Contents

Preface ix
Acknowledgements xi
Abbreviations xiii

1. Introduction 1
   I. Post-cold war East Central Europe 1
   II. The importance of the topic 3
   III. Methodology 6

2. The post-cold war evolution of the arms industry 9
   I. Drivers of the transformation of the arms industry 9
   II. The new structure of the arms industry 15
   III. The arms industries of East Central Europe: crisis and partial recovery 33
   Table 2.1. Number of people employed in arms production in 1986 and 2000 34

3. Poland: a qualified success story 38
   I. Arms industry policy in the 1990s: protection 40
   II. Arms industry policy in the 2000s: promotion 48
   III. The arms industry 64
   IV. Military expenditure and procurement policy 79
   V. Recent developments 91
   VI. Conclusions 98
   Box 3.1. The two Polish capital groups, 2002 52
   Box 3.2. Major state-owned Polish arms companies, 2012 68
   Table 3.1. Basic data on the Polish arms industry, selected years 1988–2011 42
   Table 3.2. Major arms producers in Poland, 1991 and 1993 44
   Table 3.3. Major foreign acquisitions of Polish defence enterprises as of 2010 70
   Table 3.4. Main Polish offsets deals, as of December 2009 86

Appendix 3A. Polish company case studies 99
   I. Bumar’s rise from a domestic company to a potential regional giant 99
   II. ARP: an indigenous engine of development 104
   III. PZL-Świdnik: success via international cooperation 107
   IV. PZL-Mielec: a regional company that became an international player 111
   V. The Euro-Park Mielec special economic zone and the Aviation Valley 114
   VI. The F-16 deal 116
4. Hungary: the twists and turns of transformation  
   I. Arms industry policy: liberalism with elements of protectionism  
   II. The arms industry  
   III. Military expenditure and procurement policy  
   IV. Recent developments  
   V. Conclusions  

5. A comparison of Poland and Hungary  
   I. The size and the state of the economy and the arms industry  
   II. The arms industry's place in the economy  
   III. Defence industrial policy  
   IV. The Warsaw Pact heritage  
   V. The arms industry's links with national armed forces and participation in foreign operations  
   VI. Foreign ownership and partnerships  
   VII. Conclusions  

6. The Czech Republic: bright promises and sober reality  
   I. Defence industrial policy: from conversion to selective promotion  
   II. The arms industry  
   III. Military expenditure and procurement
Appendix 6A. Czech company case studies 228
   I. Aero Vodochody: out of the zone of turbulence 228
   II. The VERA surveillance system: endogenous research and development 233
   III. Tatra: success via foreign ownership 236
   IV. The Sellier & Bellot ammunition company: a typical Czech company 237

7. Slovakia: from a nationalist backwater to a Slavic tiger 240
   I. Defence industrial policy 241
   II. The arms industry 248
   III. Military procurement and exports 255

Appendix 7A. Slovak company case studies 261
   I. The spectacular conversion of the Slovak military triangle 261
   II. ZTS-Speciál and ZTS-Metallurgia: dealing with the legacy of the Warsaw Pact 263
   III. Way Industry: a successful conversion 265
   IV. ZVS Holding: a typical Slovak company 267

8. Bulgaria: the challenge of catching up 269
   I. A stop-go defence industrial policy 272
   II. The arms industry 279
   III. Procurement 288

Appendix 8A. Bulgarian company case studies 295
   I. The Terem group: a difficult privatization 295
   II. Arcus: successful privatization via management–employee buyout 297
   III. Arsenal: a typical Bulgarian company 298
   IV. Vazov Engineering Works: a difficult transformation 300
   V. Electron Progress: success on civil and military markets 302

9. Romania: high ambitions, harsh realities and pragmatism 305
   I. Defence industrial policy 308
   II. The arms industry 317
   III. Military procurement 324
   IV. Exports 330
   V. Poland and Romania: a comparison 333

Appendix 9A. Romanian company case studies 335
   I. Romarm: a difficult transformation 335
   II. Cugir: a typical Romanian company 337
   III. The Romanian aviation industry 340

10. The new arms industry in East Central Europe 346
    I. Key factors affecting the choice of a new defence industrial model 346
    II. Defence industrial adjustment models 350
    III. The outcome of defence industrial transformations 353
IV. The revitalized arms industry in East Central Europe 355
V. The arms industry and politics 360
VI. Changes at the company level 364
Table 10.1. Defence industrial adjustment models in East Central Europe 350

11. The impact of EU and NATO membership 371
   I. The rush towards EU and NATO membership 371
   II. East Central Europe and membership of NATO 375
   III. EU membership 381
   IV. Striking a balance between the EU and NATO 387
   V. Future prospects 389

12. Conclusions 395
   I. The arms industry in East Central Europe today: its nature and status 395
   II. The East Central European defence industry in the global production and trade of weapons 398
   III. General lessons and insights from East Central Europe 406

Index 414