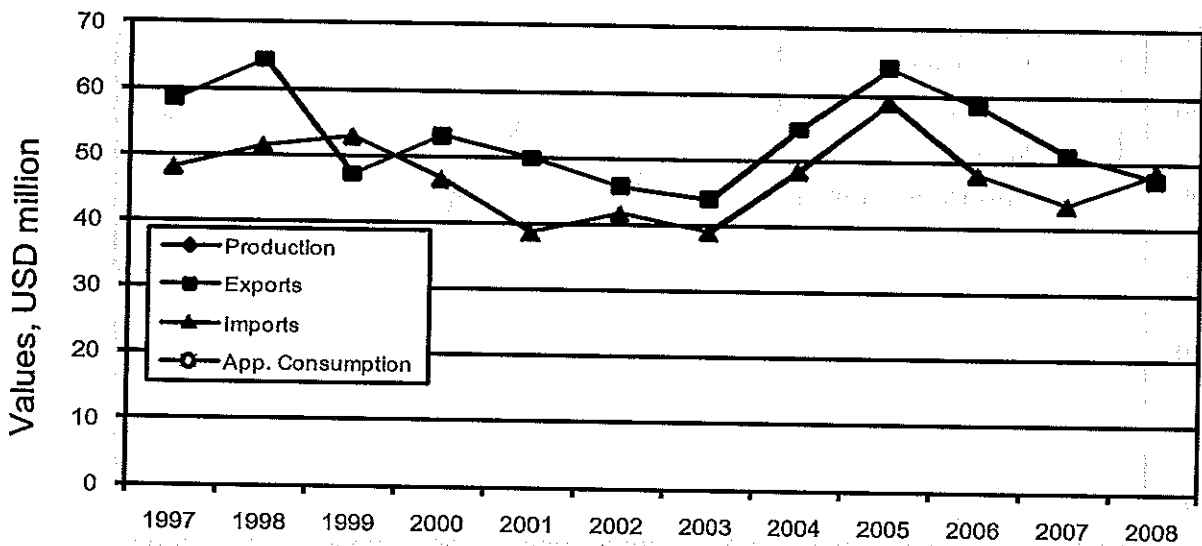
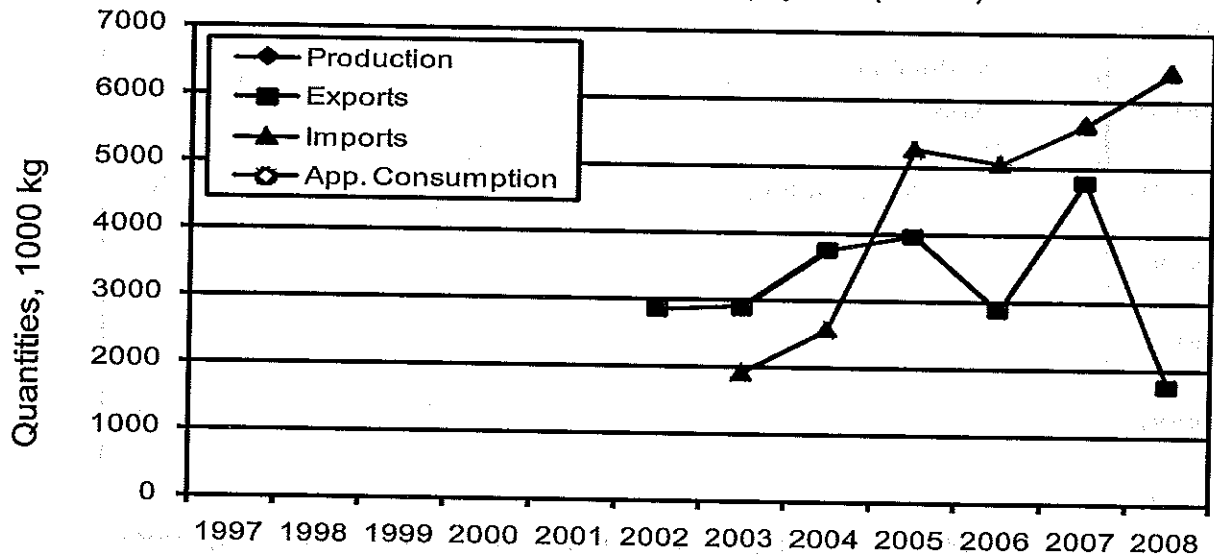
USA - Tools for pressing, stamping, punching and forming (820730)



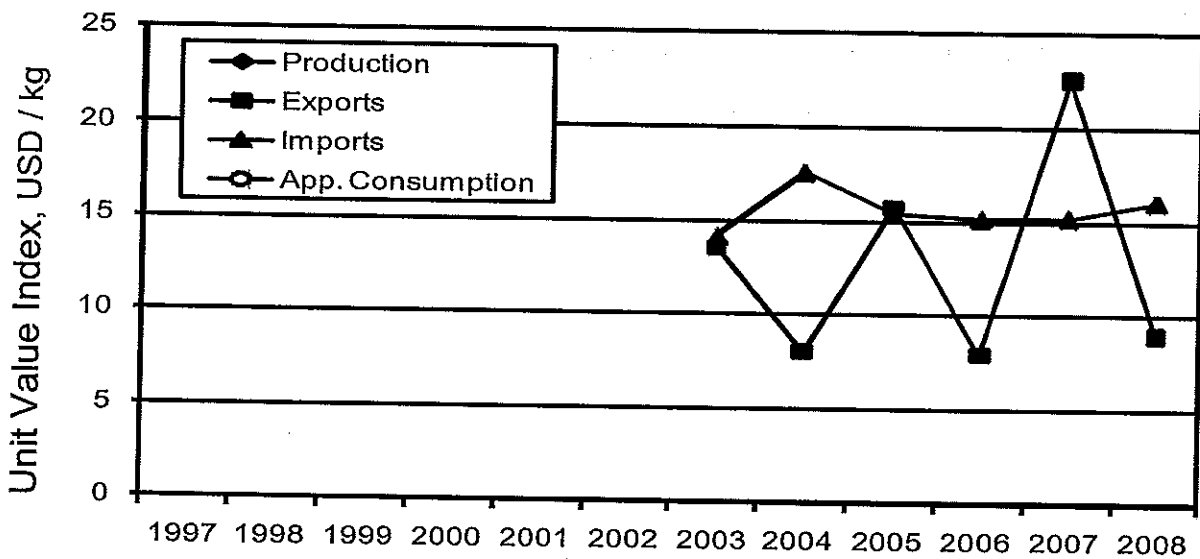
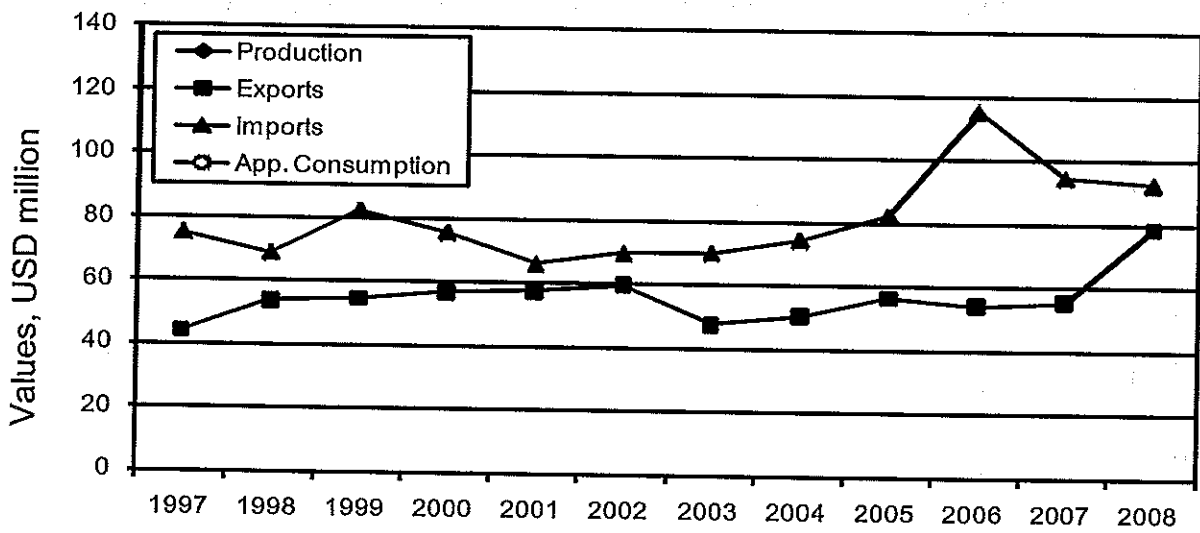
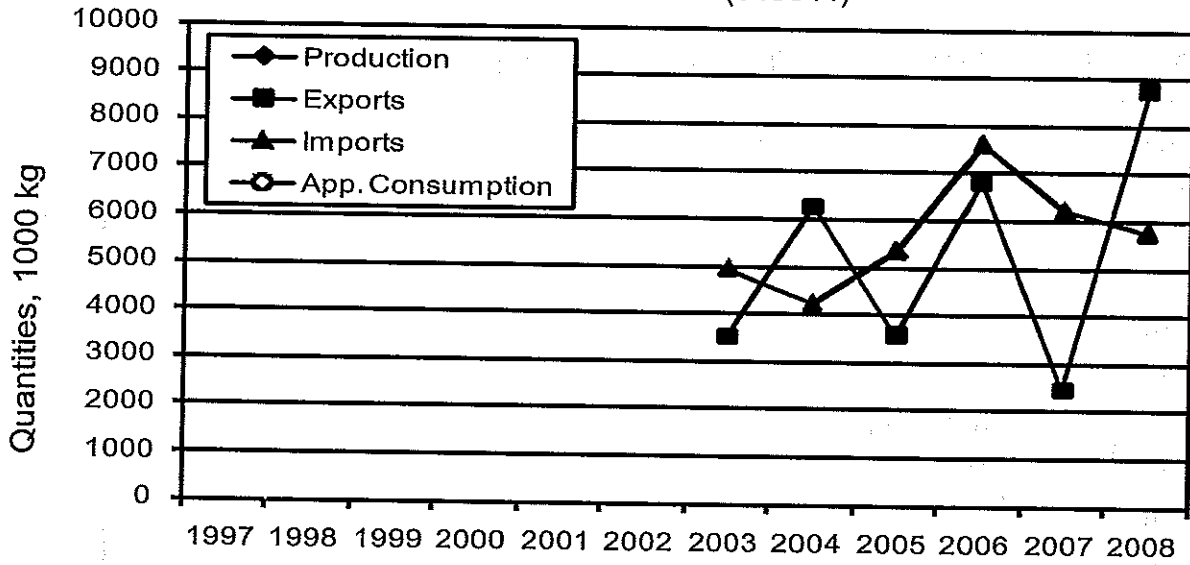
USA - Injection and compression moulds for plastics (849071+848079)



USA - Mould tools for metal or metal carbides excluding injection (848049)

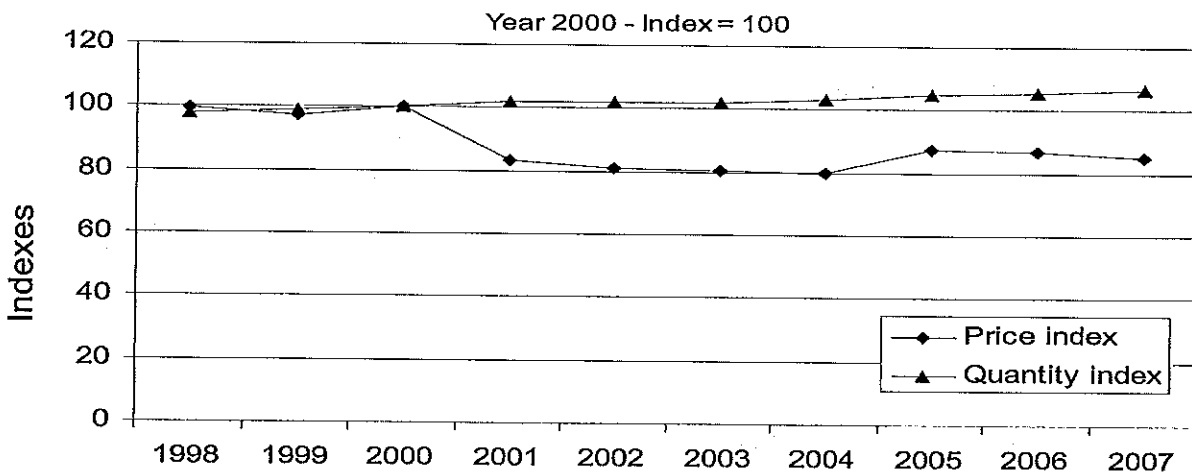
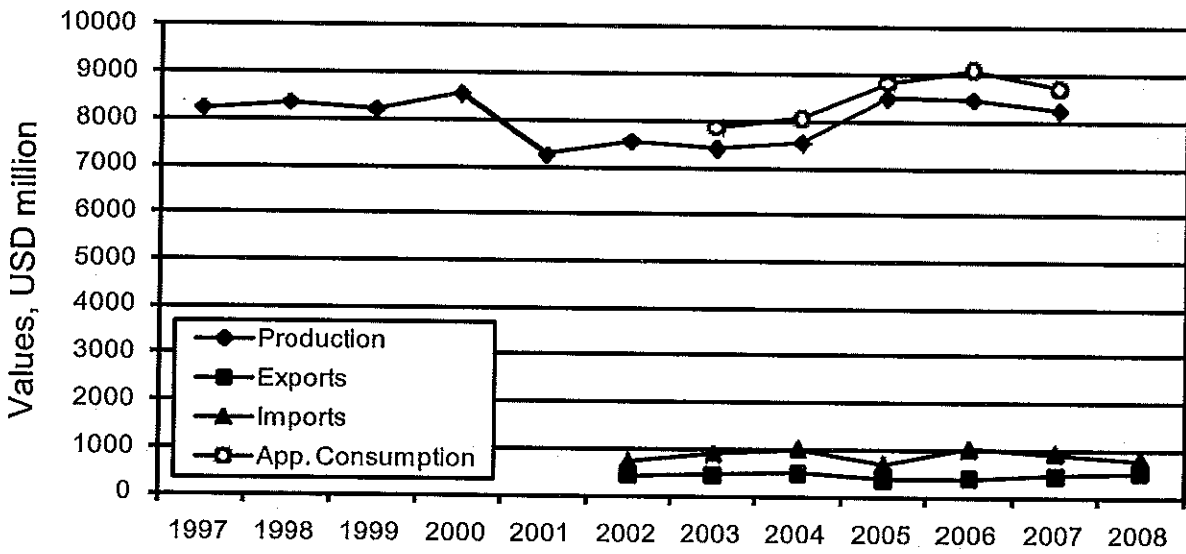
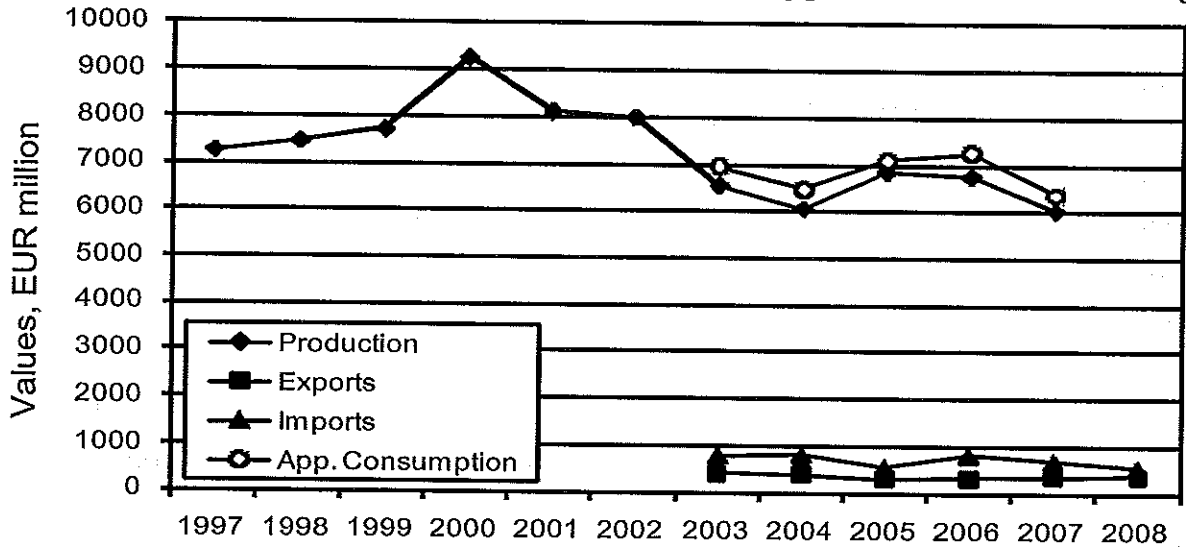


USA - Mould tools for metal or metal carbides (848041)



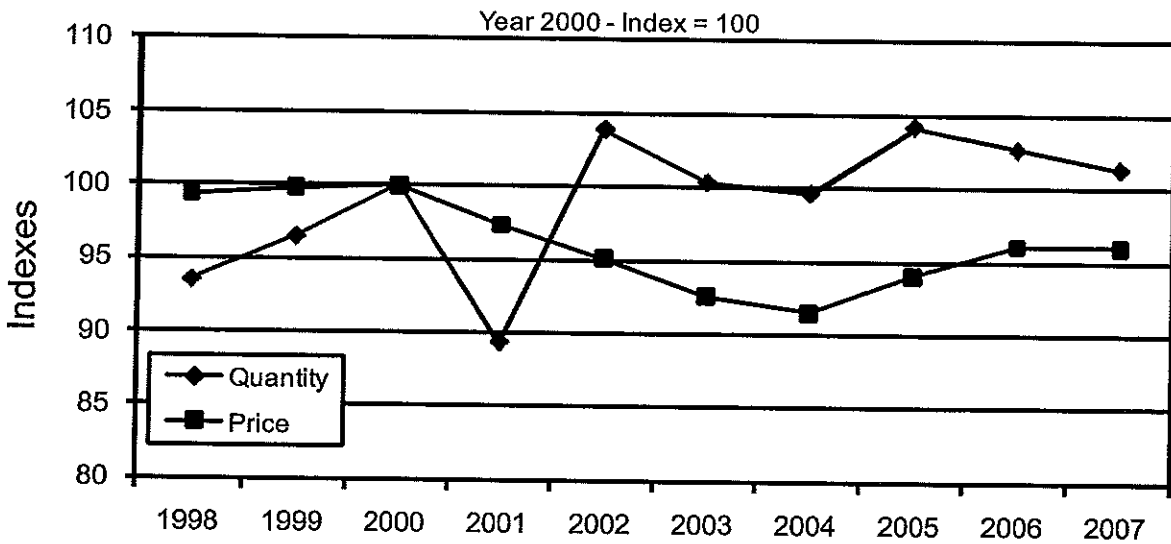
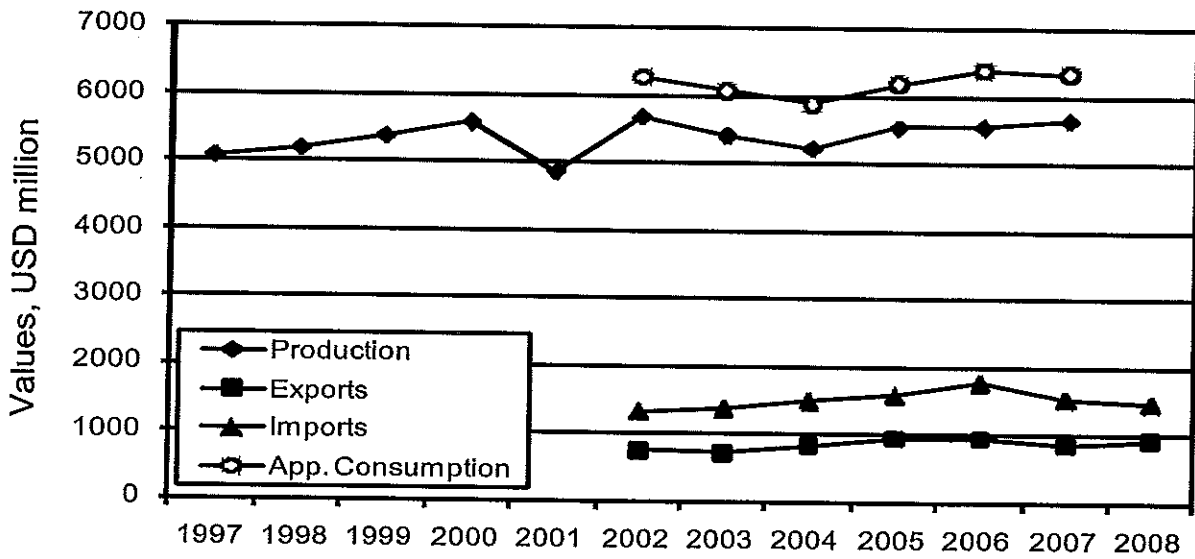
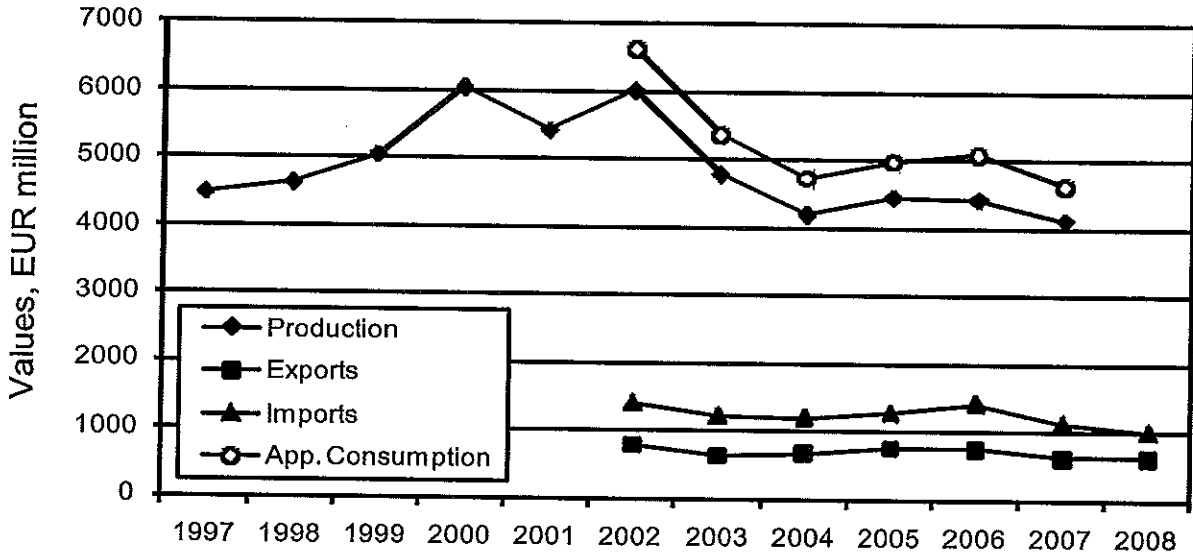
### 4.43. USA (EUR) NAICS Standards

USA – NAICS 333514, Special die and tool, die set, jig, and fixture manufacturing



### 4.44. USA (USD) NAICS Standards

USA – NAICS 333511, Industrial mold manufacturing



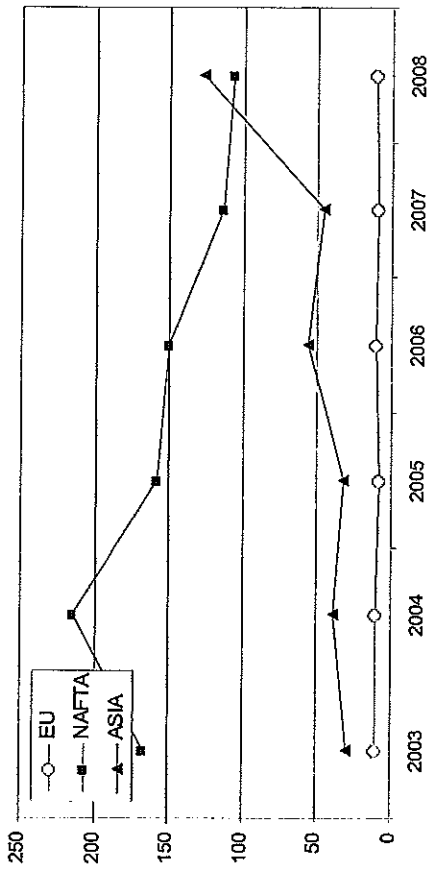


## **5. International Trade – EU25, NAFTA and Asia**

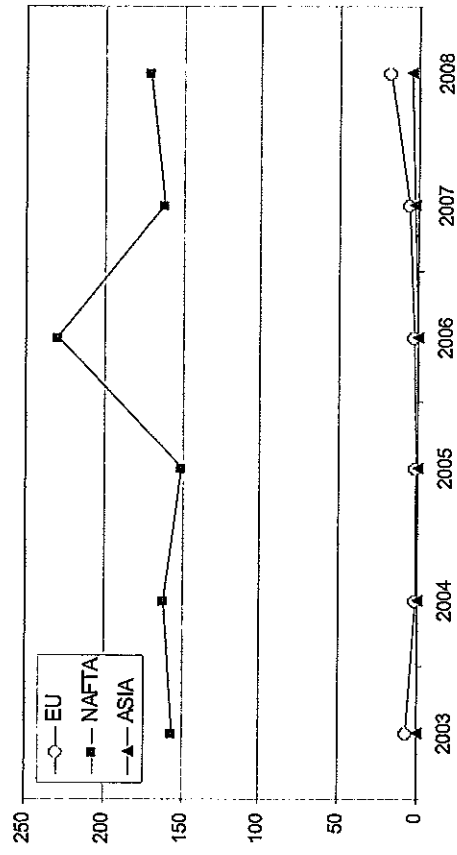
### **5.1. Dies (HS6 820730)**

### 5.1.1. Canada – Dies

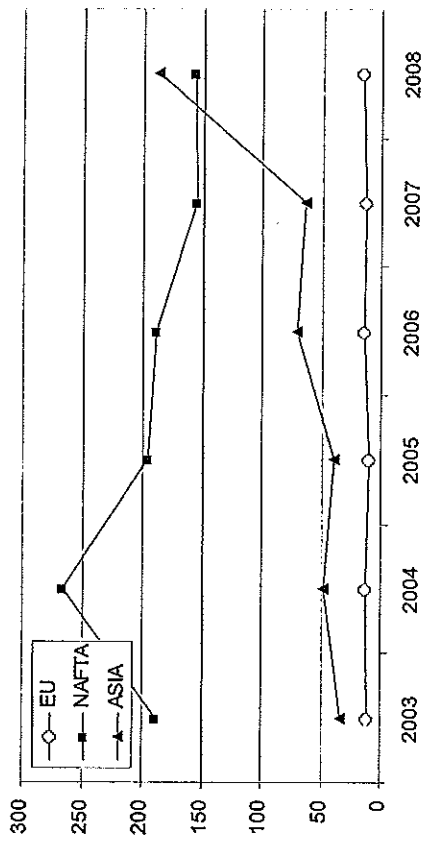
Imports – EUR millions



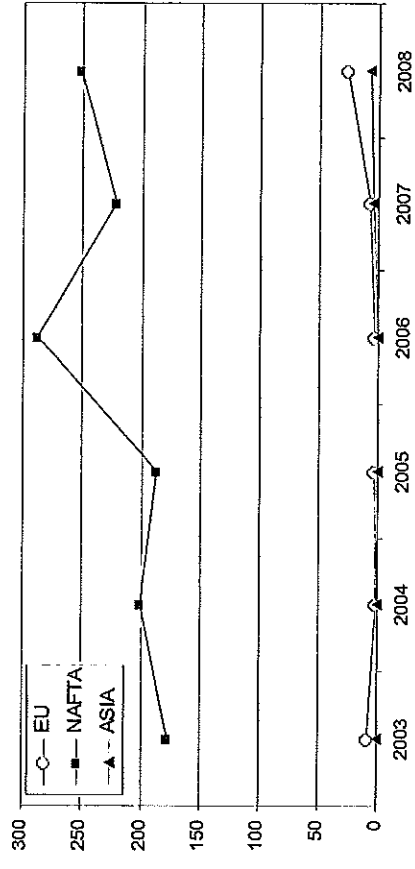
Exports – EUR millions



Imports – USD millions

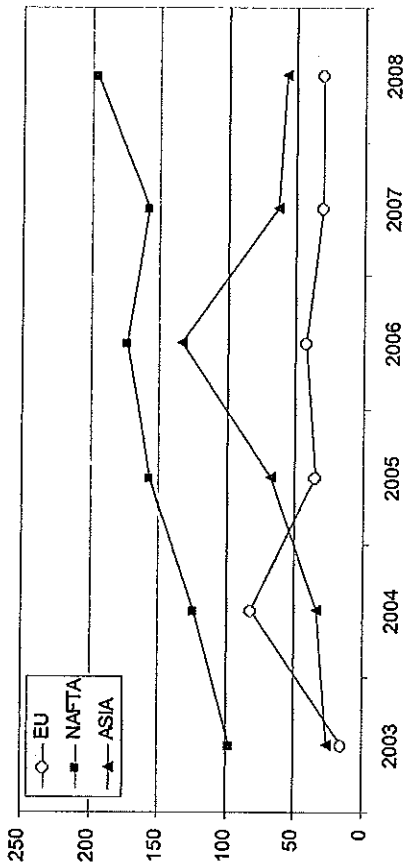


Exports – USD millions

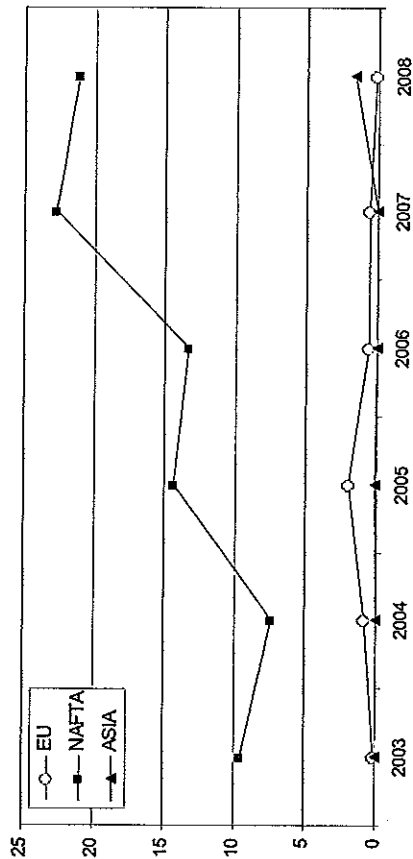


### 5.1.2. Mexico – Dies

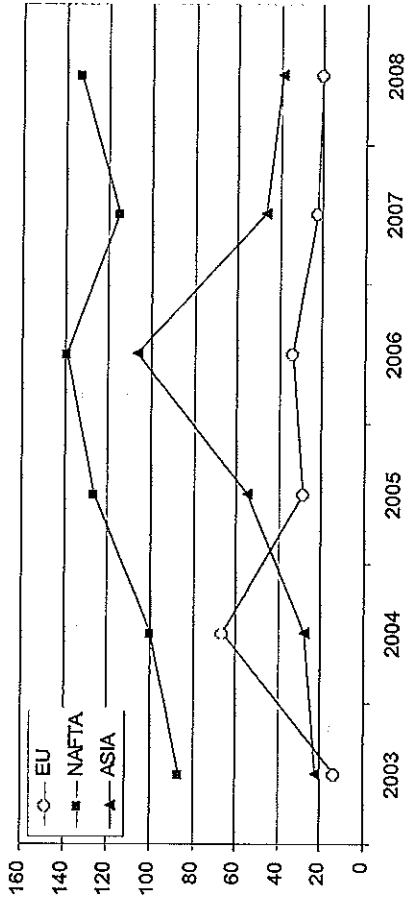
Imports – EUR millions



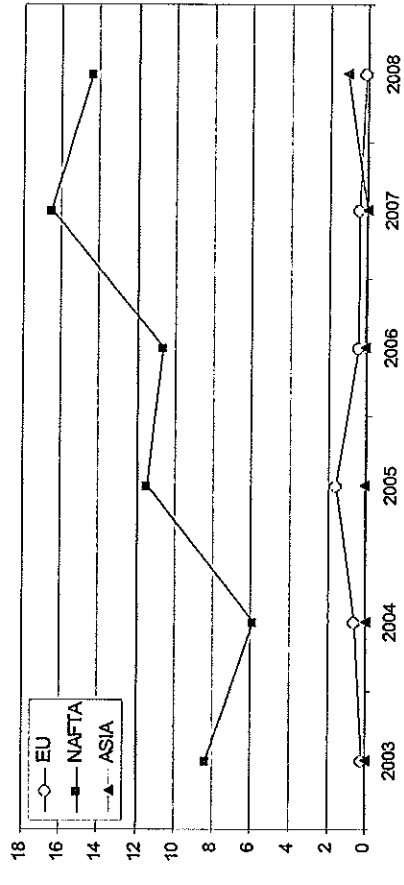
Exports – EUR millions



Imports – USD millions

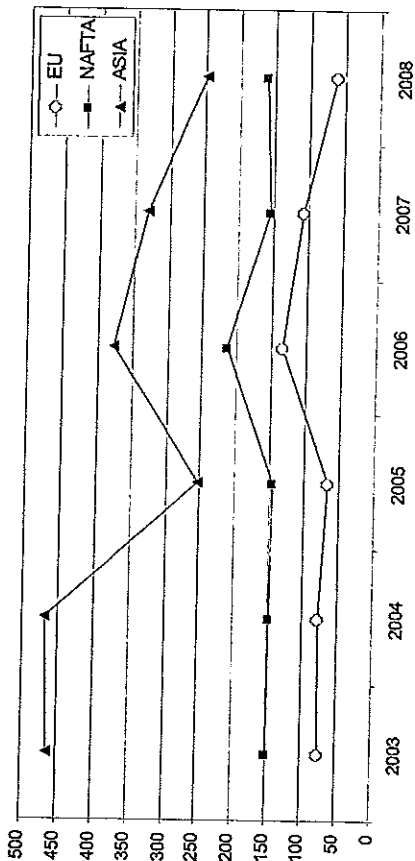


Exports – USD millions

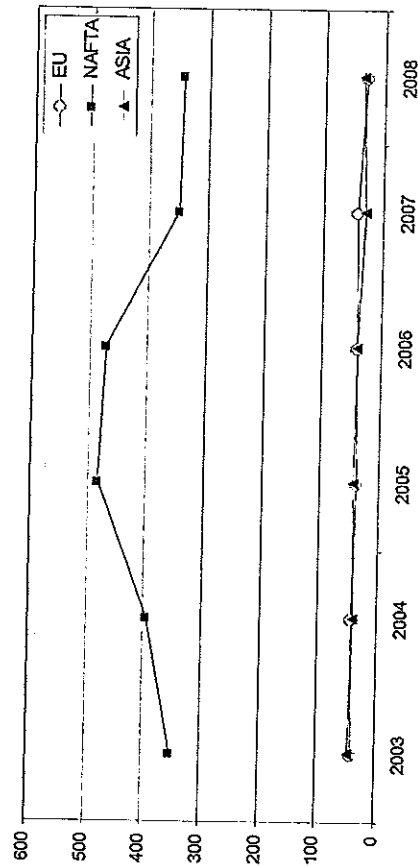


### 5.1.3. USA – Dies

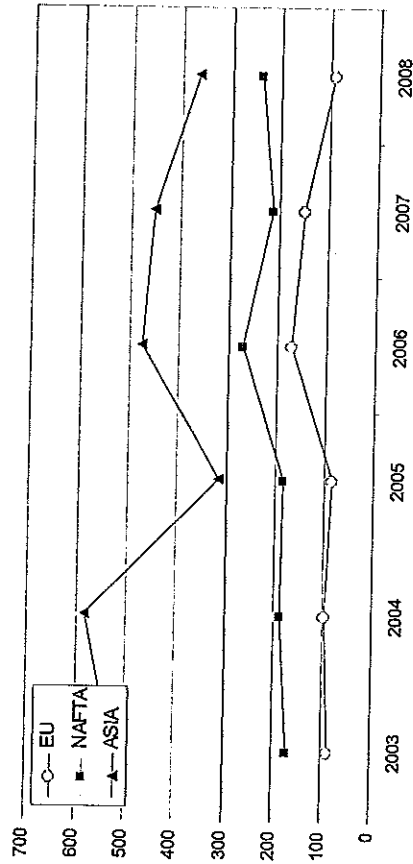
Imports – EUR millions



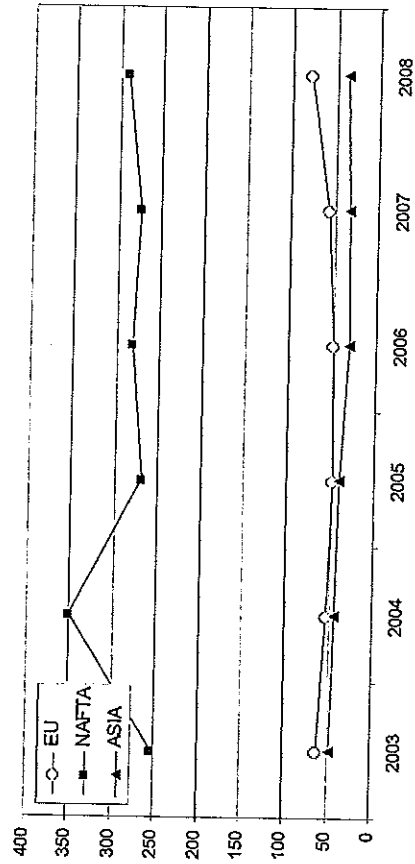
Exports – EUR millions



Imports – USD millions

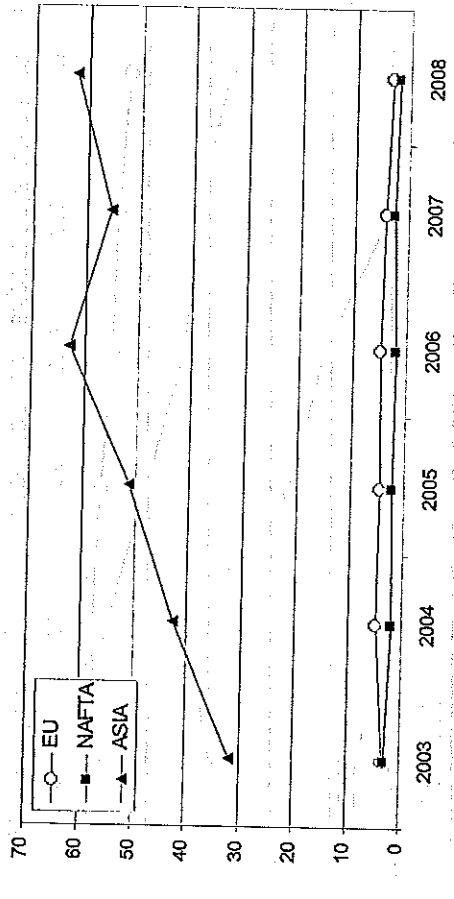


Exports – USD millions

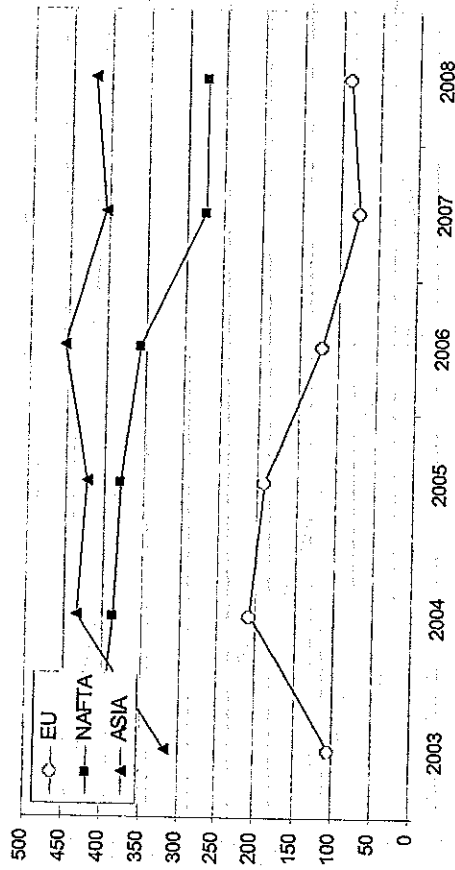


### 5.1.4. Japan – Dies

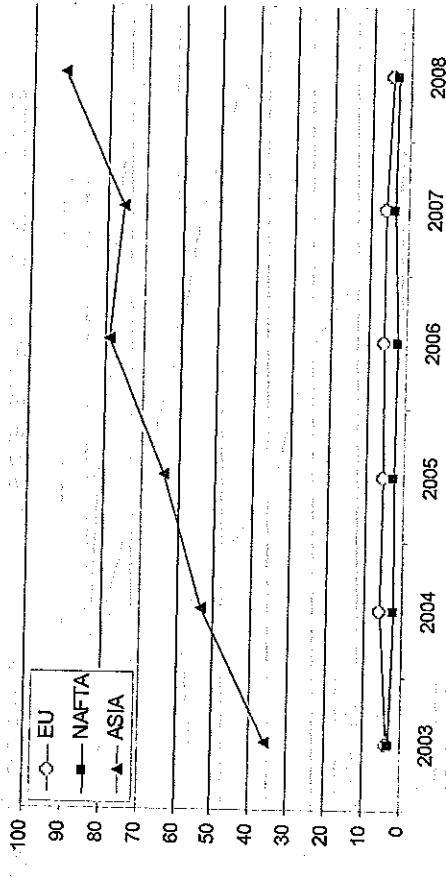
Imports – EUR millions



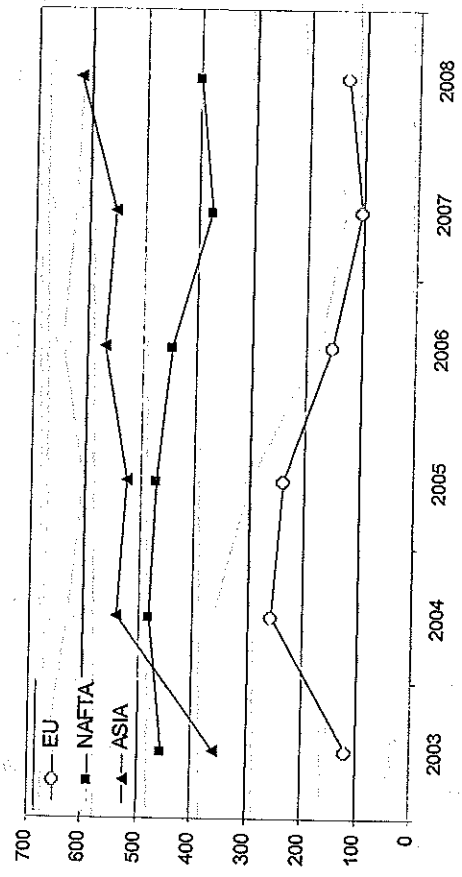
Exports – EUR millions



Imports – USD millions

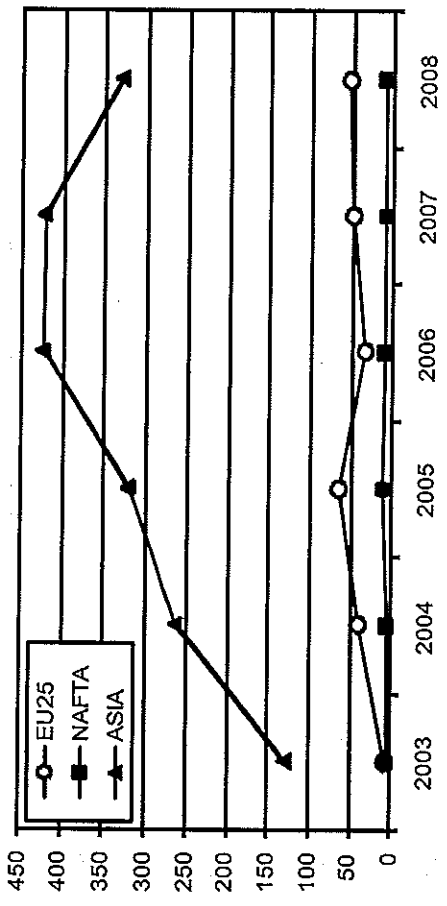


Exports – USD millions

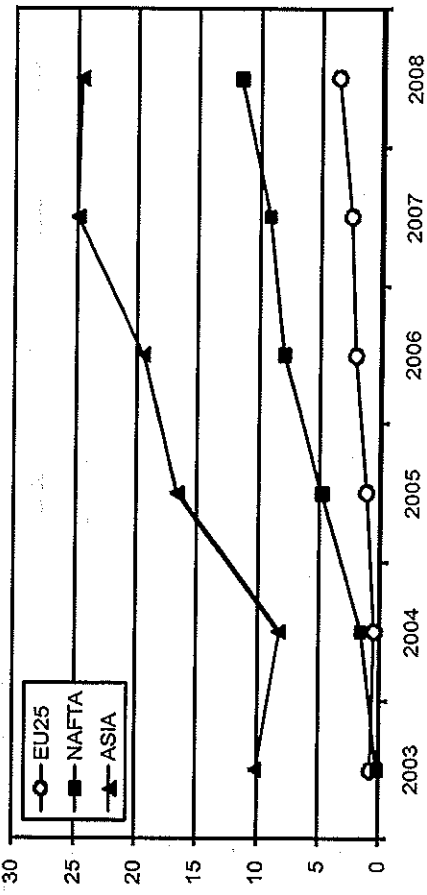


### 5.1.5. China – Dies

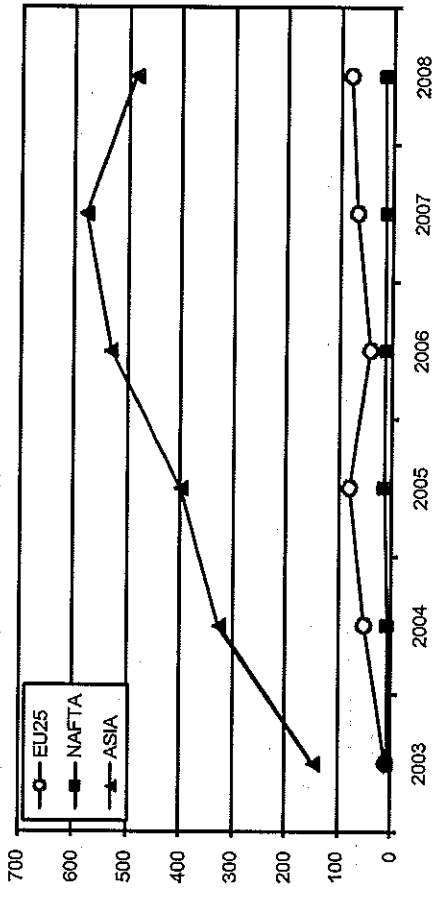
Imports – EUR millions



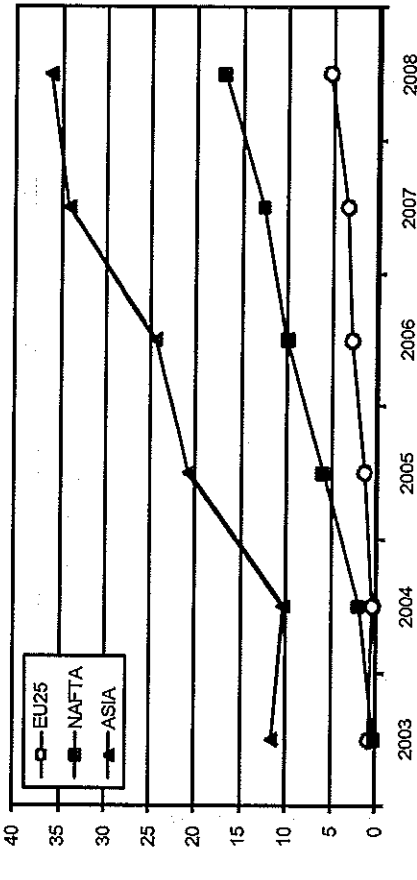
Exports – EUR millions



Imports – USD millions



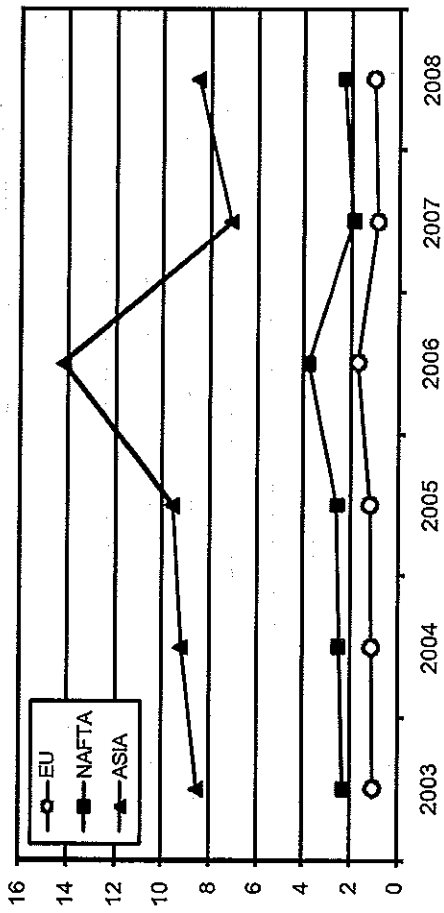
Exports – USD millions



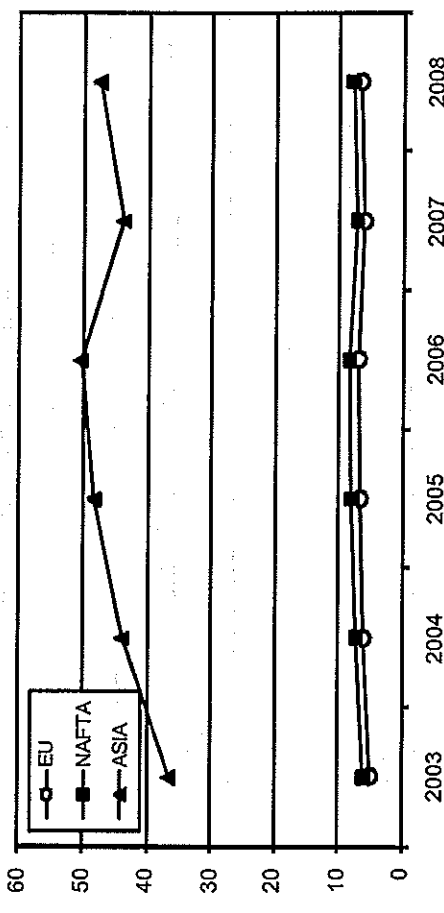
**Note:** there is a major difference between export data presented (supplied by CCS – China Customs Statistical Office) and figures released by CDMIA – China Die & Mould Industry Association; a fraction of this disparity may be due to differences between exports data to USA; corresponding data from imports by USA from China presents, also, main differences; further statistical work has to be provided.

### 5.1.6. Korea – Dies

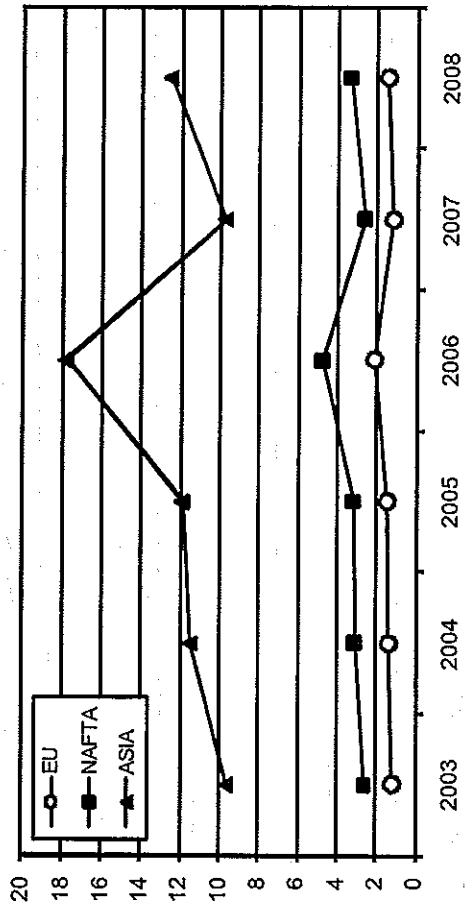
Imports – EUR millions



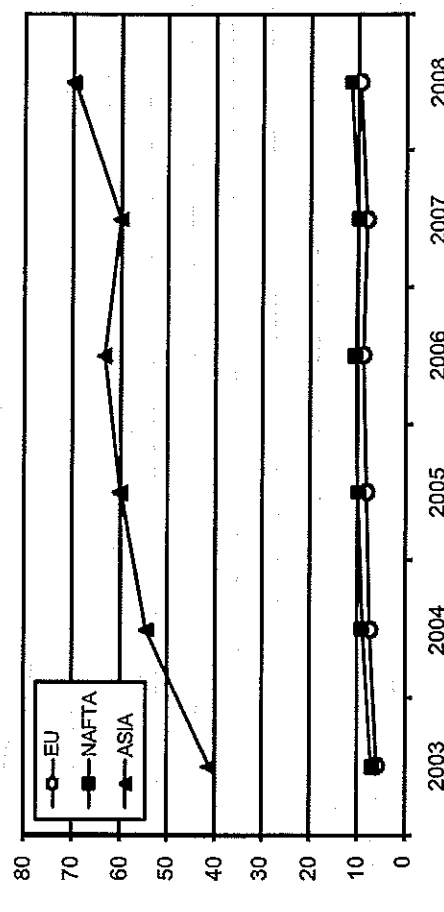
Exports – EUR millions



Imports – USD millions

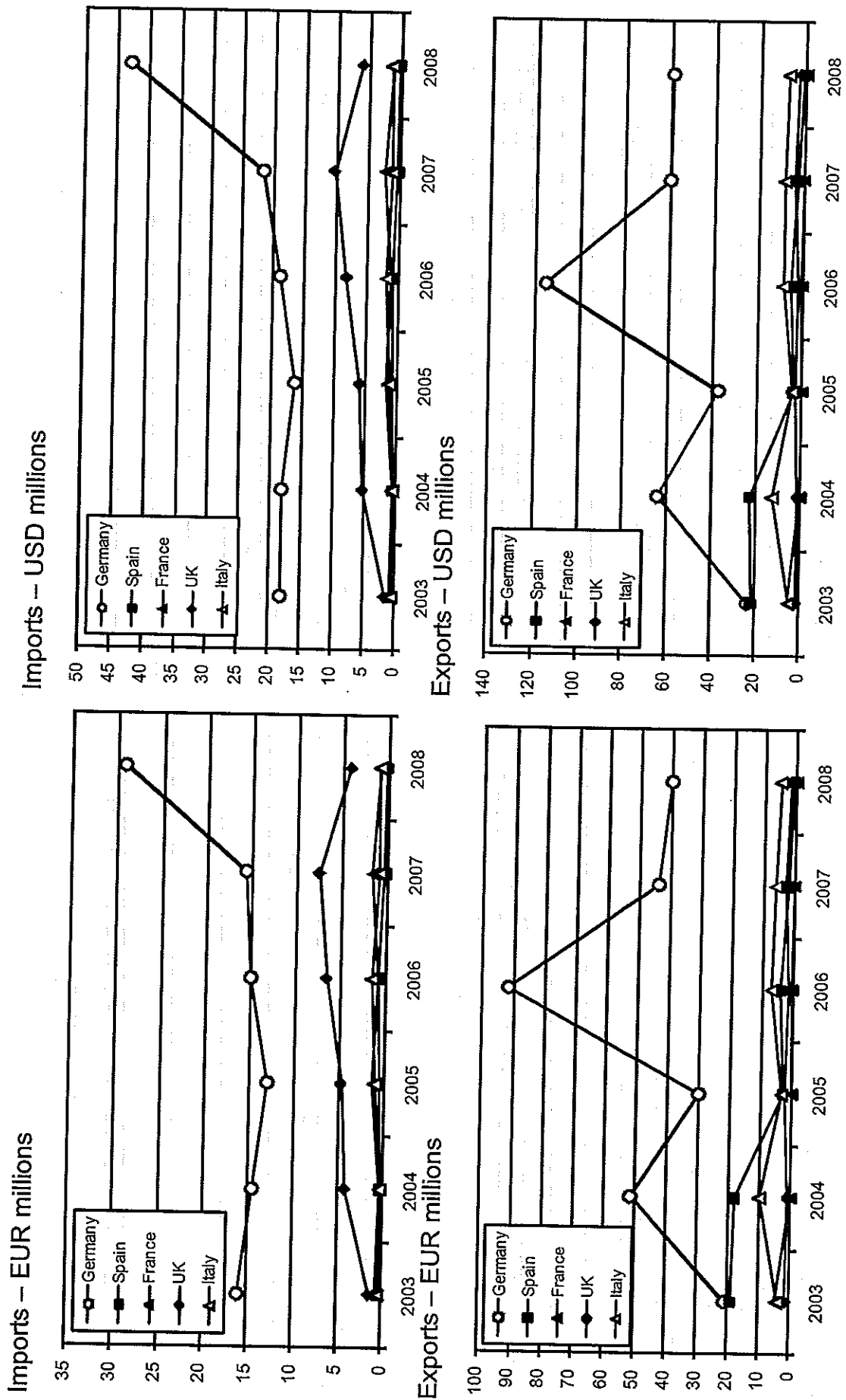


Exports – USD millions

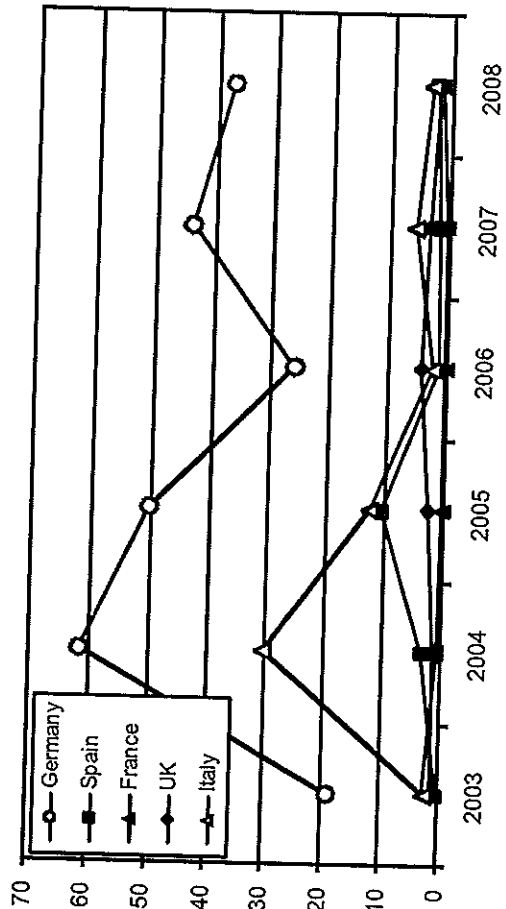
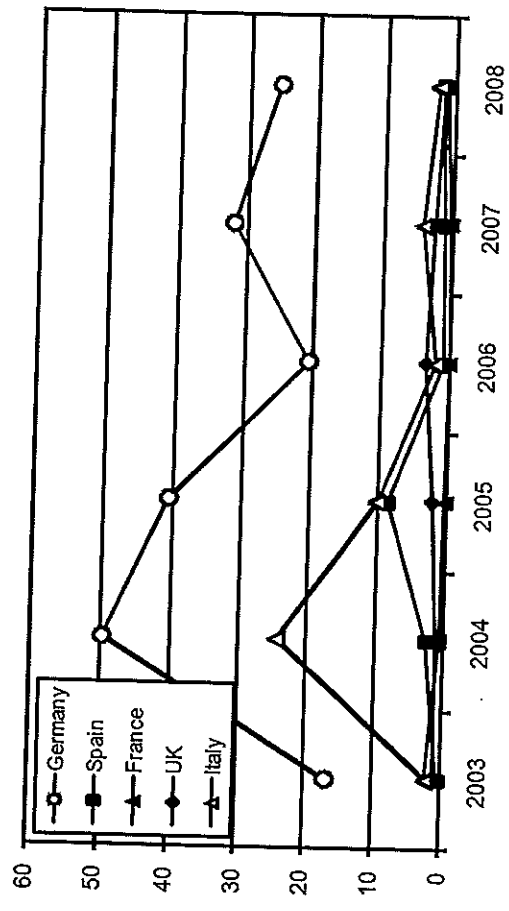
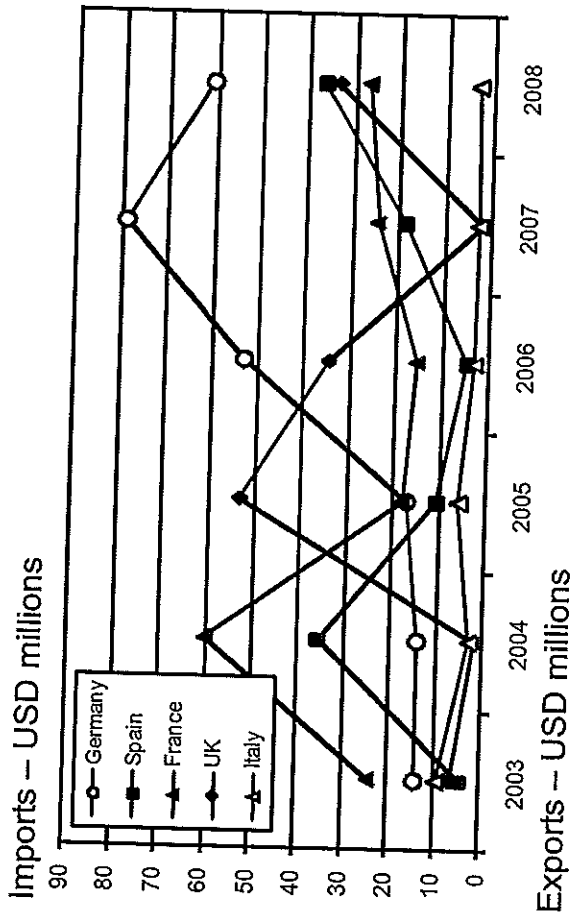
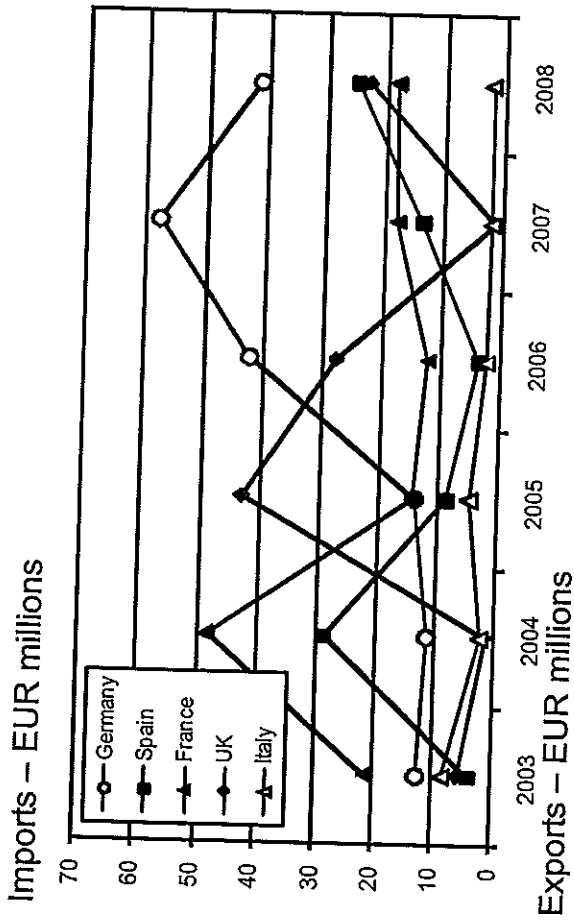


Note: fractions between regions estimated according different sources only for this purpose

### 5.1.7. EU – Major Markets – NAFTA - Dies



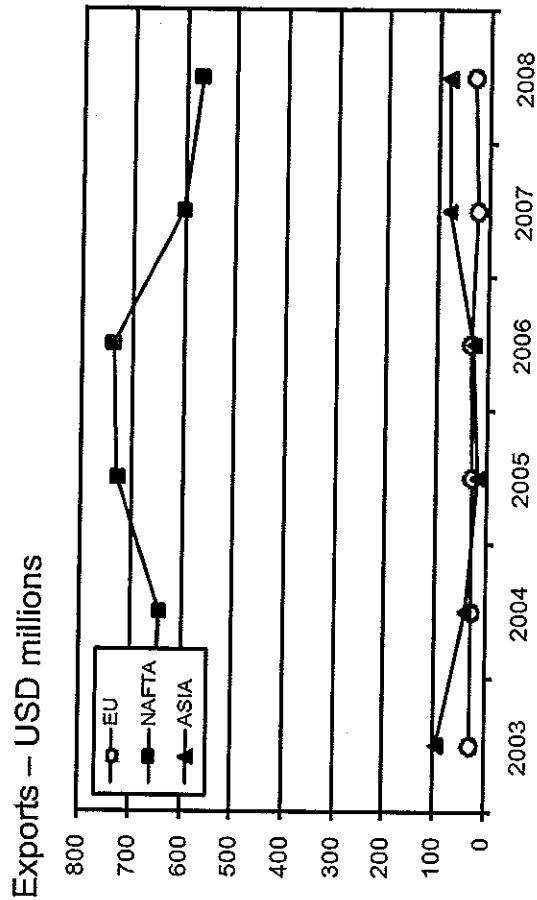
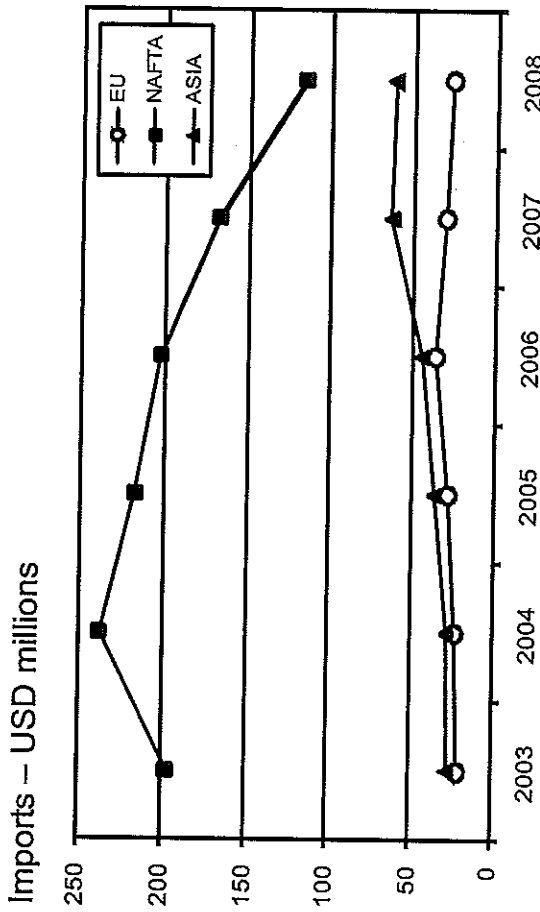
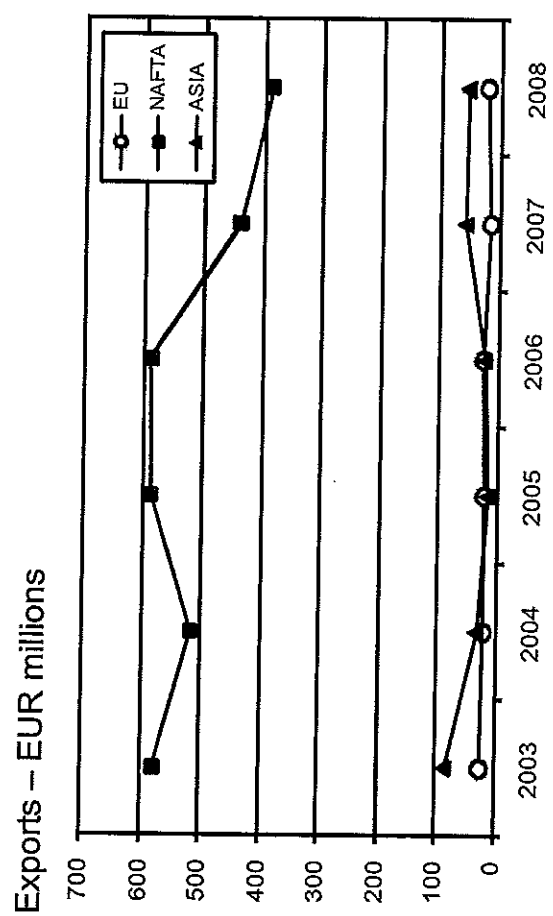
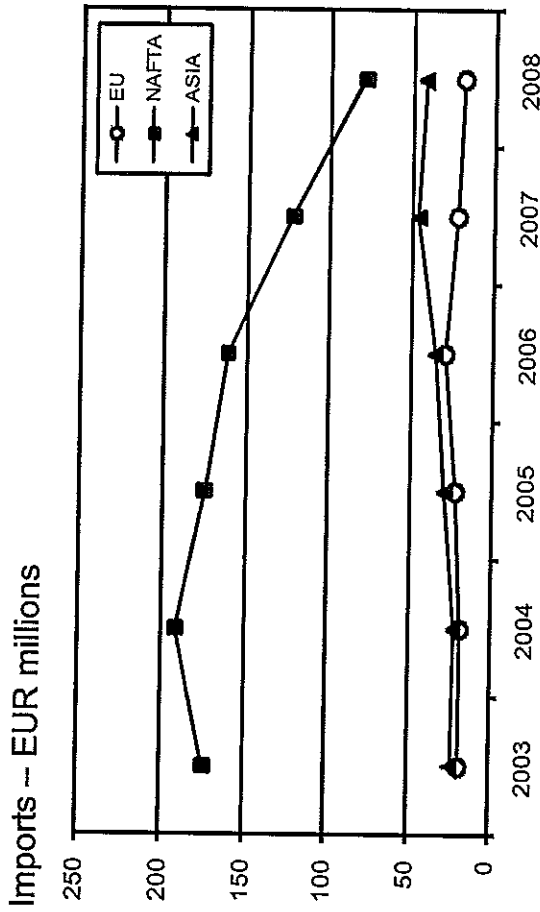
### 5.1.8. EU – Major Markets – ASIA - Dies



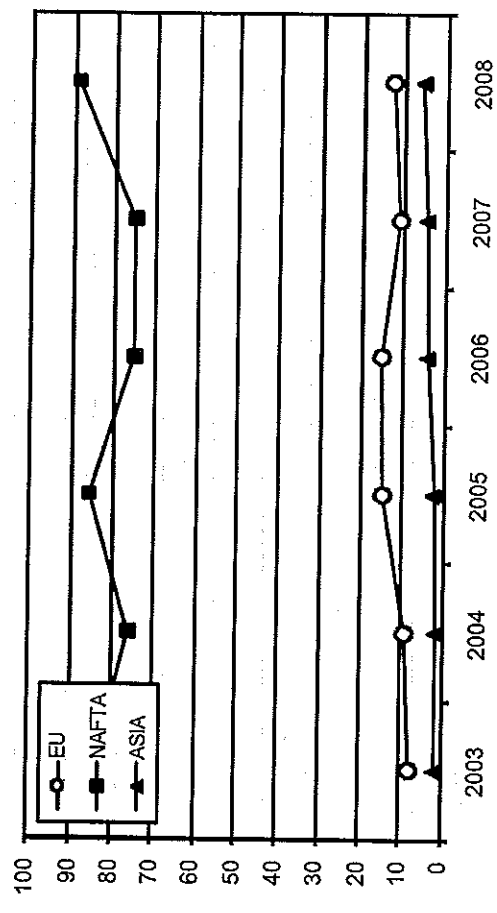
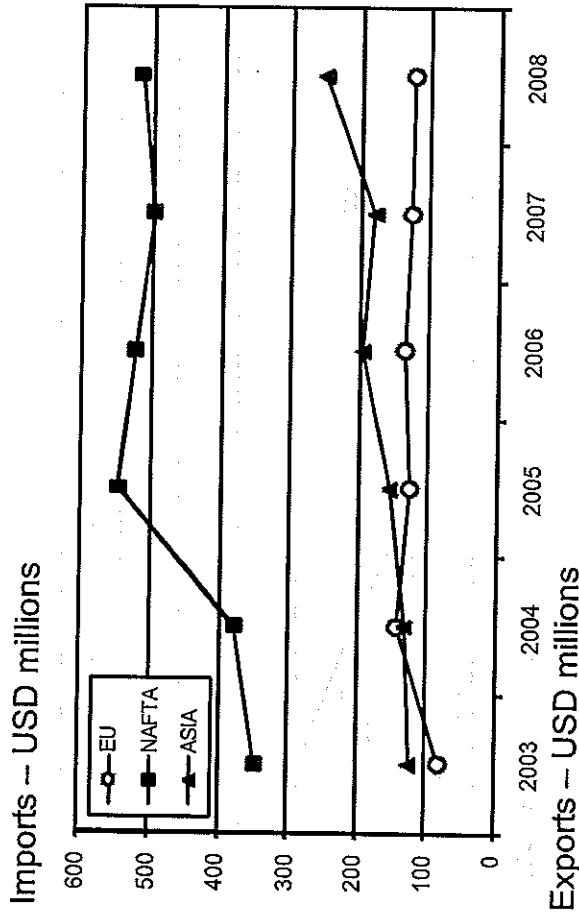
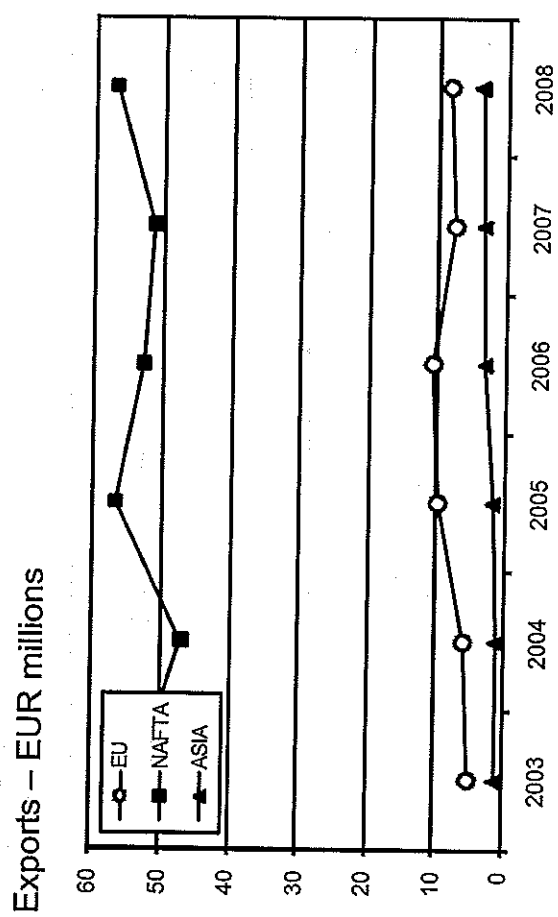
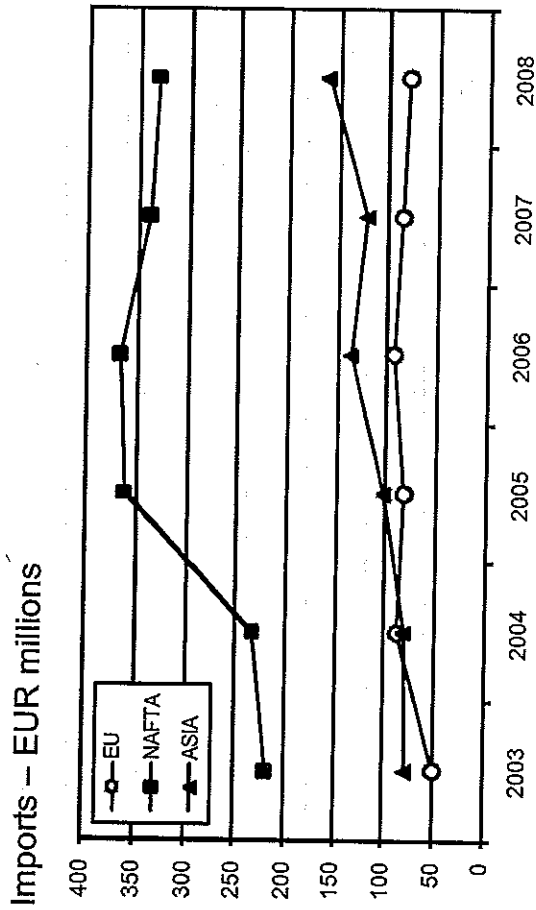


**5.2. Moulds for Plastic and Rubber (HS6 848071 and 848079)**

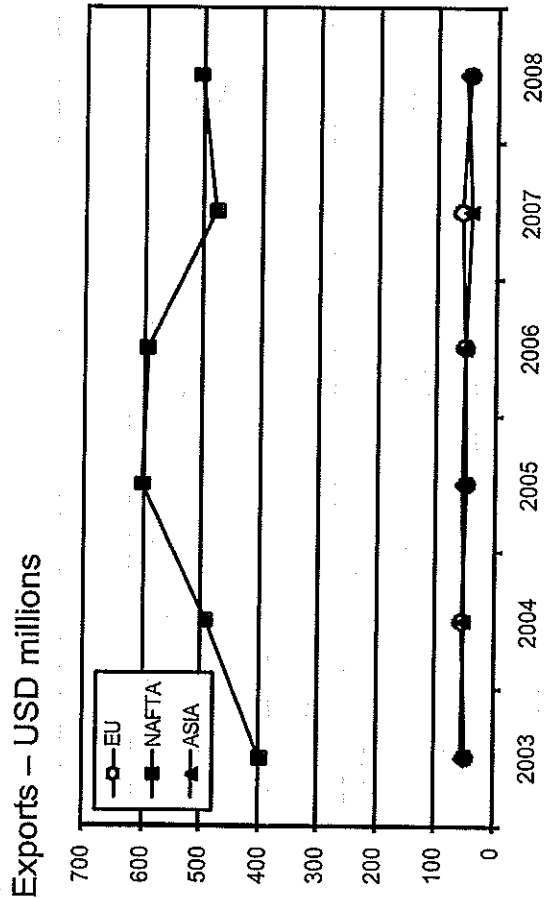
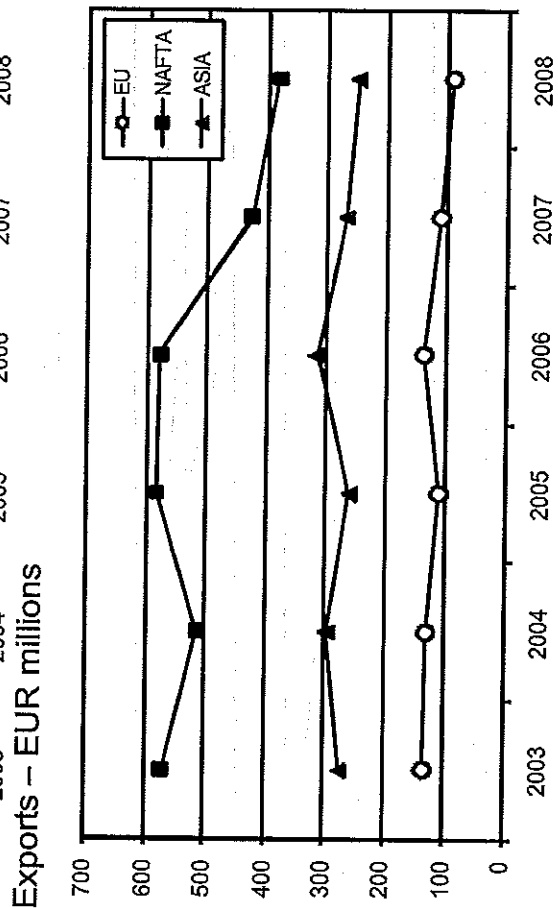
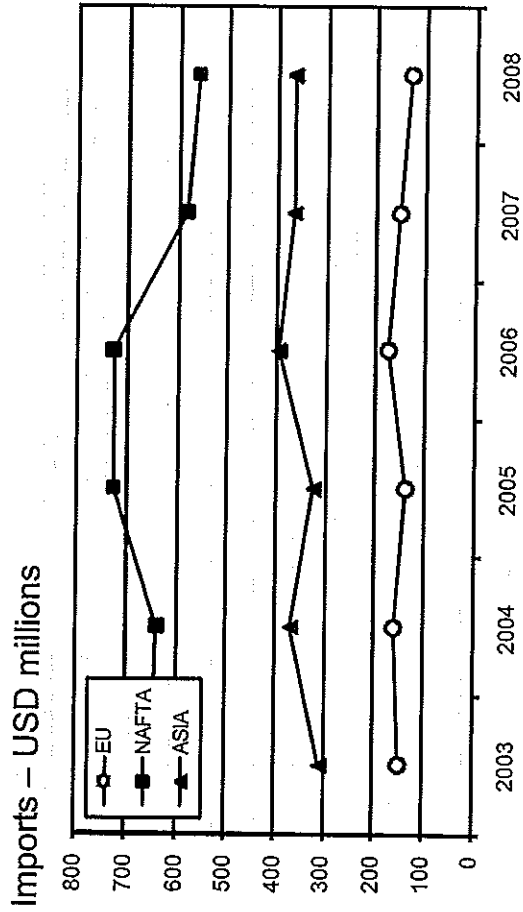
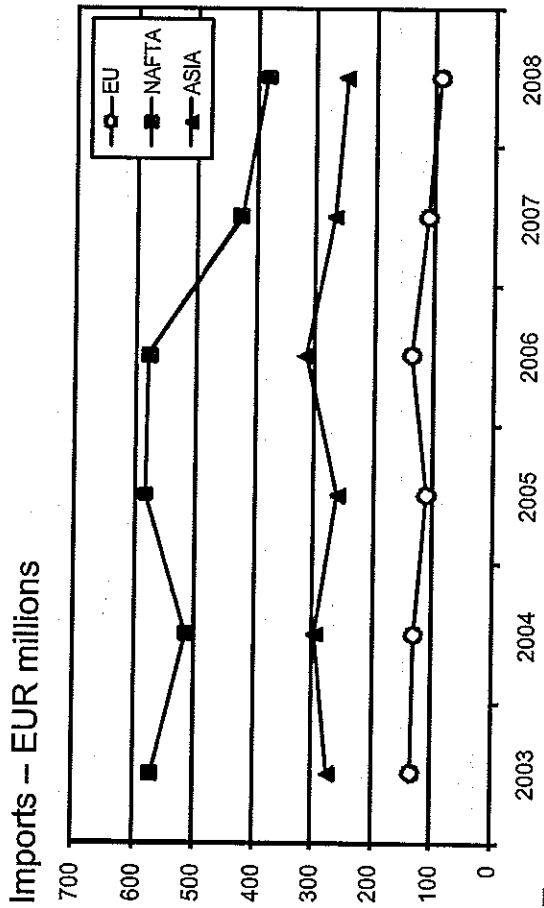
### 5.2.1. Canada – Moulds for Plastic and Rubber



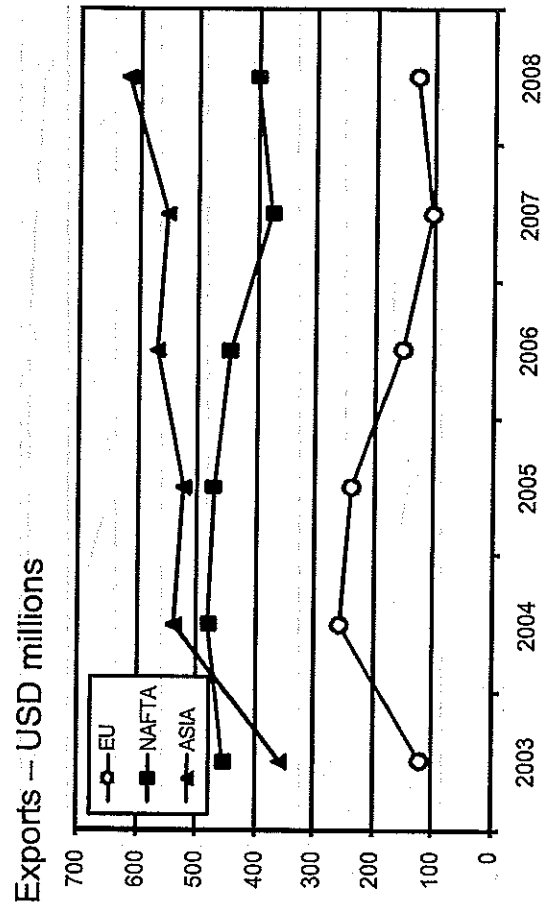
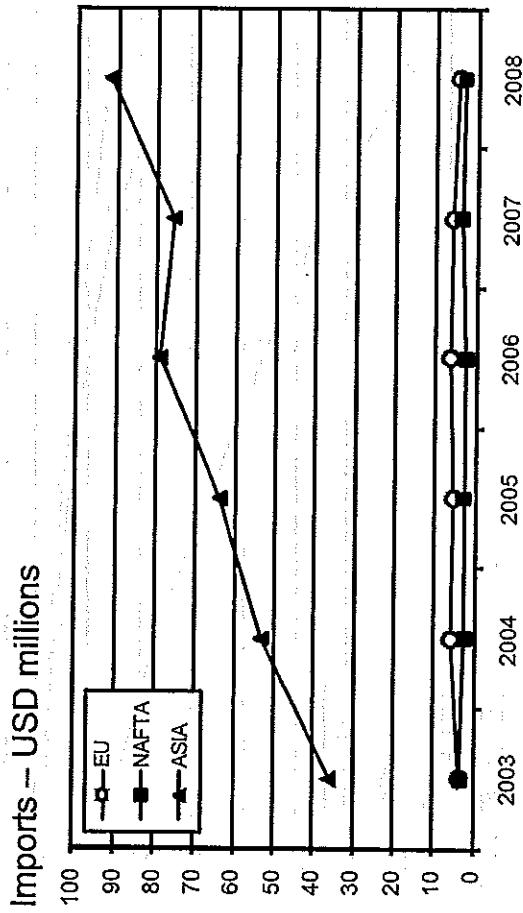
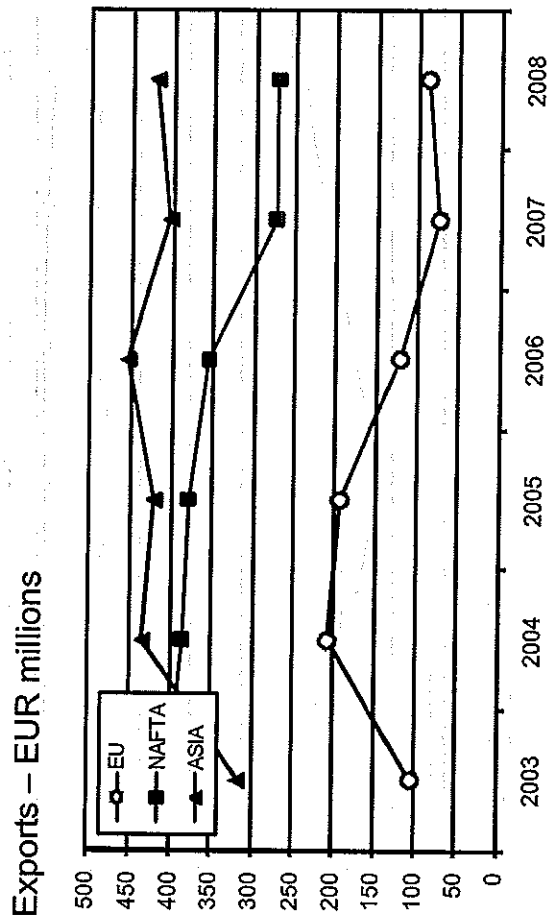
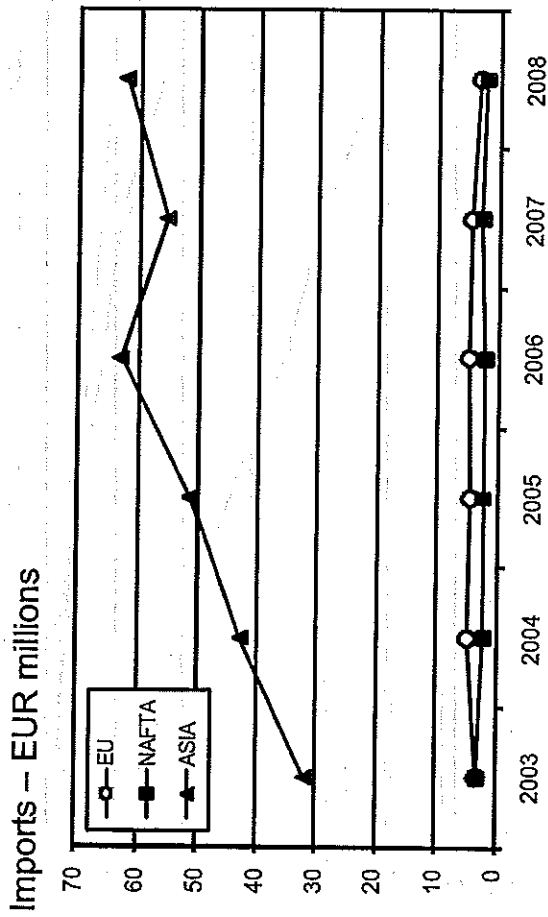
### 5.2.2. Mexico – Moulds for Plastic and Rubber



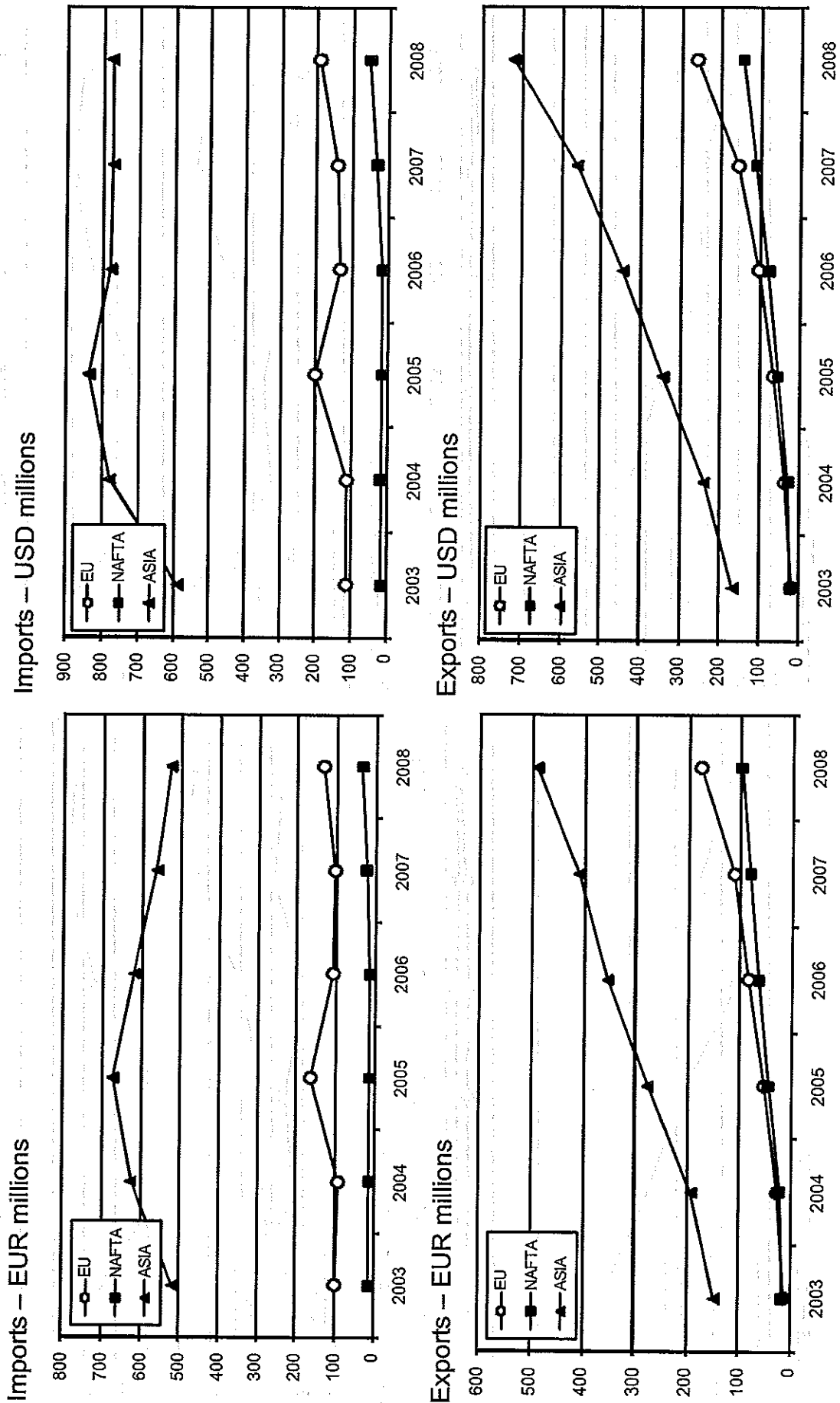
### 5.2.3. USA – Moulds for Plastic and Rubber



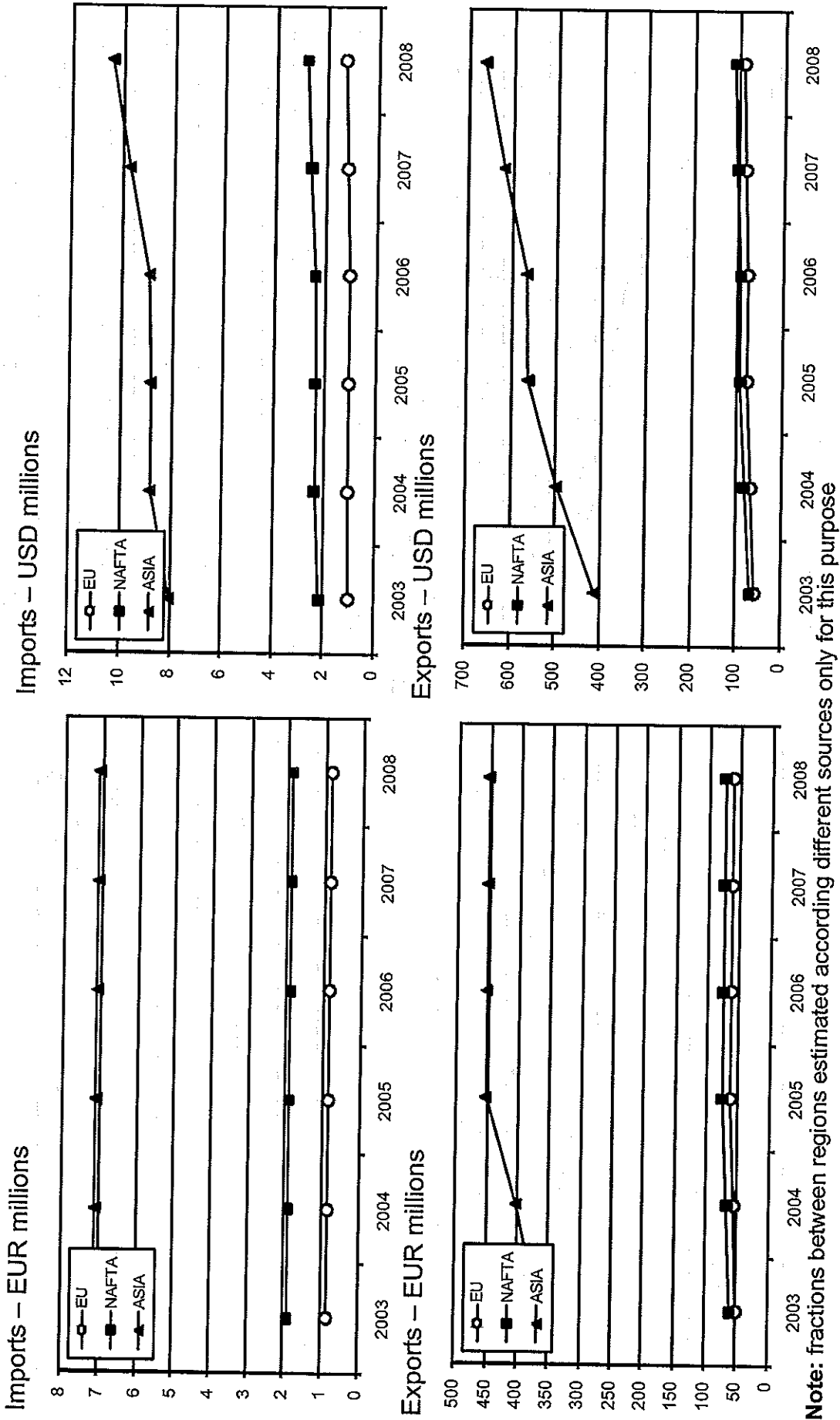
### 5.2.4. Japan – Moulds for Plastic and Rubber



### 5.2.5. China – Moulds for Plastic and Rubber

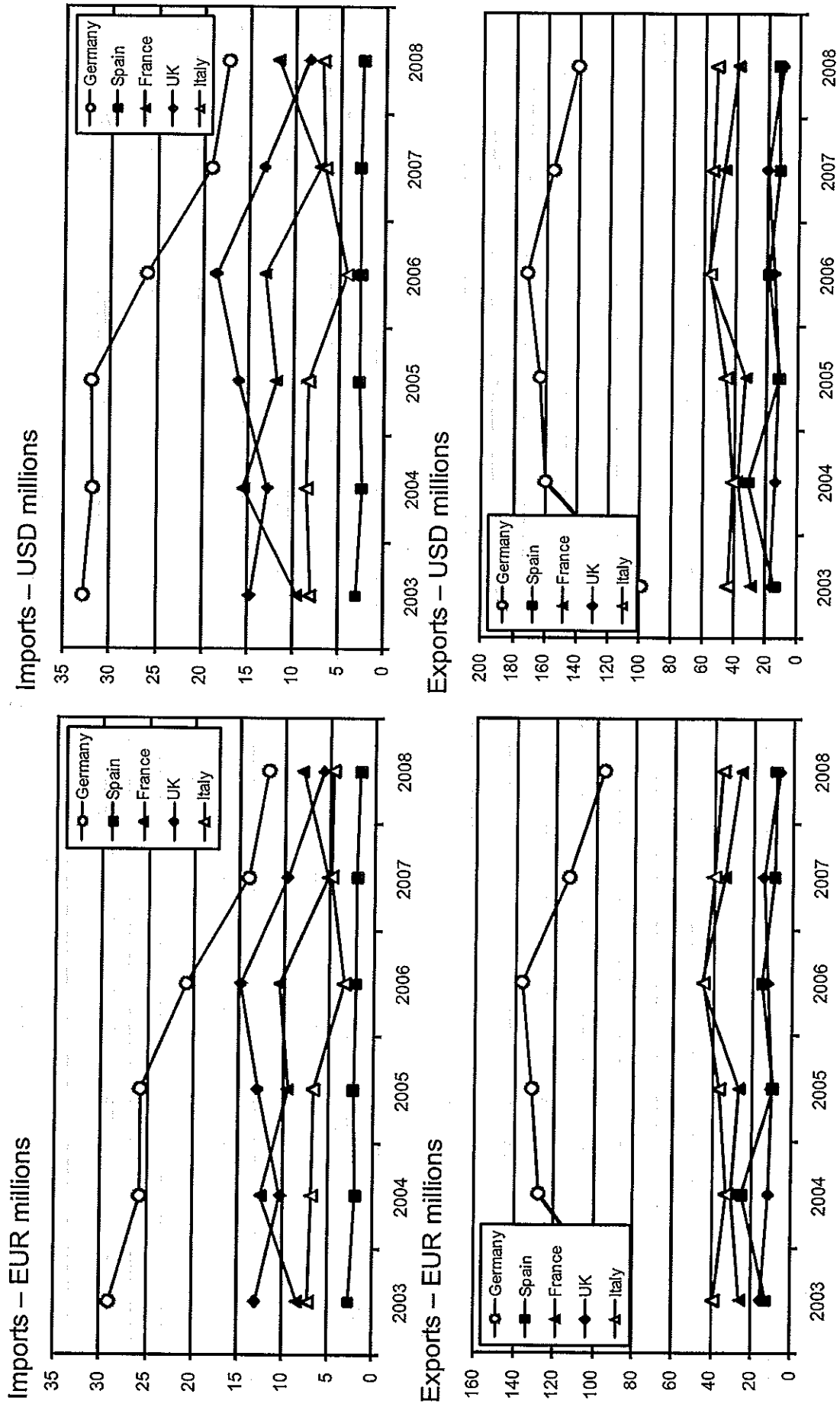


### 5.2.6. Korea – Moulds for Plastic and Rubber

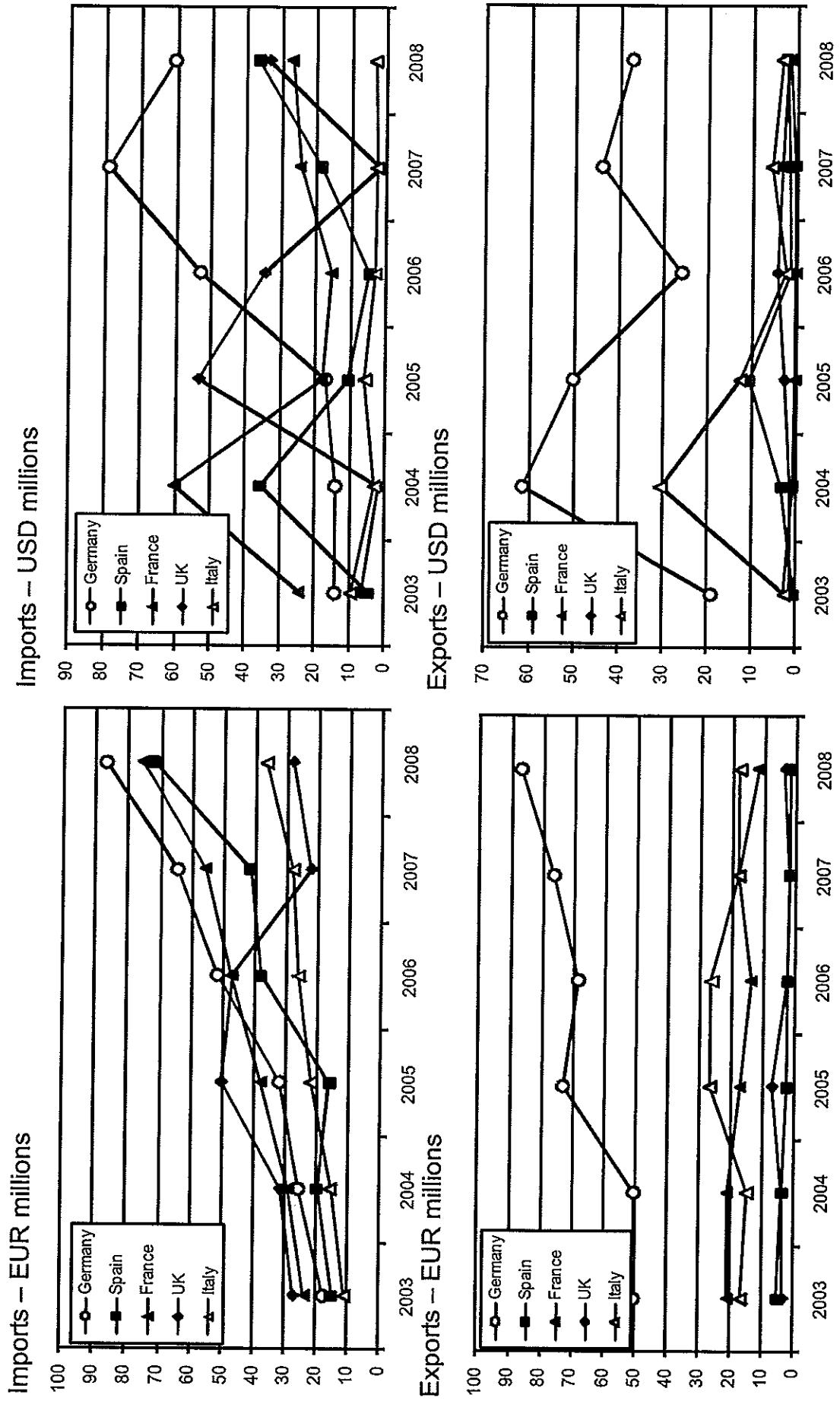


Note: fractions between regions estimated according different sources only for this purpose

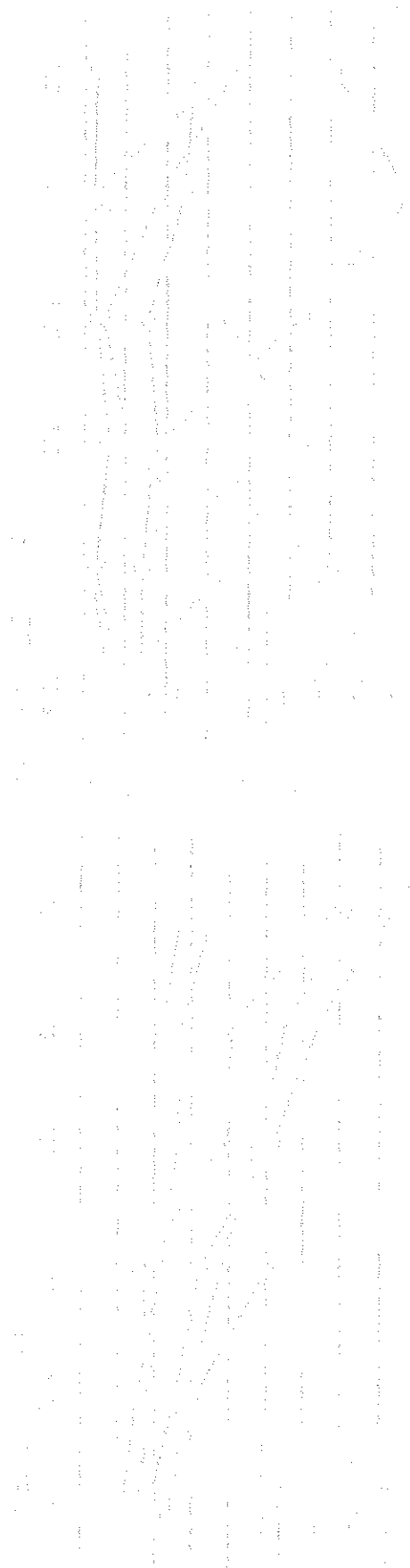
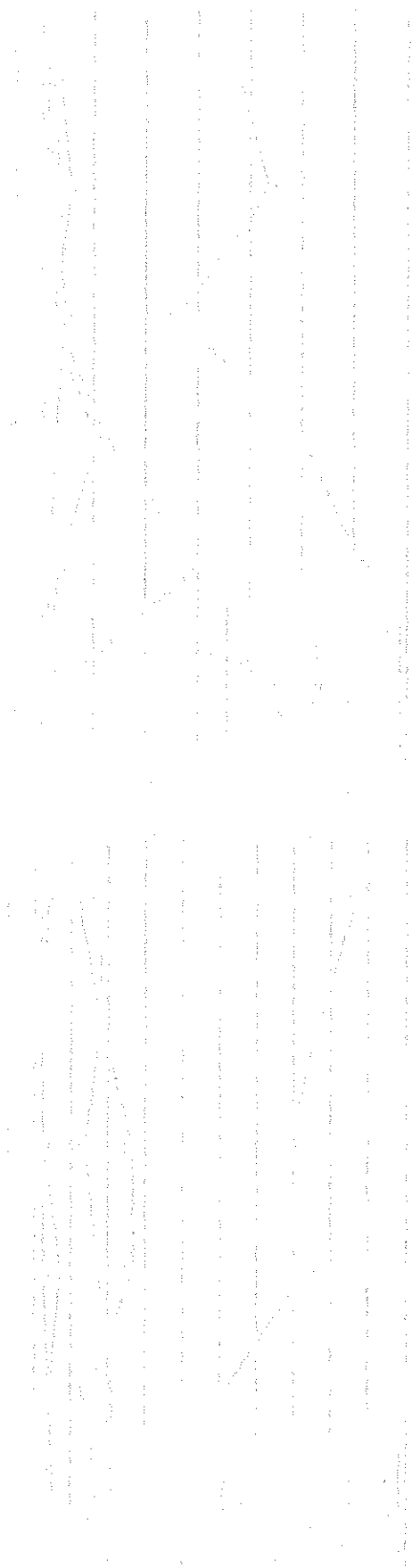
### 5.2.7. EU – Major Markets – NAFTA – Moulds for Plastic and Rubber



### 5.2.8. EU – Major Markets – ASIA – Moulds for Plastic and Rubber



UNITED STATES DEPARTMENT OF AGRICULTURE  
BUREAU OF PLANT INDUSTRY



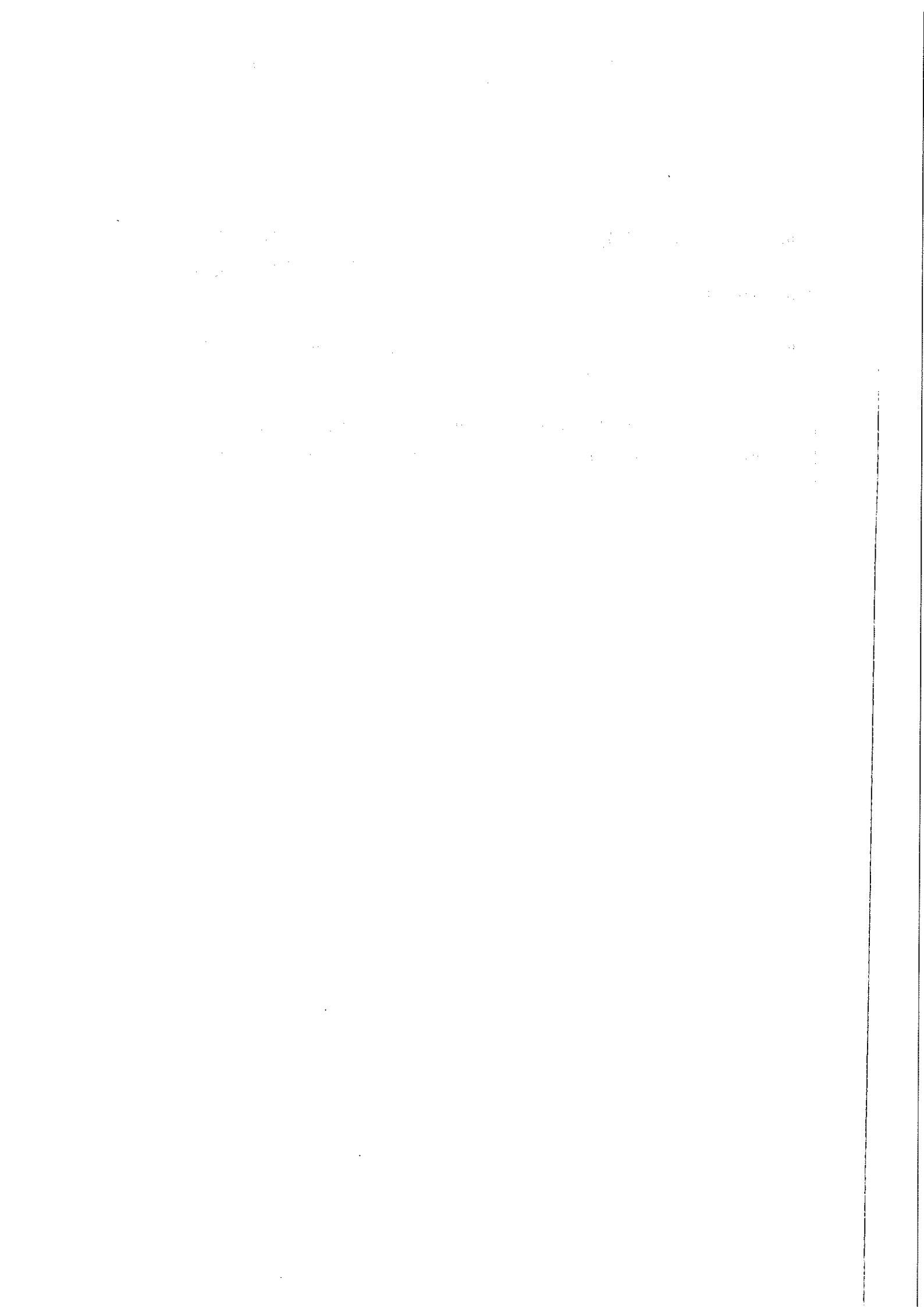
1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920

## 6. References

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European Commission (2006), Statistics on the Trading of Goods – User Guide, ISSN 1725-0153.

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## Appendixes

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## Appendix A - Methodological Aspects

### 1. Goals

The purpose of the work is to collect, treat, compute and release data concerning production, exports, imports and value unit indices<sup>1</sup> (value / quantity) for the most important classes of products in the industry under analysis.

Text and figures aim at establishing an international picture embracing long-series indicators for:

- dies for pressing, stamping, punching and forming;
- injection and compression moulds;
- die casting dies;

These indicators are mostly based on international and national statistical data provided by independent sources.

### 2. Scope

The use of several statistical standards and of different and national interpretations are the most important issues related to this kind of work. However, in parallel with the expanding trade flows, the increasing use of HS – Harmonized Standards – has contributed to facilitate international assessment. Conversely, with regard to the manufacturing statistical data, several standards are in place, either at a continental stage, such as NAISC (North America) or Prodcom (EU), or at the domestic arena. Although lines of harmonization have been implemented, differences still subsist.

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<sup>1</sup> - Unit value indices (UVI): a traditional method of measuring the development of prices and volumes in international trade is to calculate Unit Value Indices (UVI) based on detailed trade data. External trade data contain information on the values and quantities of goods traded between countries at a very detailed product and partner country level: therefore, by using appropriate index formulas, it is possible to calculate UVI and corresponding volume indices.

In general, data related to production are less extensive and sometimes present less accuracy when compared to those associated with external trade.

### 3. Industry classifications

The Harmonized Commodity Description and Coding System (HS) of tariff nomenclature is an international standardized system of names and numbers used to classify traded products, based on a six-digit nomenclature. Individual countries have extended the Harmonized System number to more digits for customs or export purposes.

Tables 1 and 2 describe some of the statistical nomenclature used.

Table A 1 - Statistical Goals According to Harmonised Standard Description

Code	Description
82073010	Pressing, stamping or punching tools for working metal (excluding work and tool holders for machines or hand tools)
84807190	Injection or compression type mould tools for rubber or plastics
84807900	Mould tools for rubber or plastics (excluding injection or compression types)
84804100	Injection or compression type moulds for metal or metal carbides (excluding ingot moulds)
84804900	Mould tools for metal or metal carbides (excluding injection or compression types)
84662010	Jigs and fixtures for specific applications, and sets of standard jig and fixture components for machine-tools <sup>2</sup>

Table A 2 - Statistical Goals According to NAICS Description

Code	Description
3335	Metalworking Machinery Manufacturing
333511	Industrial Molds
333514	Special Dies and Tools, Die Sets, Jigs, and Fixtures

<sup>2</sup> - Computed, exclusively, in the case of business variables of ISTMA's associates in following editions.

## 4. Countries Covered in this Edition

Table A 3 – This Edition, Countries Selected

<b>Countries in Euro Area</b>	<b>Other Countries in EU</b>
Germany	Czech Republic
Spain	Estonia
France	Latvia
Italy	Hungary
Portugal	Sweden
Slovenia	Korea
Finland	<b>Asia</b>
<b>North America</b>	China
USA	Japan
Canada	Korea

## 5. Sources of Information

<b>Region / Country</b>	<b>Source – Data</b>
Europe	Eurostat – International Trade and Production
USA	USA Trade Online – External Trade U.S. Census Bureau - Annual Survey of Manufactures
Canada	CANSIM Annual Survey of Manufactures and Logging (ASML) External Trade
Japan	Ministry of Economy, Trade and Industry – Production Ministry of Finance – Trade Statistics of Japan Import and Export Statistics
China	CCS - China Customs Statistics – International Trade CDMIA - China Die & Mould Industry Association – Production
Korea	KNSO – Korea National Statistical Office Kodmic – Korea Die & Mold Industry Cooperative

## 6. Prices and Currencies

Data were collected and treated in three levels of currencies:

- National (whenever different from the following<sup>3</sup>);
- USD;
- EUR.

All expenditures are expressed in current prices, unadjusted for industrial inflation.

Currency conversion plays an important role in the compilation of trade, production and value unit figures. This implies the need to convert individual transaction values, which may be expressed in any currency, to EUR and USD, used for international assessment. In current edition, the currency conversion is based on the annual average of the conversion rates from national currencies to EUR or USD<sup>4</sup>. For annual average conversion rates see Appendix C.

## 7. Data Processing

The disaggregated level of data accessed and the detail of analysis represent a key challenge for the accuracy and the validity of the information released. Major problems related to the treatment and the analysis of data concerning production and international trade may be singled out in the following items:

- 1 – Asymmetries and mirror statistics, between imports and exports from and to same destinations and origins;
- 2 – Data input thresholds which make possible to exempt operators (small and medium-sized enterprises) from statistical formalities;
- 3 – Different and revised time period input and confidentiality;

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3 - Except for EEK - Estonian Kroon -, that presents a constant exchange rate to euro since 1999.

4 - It is worth noting that conversion at annual level can lead to discrepancies between annual data (national or international sources) and figures provided by other sources where the monthly conversion may be applied directly to the production of annual statistics.

4 – Problems of currency conversion and the valuation of transactions;

5 – Incorrect data introduction.

In order to achieve a solid and reliable output, it was applied a meticulous and exhaustive sequence of steps for each set: country – product category - production, exports, imports, as described in the workflow (see Appendix C).

Data considered incorrect in the context of the industry were excluded<sup>5</sup>.

## 8. Data Organization and Summaries

Figures are organized in three levels:

### 1. Commodity Aggregate Data

Comparison of aggregated values among products categories:

- Dies: quantity, value and unit prices;
- Moulds for plastic and rubber: quantity, value and unit prices;
- Moulds for metal, injection and compression: quantity, value and unit prices;
- Moulds for metal, excluding injection and compression: quantity, value and unit prices;

### 2. Comparative Product Data Analysis

#### 2.1 Country Level

Comparison between the positions of different countries according to indicators applied:

- Production: quantity, value and unit prices;
- Exports: quantity, value and unit prices;
- Imports: quantity, value and unit prices;
- Apparent market: quantity; values.

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<sup>5</sup> - List of Corrections may be provided on request.

In the case of values and unit prices, these elements are presented in EUR and USD;

## 2.2 Commodity Level

Comparison of aggregated values among products categories:

- Dies;
- Moulds for plastic and rubber;
- Moulds for metal, injection and compression;
- Moulds for metal, excluding injection and compression.

## 3. Country Individual Level – Detailed Data

Presentation of national indicators for each country in the sample and for each product category:

- Production: quantity, value and unit prices;
- Exports: quantity, value and unit prices;
- Imports: quantity, value and unit prices.

In the case of values and unit prices, these elements are presented in EUR, in USD and in national currency terms.

Aggregated information exclusively expresses data collected from countries included in the selected sample.

**Appendix B – Products and Standards**

Group	Production PRODCOM	Export Trade	Import Trade	Summary
Pressing, stamping or punching tools	28625033 28625039	82073010	82073010	
	Origin	All countries excluding EU aggregated	All countries excluding EU aggregated	
	inputs	QUANTITY_IN_100KG VALUE_IN_EUROS	QUANTITY_IN_100KG VALUE_IN_EUROS	
	Outputs aggregated	Quantity Value UVI - Unit Value Index	Quantity Value UVI - Unit Value Index	Quantity Value UVI - Unit Value Index

Group		Production PRODCOM	Export Trade	Import Trade	Summary
Moulds plastics		29562470 29562480	84807100 84807110 84807190 84807900	84807100 84807110 84807190 84807900	
	Countries	Origin	All countries excluding EU aggregated	All countries excluding EU aggregated	
	inputs	PROD_QUANTITY PROD_VALUE_EUR	QUANTITY_IN_100KG VALUE_IN_EUROS	QUANTITY_IN_100KG VALUE_IN_EUROS	
	Outputs aggregated	Quantity Value UVI - Unit Value Indices	Quantity Value UVI - Unit Value Indices	Quantity Value UVI - Unit Value Indices	Quantity Value UVI - Unit Value Indice

Group		Production PRODCOM	Export Trade	Import Trade	Summary
Injection or compression type moulds for metal or metal carbides (excluding ingot moulds)		29562420	84804100	84804100	
	Countries	Origin	All countries excluding EU aggregated	All countries excluding EU aggregated	
	inputs	PROD_QUANTITY PROD_VALUE_EUR	QUANTITY_IN_100KG VALUE_IN_EUROS	QUANTITY_IN_100KG VALUE_IN_EUROS	
	Outputs aggregated	Quantity Value UVI - Unit Value Indices	Quantity Value UVI - Unit Value Indices	Quantity Value UVI - Unit Value Indices	Quantity Value UVI - Unit Value Indices

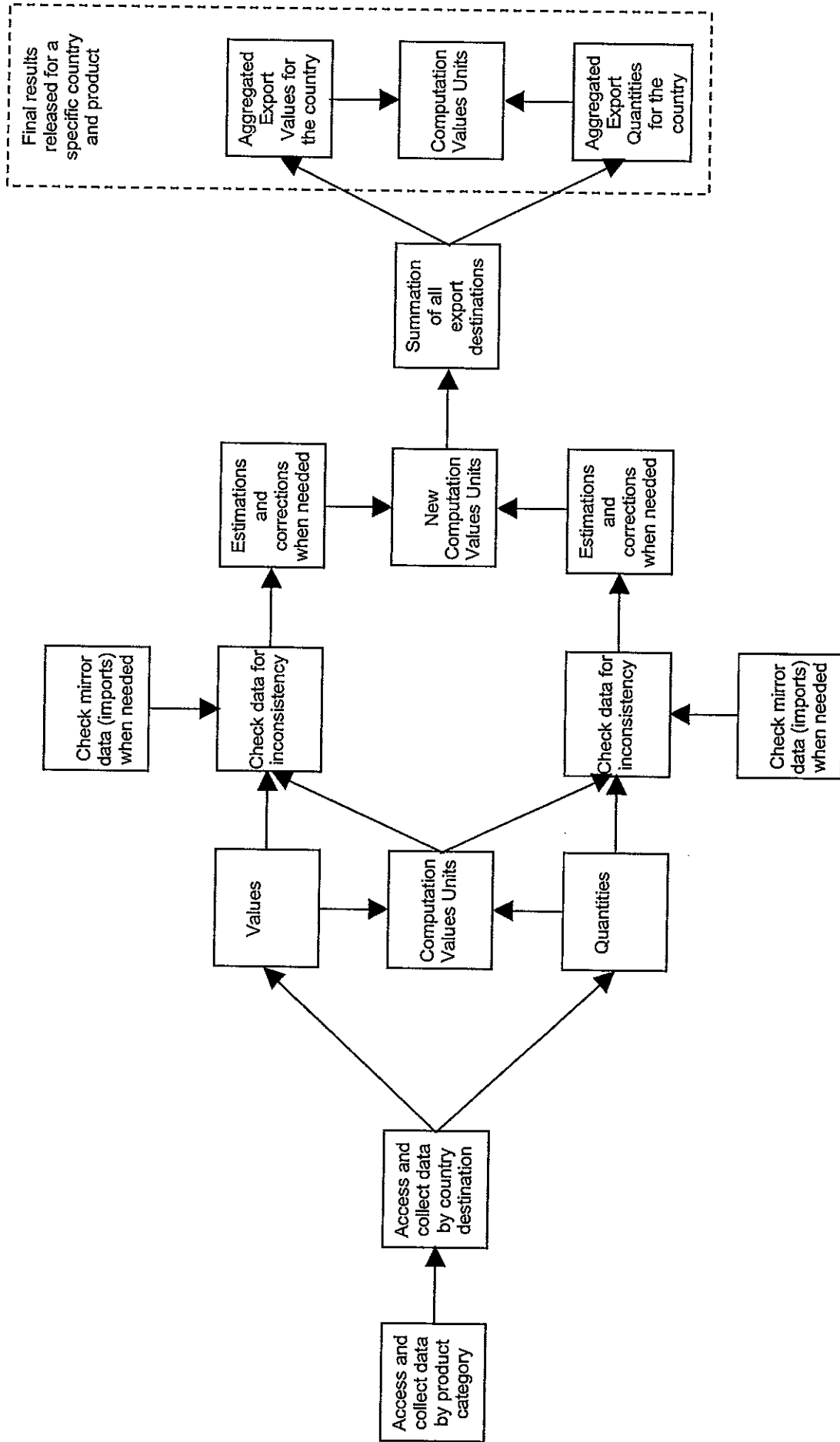
Group		Production PRODCOM	Export Trade	Import Trade	Summary
Mould tools for metal or metal carbides (excluding injection or compression types)		29562430	84804900	84804900	
	Countries	Origin	All countries excluding EU aggregated	All countries excluding EU aggregated	
	inputs	PROD_QUANTITY PROD_VALUE_EUR	QUANTITY_IN_100KG VALUE_IN_EUROS	QUANTITY_IN_100KG VALUE_IN_EUROS	
	Outputs aggregated	Quantity Value UVI - Unit Value Indices	Quantity Value UVI - Unit Value Indices	Quantity Value UVI - Unit Value Indices	Quantity Value UVI - Unit Value Index

Appendix C - EUR Exchange Rates, Annual Data, 1997 - 2008

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
AUD - Australian Dollar	1,52813	1,7867	1,6523	1,5889	1,7319	1,7376	1,7379	1,6905	1,632	1,6668	1,6348	1,7416
BRL - Brazilian Real	:	:	:	:	2,1069	2,7896	3,4701	3,6362	3,036	2,7333	2,6594	2,6737
CAD - Canadian Dollar	1,5692	1,66506	1,584	1,3706	1,3864	1,4838	1,5817	1,6167	1,5087	1,4237	1,4678	1,5594
CHF - Swiss Franc	1,644	1,62203	1,6003	1,5579	1,5105	1,467	1,5212	1,5438	1,5483	1,5729	1,6427	1,5874
CNY - Chinese Yuan Renminbi	:	:	:	:	7,4131	7,8265	9,3626	10,2967	10,1955	10,0096	10,4178	10,2236
CZK - Czech Koruna	35,9304	36,0487	36,884	35,599	34,068	30,804	31,846	31,891	29,782	28,342	27,766	24,946
DKK - Danish Krone	7,48361	7,4993	7,4355	7,4538	7,4521	7,4305	7,4307	7,4399	7,4518	7,4591	7,4506	7,456
EEK - Estonian Kroon	15,713	15,7481	15,6466	15,6466	15,6466	15,6466	15,6466	15,6466	15,6466	15,6466	15,6466	15,6466
GBP - Pound Sterling	0,692304	0,676434	0,65874	0,60948	0,62187	0,62883	0,69199	0,67866	0,6838	0,68173	0,68434	0,79628
HKD - Hong Kong Dollar	:	:	8,2694	7,1973	6,9855	7,375	8,8079	9,6881	9,6768	9,7545	10,6912	11,4541
HUF - Hungarian Forint	211,654	240,573	252,77	260,04	256,59	242,96	253,62	251,66	248,05	264,26	251,35	251,51
INR - Indian Rupee	:	:	:	:	42,247	45,925	52,61	56,301	54,812	56,844	56,419	63,614
JPY - Yen (Japan)	137,076	146,415	121,32	99,47	108,68	118,06	130,97	134,44	136,85	146,02	161,25	152,45
KRW - Korean Won (South Korea)	:	1565,61	1267,26	1043,5	1154,83	1175,5	1346,9	1422,62	1273,61	1198,58	1272,99	1606,09
LVL - Latvian Lats	0,659401	0,66024	0,6256	0,5592	0,5601	0,581	0,6407	0,6652	0,6962	0,6962	0,7001	0,7027
MXN - New Mexican Peso	:	:	10,1945	8,7361	8,371	9,1628	12,2144	14,0386	13,5643	13,6936	14,9743	16,2911
RUB - Russian Ruble	:	:	26,5187	26,0182	26,151	29,7028	34,6699	35,8192	35,1884	34,1117	35,0183	36,4207
SEK - Swedish Krona	8,65117	8,91593	8,8075	8,4452	9,2551	9,1611	9,1242	9,1243	9,2822	9,2544	9,2501	9,6152
SGD - Singapore Dollar	:	:	1,8064	1,5923	1,6039	1,6912	1,9703	2,1016	2,0702	1,9941	2,0636	2,0762
TRY - New Turkish lira	0,171848	0,293736	0,44724	0,57482	1,10242	1,43968	1,69485	1,77705	1,6771	1,809	1,7865	1,9064
USD - United States Dollar	1,13404	1,12109	1,0658	0,9236	0,8956	0,9456	1,1312	1,2439	1,2441	1,2556	1,3705	1,4708
ZAR - South African Rand	5,22666	6,23116	6,5188	6,3899	7,6873	9,9072	8,5317	8,0092	7,9183	8,5312	9,6596	12,059

Source: ECB - European Central Bank / Eurostat

### Appendix D - Workflow Example - Release of Export Data for a Country by Product



Country	2007		2008	
	Value	%	Value	%
USA	12.5	15.2	11.8	14.5
Germany	8.2	10.1	7.9	9.8
France	6.1	7.5	5.8	7.2
Italy	5.3	6.5	5.1	6.3
Spain	4.7	5.8	4.5	5.6
UK	3.9	4.8	3.7	4.6
Japan	3.2	3.9	3.1	3.8
China	2.8	3.5	2.7	3.4
India	2.1	2.6	2.0	2.5
South Korea	1.9	2.4	1.8	2.3
Canada	1.7	2.1	1.6	2.0
Brazil	1.5	1.9	1.4	1.8
Mexico	1.3	1.6	1.2	1.5
Other	1.1	1.4	1.0	1.3
<b>Total</b>	<b>82.1</b>	<b>100.0</b>	<b>81.5</b>	<b>100.0</b>